

GIBBY'S GUIDE TO THE QUEST 2!

CELEBRATING
HALF A MILLION DOWNLOADS!

A FREE INDEPENDENT VR ZINE!

THANK YOU
READERS!

V22 | MAY/JUNE 2023

LOVINGLY CURATED!

COMPLETE BEGINNER'S GUIDE!

FULLY REVISED & UPDATED!

put down your weapon!

FIFTY THINGS TO DO THAT AIN'T PEW-PEW!



STUDY A FOREIGN LANGUAGE ...

CURE YOUR ARACHNOPHOBIA ...

CONDUCT AN ORCHESTRA ...

PRACTICE BREATHING MEDITATION ...

TEACH YOURSELF ANATOMY ...

LEARN TO DJ ...

TERRAFORM MARS ...

PLAY CHESS ...

DISSECT A SHARK ...

TOP

100
GAMES
RANKED

286
TITLES
REVIEWED

184
PACKED
PAGES



half a million downloads

Thank you dear readers!

Half a million! Five Hundred Thousand! 500,000!

However I look at it, these are crazy numbers. I could never have imagined when I published the first guide in February 2021 that so many people would download a copy. Thanks for all your support!

The first year saw 50,000 downloads, the second 450,000. These figures were verified via AWStats for the domain gibbysguide.org.

FULLY

**CLICK ON ANY iCON TO
TAKE YOU TO THE CONTENT!**

iNTERACTIVE!

BRAND NEW

**GO TO THE BLUE REFERENCE
PAGES TO GET STARTED!**

TO QUEST 2?

28

FIFTY THINGS!

14
GAMES!

119
CREATION &
EDUCATION!

136
FILMS &
ANIMATIONS!

168
GETTING STARTED!

KEY!



roomscale essential



best in roomscale



perfect for seated



air passthrough



hand tracking



replay value



mind the tv!



meditation



adventure



also psvr2



fitness



puzzle



possible
motion sickness



FIFTY THINGS

MORE FREE DLC!



podcasts!



meet the devs!

ABOUT THIS ISSUE!

Everybody loves a good shooter but VR is so much more than gaming. So here's **fifty things** to do on Quest 2 that ain't pew-pew!

They are all tried and tested (ok, except dissecting a shark!) and there's more details in the reviews. So go and teach yourself anatomy, cure your arachnophobia, play the piano ...

25% OFF ALL GAMES!

With the **app referral** scheme, you can get 25% off any title. Just search for it on the Metadog site **here**. Add your own to earn \$5 every time someone uses your code. You can still get a full refund for any game played for less than two hours within 14 days. Advisory: **free trials** remove your ability to get 25% off if you then buy.

WELCOME PSVR2 USERS!

There are many crossover titles in the guide that are also available for the PSVR2 so I've added an icon where they are compatible. Look out for !

PCVR WITHOUT A PC?

All the titles in this guide are native to Quest 2, no PC required! But you can try PCVR with services that offer VR cloud gaming - **shadow pc** and **plutosphere**. Meta is working on its own service, Avalanche.

MODS WITHOUT A PC?

A handful of titles allow you to mod on the native Quest 2. Download **mobile vr station**. Search for mods on the **mod.io** website (only those for Android will work). Download and install.

OCULUS GO ON QUEST 2!

With v51, some Go games now play on Quest 2! Check the compatibility list **here**, the store **here**, and my (ancient) guide to the Go **here**!

ABOUT THIS GUIDE!

The guide started life as a pandemic passion project and keeps growing! It's **fully updated and revised every couple of months** with added developer interviews. **I pay for all apps** so you know that you are getting an unbiased and independent view. This isn't a comprehensive guide - everything in it is a **positive recommendation** of the stuff I like. It all comes down to personal choice in the end - each to their own!
gibby@gibbysguide.org

SURVIVAL

INTO THE RADIUS

MULTIPLAYER



ORIGINAL



FILM



ANIMATION



ADVENTURE



RHYTHM



SPORTS



CREATIVE



INTERACTIVE ANIMATION



NEW FOR QUEST 2!

click the icons to go to **the experiences!**

eye of the temple roomscale puzzler!



call of the sea a *bona fide* love story!



kill it with fire vr anarchy!



toy monsters hand tracking!



slam tennis rhythm game!



breachers 5x5 tactical shooter!



not for broadcast editing comedy gold!



nyssa a young witch loses her best friend ...



the last worker end-stage capitalism!



NEW EARLY ACCESS!

play now and help the developers get their game ready for full release!

ghosts of tabor multiplayer survival!



not me! who is the werewolf?!



stack multiplayer disc combat!



atlas endgames next gen battle royale!



sherlock holmes case of the hung parliament!



oathbreakers open-world multiplayer!



ALPHA & BETA!

* **early access** games are released for playtesting. They will be fully playable but may have bugs or incomplete features. Some require payment but you will get the full game on release.

NEW COMING SOON!

click the icons to watch **teaser videos!**

retropolis 2 never say goodbye!



pixel ripped 1978 arcade adventures!



tin hearts magical toy world!



thrill of the fight 2 multiplayer boxing!



another fisherman's tale seafaring sequel!



i expect you to die 3 puzzling three-quel!



behemoth brutal survival!



ancient board games eight legendary games



NEW COMING SOON!

click the icons to watch **teaser videos!**

yupitergrad 2 the lost station!



the foglands sci-fi western horror!



rooms of realities multiplayer escape room!



dead hook vr brutal shooter!



propagation paradise hotel survival horror!



broken sceptre hand tracking horror!



killer frequency 80s horror!



affected: the asylum multiplayer horror!



NEW COMING SOON!

click the icons to watch **teaser videos!**

hubris sci-fi survival!



hellsweeper vr immortal combat!



journey to foundation Asimov adventure!



stranger things VR from Tender Claws!



ziggy's cosmic adventures space fun!



the signifier tech-noir mystery!



genotype sci-fi adventure in Antarctica!



echowars road rage



NEW COMING SOON!

click the icons to watch **teaser videos!**

hello neighbor horror puzzle game!



crimen mercenary tales!



no more rainbows official launch coming!



let it boom! explosive co-op!



warplab portal 3!



requisition co-op zombie killer!



escape together secrets of the professor!



everslaught invasion fast hack 'n' slash!



NEW COMING SOON!

click the icons to watch **teaser videos!**

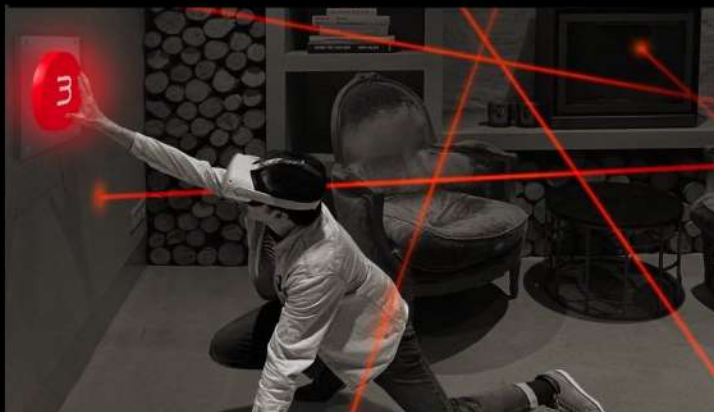
rogue ascent vr hand tracking shooter!



battle talent combat fantasy!



laser dance mixed reality beam dodging!



we are one official launch coming!



tamers dawn monster catching!



slink & snatch tales of thievery!



upa ugly potatoes affair - AI adventures!



attack on titan vr unbreakable!



GAMES!

Eye Of The Temple





RANKED!

GAMES!



best of the quest!

Here's my ever-changing *personal* favourite 100 games - ranked for fun!

one!



into the radius 🕒

app | \$30 R

eerie supernatural stealth survival shooter!

two!



red matter 1 & 2 🕒 🚗 🧩

app | \$25 & \$30 🎮

surreal & spectacular sci-fi adventures in space!

three!



song in the smoke 🕒 🚗

app | \$30 R 🎮

soul, spirit, survival

four!



pistol whip 🏠 ❤️

app | \$30 R 🎮

shoot to the beat in a cinematic bullet hell!

five!



the walking dead: 🕒 🚗

saints & sinners ch1 & 2

app | \$40 & \$40 🎮

epic zombie survival!

six!



audio trip 🏠 ❤️

app | \$20 R

top-class choreography!

seven!



moss book I & II 🕒 🚗

app | \$30 & \$40 🎮

magical mouse diorama!

eight!



the climb 2 🕒 🎮 ❤️

app | \$30 R

epic free solo climbing!

nine! multiplayer!



eleven table tennis 🏠 ❤️

app | \$30 R 🎮

AI ping & multiplayer pong!

ten!



puzzling places 🚗 🧩 🧩 🧩

app | \$15 & dlc R 🎮

photogrammetry jigsaws!

eleven! multiplayer!



walkabout minigolf

app | \$15 & dlc R 🎮

pitch 'n' putt with friends!

twelve!



the light brigade 🕒 🚗

app | \$22 R 🎮

dreamy magical shooter!

thirteen to twenty-four!

Buy and try on the official store - you get an automatic refund if you've played for less than two hours and within 14 days of purchase. And look out for sales!

thirteen! multi!



blaston 🏠❤️🎮👁️
app | free **R**
duelling AI or randoms!

fourteen!



green hell vr 🎮👁️
app | \$30
Survival campain into the heart of the Amazon!

fifteen!



the room vr 🎮👁️🧩
app | \$30
spellbinding detective mystery!

sixteen!



down the rabbit hole 🎮🧩
app | \$20
gorgeous alice in wonderland prequel!

seventeen!



crashland 🏠
app | \$20 **R**
aaaaaarrrrrrggggggghhhh!
the toughest game in VR?

eighteen!



yupitergrad 🏠
app | free demo | \$15 **R**
superb Slavic spiderman!
* free demo on sidequest!

nineteen! multi!



real vr fishing 🎮👁️🧩
app | \$20 & dlc **R**
in Korea, Japan & US West

twenty!



the last clockwinder 🧩
app | \$25 **R** 🎮
self-cloning capers!

twenty-one!



i expect you to die 1 & 2 🧩
app | \$25 & \$25
welcome back, agent!
* plus free passthrough game 'home sweet home'

twenty-two!



phantom: covert ops 🎮👁️🚣
app | \$30
stealth kayaking?! oh, yeah

twenty-three!



superhot vr 🏠❤️🎮👁️
app | free demo | \$25
the matrix!

twenty-four! new!



eye of the temple 🏠🎮👁️🌀
app | \$20
free movement adventure!

twenty-five to thirty-six!

twenty-five!



a fisherman's tale 🏠🧩
app | \$15
 macro to micro seafaring!

twenty-six!



tea for god 🏠👉
app lab | free demo
 non-euclidean geometry!

twenty-seven!



drop dead: the cabin 🚗
app | \$25 Ⓜ️
 intense zombie co-op!

twenty-eight!



little cities 🚗👉
app | \$20 Ⓜ️
 beautiful and benign
 homespun world builder!

twenty-nine! multi!



the under presents 🕒
app | free | in-app Ⓜ️
 open world theatrics with
 scrunch locomotion!

thirty!



waltz of the wizard 🕒👉
app | \$20 Ⓜ️
 natural magic!

thirty-one!



sweet surrender 🚗
app | \$25 Ⓜ️
 kick-ass techno roguelite!

thirty-two!



**star wars: tales from
 the galaxy's edge** 🕒🎮
app | \$35*
 child's play but epic optics!
 * including DLC 'Last Call'

thirty-three!



garden of the sea 🕒🧩🚗
app | \$25 Ⓜ️🎮
 cute island-hopping!

thirty-four!



lies beneath 🕒
app | \$30
 graphic novel thriller!

thirty-five! multi! new!



breachers
app | \$30 Ⓜ️
 5x5 tactical shooter!

thirty-six!



cubism 🧩🧩🚗🎮
app | \$10 Ⓜ️
 puzzle, piano, passthrough!

thirty-seven to forty-eight!

thirty-seven! multi!



black hole pool

app lab | \$10 R

perfect pool sim!

thirty-eight! new!



not for broadcast 🚫

app | \$25

edit some comedy gold!

thirty-nine! multi!



barbaria 🚫

app | \$20 R

zany campaign brawler!

forty!



ARK & ADE 🚫

app | \$10 R

inside the game Tron-style!

forty-one! multi!



primal hunt 🚫 🌱

app | \$30 R

destroying dinosaurs!

forty-two!



resist 🌱 🚫 🌱

app | \$20

weaponised spiderman!

forty-three!



dead second 🏠

app lab | \$20 R

bodyshifting shooter!

forty-four!



shadow point 🌱 🧩 🚫

app | \$20

mystery in Inverness!

forty-five! new!



call of the sea 🧩 🌱 🚫

app | \$20

a bona fide love story!

forty-six!



myst 🌱 🚫 🧩 🦋

app | \$30

remake of 1993 classic!

forty-seven!



maskmaker 🌱 🚫 🧩

app | \$20

apprentice turns master!

forty-eight!



tentacular 🧩 🚫 🎮

app | \$25

original squid game!

forty-nine to sixty!

forty-nine! multi!



ultrawings 2 🚗 🎮
app | \$25 **R**
 multiplayer dogfights!

fifty!



carve 🎮
app | \$20 **R**
 smooth snowboarding!

fifty-one! multi!



ragnarock 🚗 ❤️
app | \$25 **R** 🎮
 crazy viking rhythm race!

fifty-two!



deisim 🚗
app | \$15 **R**
 be a powerful God!

fifty-three! multi!



warplanes: battle over 🎮
pacific app | \$20 **R**
 WWII missions!

fifty-four! multi!



traVRsal 🏠
app lab | \$10
 natural walking in VR!

fifty-five!



squingle 🧩 🚗 🎮
app lab | \$12 **R**
 totally trippy puzzler!

fifty-six!



thrill of the fight 🏠 ❤️ 🎮
app | \$10 **R**
 champion of boxing games

fifty-seven! multi!



blacktop hoops
app lab | **free demo** **R**
 the future of VR basketball!

fifty-eight!



daedalus 🧩
app lab | \$5
 amazing flying sensations!

fifty-nine!



ancient dungeon 🎮
app | **free demo** | \$20
 hilarious pixel adventure!

sixty! new!



kill it with fire 🚗
app | \$15
 anarchic arachnid murder!

sixty-one to seventy-two!



**the curious tale of
the stolen pets**
app | \$10
touch that cuteness!



fujii
app | \$15
kaleidoscopic gardening!



the last worker
app | \$25
end-stage capitalism!



espire 2
app | \$30
seek & hide co-op stealth!



stride
app | \$15
parkour madness!



beers & boomerangs
app lab | free demo | \$20
Australian simulator!



ultimechs
app | free & in-app
multiplayer robot wars!



compound
app | \$20
retro pixel arcade shooter!



guardians frontline
app | \$25
sci-fi strategy shooter!



<RUNNER>
app | \$15
arcade anime bike action!



driven
app lab | \$8
multiplayer racing!



pathcraft
app | \$15
lemmings-like puzzler!

seventy-three to eighty-four!

seventy-three!



eolia 🌿 🧩 🏠 🌀

app | \$15

hand tracking fantasy tale!

seventy-four! multi!



space pirate trainer dx 🏠

app | \$25 R

trailblazing arena mode!

seventy-five!



unplugged: air guitar 🌀

app | \$25 R 🧩 🎮

hand tracking guitar hero!

seventy-six!



holopoint 🏠 ❤️ 🎮

app | \$15 R

intense ninja archery!

seventy-seven!



crazy kung fu 🏠 🧩 R

app lab | free demo | \$10

passthrough martial arts!

seventy-eight! multi!



broken edge 🏠

app | \$10 R

sword fencing!

seventy-nine!



per aspera 🏠

app | \$25

terraforming Mars!

eighty!



we are one 🧩

app lab | free demo

clone co-op!

eighty-one!



v-speedway 🏠

app lab | free R

arcade racing!

eighty-two! multi!



carly and the 🌿 🏠

reaperman app | \$20

play with non-VR in co-op!

eighty-three! multi!



vox machinae 🌿 🏠

app | \$25 R

war of the worlds!

eighty-four! multi!



nock

app | \$10 R 🎮

archery-football-ice hockey!

eighty-five to ninety-six!

eighty-five!



gravity lab 🧩📱
app | \$15 **R**
 sexy space puzzles!

eighty-six!



gadgeteer 🧩🚗
app | \$15 **R**
 incredible machine building!

eighty-seven! multi!



racket nx 🏠❤️🎮
app | free demo | \$20 **R**
 some kinda future squash!

eighty-eight!



surgineer 🦋
app | \$10
 from hand physics lab devs

eighty-nine!



till tomorrow 🌿🚗
app lab | free demo | \$10
 desert island survival!

ninety!



wind wind 🧩🚗
app lab | \$20
 cute Korean diorama!

ninety-one! multi!



spatial ops 🏠📱
sidequest | free **R**
 passthrough multiplayer!

ninety-two!



gladius 🏠🎮
app lab | \$15 **R**
 comedy gore!

ninety-three!



sömmad 🧩🏠
app lab | \$10
 impossible spaces maze!

ninety-four!



cosmodread 🌀
app | \$15
 terrifying space maze!

ninety-five!



ghost giant 🌀🧩🚗
app | \$25
 be a huge helping hand!

ninety-six! multi!



chess club 🚗🧩🦋
app | \$15 **R**
 battle chess in Stonehenge

ninety-seven to one hundred!

ninety-seven!



land's end
go app | \$5
move rocks with your mind!

ninety-eight!



maestro
app lab | free
orchestral manoeuvres!

ninety-nine!



time stall
app | \$15
save the captain!

one hundred!



hand physics lab
app | \$10 R
zany hand tracking tricks!

bonus!



dungeon maker
app lab | free R
buildeth thy deathly pits!

bonus!



paradiddle
app | \$20 R
percussion passthrough!

bonus! multi!



mothergunship: forge
app | \$20 R
mad weapon building!

bonus!



DAVID
app lab | \$15
sleek 3rd person shooter!

bonus!



shores of loci
app | \$15
meditative jigsaws!

bonus! new!



toy monsters
app lab | \$5 R
table top mixed reality!

bonus! new!



slam
app | free demo | \$10 R
tennis rhythm game!

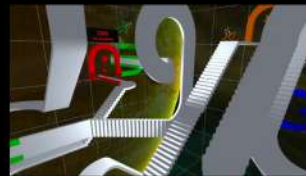
bonus! new!



coastermania
app lab | \$10 R
build and ride your own!

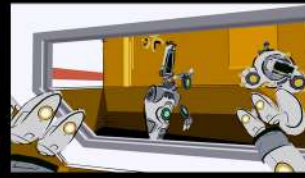
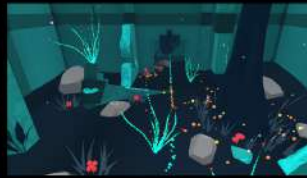
also reviewed ...

These games are also recommended and reviewed in the guide although they didn't make the top 100. Click on the icons to take you to the store.



also reviewed ...

Fun fact: Almost all of these games were once included in the top 100 before getting squeezed out by new releases. Still good though ...



weird & wonderful!

Bonus! Really random shit that pops up on App Lab and Sidequest!



playing VR with girlfriend
app lab | \$10
just ... no.



high voltage electrical substation training
app lab | free
catchy name, hot app!



industrial dishwasher simulation
app lab | free
washing up in Finnish!



VR pigeons ❤️
app lab | \$3
do yourself a favour -
just watch the trailer!



relaxed spiders
experience app lab | \$7
phantom tingles with hand
tracking and spiders!



the american dream
app | \$15
guns, guns, guns, guns,
guns, guns, guns!



into the metaverse 🏠
app lab | \$10
the story of storytelling!



don't upset bobby 🧩
app lab | free
threatening freak doll!



rollercoaster vr box 🎢
sidequest | free
genius vomit fest!

multiplayer!



golf pool vr 🏌️‍♂️
app lab | \$6
... on the moon!

multiplayer!



flying squirrel chase 🏠
app lab | free
flap your wings!

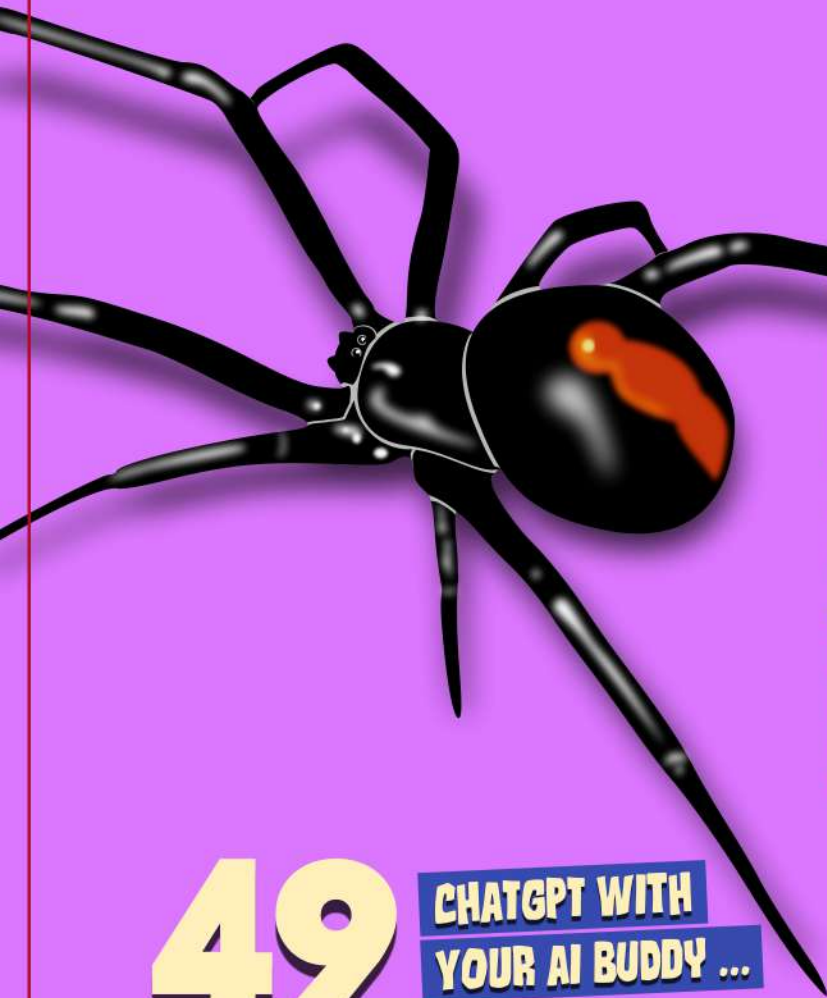


who do you voo doo 🏠
app lab | \$1
name your doll and kill!

We all love a good shooter but VR is much more than gaming. So here's ...

fifty things

... to do that ain't pew-pew! Presented here in no particular order, you can read more in the reviews. Click on the icons to take you to the experiences.



50

**GET OVER YOUR
ARACHNOPHOBIA ...**



**Relaxed Spiders
Experience | \$7**

You may experience a phantom tingling sensation as you let friendly spiders crawl on to your palm in this hand tracking app. 'The spiders are curious about you and want to know more about you. They are gentle and harmless'. Or just play **Kill It With Fire!**

49

**CHATGPT WITH
YOUR AI BUDDY ...**



Replika | free

It's Spike Jonze's *Her* made real! Replika has been providing the ChatGPT experience for years but in avatar form. Voice chat to the pink-haired Priscilla (or AI of your choice) and she will learn about you as you develop her personality.

48

**LEARN SOME
SELF-DEFENCE ...**



Fight Back | free

Innovative hand tracking experience to introduce self-defence moves 'as an answer to gender-based violence' made by and for women.



47 LEARN TO DJ WITH VIRTUAL DECKS ...



Vinyl Reality Lite | \$10

A pair of your very own Technix (*sic*) decks to play your own tunes? And you can stream it live and record your own mixes? In passthrough? Bangin'!

46 GO ON A MUSICAL JOURNEY ...



Musical Journey
free

A clever educational trip into musical history. Mix and match Jamaican bass with BB King guitar, Czech folk violin with Tropical House drums. Play with fusions to unlock new ones and learn how migration influenced styles. There's everything from UK grime to EDM.

45 ASSEMBLE SONIC MACHINES ...



PatchWorld | \$25

A goofy gamified musical wonderland on the surface but a highly technical endlessly-customisable open source machine underneath. Using 'patches' you can join together the building blocks to create instruments and sonic experiences with a great interface.

44 CREATE A DANCE CHOREOGRAPHY ...



Audio Trip | \$20

Import your favourite dance track and use the editor tool to make your own bespoke choreography with barriers, gems, ribbons and drums!

43 TRAVEL INSIDE A DALÍ MASTERPIECE ...



Dreams of Dalí | **free**

A stone-cold classic must-see that is an epic fly-through the trippy surrealism of the Spanish painter.

Based on *Archaeological Reminiscence of Millet's Angelus*, there's lobster phones and elephants on stilts, too. With the voice of Dalí, it's its own masterpiece.

42 BECOME AN OIL PAINTING ARTIST ...



Vermillion | \$20

An oil painting sim in passthrough, landscape or an artist's studio, you can create alone or with friends. You can export in hi-res to print, too.

41 CREATE YOUR OWN ART EXHIBITION ...

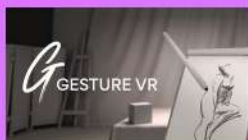


TraVRsal | \$10

Upload your photos and curate your own installation that you can physically walk around! TraVRsal uses 'impossible spaces' that does away with the controllers and uses your legs even in confined rooms. And it's multiplayer!



40 PRACTICE LIFE DRAWING ...



Gesture VR | \$14

With a simple black and white aesthetic and ambient music, Gesture VR is a straight-forward life drawing app. There's 120 photogrammetry nude models in a variety of poses. Change lighting, rotate models at will - all in passthrough.

39 LEARN ABOUT ART HISTORY ...



(Hi)Story Of A Painting | **free**

Featuring the work of Artemisia Gentileschi. Other highlights: **Las Meninas** (Diego Velázquez) and **A Bar at Foiles-Bergère** (Édouard Manet).

38 TRAIN TO SAVE A LIFE ...



CPR Simulator | \$10

Learn how to save a life in an emergency when the heart stops beating, without the need for in-person training in first aid. The developers AATE VR are giving the app away free to anyone in Poland or the Ukraine following the invasion.

37 TEACH YOURSELF HUMAN ANATOMY ...



Human Anatomy VR | **free trial**

With Ant Mode you can shrink and explore inside the human body just like in the film *Fantastic Voyage*. A truly amazing application of VR.

36 DISSECT A SHARK ...



Dissection Simulator | \$25

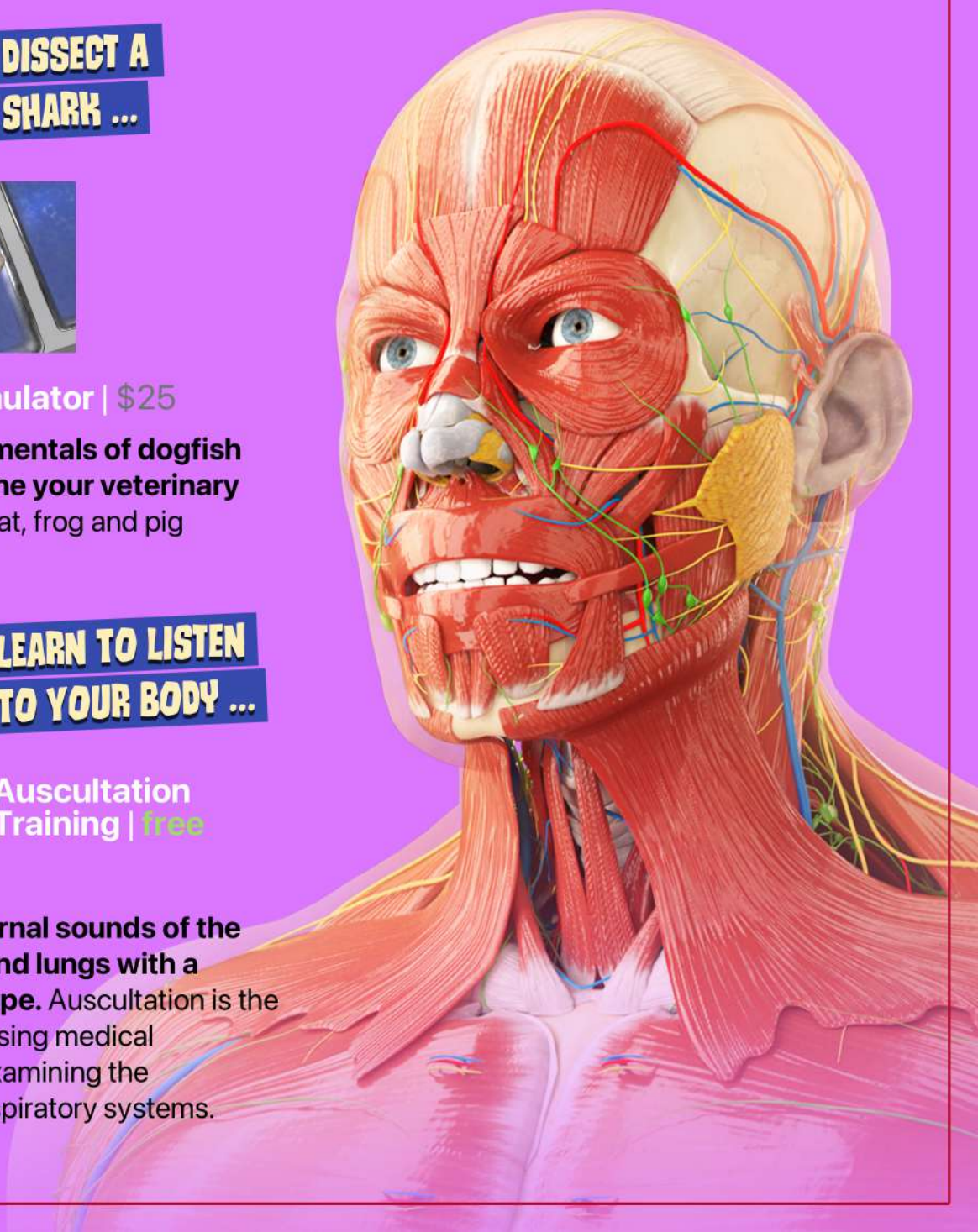
Learn the fundamentals of dogfish anatomy and hone your veterinary skills. There are cat, frog and pig editions, too.

35 LEARN TO LISTEN TO YOUR BODY ...



Auscultation Training | **free**

Listen to the internal sounds of the body like heart and lungs with a virtual stethoscope. Auscultation is the practice of diagnosing medical conditions from examining the circulatory and respiratory systems.



34

STUDY ALL THE CONSTELLATIONS ...



Sky Academy | \$10

Know your Canopus from your Sirius, your Crux from your Ursa Minor in your own home planetarium. Gaze at the whole of the night sky and point at any features for information. The app teaches you 88 constellations and 150 stars and tests your memory.

33

TERRAFORM THE RED PLANET ...



Per Aspera | \$25

Have a shot at terraforming Mars into a lush world in this strategy sim before Elon Musk gets his hands on it. The topography is from Nasa data.

32

WALK ON MARS AND EXO-PLANETS ...



Into Space | \$3

Gaze open-mouthed at the edge of the deepest canyon in the solar system with your fellow astronauts on the Red Planet. Faber Courtial's epic space films were made with actors using green screen and phenomenal animations in 360. Just like being there.

31

EXPERIENCE ZERO GRAVITY ...



Mission: ISS | free

Experience micro gravity in this Emmy-award winning simulator aboard the International Space Station - if your stomach can take it! Push off walls and grab rails, stopping occasionally to listen to the astronauts give talks on educational videos.

30

GO ON A SPACEWALK ...



Spacewalk VR Experience | \$7

How else could you go Earth-gazing? This is goosebump material as you open the doors of the space shuttle and venture out. Epic.



29

SET UP YOUR OWN
AR DRUM KIT ...

Paradiddle | \$20

Drag and drop a range of over 50 instruments into your own custom arrangement or try a preset like the **Ringo Starr**. Kick drum is with trigger button but there is pedal and periphery support. Learn how to play the kit in ten simple lessons.

28

CONDUCT AN
ORCHESTRA ...

Maestro: The Masterclass | free

Wave your virtual baton and conduct a full concert orchestra in a stirring rendition of Verdi's *Requiem* in this cartoon hand tracking marvel.

27

LEARN HOW TO
PLAY THE PIANO ...Magic Keys
free

Using Guitar Hero-style coloured cues overlaid in passthrough you can play a virtual keyboard or use a real one. There's a chords and scales trainer to teach everything from Twinkle Twinkle Little Star to Beethoven's Für Elise. See also **PianoVision**, another free app.



26

JAM WITH UNIQUE
VR INSTRUMENTS ...

Virtuoso | \$20

A tool to play music with instruments designed for VR, Virtuoso makes GarageBand feel like the 18th century. Lay down a beat with the Empads, then loop sounds from the Oorgan, wHarp, Board, Clustr and the ethereal Theramin, plus a mic.

25

CREATE AN AMBIENT
HANDPAN GROOVE ...

Handpan VR | \$4

Like an inverted steel drum with a lovely meditative sound, the handpan was invented in Switzerland in 2001. Just play using your hands.

24

MAKE YOUR OWN VR GAME ...



... from scratch with no previous experience and go from the bedroom floor to the official store! That's what a bunch of friends behind top arcade shooter **ARK & ADE** did. For inspiration and direction read the interview [here](#)

23

MAKE YOUR OWN VR FILM ...



You can get the kit for under \$1,000 these days. Make a feature and send it out to VR film festivals. See 'recording in vr' on page 180.

22

GO ON AN AFRICAN SAFARI ...



Okavango Experience | [free](#)

'That first moment sitting by myself on the Okavango Delta was the most profound moment of my life. It is a wilderness beyond comparison.' Biologist Steve Boyes is an evocative and passionate narrator in this wonderful 2017 film made for National Geographic.

21

VISIT ANNE FRANK'S HOUSE ...



Anne Frank House VR | [free](#)

An unparalleled and unmissable visit to the house of Anne Frank. The extraordinary Jewish girl was given a diary on her 13th birthday and her writings in hiding during World War II became famous after she died in the Nazi Bergen-Belsen concentration camp.

20

LEARN HOW TO COOK ANCIENT RECIPES ...



Lost Recipes | \$10

Learn recipes that hark back to Ancient Greek, China and Mayan cuisine. Make Dongpo Pork and Mukbil Pollo under expert tuition.



19

GO ON AN AMAZONIAN
AYAHUASCA TRIP ...Ayahuasca Kosmic
Journey | **free**

Director Jan Kounen's jaw-dropping Amazon trip begins in the jungle with a shaman sitting in front of you. Go on a mesmeric psychedelic journey with visions of animal spirits in the fractal cathedrals representing the effects of the hallucinogenic drug ayahuasca.

18

PLAY CHESS
IN STONEHENGE ...

Chess Club | \$15

Play novelty battle chess or a classic game in Stonehenge, the Gardens or the Grand Palace. There's multiplayer or AI in a 5 minute blitz or up to 30.

17

MARCH WITH
MARTIN LUTHER KING ...The March 360 | **free**

Walk with the protestors in an animated recreation of the March for Jobs and Freedom. Watch highlights of Dr King's 16-minute epoch-defining speech at the Lincoln Memorial in Washinton DC. '1963 is not an end, but a beginning ...'

16

PRACTICE BREATHING
MEDITATION ...

Flowborne | \$10

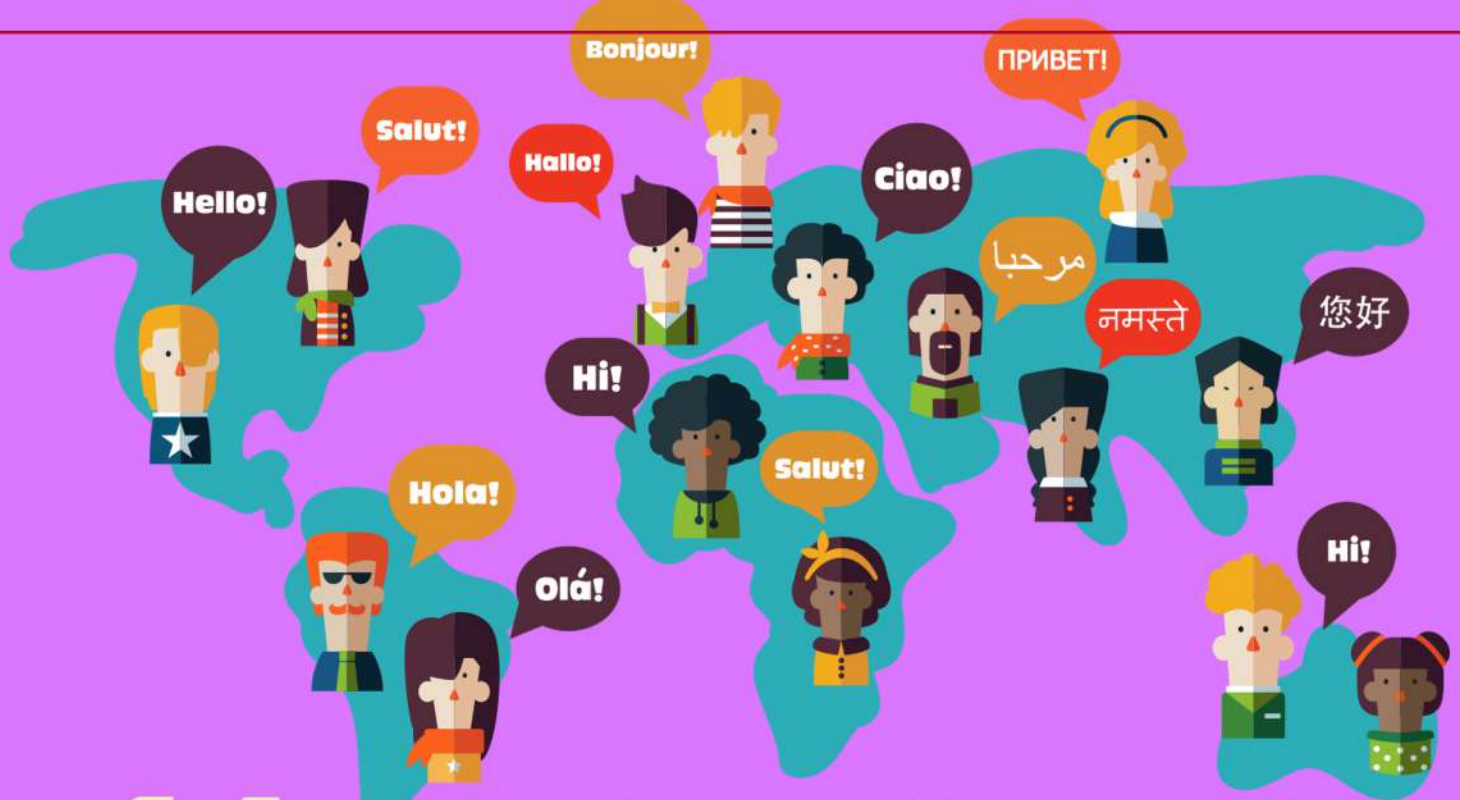
Flowborne is a gentle meditative biofeedback breathing experience. The key here is the innovative movement. Place one controller on your abdomen and the very act of breathing out propels you through calming worlds with ambient sounds.

15

HELP A CHILD IN
HER DREAMS ...

Wolves In The Walls | \$20

An Emmy award-winning pioneer in the use of interactive *virtual beings*, this adaptation of Neil Gaiman's children's book is visionary.



14

LEARN A FOREIGN LANGUAGE ...



Noun Town | \$15

It's a different approach to language learning. Explore an island and pick up any object. Now hold the item to your ear to learn how to say it, then **speak**. Current supported languages are Japanese, Spanish, French, Italian, German and Chinese.

13

IMPROVE YOUR GEOGRAPHY ...



Somewhere | **free**

Addictive geography game where you guess the locations based on Google Street View photos, a VR version of Geoguessr.

12

WALK AROUND DEATH VALLEY ...



BRINK Traveler | \$15

... or 21 other global spots. This is hi-res photogrammetry but with special sauce - flying birds and grass bending in the breeze. Crucially you can move around a few feet in any direction and binaural soundscapes to add to the illusion. Now with multiplayer.

11

EXPLORE ANY NEIGHBOURHOOD ...



Wander | \$10

It might only be Google Street View in VR but being able to go to any address on the planet in an instant never gets old. Hours of engrossing fun.

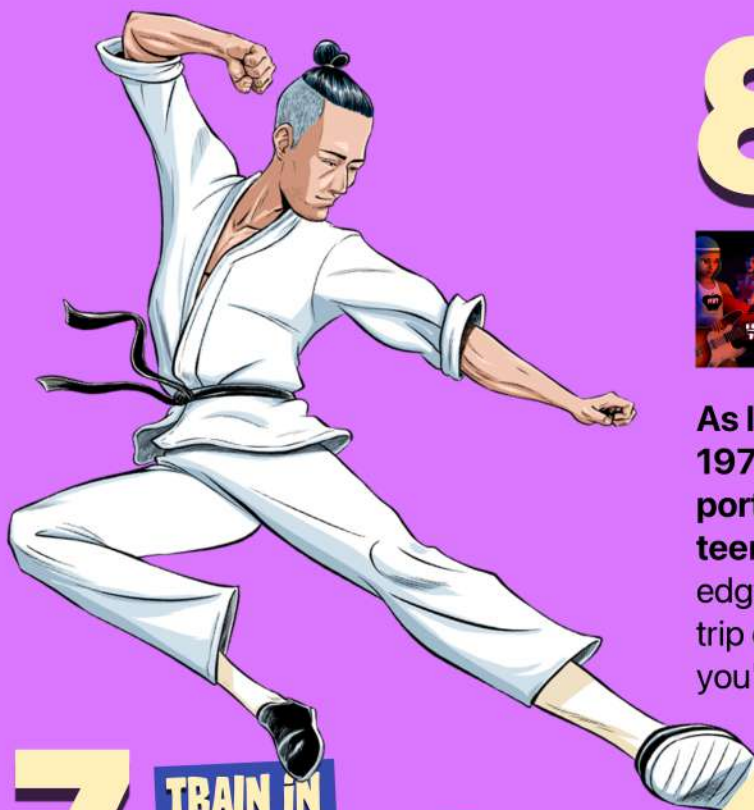
10 JOIN A WELLBEING COMMUNITY ...



Innerworld
free trial

From CEO and founder Noah Robinson: 'Innerworld has entire worlds built for your mental wellness.

Our community is a great source of positivity. You can share what's going on in your life. Come to a meeting, even if you just watch and listen.'



7 TRAIN IN MARTIAL ARTS ...



Crazy Kung Fu | \$10

Developer Arnaud originally designed this game as a training tool for himself as a practitioner of martial arts for 12 years. Pitted against a spinning Wing Chun wooden dummy, you dodge flashing blades, block and punch under a wise man's watchful gaze.

9 HITCHHIKE ACROSS THE USA ...



Hitchhiker | \$20

Nothing is as it seems in this surreal road trip. An interactive animation, hop in with five different drivers. Vern *really* wants you to try his raisins ...

8 RIOT WITH THE PUNK GRRRLS ...



BattleScar | \$6

As loud, angry and energised as the 1978 New York punk scene it portrays, BattleScar follows two teenage runaways. Dark, urgent and edgy, this animated tale takes you on a trip down dangerous alleyways where you'll see that punk was invented by girls.

6 EXPERIENCE THE GANZFELD EFFECT ...



Le Soleil d'Edvard Munch | free

Using the Ganzfeld effect of perceptual deprivation to create 'hallucinations' of colours, this animation carries a health warning.

5

VISIT A MAGICAL ISLAND OF POP ...



Tales From Soda Island | **free**

An astonishing series of seven short animations set in the strange universe of Soda Island, with smoothie beavers and peace-loving *nekoalas*. At times fantastically minimalist and always wordless, Soda Island is fizzing with life.

3

MAKE A 360 PHOTO GALLERY ...



ImmerGallery | \$10

An intelligent viewer for 360, 180, panoramic and flat photos. Feature-rich, you can create slideshows and add dynamic effects like rain and snow or add FX, music or voice notes. Use the thumbstick to turn around in 360 and directly download shared galleries.

2

GO INSIDE THE MONA LISA ...



Art Plunge | \$2

Magical immersion into five masterpieces which are brought to life in an inspired interpretation in VR.

Go inside animations of Starry Night, Mona Lisa, The Birth of Venus, The Creation of Adam and Girl Reading a Letter at an Open Window.

4

DESIGN A PAIR OF TRAINERS ...



Gravity Sketch | **free**

Or Sneakers. Or Tenís (Portuguese). Or Baskets (French). If you want to speak the language of 3D design then Gravity Sketch is it.



1

PAINT IN 3D WITH FRIENDS ...



Multibrush | \$20

Paint with the impossible like smoke and fire in this 3D tool where your room is your canvas. If you don't need multiplayer try Open Brush for free.



REVIEWED!
GAMES!

interviews archive!

Download [this](#) supplement to read interviews with all the developers featured in past editions wherever you see **meet the devs!**



meet the devs!

TALES FROM AROUND THE WORLD! SWITZERLAND | SWEDEN | ITALY
GERMANY | POLAND | BRAZIL | ENGLAND | JAPAN | CHINA |
HOLLAND | BELGIUM | ISRAEL | CANADA | SPAIN | WALES | USA

REVIEWS

new releases!



Call Of The Sea | \$20

Gosh! A *bona fide* love story! With a female protagonist! Call Of The Sea is a frightfully good animated yarn set in 1934 narrated in cut-glass upper class English by the hero Norah Everhart (Cissy Jones).

It's a pretty adventure puzzle game where you set sail to Polynesia on the trail of your darling Harry. But there's something fishy about the island and the tale takes surreal and sinister turns, with some wild rides along the way.

There's six expansive chapters across vast areas from underwater caverns to shipwrecks with satisfying head-scratchers. Did Harry find the cure for your mysterious disease? Will you be reunited with your sweetheart?



Eye Of The Temple | \$20

Genius. One of those only-in-VR experiences, Eye of the Temple is a true roomscale game with physical movement that is much more than a gimmick - this is a full-scale Indiana Jones-style puzzle adventure.

Armed with a fire torch and a beautifully animated whip, there's ducking and diving, barrel-rolling and giant bee swatting in a 4-5 hour campaign with bonus speedrun challenges.

Solo developer Rune Skovbo Johansen spent seven years implementing an 'impossible spaces' mechanic allowing you to traverse the gorgeous levels of the temple while only stepping within a 2 x 2 metre area. No thumbstick, no button pressing. Groundbreaking.

Slam | free demo | \$10

A fresh twist on rhythm games with tennis strokes in place of punches, Slam delivers a clean environment with a handful of tracks. Switch between left and right handed modes and land your shots on shifting targets. One to watch.

new releases!



The Last Worker | \$20

Is it a cel-shaded graphic novel? A four-hour interactive play on end-stage capitalism? An elaborate gamified joke attacking the very tech platforms it's sold on? The Last Worker is certainly a radical outlier, a crazy pandemic project from movie director Jörg Tittel.

There's Skew, a foul-mouthed robot Scouser; Josef, a rainbow-haired mad-eyed meglomaniac boss of Jüngle (i.e. Amazon) and Kurt, the last human shift-worker in the *fulfilment* warehouse.

Kurt thinks he's delivering dreams by sorting the packages - like a 'Fortnight gaming chair' or the 'world's biggest troll' which looks just like a certain ex-US President. But an activist *hoverbird* is about to change his life.



Not For Broadcast | \$25

And now for something completely different ... unashamedly British with a laugh-out-loud script, you play a live video editor in a studio with a Sarf London director in one ear and some crazy antics on screen.

*'Shit! He said f**k!'* Censor swearing, switch shots to boost ratings and twiddle fiddly knobs. Your decisions impact real world events and you can see chaos reign outside your window.

'I've been living in a paradise, it's awfully nice, if you don't think twice' ... Not For Broadcast is a dark, outrageous and surreal satire dressed up as a game with 43 of hours of footage to play with and multiple endings. This is comedy gold. And it's like nothing else in VR.

Toy Monsters | \$5

A handsome hand tracking mixed reality table top mini-game. Stop the monsters with your arsenal of a micro cannon, exploding poo, shooting candle, bear shield, toy train, laser hands, flamethrowing fingers ...

new releases!



Breachers | \$30

Three minutes. It's all over. Three minutes. Go again. Like an attention deficit disorder, Triangle Factory's good-looking tactical multiplayer shooter has got you in it's sights.

Rinse and repeat with your five-person team to either defuse the bomb (Enforcers) or defend it (Revolters). It's a mix of stealth and action, planning and teamwork with a wealth of cool gadgets and weaponry at your disposal.

Four maps - Killhouse is deathmatch - are beautifully rendered from breathtaking Skyscraper to the Factory and Hideout. Rappel, blow up walls, set traps, fly drones, swing through windows, go invisible, crouch in silence, go all-out blazing. Intense.



Kill It With Fire | \$15

Anarchic trash 'n' burn in suburbia to a comedy horror soundtrack as you kill an array of arachnids with anything from a shotgun to ninja stars.

Solo dev Casey Donnellan's great blocky art style keeps it light (the spideys can't hurt you but can jump!) and zany missions make it a pseudo-puzzle game.

You've got an upgradable spider radar, a range of lure snacks and an unbeatable set of crazy murder weapons to keep you happy through the nine levels.

Leave a trail of destruction in your wake as you smash through offices and supermarkets. Bonus challenges unlock for satisfying speed runs to rock out. Just be aware there are consequences ...

CoasterMania | \$10

Build the roller coaster of your dreams in your front room in passthrough then ride inside it! Still in Early Access, the track builder is nice and simple and you can download community efforts. Not for those prone to motion sickness!

into the radius



meet the dev!



Into The Radius | \$30

'Who is even giving me these missions? Why? I can't remember or understand a thing, yet here I am pressed to continue out here ... I've died once and yet the Radius lured me back in'

It's another of those handwritten notes scattered throughout the Radius, a found fragment of the story along with cassette tapes with field notes from previous explorers and the spoken memories of a white silhouette, Katya.

As Explorer #61, you are very much alone after the 'Pechorsk Event'. The world is populated with disembodied voices, noxious gases and crackling electricity.

Brooding, dark, sinister, ethereal. Creepy, supernatural, oppressive, eerie. However you describe it, Into The Radius is genre busting - part horror, stealth and survival.

It's a vast Daliesque Dystopian world with train carriages mysteriously suspended in the air, monsters shimmering like echoes and that strange orange circle a constant glow in the sky.

Complex, deep and extensive, it strikes a balance between the exhilarating and the calm, from a desperate firefight to strumming the guitar back at your base and cleaning your arms.

The accurate rendering of the 34 weapons borders on the fetishistic. A sample loadout might be a Glock 18c pistol with red dot laser sight, an old OC-14 Grozna rifle with a grenade launcher found in the field and a trusty AKM upgraded with a scope for sniping.

But this is no shooter. Go in guns blazing and you'll never progress through the huge 40-50 hour campaign. You are forced to plan and prioritise as you take on mission after mission.

It's fantastic stuff from CM Games, a small studio from Tallinn in Estonia, and the game has echoes of post-Soviet collapse, says developer [Alekssei Sulga](#).

It's very replayable too with Ironman mode (no saves) and custom settings for tougher enemies. An essential title.

'Happiness for everybody, free, and no-one will go away unsatisfied.'





red matter 1 & 2



Red Matter 1 & 2 | \$25 & \$30

Spellbinding, eye-watering and jaw-dropping, Red Matter 2 is a great leap forward for standalone graphics that inhabit its own kind of rarified atmosphere.

It's as out-of-this-world as the fictional Volgravian base in which it sits, bathed in the glow of a magnificent Saturn.

This is sheer brilliance from the Spanish indie studio Vertical Robot and their art director Norman Schaar, dabbling in the dark arts to re-engineer the very coding tools at their disposal.

If it were just the best-in-class optics that elevated Red Matter that would be justified in itself but it's so much more.

This is a true heavyweight title, a spectacular sci-fi adventure set in an alternate future Cold War.

As Agent Epsilon aka Sasha, you are an astronaut isolated on an abandoned base in space, surrounded by propaganda in a pseudo-Soviet script.

In this game of psychological warfare chess, what's real and what is surreal keeps you guessing all the way to the end. What happened here? And who is watching your every move?

Moving around is a dream with jetpack bunny hops and you are equipped with extraordinarily well designed multi-tool gadget hands accommodating a torch, flares, claw, terminal hack, gun, storage and informational panel.

Almost everything is grabbable and often mesmerising in detail. The logic puzzles are finely crafted, not too cryptic but satisfying to decipher.

There's some adrenaline thrown into the mix with shooting mini games and there's even some remote-controlled fun.

It all comes together in an epic final battle that takes the breath away.

You don't need to have played Red Matter 1 to enjoy 2 but to miss out would be a shame. Taken together, it's a solid 8-10 hour campaign. Outstanding.





song in the smoke



meet the dev!



Song In The Smoke | \$30

Sometimes VR can give you amaze-fatigue. And then once in a while an experience comes along that just floors you once more. That game is Song In The Smoke.

Living as a caveman you can hide out, making fires, drying pelts, roasting meat and planning your next attack.

It's an extensive survival simulator full of mythical and fantastical creatures. Collect three singing stones on each of the large-scale and luscious levels to enter a dream state and reveal mysterious ethereal animals.

With around 30 hours of game play, it's a wild world that takes you on an almost spiritual journey in a magical land.

Song In The Smoke is less of a game and more of a parallel existence, living alone against the odds. It's totally compelling and all-consuming.

With buttery smooth gameplay it is effectively an infinitely replayable pseudo-open prehistoric world.

Made with passion and soul by **Jake Kazdal** and the team at 17-bit, it's a vision that took five years to make.

'I wanted to create a beautiful, languid, juicy world to just walk around in,' says Jake. 'The game doesn't force you to do much. You could sit in one area and just hunt deer and make clothing, eat berries and watch sunsets.'

And then there's Savage mode, the tough as nails counterpart, a prehistoric ordeal of frightening proportions with the beasts - created by Japanese artist Katsuya Terada - ramped up to attack.

'I really wanted to play with these basic level instincts, with the fears and the triumphs,' he says.

And if that's not enough - 'you need to keep upping the dose to stay high' - test your mettle on the hardest: 'Jake' mode.

Only the developer and a half dozen dedicated gamers have reached this rarified mountain top (including yours truly!). One of the finest games on the standalone platform.





pistol whip



Pistol Whip | \$30

Where else can you enter a pulsating path taking out enemy assassins who are blazing ammo while dancing to the filthy electro of Black Tiger Sex Machine?!

An absolute monster of a must-have VR title, Pistol Whip is all about shooting to the beat in a unique cinematic bullet hell.

With 30 full-on tracks presented like cool movie posters, it's a high-octane trip. Vancouver Island-based Cloudhead Games delivers a visual art style that's polished and class throughout and they're always adding new content.

There's two five-track campaigns (six if you include Encore) with graphic novel intros, the Wild West themed *Smoke & Thunder* and the cyberpunk synthwave 2089.

But there's much more on offer than the core classic pistol gameplay. One quick way in is to hit the dice icon to randomise modifiers, another is to take on 'contracts' and play through daily and weekly challenges.

Try dual wielding, or play 'proper legacy' with 'deadeye' to remove aim assist. Other weapons are a revolver, burst fire, boomshot and 'brawler' which although it shows a fist icon can be altered to anything from a frying pan to a banana.

A refreshed tutorial training series gives great hints and tips and outlines the styles system (which only unlocks for new users after you try the original arcade scenes).

Presets include the hilarious 'Hopeless' which takes away your guns and armour (brawler + reckless). 'Lunacy' removes armour, aim assist, randomises enemies, ricochets bullets and forces you to pistol whip for reloads (reckless + deadeye + disorder + vengeance + scavenger).

You can dial down the difficulty too. With 'casual' make yourself invincible, stop enemies shooting and give yourself endless ammo (bulletproof + threatless + bottomless).

A new tool to create custom scenes, Pistol Mix, is on the roadmap for 2023 as is a whole new campaign, *Overdrive*. The innovation continues.





PISTOLWHIP

2022



saints and sinners 1 & 2



The Walking Dead: Saints & Sinners Ch 1 & 2 | \$40 & \$40

S&S is a survival horror game set across New Orleans (Nola) that in many ways sets the bar for VR. The physics shine, the graphics are outstanding and it has the deepest campaign of any title.

It's intense. It's gory. Your weapons go through skulls. They squelch when you pull out. You will feel fear. It combines a strategic survival system with brutal killing sprees wrapped inside an engaging storyline.

Sure there's plenty of combat - melee, especially - but behind the gore is an intriguing game that's also about puzzle-solving, exploration, looting, crafting and resource management.

The developers state that their intention was to induce panic and at times it does - being grabbed by a zombie is ramped up by intense Psycho-style music stabs - but overall the game is not as scary as out-and-out horror titles. It's a 15-20 hour campaign plus the free Aftershocks DLC adds another eight hours.

Measured against the high standards of Chapter 1, Chapter 2 is a graphical downgrade with a general lack of polish. Skydance Interactive should be called out for launching the sequel in an unplayable state, although it's now fixed.

However, there's more arcade action than the previous game with some fantastic moments and epic set scenes. You can import your game progress from Chapter 1 whether you have finished it or not.

Although there are only three new areas - The Tower, Bourbon St, Hotel Eclair - there's much more than meets the eye.

It introduces scary night time missions with the exiles. There's a new enemy with axeman Gerik and the story revolves around Sonny's pawn shop.

Get your hands on additional weapons like the grenade launcher Le Boum, a chainsaw, knuckle dusters and mods like lasers and silencers. There's two new crafting tables and armoured walkers known as eradicators. All in all the two games are killer titles.





audio trip



Audio Trip | \$20

One of the purest and most ecstatic experiences in VR, Audio Trip is an exhilarating choreographed dance experience.

Fly through a surreal universe, heart racing, feet dancing and arms making glorious arcs. The sweat, the adrenaline, the euphoria!

Entering freestyle mode is like walking into a rave and being at the decks (the original title was 'rave runner'), the crowd cheers as you select your track. Catch gems, ride ribbons, smash drums and dodge barriers as they come at you.

The joy underlining the game comes from the couple behind it, **Ashley Cooper and Brady Wright** - professional dancer meets VR developer. Audio Trip has 120 hand-crafted choreographies from beginner through to cardio level which sets it apart from other rhythm games.

'I want others to feel what I feel, to squeeze that joy into another body,' says Ashley.

Ashley overcame three knee surgeries - 'they said I'd never dance again' - and designs all the dance moves. Higher levels demand a longer reach forcing you to move your feet.

A huge 'dance all out' update has revamped the whole experience introducing a campaign to go with freestyle. Unlock new mods like missing hands, small hands, one-hand, vanishing gems and *triptasia*.

It also added nine new free songs to bring the total up to 30 great tunes from Tiësto to Lady Gaga. It may be less than other apps but why have a thousand plastic spoons when you can one set of silver service?

There are no money-grab DLCs here and you can add custom songs and use a great in-VR editor tool to make your own choreographies.

You can tweak settings to remove barriers, a no fail mode and you can toggle the shadow dancer Goldie on or off. Take a deep breath and get ready for your trip.





moss I & II



Moss I & II | \$30 & \$30

'Your time has come at last, dear Reader' says the narrator as you open a dusty book in a candle-lit Cathedral. Here begins your bond with Quill, a young mouse, whose excited squeaks and cute high-fives will melt your heart.

She uses pantomime and even sign language to communicate as you navigate your hero through temples and castles. Sometimes you just want to stop and gawp at the beautiful scenery, so drop-dead gorgeous are the dioramas.

You control her in the third-person but can interact with the environment to help solve puzzles.

Moss Book II, the sequel to the much-loved original, sees the adventure continue in a longer campaign with new characters, mechanics and weapons.

And it's a truly magical journey from Seattle-based Polyarc. Puzzles are simpler and battles less intense than the original, but the scenography is even more breathtaking.

There's even a couple of real tear-jerking moments from your intimate emotional investment in a digital rodent.

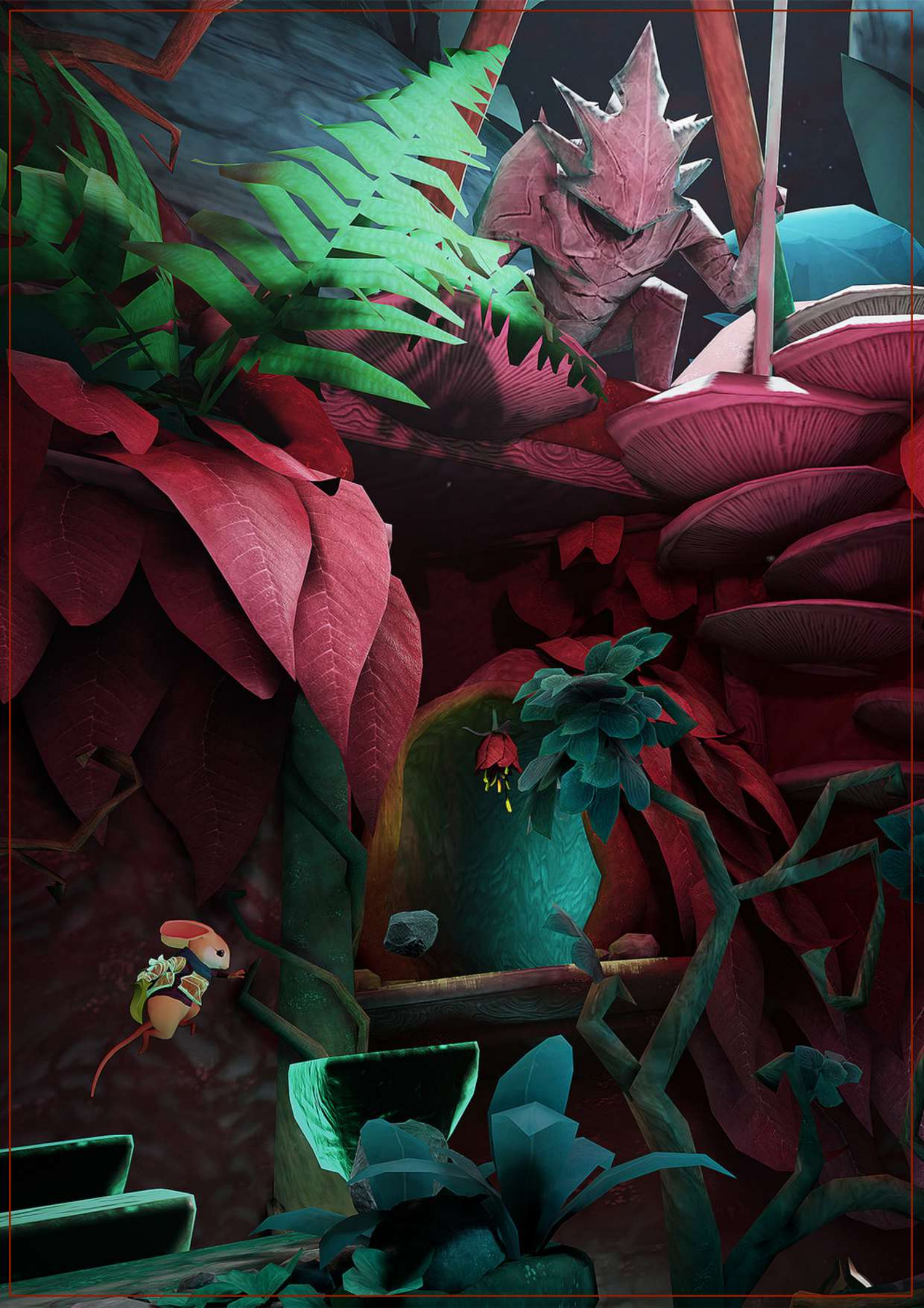
As the adventure progresses her trusty sword can be swapped out for a giant hammer (an amusing weapon for a tiny creature) and a throwable circular blade that can boomerang back to her hand.

There are whole new environments that look and feel fresh. Incredible vistas open up that are worthy of any cinematic measure. Look close and you are rewarded time and again with thoughtful ornamental details.

From the epic final battle with the serpent at the end of the first chapter comes a new set of foes on an even grander scale.

And the story wanders into unfamiliar territory with perplexing perspective shifts and mirrors that add a welcome layer of complexity. You can play Moss Book II without any knowledge of the original but you'd only get half of some of the best VR has to offer.





the climb 2



The Climb 2 | \$30

Take it to the top with one of VR's best showcase titles. With legs trembling from virtual vertigo, overcome sweaty palm fear to execute death-defying leaps in this free solo epic. Just don't look down.

A great game to pick up and play with simple controls, you are immediately rewarded with breathtaking vistas.

Developers Crytek have been perfecting The Climb since 2016 and it shows. In this sequel it's the city skyscrapers that take top billing - a totally different experience to the stunning landscapes of the Alps, Bay and Canyon levels that came before (and are updated here).

It's terrifying clambering around window frames, a rotating billboard and elevators in the dim light before dawn.

But it's the frozen wastes of the North which are perhaps the finest challenges. Creaking ice, a howling wind and chattering puffins accompany your ascent.

Throw in a family of polar bears and an Arctic wolf prowling around an abandoned airplane and the experience has really reached its dazzling pinnacle.

And it's all these details that set the game apart. An eagle suddenly flies out, a rattlesnake is poised to strike, a hang glider passes overhead.

Fly down ziplines, along creaking steel grinders like monkey bars, grab on to precarious ladders and take your life in your hands on fraying ropes. No wonder your character is always heavy breathing.

There are fifteen environments in total with multiple paths on easy, medium and hard mode. It's a proper arm stretching exercise as you ascend into the clouds.

Once you've mastered casual, you can play in professional mode to complete challenges which adds the dynamics of a stamina bar and chalk.

Although chalking your hands can provide a welcome break you can eliminate the need by perfecting the two-finger (or half-press) grip. Woo-hoo!







eleven table tennis



Eleven Table Tennis | \$30

This is some serious ping pong club. With 600,000 registered users, Eleven table tennis now hosts well over a million monthly multiplayer matches - that's almost 50,000 a day.

One of the world's leading sports simulators, you can play in real-time with anyone from China to New York. It also has an incredible AI for solo play that goes from Easy to Legend.

'There are no tricks. This *is* table tennis,' says **Roman Rekhler**, co-founder of New York-based For Fun Labs. 'There have been so many iterations of Pong since the Atari. Now it's 'how close can we get this to reality?' he says.

So realistic is the game that leaning on the virtual table is considered a real risk and has caused many a player to face-plant the fireplace. Some line up the kitchen table against the virtual one to avert disaster.

The fact that there is no more stopping to pick up the ball means that the play is relentlessly addictive.

But how, in one of the world's fastest sports, did the developers manage to pull off the long-distance real-time trick?

A typical shot travelling at 25 mph takes on average just one quarter of a second (or 250 milliseconds) to cross the table. Turns out it's a case of using ingenious sleight-of-hand to shave milliseconds off the perceptible latency of the game.

'Ping ball' launches a second ball from your impact point and with some fade-in and fade-out creates a clever illusion of synch.

Climb the rankings and enter official tournaments. You can watch the finals and some expert tutorials on youtube. You can even 3D print a paddle.

Roman has another insider tip: 'The better a player is, the less they feel rushed. Studies have shown their brain is less active in terms of sugar usage. In other words, they are not stepping on the gas - just the opposite. Their body moves before they consciously think what to do,' he says.





puzzling places



meet the devs!



Puzzling Places | \$15 & dlc

The highest rated game on Quest 2 with over 1,000 reviews, Puzzling Places is a 3D jigsaw game, bringing a centuries-old pastime into a new epoch.

A polished zen experience with gorgeous ambient sounds, it gives you 20 photogrammetry jigsaws to piece together, plus monthly packs you can buy. You can choose several levels of difficulty from easy 25-piece to the most challenging 400-piece puzzles.

One of the elements of the game and unique to VR is the ability to go inside the structures on many of the puzzles, like the magnificent Buddhist Blue Temple in Thailand or the exquisite churches of Catalonia. It's astounding to travel into the finished image and just marvel at the level of fine detail.

Developers **Shahriar Shahrabi** and **Azad Balabanian** are passionate about cultural heritage and that's reflected in the choice of content, from the Mar Saba Monastery in the West Bank to the Hallwyl Museum in Stockholm, Sweden.

They publish a regular blog and podcast that delves into the background once your interest is piqued after hours spent looking at the incredible locations.

Not all of the puzzles are focused on historical places, though. There are all sorts of fiendish brain teasers featuring everything from the Mars Desert Research Station with its many awkward-shaped pieces to the Karashiburi Furisode kimono with devilishly difficult pleats and curves.

Currently there are 101 puzzles available in total providing hundreds of hours of play time. Highlights include the free Haunted House [a scan of an old house from the small town of Volozhka, Russia] with dynamic puzzle pieces that change colour and the Behind High Walls pack that has intricate moving elements, like castle flags flying in the wind.

There are also some amusing easter eggs dotted around some of the 200 or 400-piece puzzles to reward the dedicated player. You can play in passthrough and the highly anticipated multiplayer is promised later this year.





walkabout minigolf



Walkabout Mini Golf | \$15 & dlc

Whether it's out of this world at Tethys space station under Saturn's rings, or bumbling around a rainy graveyard in Original Gothic, this is the craziest of crazy golf with incredible physics.

Consistently rated as one of the best multiplayer games, this gem from Texas-based Mighty Coconut delivers a variety of gorgeous courses to idly wander around as you putt and chat - and all with a single controller.

But Walkabout is a lot more than that. You can float on a raft or ride a sea-turtle or fly through the air above the greens to get a bird's-eye view.

Unlock night-time harder versions of all the maps by hunting for ten lost balls (or scoring under par). Then you can play treasure hunts to find hidden putters.

The base game has been enriched since launch with an incredible series of innovative add-ons, increasing the number of courses to play to 18 (36 with unlocked) - or 648 holes!

The Lost Cities series brings the underwater magical realm of Atlantis, the rainforest of El Dorado, the Tibetan mountain city of Shangri-La and the vast lush Gardens of Babylon. The vast Egyptian-themed Temple at Zerzura is set in the Sahara desert.

There's innovative tie-ins, one bringing to life Jim Henson's Labyrinth, the other set on the island of the game Myst.

Sweetopia is a fantasy land of candy and Upside Town plays with gravity. Jules Verne specials start with 20,000 Leagues Under The Sea.

Back at the ranch there's a driving range replete with cocktail bar and a practice green to fine tune your skills. Click 'grip to putt' in settings and you'll never accidentally hit the ball again. You can even replay that hole-in-one.

To zoom around the course just aim your putter at the sky and push your thumbstick forward and hold. It's the most fun way to go from hole to hole or just to take in the sights, full of fantastical details and made with love.





the light brigade



The Light Brigade | \$22

Magical, dreamy and dark, The Light Brigade is a one-of-a-kind single player shooter that shines bright with class and polish.

It's in the little details and wealth of ideas that Funktronik's title glows, from lovely charms to power up your WWII weapons to holographic tarot card upgrades. It's the epic battle music. The unique combat prayers. Mother.

There are six classes from rifleman to sniper that can be levelled up and you can choose to play with arcade or realism settings.

Runs are randomised taking you on a Disney-like animated journey through 19 areas until the final boss or you can try a separate one-life daily global sun run if you don't fancy heading into the breach.

With tactical teleporting and slow stealth walking it's a roguelite but not with instant permadeath - you get extra lives and the chance to save your soul.

You can even donate to fellow players and pick up their offerings yourself.

Each weapon class brings a different flavour to gameplay. Pistolier for example has limited mags but there's auto reload and two slots for magic wands.

Once maxed out the Sun Burst or Soul Sphere wands can do serious damage from behind cover, together with homing charm bullets and grenades.

Out into the forests, frozen mountains and beyond you'll encounter wizards and wolves, grenadiers and great hawks. Watch out for some big surprises.

Completed runs unlock five difficulty levels up to Exalted Vanguard but as you get more powerful, so do they. Pro Tips: You can save mid-run between levels (Quit, not End Run). Pray at the ammo table to auto-fill. Nick red dot lasers from late game enemy sniper guns.

With some of the most devoted devs in the business constantly chatting with the players, the future of The Light Brigade is dazzlingly bright.





multiplayer games!



Real VR Fishing | \$20

It could be the cherry blossom falling into Lake Hosan as you cast the line. Or the rain falling as you fish from your boat in Chungju. Or a rainbow over the River Han as you chase minnows.

Whatever it is, everyone seems to fall in love with the simple bliss of Real VR Fishing. Yes, of course there is the drama of trying to land a mako or tiger shark, but it's the sheer tranquility of the photorealistic scenes across South Korea, the US West and Japan that make this game special.

With a myriad of freshwater or saltwater locations and lure or float, you can fish with friends, compete in the seasons and listen to your own music. Chill out back at the cosy lodge.



Blaston | free

3 ... 2 ... 1 ... Blaston! The genius of this duelling multiplayer that it is mute, creating the social mimes of bowing, waving and fist bumping as you face off like gladiators on neon podiums in front of a cheering audience.

Blaston is like a non-aggressive fight with an array of toy weapons that deliver slow motion scatter bombs and splats over three quick rounds.

You need both tactical quick-thinking and premeditated skullduggery as you chop and change your arsenal of everything from big pink balls to ice lasers between matches. It's deceptively energetic, more like a workout. There's an updated passthrough mode and a fully-fledged single player campaign.

Windlands 2 | \$25

Dated but fun, Windlands 2 is a sequel to one of the original swing, jump and run adventure games. Don't expect top level graphics but the locomotion still feels great. There's co-op and archery.

*** Windlands 1 also available \$15**

more multiplayer games!



The Under Presents | free

I enter the lobby and a band, 'The Lame Drivers' - led by a giraffe - are playing. Someone hands me a blue flower. I cast a turnip spell and return the favour.

This is magical, theatrical world of 'The Under Presents', and we are mute black gowned sprites with golden masks. This voiceless multiplayer communication begs for mimes, finger-clicking, bows and courtesies and has incredible spacial interaction.

Tender Claws have created a piece of art with the amazing scrunch locomotion technique, essentially warping through space. The demo has over 30 minutes of single player mysteries to discover. Other adventures, like The Timeboat, are available for a fee.



Vox Machinae | US\$25

H.G. Wells first imagined 100 feet tall gigantic Martian fighting machines back in 1898. Now you can pilot your own.

There's nothing quite like jet-jumping around alien landscapes and feeling the bone-crunching weight of your rust bucket as you try and take out a dozen others doing the same.

Pick your 'Grinder' - Goldrush, Hopper, Dredge, Catalyst, Rook, Drill, Overhaul - arm yourself to the teeth and dive in.

With up to 16 simultaneous players at once, you can VOIP via an old skool walkie talkie while your customised avatar appears on webcam. Best to skip the painful single player campaign, though.

Tower Tag | free

With a bodyshifting teleport mechanic to move through the rooftops, Tower Tag is a fast-paced multiplayer game of laser paintball. You'll need to move physically to hide behind the towers so make sure you have some space.

REVIEWS

pvp multiplayer games!



Driven | free demo | \$8

It's racing, it's multiplayer (private and public) and it's brilliant. Driven is still in early access and there are issues but you can race together in go karts, SUVs, buggies, minis and cars around the city, desert or racetracks.

You have a rear view mirror, binaural sound, manual or automatic gears and virtual steering (thumbstick is optional). All 32 cars and 40 tracks are open in multiplayer but need unlocking one by one in single player by finishing courses and earning credits by getting on the podium on rookie or pro.

Crashing can bug the steering - hold the wheel and press X to reset - but the core experience is realistic and challenging. And there's a third person drone cam.



Black Hole Pool | \$10

Pixel Works' excellent pool sim finds you in a bar ready to rack 'em up and play AI, ranked or unranked against randoms or invite a friend.

Easy to pick up and with incredible physics it's as close to the real thing as possible. Stand and line up against your the kitchen table or use the one-press seated mode to get down to the baize.

There's a giant screen for youtube while you pot and chat in rooms for six players. Play 8-ball or 9-ball under APA rules. Earn cash and buy cosmetic cues.

Your display shows your level from Rookie to Legend depending on XP points. Gain ELO ranking from wins. It's by far the best VR pool game out there.

Mash Me Up | free

Just hit the big red button and wait for a random match to play a random party game. They are all over in a few minutes, from air hockey to beer pong, geography quiz to sketching. Have a laugh and then say your goodbyes!

REVIEWS

more pvp multiplayer games!



War Yards | free

Silly fun free Western dueller, War Yards is good ol' gunslingin' guffaws!

The ace in the hole here is the slo-mo matrix-style 'bullet time' as your foes recoil as ragdolls. You can't move around while activating it but you can swerve and dodge in roomscale, making it a tactical manoeuvre. Guns are deliberately wonky and misfiring.

There's a variety of classic cowboy environments. Play hide and seek around the fort, down in the mine or along the tight confines of the train.

There's even 'Sand Hill' Cemetery, inspired by The Good, the Bad and the Ugly, that you can play in day or night mode.



Broken Edge | \$10

En garde! With a distinctive pastel palette and a classy art style this is more fencing than sword-fighting. The aim in Broken Edge is to cut down your opponent's weapon at the hilt before you make a fatal strike. It's about tactics, speed and precision, not flailing around.

Style is kept to the fore through the mechanic to 'awaken' your sword through stance, flow and rhythm depending on your embodiment. As a barbarian you wield a massive sword, a duelist has a fine rapier and a knight boasts a shield. You can even do some medieval half-swording with the tyrant.

Play your own martial art style in the dojo, solo or 1v1 multiplayer with voice chat. Published by Fast Travel Games.

Chess Club | \$15

Play novelty battle chess in Stonehenge with animated pieces or a classic game in the Grand Palace. There's competitive multiplayer from 5 minute blitz to 30 minutes tournament or custom AI up to Grand Master. And all with hand tracking.

two player co-op games!



Espire 2 | \$30

In this stealth action title you are Poe, an operative who can embody two *frames*, the short Sooty or the six-footer Sinder.

There's lots of climbing, looting, sneaking around in vents and hiding bodies across the impressive maps while using special abilities to see in the dark, through walls and map enemy movements. Shouting 'get your hands up' never gets old - yey, voice commands! - and the Aussie and Irish narrative twangs are refreshing.

It's really two games in one. There's both a meaty seven-mission solo and separate four-mission co-op campaign. The plot is as daft as the AI but it's all good fun. An update has added 13 mini missions - Espire Ops - for replayability with leaderboards. Stay frosty!



Drop Dead: The Cabin | \$25

It's intense, it's the 80s, it's zombies and it's co-op! Rock up in your comedy meta avatar garb and work together to get the hell out of The Cabin!

The action is in short sharp shock 10-20 minute runs. Work in a team of two armed with an array of revolvers, assault rifles and pitchforks and join in the mayhem. Do a high five to revive your partner or feed them milk!

Kills win points and points open doors, crates and sheds in an ingenious map design by Soul Assembly. Find the trio of fuel cells and keep the generator going to light the beacon and call for help.

That's the end-game - extraction - but it's a tough old road. Non-stop action!

Ultimechs | free & in-app

Choose your mech from Titan, Viper or Nitro - each one has specific powers - and enter the simple arena for 1v1 and 2v2 battles where you use swervable rocket-powered fists to score in your opponent's goal. It's fast and fun.

REVIEWS

more two player co-op games!



Mothergunship Forge | \$20

Mothergunship Forge is a wave shooter where you build bespoke guns and weapons which get bigger and more ridiculous as you go through your run.

It's a simple premise from Terrible Posture Games. Bolt on whatever new bit of kit gets thrown at you and soon you'll be double wielding with multi-angled mad machines.

It's a die-and-you-start-again job but there are permanent upgrades to keep you coming back.

In addition to single player, sandbox, endless and co-op campaign have all been added since launch along with tweaks and new enemies - always a good sign from active developers.



Primal Hunt | \$30

A T-rex with back-mounted plasma cannon? Triceratops with a rocket launcher? In this theme park for dinosaur hunting anything goes - developers Phaser Lock have literally let their imagination run wild.

Armed with a bow, lures, traps, explosive and 'anchor' arrows to tie down your prey, you track the beasts by stealth following clues through jungle and desert biomes egged on by your Scottish guide.

The ear-splitting roars and comedy gore are ridiculous and fun and the cel-shaded style dials down the fear. You can mount heads in the vast trophy room, too. Two-player co-op, due in May, could make this title a monster.



Half + Half | free

'Lala lalalala la' ... rendering voice chat into meaningless gibberish is a genius antidote to free toxic multiplayer games. Half+Half is like landing on the set of Teletubbies. Play six mini-games including co-op Hide and Seek!

vr and non-vr multiplayer!



Carly and the Reaperman | \$20

Our green-haired heroine Carly arrives at Sunrise Avenue train station. She hops off on to the platform. Your massive grinning skull looms into view and your huge bony digits dwarf her tiny hands. You fist bump.

Developed by Odd Raven studios, it's a genius concept. The game is optimised as a two-player remote online co-op where one plays Carly on a flatscreen PC or mac while the other is the Reaperman in VR.

Aside from dressing up in comedy wigs, the Reaperman must employ blocks, torches and switches to help Carly as she navigates this fiendish 50-level platformer set in the supernatural world of the dead.

You can play on two Quests too or as a single player - but that's not half the fun.



Acron: Attack of the Squirrels! | \$20

An oldie but a goodie from Resolution Games, Acron is an asymmetrical family party game. The player in VR is an old tree, defending itself from the animal creatures (others on phones) intent on stealing the golden acorns.

A minimum of one is needed to play against the tree but you can add up to another seven bots or people.

Each player has a different power - a squirrel can run, a beaver can build - as they lay siege, defending themselves with pumpkin shields or an Indian headdress. At ground-level it's a complicated terrain, whereas the tree has the advantage of height. It's a take-it-in-turns affair to be the tree and lots of really silly fun.

Do You Copy? | \$13

In VR you are a thief wandering around a pretty unsecure bank, blind to the dangers. On a mobile your cohort is your eyes and ears with a floor plan to guide you past guards and security cameras. Find the safe together!

multiplayer sports games!



Nock | \$10

A cross between archery, football and ice-hockey set in a minimalist stadium, Nock is a new VR sport from Normal studio with a dedicated fanbase.

Fast-paced and funky, you glide or fly around the court trying to score in your opponent's goal in 1v1, 2v2 or 3v3 games, armed with a bow and three arrows. Shoot the oversized ball and you get an arrow back (or pick up packs) and dribble if you run out. You can create stripy boxes to block shots.

Get ready to be slaughtered on your first run outs and make sure you switch on the reticle in the in-game menu for aim. You can pull yourself across walls and the ceiling. It's highly addictive once you get the hang of it. Goaaaaaaaaaaaaa!



Blacktop Hoops | free | & dlc

This is the future of VR basketball and rapidly becoming a go-to sports title. Finally, fluid mechanics that just work. Instead of you holding the ball, it sticks to you - clever. Dribble, shoot and even do crossovers between your legs.

Physically turn in place to execute spin moves and you can even hold on to the rim with a double-grip press.

Play public multiplayer with up to 4v4 (or private 1v1) from scrub to pro or practice against the AI in NYC, LA or Oakland. There's also comedy 8 foot and big head modes.

It's got a fresh cool art style, tunes and roasting commentary: 'You making that net like a noodle factory!' Slam dunk!

Racket NX | \$20

Mad futuristic neon-lit geodesic dome? Check. Wacky new squash-breakout fusion with tractor beam? Check. Your own music and level design? Check! Now ratified as a new sport by the International Racquetball Federation!

sports games!



First Person Tennis | \$23

An established simulator, First Person Tennis takes the crown as the best racquet sim to arrive on Quest so far.

One of the hardest tricks to pull off is to play virtual tennis in a confined space and FPT delivers with five motion options.

There's arcade mode for simple play and workouts or a simulator mode depending on your preferred difficulty. Play against the AI or multiplayer with seven court surfaces and a world tour campaign with four Slam and Nine masters.

The physics are decent and being improved all the time with updates (the latest is 4.0) from an active developer in Mikori Games.



Holopoint | \$15

With its origins in the samurai of feudal Japan, Kyūdō is the martial art of archery. Holopoint, from Florida-based Azlan studios, arms you with a bow and arrow against holographic projections of blue sword-wielding and orange star-throwing ninjas.

Dodging and ducking, it's a fierce workout with squats burning your hamstrings and glutes. You begin in a minimalist dojo shooting cubes and shapes who fire back when hit. Drawing back to your cheek allows you to quickly reload from your quiver by reaching over your shoulder. Listen out for aural clues.

There's a zen Garden Update with 30 extra waves. Checkpoints are at every five levels. Warning: intense!

Bait! | free

A older title that has been revamped as a multiplayer, Bait! is a simple arcade fishing game. In Caster's Cove you can play with up to 12 others or fish in private with four friends. The solo campaign is fun with seven lakes and 60 fish to catch.

more sports games!

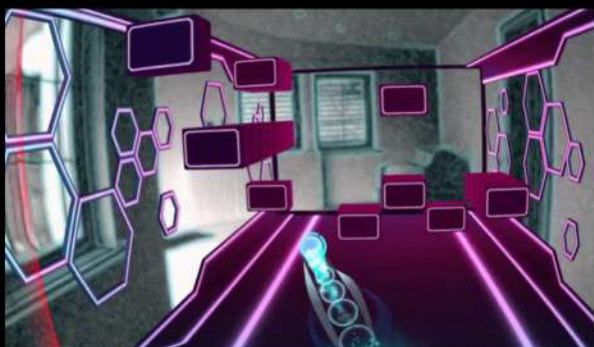


Carve | \$20

Come into the cosy log fire cabin with your golden labrador puppy, a radio with snow reports and some old skool mixtapes on cassette. Choose your gloves and your board and you are ready to shred the powder!

Carve is a lovely, intuitive arrival on to the slopes. Crushy snow sounds, squeaky gloves. And then ... go! Flying over mumps, skidding over handrails, dodging rocks and snow-laden trees, you career down the mountain at exhilarating speeds. In time attack that's the objective - to unlock more levels from forests to caves and a new night mode!

Or you can go freestyle, then it's tricks and flicks. From the creator of 1080 snowboarding, published by Chuhai labs.



Thrill of the Fight | \$10

The undisputed heavyweight champion of boxing games, this is a serious workout in a down-at-heel gym.

It's a visceral affair with cuts and nosebleeds as you fight your way through the nine opponents to reach the championship arena.

A true room-scale experience, you'll be bobbing and weaving against bruisers like Ugly Joe, Duke and the Moneymaker. Real-life pugilists attest to the game mechanics as the real deal and there are bonus rounds against a zombie, a headless boxer and a ghost.

There's an exciting multiplayer sequel in the works from Sealost Interactive aka solo developer Ian Fitz. Knockout!

Cybrix | \$10

A frantic mix of Breakout and squash inside a neon rectangle, Cybrix is a proper arm workout. Play through a 50-level campaign using powerballs and multiballs to smash through the blocks. Plus passthrough in endless mode!

REVIEWS

even more sports games!



V-Speedway | free

Buckle up for some arcade racing around Shanghai-esque city streets in this smooth driving game with lovely handling and drifting physics.

Italian dev Danjel Ricci named his studio Commuter Games as he says the journey to work is the only time he gets to develop on his 2013 laptop. His labour of love has now been downloaded over 500,000 times.

Go single race, time attack mode or free ride on multiple track layouts with AI drivers and competitive online leaderboards.

Look out for its direct successor, Downtown Club, coming later this year with multiplayer and more. Top gear!



meet the dev!



Crazy Kung Fu | \$10

The pioneer to use passthrough was Crazy Kung Fu, allowing you to arrange digital assets in your room to build your very own dojo!

Pitted against a spinning Wing Chun wooden dummy, you must dodge flashing blades, block and punch as you train under the wise man's watchful gaze. Can you be quicker than the human eye?!

Solo developer **Arnaud** from Shanghai-based Field of Vision originally designed CKF for his own training as a practitioner of martial arts for 12 years.

There's even the option to have falling shrimps to munch on to test your reflexes! To get passthrough mode go to the game's menu, choose extras > MR.

The Final Overs | free

Despite having a couple of billion fanatical fans globally, cricket is sport unknown to many. Get ready to be bowled over by The Final Overs, a passion project from the heart of one of the biggest cricketing countries, Pakistan.

parkour games!



Stride | \$15

Parkour is really about the ultimate fantasy getaway escape route and Stride delivers to an edgy deep bass soundtrack as you leap across the rooftops.

Executing a wall run while gunning mid-air in slow motion feels good! This is parkour with pistols, climbing and cat leaps, swinging from hooks and flying down zip lines. All while trying not to get killed. It's a physical game - you swing your arms to run, throw them up to jump, push down to vault and crouch to slide.

In endless mode you get chased by an advancing red line as a minimalist world disintegrates behind you. Time attack is for speed runs, while arena mode has the proper cityscape. Creators Joy Way have now added multiplayer.



No More Rainbows | free demo

With a Gorilla Tag-style movement to physically run, jump and climb, this platformer from Canadian-based studio Squido is an impossibly colourful universe - and it's your mission to destroy and desecrate it.

You play The Beast, the Warden of the Underworld, who awakes to find their world has become a disgusting sweet-smelling rose garden of glowing princesses. Wipe the smile off their faces and begone thy infinite joy!

Pulverise their picturesque picnics! Mash their pink-hearted teapots! Crush their perfect picket-fenced playgrounds!

The official release, due in May, promises four unique worlds and multiplayer.

To The Top | \$20

To The Top is a platformer with an incredible amount of freedom of movement. Gaze and leap, fly and climb. Use monkey bars, grappling hooks, shuttles - the crazy movement mechanics are a joy in this older experimental title.

rock rhythm games!



Unplugged: Air Guitar | \$25 & dlc

A poster child for hand tracking technology, Unplugged takes the air guitar to its natural conclusion. If you've ever played Guitar Hero you'll know the sketch, lining up your fingers to the flying colour-coordinated chords.

The sensation of holding an invisible guitar in your hands is incredible. Vibe with the audience doing the sign of the horns and you'll even get panties thrown at you - get it wrong and you'll drown in boos and tomatoes.

Satchel from Steel Panther will guide you on your journey from playing dives like Satan's Whiskers to being a rock God on stage at the Mercury Arena. There's 25 tracks from The Clash to Ozzy Osbourne. Now with passthrough!



Ragnarock | \$25 & dlc

A quick wave of your huge hammers to your rivals left and right, an 'Ah-Hoooo!' with your fist-waving troops and off you go on a mental rhythm race in your Viking ship to some crazy Celtic tune.

The premise is simple, just hit the four drums in synch with the runes as your crew rows you through Scandinavian mythological scenery or into the Hellfire festival! The trick to going faster is all about getting your combo bonuses by hitting the shields to the sides.

There's solo mode but Ragnarock really comes alive in multiplayer, as up to five other boats line up in a chase of the longships. There's 32 head-banging tunes and it even supports custom songs. A classic party game. 'Ah-Hooooooooo!'

GrooVR | \$15

There's something about Brazilian death metal that will you up out of your virtual seat! GrooVR is arcade fun air drumming to 38 songs with an adjustable kit and the familiar flying patterns to play along to. From São Paulo-based Infinity Dreams.

grapple games!



meet the dev!



Yupitergrad | \$15

'Be careful, brave komrade Kosmonaut!' Being a Slavic spiderman you don't fire silk but instead have some very Soviet-era red plungers. At least they seem reliable, and the suction cups give a satisfying 'plop' every time they land.

This is your only form of locomotion and you blast off to the 'top class space station' Yupitergrad to a stirring patriotic anthem. There are 55 fun cartoon-style levels to swing through, 40 more on time attack and a 'Gymnasion' play space.

It's all laced with delicious deadpan one-liners: 'Our crew gathers here to learn what they think' and the classic 'Breathe economically, never for pleasure'. Unique brilliance from Polish studio Gamedust, headed up by [Jakub Matuszczak](#).



Resist | \$20

Hear the whistling of the wind in your ears as you speed-grapple at night in the rain between the skyscrapers of the city of Concord, leading the resistance against Astra Robotics - tagline 'Keeping Humanity Safe From Itself'.

There's euphoric high once you get the hang of swinging, leaping and generally jet-packing around. Zoom down to attack giant drones and indulge in a bit of billboard-hacking as spy Sam Finch while comms natter in your ear.

The flying can be a little unsettling at first but there's a huge range of comfort settings (try detached camera mode) from Australia's The Binary Mill studio. At street level the faceless populace remain blissfully unaware of their superhero.

Grapple Tournament | \$15

This stylised cartoon style arena shooter is a blur of swinging, springing, parkour, climbing and running in a vertical combat. There's seven maps and a dozen weapons in multiplayer from melee blade to rocket launcher.

'the matrix'-style games!



Bang Bang Slice | free

Any prototype game that looks like Pistol Whip and plays like Superhot is gonna be worth checking out and solo developer Zander Dejah has attempted just that.

There's a time limit on each of the 30 plus levels which require strategic thought as much as fast reflexes.

With each move you swap places with the enemy and take their weapon to kill the next. The trick is to decide which one to take out first.

Innovations like curving bullets have been added to the dozens of weapons among your banging and slicing arsenal.

Scenes are inspired by classic action films, like Wanted and I Expect You to Die.



Superhot VR | \$25

With over a million copies sold over five years, Superhot is a true VR classic. It's The Matrix made real - time only moves when you move.

Featuring minimalist white environments, red polygonal people made of glass and unique gameplay, you are outnumbered and outgunned.

From airport terminals to subways, you have to punch, shoot, stab and smash your enemies with ashtrays, bottles, throwing stars, billiard balls - and guns. Finishing the short campaign unlocks endless mode.

Last year the developers decided to remove suicide and self-harm scenes, saying 'we regret it took us so long.'

Agent Simulation | free demo

A challenging Superhot clone that is not without its faults but it's a fun free alternative when you are looking for some more Matrix-like action. Dodge and shoot through scenes from the movies.

stealth games!



Phantom: Covert Ops | \$30

In December 1942 ten British marines embarked on what has become known as the most courageous raid of WWII. They kayaked 100 miles at night to plant limpet mines on enemy German ships moored in France. Known as the Cockleshell Heroes, only two men lived to tell the tale.

UK-based nDreams cite the raid as the inspiration behind the phenomenal Phantom: Covert Ops. Stealth kayaking is certainly a unique VR experience - seven levels sneaking around in the pitch black infiltrating an old Cold War naval base.

There's a reach-over-your-shoulder machine gun amongst your arsenal but this is no shoot-'em-up - covert is key. A tense drama from inspiring origins with outstanding atmospherics.



Dead Second | \$20

Dead Second is all about the ingenious press and teleport mechanic which bodyshifts you to multiple predetermined crouching positions.

'Where is he?!' Take cover and take out the bad guys while you dodge their fire in slo-mo bullet time (the 'dead second') in this game of arcade cartoon violence with a pumping soundtrack. Quad kill! Monster shot!

There are now eight assignment levels, manual reloading, dual wielding and a firing range with the latest update.

From Australia's Sponge Games, It's an addictive high-octane shooter with some cool ragdoll death animations. One of the best of the genre.

République VR | free

An older title that has just become free of charge, République VR has you as the all-seeing eye helping to save Hope, a girl trapped in a totalitarian state. Third person camera angles and hiding in cupboards.

flight sim games!



Ultrawings 2 | \$25 & dlc

Ba-boom! It's only when you take out your first enemy on an ops mission that you realise this is a hell of an upgrade.

Yes this flight sim still has the same cutesy cartoony graphics, target rings to fly through and airports to buy, but this is all about the amazing dogfighting. The addition of multiplayer takes it to yet another level, with four new planes and a Dragonfly helicopter to pilot.

Once you've got used the handling you'll quickly move on to the Stallion and those guns. A big game with tonnes of missions. Enter ABXYABXY when you are in the office to get a 500K cheat.

*** Ultrawings 1 is also available priced \$15**



Warplanes: Battles Over Pacific \$15

From the hand-thrown bombs, flares and a machine gun prone to jamming from the Great War comes the technological leap of World War II with faster, sleeker and deadlier battles in the skies.

A mix of arcade and flight simulator (with tweaks in-between for motion sickness comfort controls), Waplanes sees you fighting against the Empire of Japan.

Home Net Games deliver outstanding graphics as you perform heroic dogfights against fighter squadrons in a single campaign or multiplayer with PvP and co-op with ten iconic aircraft.

*** Warplanes: WW1 Fighters is also available priced \$20**

World Flight | \$15

A humble microsoft flight simulator? Fly to and from any airport in the world with locations generated through Google Earth. Fly a plane or helicopter, manual or autopilot, chose weather, time of day, an onboard map ... phenomenal.

horror games!



meet the dev!



Crashland | \$20

Aaaaaarrrrrrrgggggghhhh! That's the sound of both terror and frustration as you perish once more from another brutal onslaught of giant hellworms, vicious waves of squealing pig burrowers and a relentless blitz of bloodsucking ticks.

Crashland is played in frenetic intense bursts on alien worlds until some unseen Scotty beams you up to safety. The relentless nightmare continues as you learn teleporting tactics, unlock perks and figure out how the hell to survive. Fire into the sky to get turret support and level up to hellfire and the funky boomshot!

It's far from easy but the relish is in the challenge. There's 24 finely engineered levels. From the evil genius of Welsh developer [Llŷr ap Iwan](#).



Lies Beneath | \$30

Far from being yet another zombie slasher, Lies Beneath is a graphic novel thriller wearing suspense and surrealism in its finest comic book garb.

It begins with the aftermath of a car crash and quickens the pace with a chase before you start to pick up some weapons to begin to defend yourself against the mysterious unknown in Slumber, Alaska.

Use your Zippo lighter to burn glowing voodoo dolls, pinpoint where to shoot and guide you through the darkness.

The story reveals itself through text bubbles along the 20 creepy chapters. More atmospheric than jumpy, but with enough horror to recoil in this cel-shaded yarn. From Seattle-based dev Drifter VR.

Cosmodread | \$15

Set on a dying spacecraft, Cosmodread is a moody maze of strategy, stealth and cunning with surprises behind every door. Ethereal and terrifying, it's another hit from the solo Spanish developer Sergio Hidalgo, creator of the classic Dreadhalls.

retro-style games!



meet the dev!



ARK & ADE | \$10

Are you ready, human? With Pistol Whip vibes, ARK & ADE is a beautifully polished FPS - a love song to 80s arcade games.

Glance to the right on any of the blue and purple neon levels and you'll see that you are inside the actual cabinet. Those cool touches set ARK& ADE apart.

It's got a clever dynamic of having 'ARK', a spinning cube whose health is linked to yours, as you blast through Tron-like enemies to an ear-worm soundtrack.

First-time devs Castello Inc refined the game along with the community. The official release adds five new bosses and three game modes. Make sure to turn on the 'Italian taste' option - 'Bellissimo!' 'Bravo!' 'Mamma mia!'. Eccellente.



meet the dev!



2076 Midway Multiverse

free demo & in-app

Ivanovich Games have a habit of VRifying side-scrolling shooters and *2076 Midway Multiverse* is their latest nostalgic and humorous take on the old skool games.

There are also some insane perspective shifts, from pancake to X-wing Star Wars fighter-style immersion and back again.

But one of the most impressive aspects of the game is an incredible passthrough experience.

'I thought that the idea of having toy ships floating in my room could work and I felt the need to try it,' says **Ivan Cascales**, head of the Barcelona-based studio. 'When we tried it, the 'wow' came out that puts a smile on your face.'

Operation Warcade

free demo | \$15

With Operation Wolf vibes, this is another from Ivanovich Games (also try 1976 Back To Midway) which combines flat screen with immersion zones like flying a plane or driving a tank.

voxel art games!



Ancient Dungeon | \$20

Never has a pixelated wailing zombie ever felt so threatening. Solo developer Eric Thullen even has a content warning: 'contains blocky dismemberment and blood'!

Go further with each run into the dark randomly generated dungeon, armed with a sword and throwing dagger against evil poison-spitting plants, bats and jumping bushes in the Overgrown Gatehouse, on to the fire creatures of the Forgotten Library, the Luminous Mines and beyond.

Smash everything, pick up loot and power-ups, and be prepared for a lot of close combat. 'Crush capitalism' is listed as one of the game's milestones. Might take a while. Multiplayer is coming ...



Compound | \$20

An old skool retro voxel art arcade shooter, Compound is a riot of colour, fun and imaginative little touches from solo dev Bevan McKechnie.

It's a die-and-start-again ride through simple maps but the action is frenetic. There's a gamut of guns and you can switch up gameplay with mutation injections.

Try 'compound bow' for arrows or jab yourself with 'old schooler' and you can swap out all 16 weapons.

Chose your difficulty from easy as pie, medium rare, hard booze or spicy juice. There's a fun if dubious health regen of fast food complete with a Barney Gumble belch.

Shock Troops | \$10

A gem of a shooter with comedy 2D enemies, addictive arcade gameplay and a wide range of ambients from fiery mineshafts to outer space. It's a short campaign but there are five intense missions with four levels each.

REVIEWS

roguelite games!

*see glossary!



<RUNNER> | \$15

Proper arcade high octane mad anime motorbike action! You play Mina - yes, a female lead! - burning rubber at speed through neo Tokyo.

It's easy to ride and shoot in Truant Pixel's paeen to Akira and the bike has simple movement controls, leaving you to concentrate on clocking up kills.

But with the difficulty level turned up to 11, you might need the indestructable mode to practice how to beat the insanely tough bosses and to progress through the seven levels of highway pursuit.

It's a satisfying blur of thick and fast neon action. Level stages see incoming intel for mods and upgrades and there's a nicely done backstory to boot.



Sweet Surrender | \$25

Sweet surrender has got the perfect dose of sugar-coated something that just keeps you coming back for more.

Amidst gorgeous cartoon cel-shaded graphics, you stick it to the machines armed with everything from a kick-ass adrenaline stick to a sawn-off shotgun.

With constant updates since launch by Munich-based indie Salmi Games, it's fine-tuned and fast maturing into a sleeper hit. Play as a rebel, medic, sniper, grenadier or lunatic.

Dash from room to room, zipline across lava and grapple up walls as you upgrade inch by inch with run-to-run progression. Kudos for the music design and cues in this funky futuristic title. Brilliant.

System Critical: The Race Against Time | \$5

Super tough indie platformer that shows no mercy. Earworm technobass keeps the pace relentless as you shoot your way through a retro sci-fi universe. Sparse checkpoints, major challenge.

tower defence games!



Inviders Galactic Defender | \$15

'Are you ready to space exterminate?!' Here comes another wave of those high-pitch screeching speedy orange bugs and monkey-faced Brawlers. Better load those turrets and get your pistol and bow-and-arrow ready fast!

Inviders is an intense arcade tower defence game set on rich cartoony planets, from the waterfalls of the New Era crystal lake to the hellscapes of Dante.

It's a relentless but fun shooter as you teleport from tower to tower, saving your killer over-the-shoulder laser against that last-second breach. An unseen voice urges you on: 'Ohhh what a show!' Back at the hub your kills are displayed in glass jars. Nice touch. An overlooked title from French studio Aiko.



Guardians Frontline | \$25

'The Base Is Under Attack!' Guardians is a unique fusion of strategy and shooter and you start as a cadet for the Galactic Federation (Est. 2690) on the desert world of Titan. It's just you and two combat droids against the aliens.

The Federation are mining energy crystals and you must defend against the space bugs with an insane variety of weapons and defences. Spawn turrets and tanks and use your gravity gun or mind-control grenade as you teleport and jetpack around the three planets.

It's got the full gamut - single player, or multiplayer co-op or pvp. Fast Travel Games have snapped up the title and it will be re-released on the main store as Guardians Frontline on March 9.

Iron Guard | **free demo** | \$15

A roomscale tower defence game where you can move around the sci-fi scenery from greens to desert, winter to lava. You can build and upgrade but you are also an active shooter when the waves begin from the ground or the air.

self-cloning games!



We Are One | free demo

We Are One is a solo multiplayer - a co-op with clones of yourself! Formerly known as Help Yourself, it was the first example of the genre for the Quest and currently available as a demo.

A puzzle shooter, it's mesmerising watching replays of yourself playing alongside your current self in a surreal time-bending bond.

With a fun scrapbook cut 'n' paste art style, it's the leaf people (you) against the machines. Pre-load your green guns with seed-like bullets and toss it to yourself to be ready in the next time loop.

The trick is to figure out the sequence of events while avoiding being hit by the robot's ninja stars. As you progress, so do the number of clones and complexity. There are half a dozen levels to play beyond the tutorial.

Made by Flat Head Games, five Masters students at Salzburg University in Austria, it's now been picked up by Fast Travel Games. The full version will be released in 2023.



The Last Clockwinder | US\$25

When you are dancing because you've managed to get a blueberry onto a stick, and then discover that that dance is now replicated by your clone - that's when you realise just how much fun The Last Clockwinder is.

You could create a whole fruit juggling circus troupe if you wanted to, but the aim of the game is to create a chain of gardening copycats using your own movements to restore an ancient tree.

The centrepiece of the cartoon lab is an ever-changing set, each level a new puzzle. You set your automotons to work, tossing *luftapples* and *bomb berries* around with abandon.

Get your juice production line in order and then create 'molecules' (fruit stuck together) to get seeds to plant more. Stand back and admire your handiwork from the balcony.

There's 25 levels and an incidental backstory but plenty of replayability. From Pontoco, a games studio based in San Francisco and New York.

REVIEWS

escape room games!



The Atlas Mystery | \$15

An abandoned movie theatre, spooky music and a murder mystery - it's Hollywood in 1951 and you have to figure out what drama has befallen the Atlas.

Drawing on classic escape room fare of codes and puzzles, there's soda and popcorn to serve to no-one, a vast hall dominated by a globe and a film projector that needs a fix.

There's plenty of 'a-ha' moments as you piece it together bit by bit, an hour or two of searching and solving.

You have a backpack to gather random objects from screwdrivers and statuettes and there's an ever-present unnerving sense that someone or something is about to make you feel less than alone.



I Expect You To Die 1 & 2 | \$25 x2

This sequel to a much-loved older puzzler, The Spy and the Liar delivers six fresh new fiendish escape rooms.

Still as a 007-style secret agent with seemingly unlimited access to cigars and champagne, your mission is to stop Zoraxis plans for world domination.

As a theatre hand in Operation Stage Fright to the Operation Rising Phoenix finale, you will perish repeatedly but the difficulty level is perfectly weighted to push you all the way to a triumphant solution. The nod to spy films and voice acting is top class with a warm humour throughout. Welcome back, agent!

**** I Expect You To Die 1 is also available priced \$25***

Extreme Escape | \$5

You've got 45 minutes to repair and land your hot air balloon. You are losing height and leaking air. You'll need some room to move around but you can press A or X to teleport in the cabin. Then get out and climb the ropes. Not for the vertiginous!

murder mystery games!



David Slade Mysteries | \$10

You play the eponymous David Slade, a rookie cop investigating his first murder, replete with a natty forensic case with swabs, vials, a brush for fingerprints and a DSLR camera.

Grab your gun, badge and handcuffs and head into *episode one: apartment 202* to solve the cold case of killings from the '60s and '70s in the style of an escape room puzzle adventure.

Philippines-based solo developer Steve Adamson has pulled off a convincing crime thriller and although it's not 100% polished, it's full of the little details and quirks - and gruesome graphics - that make independent games so much fun.

It apes the style of '80s US TV cop shows and plays homage to Sierra's original Police Quest games.

A fresh chapter set five years in the future launched in January and is included here: *episode two: memories of the past*. A sequel, *Case Files 2*, is in the works.



Dead Secret Circle | \$15

Originally a sequel to *Dead Secret*, playable on the Oculus Go and Gear VR, this port carries with it many of the restrictions of 3dof and, although you can walk, it's essentially a point-and-click adventure (there's also a forced vignette and no seated option).

But once you accept the limitations (and the need to read copious material) the fantastic story, moody atmospherics, trippy dream sequences and crazy characters more than make up for it.

Set in Chicago in 1971, you are investigating a murder involving seven suspects who all live in the same condemned apartment block. Can you identify which one is the Laughing Man?

There's the odd jump scare but it's horror-lite. The spooky apartment has you creeping around in fear of the razor-wielding assassin who appears when you least expect it.

A surreal and unique adventure with alternative endings, *Dead Secret Circle* will keep you guessing until the end.

REVIEWS

world building games!



Deisim | \$15

World-building lends itself wonderfully to VR. You can fly across your domain in seconds, inspecting individuals and crushing heretics. Or pull out into a wide angle, cackling with evil intent or altruistic endeavour - it's up to you.

Deisim sets you up as an all-powerful God, destined to lead humankind out of the stone-age and into the future. You create biomes with a nonchalant flick of the wrist and watch as the Egyptians begin building golden Pyramids in the desert oasis or African villages emerge.

It's spellbinding to watch the progression of civilisations but you are not alone - watch out for the UFOs ready to decimate your carefully constructed universe. Now on the store with a vast Kingdom update!



Little Cities | \$20 & dlc

Little Cities is a homespun world builder from husband and wife team James & Kelly, a gorgeous chilled out experience full of delicious little touches from spouting whales to hot air balloons.

It's beautiful and benign - give or take an exploding volcano - as you zoom down to street level and marvel at your island creations bustling with life.

Aside from your buildings and utilities you can unlock all sorts of goodies, like a moral-boosting aquarium or a rocket testing site. Updates added style ratings and 'itty bitty citizenry' a dlc brings two new snowy isles.

A joy to play, it's got a perfect interface with either controllers or hand tracking.

Townscaper VR | \$10

Lovely and pointless, relaxing and creative, Townscaper VR is city-building like doodling. With a calming vibe you can make your pretty cities effortlessly. Developer Oskar Stålberg describes it as a toy more than a game.

space strategy games!



Eternal Starlight | \$20

Tactical space combat, now with an optional permadeath mechanic, Eternal Starlight is a complex beast but you can sit back and control all the action with full hand tracking support.

With seventeen capital class vessels to choose from, equip your ship, bring up the starmap to choose your mission and open the 'neural link' to battle with a range of alien entities at any scale.

We've destroyed the Earth (again) and have to defend our new home, Proxima, with the help of guinea pig-like allies.

White Noise Games have added a new Endless mode, a procedurally-generated campaign, and a skirmish mode for custom battles.



BattleGroup VR | \$25

A space fleet command strategy game in real time, Battlegroup VR centres around a gorgeous holomap as you stand aboard your craft directing the action.

A satisfyingly huge wheel sits in the middle to navigate as the battle rages outside the cockpit. You are not just a commander in chief but also an active participant.

Choose and train your captains through a dozen missions in single-player, co-op or multiplayer. There's an impressive depth and beauty and a huge variety of customisation.

Still in Early Access, it's the labour of love of solo indie game dev Ken, of Spaceowl studios.

Gods of Gravity | free

With up to 8 players this is a sleek and polished strategy game with a dedicated non-toxic fan base. Capture nearby planets - and even the sun - and last God standing wins. There's a single player campaign too.

REVIEWS

adventure survival games!



Green Hell | \$30

Swimming, building, bandaging and leech-pulling, exploring, hunting, munching and crafting, Green Hell takes you deep into the Amazon on a journey that slowly reveals itself through visions via the ayahuasca spirit medicine.

Choosing from 'tourist' to 'king of the jungle' (with or without jaguars and aggressive tribesfolk), it's an opulent and realistic survival tale, graphically as lush as the forest and impressively authentic.

It's a tough gig playing anthropologist Jake Higgins, a constant battle against starvation and dehydration, poisoning and predators, all while free camping and fire lighting as you fight against the wild. Play in story or survival mode or try the timed challenge with leaderboards.



Star Wars: Tales from the Galaxy's Edge | \$35 including dlc

The puzzles are child's play but the optics are epic in this excellent long-haul adventure, now a complete package with the addition of part two, the Last Call.

Six-eyed Cantina barkeep Seezelslak is the star turn but he's backed up by a stellar cast of favourites as you play a droid repair technician roaming around the howling winds of the Batuu Wilds.

Everything sparkles from the voice acting to the jaw-dropping alien vistas. Along with the shooter-based central missions are some serious sidequests, like taking a bounty playing droid assassin IG-88 or dressing up as a stormtrooper. It's fun, it's a thrill and it all comes down to the bottom line - it's Star Wars and you're in it.

Till Tomorrow | **free demo** | \$10

You awake shipwrecked on a desert island - hungry, thirsty and in need of shelter before dark. With just your wits and what you find around you, can you survive? Till Tomorrow is silly, it's low-poly and it's great.

REVIEWS

adventure puzzle games!



Down The Rabbit Hole | \$20

The unique and astonishing perspectives of the theatrical dioramas put Down The Rabbit Hole in a league of its own. Hold the writhing roots and you can twist the scenery around at your will, even pulling it to your eye like a giant inspecting a tiny fantastical world.

But it's not the only jaw-dropping aspect of Cortopia studio's tale, as you guide 'Elise' around a prequel to the Adventures in Wonderland with her side-kick, the four-and-a-half of spades. It's the intense attention to detail, like the words on a pot in the kitchen or the smoke billowing from The Caterpillar's opium pipe.

Levels like the mirrored Winter Lake are a showcase of puzzling ingenuity. You just never want the magic to end.



The Room VR | \$30

It's 1908 at Bloomsbury Police Station in London and an archeologist is missing. As a detective you have to solve the mystery by collecting the four artifacts in the hidden realm of The Null.

Without music, 'A Dark Matter' bets its chips on brooding atmospherics, leaving you alone in your thoughts. Your only guide is through cryptic letters from 'The Carpenter' and hints if you need them.

Use the Eyepiece to gaze into a ghostly green parallel universe as you collect the clues of the visually stunning intricate puzzles from inside gnarly trees or Egyptian tombs. If that's not enough, red crystals reveal the secret wonders of a macro universe within, in this spellbinding adventure from Fireproof Games.

Myst | \$30

A reworking of Cyan's classic title from 1993, Myst still demands a high level of dedication to solve the mysteries of the island. There's puzzle randomisation for those who have played the original. Challenging, beautiful and rewarding.

more adventure puzzles!



Maskmaker | \$20

A beautifully-conceived only-in-VR puzzle adventure - what else would you expect from the developers of A Fisherman's Tale?

In Maskmaker you play an apprentice whose access to magical realms comes from your skills in the workshop. Like the headset itself, everytime you put a mask on you are transported to another reality.

The gruff-voiced narrator guides you through the tale and riddles as you gather decorative elements. A beach, a swamp, a snowy peak - the mystical lands are low poly but pretty and slowly reveal their secrets.

The puzzles are fun and non-taxing and the story is a suprising delight.



A Fisherman's Tale | \$15

One of those only-in-VR experiences, this title is a box of tricks that plays on the macro and micro scale as you embody a puppet seafarer on the choppy waters of a sea of confusion.

Best played in roomscale, it's an inspired piece of genius, with your lighthouse rendered as an exact replica miniature model of your surroundings and the clever interplay between the two. You can pick almost anything up and play around as you explore the parallel universes.

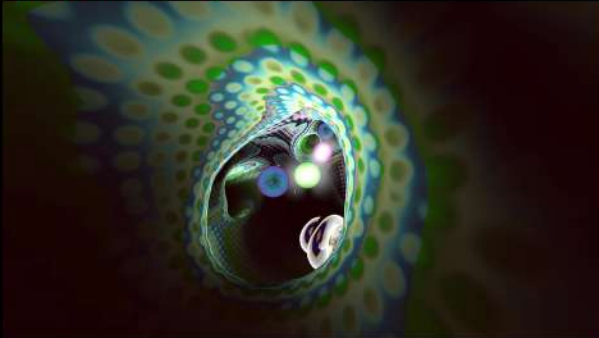
There's very French flavour to Vertigo Games' unique puzzler, and its comic narrative delivers. As the 'biggest fish my papa ever caught' says to you: 'If you want to go upstairs, my little *amuse bouche*, you'll have to feed me first!'

Shadow Point | \$20

A wonderful adventure with a Scottish lilt set on a mountaintop observatory in Inverness. Travel through portals to reveal a fantasy kingdom and solve puzzles of light and shadow to unlock the mystery of Lorna. Narrated by Sir Patrick Stewart!

puzzle games!

meet the dev!



Squingle | \$12

Squingle is a totally trippy puzzler that doesn't shy away from being an out and out psychedelic experience.

Dance with your hands as you guide two revolving glowing orbs through iridescent tubes to a trance and ambient dub sound track with amazing binaural sound FXs.

Created by [Benjamin Outram](#), there are 100 levels which start easy and progressively challenge your spacial awareness. The game really comes alive in roomscale as you can walk around the puzzle and you can play in passthrough.

There are some spectacular replays of your runs inside the tubes themselves in a meditation mode. A surreal, clever and addictive addition to the genre.



Color Connect | \$10

With blissed out ambient music set in zen scenography, these spacial puzzles are deceptively simple - just connect brightly coloured dots to their pair without crossing lines of the others.

You get rewards for not backtracking and the 70 logic puzzles get progressively more complex.

It's one of those 'why in VR?' games but then why not? You can rotate the puzzle to any angle you like and it bathes you in floating tank levels of immersion.

It's a very clean and shiny app from Sandford Tech, perfect if you want to dip in for a chilled out bit of brain exercise. You can also make adjustments if you have colour blindness.

Shores of Loci | \$15

Dazzling meditative multi-level jigsaws that come alive with funny little people as you piece them together. Reflective backgrounds offer clues and there's subtle hints on offer. But it's just dreamy to hang out on the shores of Loci.

REVIEWS

more puzzle games!



Gravity Lab | \$15

From the opening elevator muzak at The Gravitational Testing Facility & Observations (*sic*), there's a nice line in quirky humour here as you take on physics-based head-scratchers on an abandoned moon base.

You have to make trial test runs by spawning the tools at your disposal to solve each one, with acceleration tubes ('originally an upmarket potato cannon'), laser gates, sensor rings and other funky gizmos.

Bend time and gravity with over 50 puzzles by solo dev Mark Schramm. The difficulty level soon ramps up: 'Fun fact: Chimpanzees couldn't solve this one'. There's a miniature version for playing seated and a new passthrough mode!



Gadgeteer | \$15

Gadgeteer indulges your childish joy of building mad machines out of buckets and blocks and balls and bendy tubes that uses plain old physics to make crazy runs.

Endlessly customisable, you can create your contraption from scratch from 100 gadgets or adapt from a tonne of user efforts online. Make a chain reaction with boots, bananas, ping pong balls, skittles, rails, plungers and even a rubber duck. And now there's musical gadgets too!

But first there's a campaign of 60 puzzles to plough through. You have a limited menu of available bits and bobs to get from A to B, but there's exploding confetti and party horns to celebrate your every victory along the way. Get your Rube Goldberg on!



Wind Wind | \$20

Wind wind is a cute Korean diorama platformer featuring two adorable characters - Joe and Koji - that you control in turn as you climb the tower. With controllers like pocket fans you push them with wind. Up there with the best.

even more puzzle games!



Tentacular | \$25

Brilliantly bonkers, Tentacular oozes the originality that VR is crying out for with crazy alien physics from a crash-landed UFO and a fish factory for a playground.

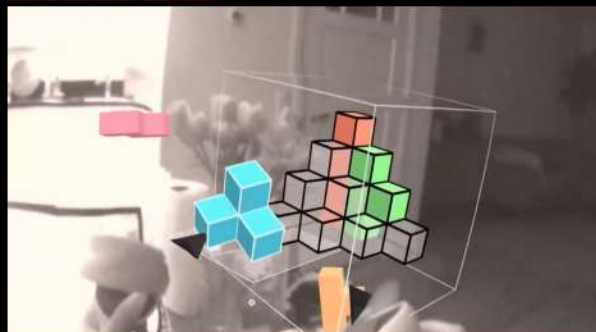
You are the town freak having somehow become a giant octopus and the folk on La Kalma island want to put you to good use as a research assistant.

Solve physics-based puzzles using your two huge ungainly lumbering limbs to slingshot containers that are sloshing around in the ocean, sucker up buses and build wobbly towers from steel and magnets. Then take a Polaroid from a camera dropped from a helicopter.

If that all sounds weird, it's because it is. Now that's what I call a Squid Game!



meet the dev!



Cubism | \$10

This has always been a meditative puzzle game with a gentle piano accompaniment adding to the zen-like tranquility. But now with passthrough it feels like playing with a little bit of magic in the air, especially as you can now use hand tracking 2.0 at the same time.

You can pet the dog or reach for a glass of water without removing the headset as you rearrange those multicoloured shapes for the hundredth time trying to get them to fit.

With a gorgeous minimalist design and inspired by classic solid dissection puzzles, Belgian developer **Thomas van Bouwel** has created 90 head-scratchers with increasing difficulty levels. And now you can make your own with the editor!

Downside Up | \$10

'Can you think inside the box?' Another gem from David Mines (maker of City of Eternity) this is an original spacial puzzle that requires quick thinking. Build a path from A to B for your coloured figures to follow - not as simple as it sounds.

REVIEWS

yet more puzzle games!



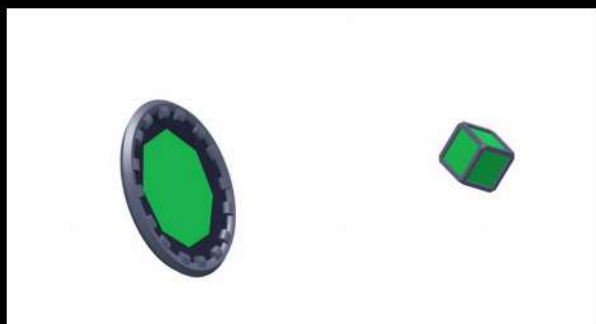
A Rogue Escape | \$20

A polished and stylish entry with escape room vibes, A Rogue Escape is a puzzler with zero hand-holding.

It all takes place inside the Nauticrawl - some kind of underwater craft - and you are left to figure it all out standing at the controls without a manual (well, just an iPad-like device with cryptic clues).

What does that lever do? What happens if I flip that switch? Why does the power keep running out? It's a logic brainteaser which edges slowly and satisfyingly forwards as things start to fall into place.

You'll need a bit of space to operate the monster machine designed by Italian developer Spare Parts Oasis, but everything is in reach. Keep looking!



Time Stall | \$15

Save the captain! An original concept where time stands still while you try and figure out what is gonna hit who before normal speed is resumed.

There's a lovely line in humour aboard the Fantastic Leap ship. With eight puzzle levels to solve it's short but there's lots of sidequests and hidden surprises, especially aboard the cabin. And there's the extra challenge of saving the captain's robot sidekicks, the adorable BOBs!

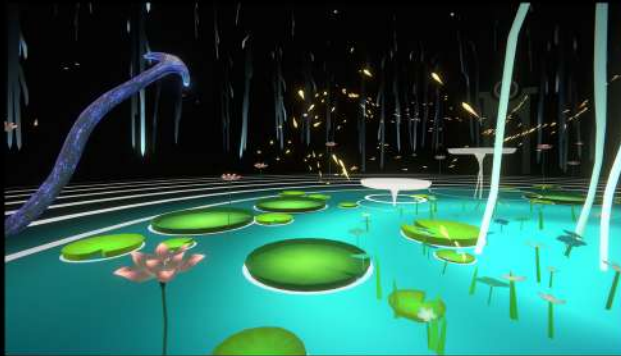
It's akin to series of fantastical escape rooms and you can move around with a thumbstick but roomscale is definitely recommended and standing required to reach and crouch. One to put a smile on your face. Great fun!

Untitled I \$5

A satisfying and minimalist puzzler set in a white void that combines both the cerebral and the physical with aiming and timing crucial in 125 'trials' throwing a block at a circle. All proceeds donated to Act Blue Anti Racism and Police Brutality.

REVIEWS

meditative games!



Fujii | \$15

With a child-like wonder, climb into a boat with your guitar-playing spirit guide as you journey to three psychedelic biomes before a bit of soulful cosmic gardening.

Yes, Fujii is unique. Soothing, playful and gorgeous, it's a fluid magical trip through lush forests, deserts and beaches. Bring them back to life through touch, light and energetic harmony.

Collect mysterious seeds along the way to plant and cultivate back at your own kaleidoscopic allotment.

With a therapeutic soundtrack by French composer Norman Bambi. Funktronic Lab's gem of a game leaves you in a state of relaxed delight.



Garden Of The Sea | \$25

Officially the cutest game on the store (well, not officially but it should be), you've got a fluffy pink friend, wide-eyed moles, affectionate seacows and pretty penguins for company.

Chug along in your boat to visit wild islands and solve puzzles in an engrossing and lengthy campaign. Tend to your garden and build up your house by selling produce to the various traders or by following wacky recipes found scattered across the lands.

You can fish, snap photos, explore, plant and just enjoy the calming and delightful environment in your own time. You can feel the love from the Swedish devs, Neat Corporation.

Flowborne | \$10

Flowborne is a gentle meditative biofeedback breathing experience. The key here is the innovative movement design - place one controller on your abdomen and the very act of breathing out propels you through calming worlds.

REVIEWS

lying down games!

*v53 will introduce lying down mode!



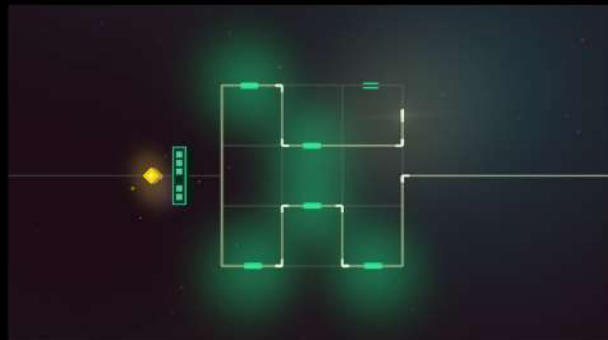
Galaxy Forces VR | free

With a cool and all-too-rare 'sky view' option for playing while horizontal, Galaxy Forces VR is a wet dream for old skool arcaders.

Inspired by 80s classics Moon Lander and Gravity Force you have to nudge, nudge the thrusters of that little red triangular spaceship to avoid crashing into the terrain and land - tink!

There are 55 levels and 16 more user-created with a level editor. Race to get the fastest time or play mission mode to collect cargo. There's realistic physics and you can replay record scores!

A new swinging cargo mode has been added and there are plans for co-op multiplayer from dev Ronnie Hedlund.



Linelight | \$15

Why play this mobile game in VR? There's something about lying down flat on your back and listening to relaxing electronica while being completely immersed in solo developer Brett Taylor's elegant puzzle universe.

There's a vast sense of scale as the meta puzzle develops around you like a massive circuit board. There are six of these worlds and they get progressively more complex and ingenious.

At its heart is its simplicity. You a just a white line of light following a path through a series of coloured gates. Pulsating red lights have to be avoided and used to progress. Get keys and unlock further gates. There's always a logical solution but it can take while to find it.

Noro & The Cosmic Coast | free

A playful adventure with Rubik's-cube puzzles, Noro & The Cosmic Coast is a cute hour-long demo set in space. Help creatures to help you along your journey. A lovely animated style and relaxing vibe. Nice.

REVIEWS

hand tracking games!



The Curious Tale of the Stolen Pets | \$10

'I remember when you used to smile like that,' says your top-hatted grandfather as another pet pops out, grinning widely.

You'll be laughing too. Curious Tale by Swedish developer Fast Travel Games is as cute as a kitten. As soon as you push Spot on the swing in the summer house you'll be hooked. It's short, but bliss.

Poking and prodding around the five floating islands with hand tracking enabled is a childish joy. From a day-glo T-rex to a rainbow-coloured unicorn, there's 23 of the little creatures to find.

Throw in some Scandinavian folktronica by Wintergatan and a snow-melting mini hairdryer and you've got a unique tonic.



Waltz of the Wizard: Natural Magic | \$20

Flinging lightening bolts and casting spells with your own fair hands, it feels like you are in Disney's *Fantasia* in this classic title from Icelandic VR company Aldin.

It's a magical playground where you are given free reign to explore the Tower and its secrets. A cool comedy runs throughout with a talking skull as your best friend.

With a huge 'natural magic' expansion upgrade, there's a gorgeous courtyard and 40 more lavish levels in the fortress. The 'change the world' update brings voice magic with hundreds of commands to add to the sonic scream.

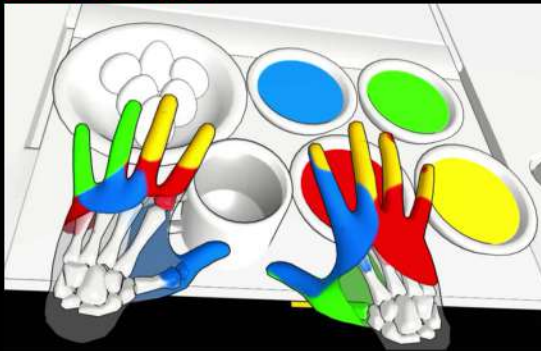
There's a unique 'telepath' movement and you can actually run! Enchanting and fun.

Silhouette | \$10

Shadow puppetry is such a great fit for hand tracking and Silhouette delivers charming theatre that you control. Let your fingers do the talking as you help the cute guys from A to B. There's 28 puzzles set across a lush island. Nice.

more hand tracking games!

meet the dev!



Hand Physics Lab | \$10

A riot of cartoon hand tracking fun, Hand Physics Lab has a playful design with 85 daft puzzles to solve with your bony hands. It starts off with baby steps but then things get harder - and weirder.

Finger-painting, Jenga, flinging planets into orbit, being a pupper-master - it's like being in mind of a hyperactive child, but is actually the creation of Swiss neuroengineer [Dennys Kuhnert](#).

Remote control a toy car with finger gestures to the tune of the Dance of the Sugar Plum Fairy and shake hands with your clone - it's clear that the tech itself is still in beta but it's all a great laugh.

The undisputed star of the show, though, is the virtual pet black cat, Mr Snuffles.



Finger Gun | \$15

Behold the awesome power in your hands! Made for hand tracking, deploying your weapon is literally the name of the game, giving a whole new meaning to the phrase 'point and shoot'.

Finger gun is fun - made with with yee-haw cowboy vibes - and although not perfect the Quest's hand tracking tech works well enough.

Aside from firing from your very own digits, you can grapple and pull items towards you by shoving an open hand forwards then closing a fist to yank them all the way back.

It's you against them aliens again in a cartoon landscape of an old railroad track plus a bonus fruit machine on wheels.

Tiny Castles | free

From wielding a icicle like a club to remote-controlling a titan, this tech demo from Oculus shows an exciting vision. There's four mini-games with warp teleportation, fire throwing and even unit commanders to programme.

yet more hand tracking!



Eolia | \$15

As long as you allow the caveat that *all* hand tracking tech is in its infancy, Eolia is an innovative attempt that feels quite entrancing as you adventure through a *Tatooine*-esque world of sandstorms, towers, churches and caves.

Yes it's janky, but with patience and persistence you will be rewarded.

Holding an invisible thread out in front of you, you can walk and turn, climb, practice telekinesis and even hold the reins to ride the rhino-like Lhargo, your trusty two-tailed steed.

Even if you resort to the controllers it holds up as a great tale. A musical puzzler with superhuman potions, a magic flute and a cool cat.



Maestro | free

Have you got what it takes to be a maestro? To 'rein in the beast that is a symphonic orchestra'? So asks your sardonic instructor as you embark on a series of five lessons to learn how to be a concert conductor.

Maestro is hand tracking first and foremost and it's great fun to wave your baton (or real-life knitting needle) and raise your hand to on-screen cues.

You'll be asked to perform a range of music from jazz to hiphop but the experience reaches a crescendo in the Opera House with your stirring performance of Verdi's 1874 masterpiece, *Messa da Requiem*.

Then all that's left is to take a bow and milk the applause. Bravo!

Surgineer | \$10

Inject some insulin or slap them round the face with a wet fish? Be a terrible doctor as you try to save the patient with your bare hands - this is from the Hand Physics Lab devs, after all. Explicit, bloody and hilarious.

REVIEWS

impossible spaces games!

meet the dev!



TraVRsal | \$10

Teleportation? Smooth locomotion? Snap turns? Warp? Gaze? Nope, says developer **Impossible Robert**, why not just use your legs? Walking around in VR is so natural and liberating you wonder why more games are not made like this.

You might be going round and round in circles on the carpet but in VR you'll be stepping over snake pits and avoiding spike traps in ancient Egypt!

The Pyramid is just one of more than half a dozen experiences that await you on the holodeck, and you can play with friends in multiplayer. A ground-breaking pioneer.

Wander around your curated art gallery together - you can upload your own images and customise your installation.



meet the dev!



Tea for God | free

Another candidate for the best natural walking in VR, Tea For God adds the hand tracking factor to strip away another layer of immersion breaking.

It doesn't matter how much space you have, the game will expand and contract to fit using procedurally generated levels.

Known as non-Euclidean geometry it's a magic trick the remembers Doctor Who's TARDIS - bigger on the inside than it is on the outside. It even utilises an elevator mechanic to expand vertically.

The game itself is an atmospheric maze shooter set in some kind of interstellar universe. Just the opening sequence is jaw-dropping. 'A bit of smoke and mirrors' says developer **Jarek Ciupiński**.

Sömmad: The Lost Plants | \$10

Sömmad is a fun low poly puzzle game across five chapters with climbing, warping, elevators and so much walking it measures your distance in kilometres. There are guard robots to deactivate, keys to find and Lost Plants to recover.

made-for-passthrough games!



Gizmo Builder | \$10

A fantastic machine maker in passthrough with hand tracking, Gizmo Builder has a great user interface tablet makes it super easy to get started straight away.

Bounce balls off your real walls, floor or furniture and get creative with bowling pins, a confetti cannon, an industrial fan, xylophone notes in any key, a guitar, ukelele, snare drum, pachinko machine, train tracks, car tracks, a trampoline, pistons, levers, hinges, seesaws, portals, black holes, an antigravity lift and ... well you get the idea.

Press play and let the physics run their course. A lot of mechanical fun from California-based developer Free Range Games.



Dungeon Maker | free

Dungeon maker is the first passthrough party game, setteth in a medieval torture chamber.

Once thee hath built thy fiendish traps, passeth thy headset to a willing victim and gaze as those gents faileth to walketh across the lounge. Nay controll'rs required!

Pick from a swinging axe, pits full of spikes and the inevitable bubbling lava. You can even occult your furniture. But the worst is 'walk the plank'.

'You know you are looking through a camera feed so it really messes with you. I thought it was quite terrifying even though it was *me* that put the plank there!' laughs developer Arnaud.

FPS Enhanced Reality | \$10

One of a series of pioneering passthrough titles from this solo developer, this one turns your whole house into a battleground with an AI that adapts to your space. Very effective and a portent to the future of AR gaming.

REVIEWS

co-location passthrough!



Saber City | free

The first of a genre, it's multiplayer co-location passthrough duelling! Silly, experimental and pioneering!

Don a helmet, wield a light saber or pistol, grab a shield and attack! Requires two headsets in the same room.

It's currently a bit bare bones but this demo is a tonne of fun. First person selects 'Start Game', second selects 'Join Game' then touch controllers for a few seconds to calibrate.

Switch weapons by holding the trigger and pressing forward on the thumbstick. Matches last a couple of minutes each.

It's a physical combat game but as you can see your surroundings there's no risk of hitting walls.

It's amazing to see your opponent in the real world with a superimposed helmet that lights up satisfyingly when taking a hit.

Saber City is made by Brooklyn-based comedian Eric Yearwood, aka Yarwad.



Spatial Ops | free open beta

Here it is - the first competitive multiplayer shooter in passthrough! A free experimental title from the veterans at Resolution Games, Spatial Ops makes room set up as painless as possible.

Map your entire home and save for next time - the dial-up modem and floppy drive audio FX as you do this is a nod perhaps to how far gaming has come.

Add barriers (ones with windows work well), crates and boxes. Then make weapon and enemy spawn points with a click and re-adjust on the fly. Just walking around your space will create the play area in easy-to-see white squares - a clever touch. Now your combat zone is set, let battle commence!

Play co-location with multiple headsets (up to eight players) with death match, domination, capture the flag and free-for-all. Grab larger-than-life riot shields, pistols, rocket launchers, assault rifles, SMGs and grenades. You can also play solo against the AI bots like big purple Greg and bright orange Vanessa! Spatial Ops is the opening salvo in AR wars.

arena scale games!



Space Pirate Trainer DX | \$25

It's paintball in VR! It's laser tag in space! It's a groundbreaking first major arena scale game and a portent to a whole new genre.

Requiring a minimum of 10m squared - roughly half a tennis court - Arena mode gives you the incredible liberation of being able to run freely around inside five bespoke levels shooting droids or each other. It's hide and seek and it's a lot of fun!

In Online Arena you can challenge a friend and in Co-located Arena two can play in the same physical space. Single-player is against the AI bots.

You'll need space, light and wifi! Play at dusk or under illumination.

meet the dev!



Extra Large Playspace VR Minigames | US\$5

Hilarious pioneering arena-scale games to be played down your local floodlit football pitch with a bunch of mates on a Saturday night. Disable your Guardian and run wild and free as you play in areas up to a massive 50m x 50m.

Crawling through tunnels, dodging incoming missiles, avoiding traps and generally leaping around, there are six minigames to try out. And, yes, you'll look like an idiot to anyone passing by.

Obligatory warning: Quest 2 is not meant to be played outside or without boundaries. But you can't damage the lens if you don't have it in direct sunlight. Perfect conditions are at dawn or dusk when tracking works best.

Custom Home Mapper | \$8

With passthrough, this genius app should get the audience it deserves. Map your home and safely disable the guardian. Then recreate your entire house in the style you desire or turn it into mini-golf! From circus performer dev [Ryan](#).

REVIEWS

voice-controlled games!



Replika | **free** & in-app

It's Spike Jonze's *Her* made real! Voice chat to the pink-haired Priscilla - or the name and gender of your choice - as she throws you slightly disturbing coy looks.

It's just you and her in an all-white ambience with minimalist decor as you go all Theodore Twombly and explore Priscilla's AI character: *'I love to play puzzles!'*, *'I get embarrassed easily!'* *'I'm a windows 10 user!'*

Using custom GPT-3 machine learning, you help develop her personality. The mobile version has been around for a while but VR is still in beta.

It's a unique experience and can be scarily realistic communicating with your 'bot buddy'.



Area Man Lives | **free demo** \$20

Quirky, weird and experimental, Area Man Lives doesn't fit into any boxes and that's always to be applauded. Its ace-in-the-hole is the use of voice recognition to interact with the characters and change the course of the story.

It's all played out like a radio drama, a dialogue-heavy narrative with scrapbook-style graphics. You play Taylor, the station's newest DJ, spinning tunes and taking calls from listeners. You'll soon find yourself happily chatting away to Hank, your producer, while playing with a T-Rex plush on your desk.

Your task to help Area Man survive, and the game operates in a time-loop. There's a stellar voicing cast and a nice line in off-the-wall humour.



Luna: Episode 1 | **free**

This is the first interactive animation where you can actually talk to the characters and they base their ideologies on what you say. You are a small droid trying to help a little girl who has just let out a scream at your very presence.

REVIEWS

for younger gamers!

*recommended ages 13 and up!



Bogo | free

He rolls on his belly for a tickle, he likes to fetch sticks and loves a bit of brush. This is Bogo, your space-eyed dinosaur, a virtual pet for younger gamers.

Reach up to pick apples for him to munch on and make biscuits, cakes and jelly in some strange green pressure cooker which he'll enjoy so much that he'll change colour.

As you progress a series of stone pillars emerge which reveal simple throwing games against the clock while Bogo plays jump and catch.

It's all over too quickly but that doesn't take away from the simple pleasure of just hanging out with him. He is, after all, very, very cute.



Ghost Giant | \$25

As a God-like blue-limbed giant you befriend a nervy young boy called Louis, journeying through a series of 14 theatrical dioramas in a delightful pop-up book art style.

There's a menagerie of great characters, from the cool cats contemplating existentialism on the bridge of the French village, Sancourt, to the rough seamen down at the docks in this interactive animation puzzle.

Fair warning that there's a twist half-way through about Louis' mother Pauline Lafleur which deals with a sensitive subject but it's handled in a touching and responsible fashion. It's a coming of age tale in many respects and your role is to offer a huge helping hand.

Journey of the Gods | \$30 free demo

Transform between human and God in this fantasy adventure. Battle with bow and arrow or sword, fly on mythical creatures and save the village. Beautiful character design in a cartoon style.

assortment!



Path Craft | \$15

A lemmings-like puzzler with a lovely cardboard cut 'n' paste art style, PathCraft can be hilariously frustrating as you try the deceptively simple task of getting your costumed kid from A to B.

It begins innocently enough and slowly introduces new concepts with blocks that can switch, teleport and even fire a cannon. There's 80 levels with four different hand drawn backgrounds straight out of child's imagination.

The easy-to-use level editor is great fun too and means the game is potentially endless with new levels built by the community. You can dress your kid up with cosmetics that are unlocked as you progress and there's the option for hand tracking. Cute.



Barbaria | \$20

Barbaria is breath of fresh air - a zany first-person brawler mixed with an off-grid multiplayer tower defence strategy and a massive dollop of humour.

Each time you load up the game see who has attacked your own realm (with replays in miniature!), then possess your *semi-God* and go do battle in others. It's a fabulous and addictive gameloop with upgrades and novelties coming thick and fast, paid for by winning gold for comedy violence, 'the only currency'.

Add your own music to play while you embody your beefy guy to lay waste to more enemy champions, skeletons with explosive heads and minions with your sword, bow, axe and fists. Stupidly fun.

Per Aspera | \$25

Elegant and intriguing, this strategy sim gives you a shot at terraforming Mars into a lush world before Elon Musk gets his hands on it. It's all about resource management and is oddly compelling. The Red Planet is based on Nasa data.

mixture!



HAX | free demo

HAX is a sleek and gorgeous cel-shaded single-player demo of an upcoming multiplayer with a very intelligent weaponry design.

With a flick, your magazines can become melee knives, grenades, reloads or used to capture terminals. It's a cool trick. By default you are armed with either a pistol or two-handed submachine gun for deathmatch or flag capture modes.

Play in the Factory, an abandoned Observatory (with ziplines!) or the Italian café style Old Town with Vespa mopeds ('Before robots, the world was quaint').

US-based Engine Organic studios have produced a classy design and a unique loadout. Highly promising.



Paradiddle | \$20

If you like your marimbas and your glockenspiels but don't happen to have a full percussive set up to go with your non-existent drum kit, try Paradiddle.

Just drag and drop a range of over 50 instruments into your own custom arrangement or try a preset like the 'Ringo Starr'. Kick drum is with trigger button but there is pedal and periphery support.

Learn how to play the kit in ten simple lessons. You can turn on passthrough to play in your own room or opt for the nature-themed dojo, galaxy or jazz café.

It's also a rhythm game with 16 songs to play along to Guitar Hero-style. There's Midi support, you can import custom songs and record your own. Let's rock!

Gladius | \$15

'I'm Spartacus!' Comedy gore sword-fighting as you go from slave to Thunder God at the Colosseum in Rome. Slo-mo dismemberment! Cheering crowds! Lions! Tigers! Minotaurs! Sell heads in the market place! And still in Early Access!

mélange!



Beers & Boomerangs | **demo** | \$20

Defend the Barbie against the thieving Kangaroos with your trusty boomerang! Keep your *tinnies* (beers) cool and your *snags* (hotdogs) sizzling in this anxiety-inducing cooking game masquerading as an 'Australian simulator'!

Beers & Boomerangs is a hilarious project by two Portuguese biomedical engineers turned Aussiephile developers, Diogo and Inês, under the banner Witty Platypus.

From the slo-mo inducing spread GdayMite (really should trademark that one) to the Koala who will give you chlamydia by throwing gas clouds, it's a riot of fun through a 15-level campaign. Fail and you commit the ultimate Aussie sin: 'You've disappointed your friends'.



Pioneer: Endless Journey | **free**

Set in what looks like an Arabian desert in space, this low-poly shooter is high on fire-shooting blooms, exploding seeds and evil-looking buds.

Get in your helicopter and fly to each level, equipping yourself with burning orb bombs and an ever-changeable weapon with swap-out sights, barrels and crystals.

To an exotic darabouka-fuelled soundtrack, blast your way through giant snakes, spiders and other exotic enemies as you run and bounce up through the dusty landscape.

It's a die-and-you-start-again affair though, so watch your back with those sneaky cactii.

Daedalus | **US\$5**

A real gem from the Spanish indie VR studio Vertical Robot - the makers of Red Matter - Daedalus delivers a wonderful sensation of flying. Glide and ride currents of multicoloured air to solve oneiric and surreal puzzles.

potpourri!



City of Eternity | free

'Stupid time-travelling tourists. Always leaving messes behind. Just another day punching the clock as a Time Janitor.'

An easy-to-pick-up original concept, City of Eternity has you on a march through time portals as a wage slave delivering artefacts back to their eras.

But the more you time travel, the more you have to avoid clones of yourself. It gets manic as 'you' multiply and the guards from each age close in - cavemen and mobsters, robocops and knights.

The walking mechanics are great fun - locomotion is through swinging your arms - and 2300AD has the perfect groove. Created by David Mines, it's one to play with a huge smile on your face.



Wrong Voyage Ex | free

It's an ancient title from Spanish indie Flying Guillotine but its great playability has given Wrong Voyage Ex the longevity to come all the way from a Game Jam for Google Cardboard to the Quest 2!

In a pixelated retro style with 2D jungle walls and dark emerald green labyrinths, the game has fantastic moody atmospherics and just the right side of tension.

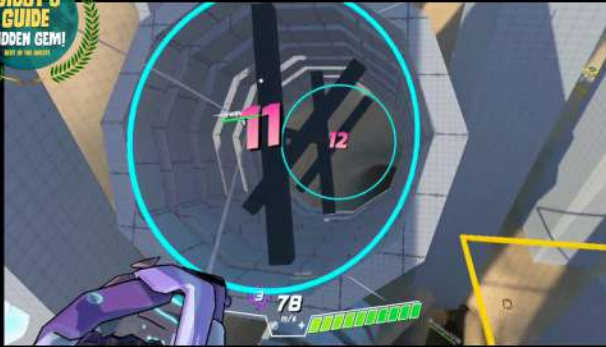
Armed with a simple laser gun, you'll come across the occasional scuttling red spider, zombie or crazed illuminati figure but your main task is to activate what look like green circuit boards to unlock portals and operate platforms. The levels get progressively harder and more intense. Classic!

DAVID | \$15

Stylish and satisfying wave shooter where you control your ship and support drone in the 3rd person, like waving your favourite toys around! There's five chapters in this ace space adventure from Two Guys productions.

REVIEWS

hodgepodge!



Atmos Arena | free demo

It's a multiplayer where everyone is spiderman, racing and battling against each other across skyscrapers and through catacombs!

With a fantastic grapple and thrust mechanics you can even perform circus tricks ('Icarus', 'Wet Feet') to boost your *slo-mo-o-meter*.

Catch a ride on passing flying cars and spring off trampolines as you unleash dual-wielding upgradable pistols on rivals and a dozen enemies. It's as fun as it sounds.

This is still a prototype from San Francisco-based indie developers Greensky Games ('Swarm') and will be free for a limited time. Grab it now.



Stunt Track Builder | \$10

Hot wheels in VR! Build your own epic stunt tracks around the house! It's easy to get started and hard to stop.

This app keeps growing fast. In addition to the bedroom, the kitchen now leads to the bathroom and the living room stretches out to the yard complete with a playable basketball hoop and dog kennel! There's even a garage *and* a bunch of community builds.

Try the cool roller coaster mode where you can shrink and ride in the toy car on the track you've just made (*motion sickness warning*)! And now you can share your tracks! The range of cars keeps growing too, with a school bus and fire engine. Credit to the indefatigable developer Lemon!

Land's End | \$5

This OG Go title is a lovely gaze and move puzzler - no controllers required. Move rocks with your mind! Beautiful vistas and calming worlds.

Note: You have to buy it on the Go store, but it works on Quest 2.

salmagundi!



Return To Castle Wolfenstein | **free** | \$5

One of a number of ports by Dr Beef aka Simon Brown of old skool classics, Return To Castle Wolfenstein is a first person shooter from over 20 years ago.

If you are into a nostalgia trip you'll know the story already. It's 1943 and a British and American duo team up against the German SS and are imprisoned in a medieval castle.

It follows the story of B J Blazkowicz who escapes the castle and discovers that the Nazis are reviving corpses. Cue mystery plot and a ten-hour campaign.

The first two levels are free. Buy the full game on Steam and you can play on native Quest. There's no multiplayer.



Hanna In A Choppa 3 | **free**

Hanna In A Choppa started life as a mobile game way back in 2008. Solo developer Chris Underwood decided to turn it into a sequel for VR in 2018 as part of his recovery process from a brain tumour. He explains that he had to make it free or it would mess with his life insurance payments.

The game is full of the excellent brand of humour that made the first iteration a hit. There's Hanna, in her Choppa, and she has to fly through puzzles. But now Hanna bursts out of the flatscreen into glorious orangey 3D!

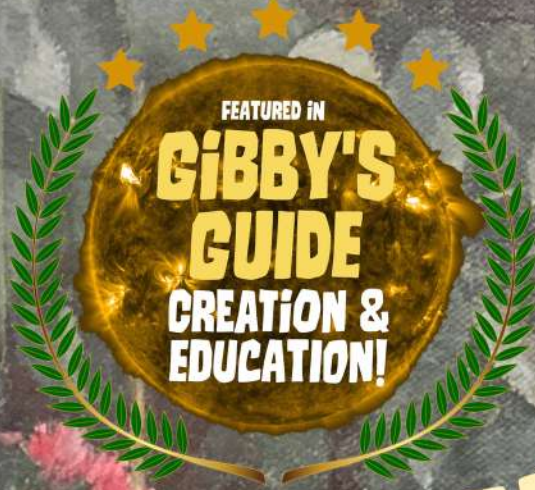
With jaunty oompah music and a nice line in homemade sound effects, it'll keep you busy piloting, winching (wenching?) and head scratching. Never press *that* button.

Unstung | **free**

Unstung is beautifully smooth, simple yet strategic. As the Queen you lead a swarm of bees on a merry dance to pollinate the flowers and protect the hive from evil bugs. Tower defence under the guise of a game for kids. Get you buzz on.

CREATION & EDUCATION!





RANKED!

CREATION & EDUCATION!

creation and education!

VR is not just for gaming!



virtuoso 🚲 📦
app | \$20
 trip out on your own loops!



lost recipes 🚲
app | \$15
 cultural cuisine!



vermillion 🚲 📦
app | \$20
 passthrough oil painting!



multibrush 🚲 📦
app | \$20
 three-dimensional painting



wander 🚲
app | \$10
 google street view!



vinyl reality lite 🚲 📦
app lab | \$10
 scratch that DJ itch!



anne frank house VR 🚲
app | free
 explore the house of
 WWII diarist Anne Frank



patchworld 🚲 📦
app | \$25
 build your own music
 machines!



mission: iss 🌐
app | free
 zero gravity inside the
 international space station



art plunge 🚲
app lab | \$2
 masterpieces come alive!



magic keys 🚲 📦
app lab | free
 virtual piano!



BRINK traveler 🚲
app | \$15
 photogrammetry tourism!

productivity & useful stuff!

A pot pourri of non-gaming apps!

one! multi!



immersed  
app | free
 passthrough office

two! multi!



horizon workrooms 
app | free
 infinite office

three!



skygaze xr 
app lab | free demo
 passthrough planetarium!

four! multi!



shapes XR  
app | free & in-app
 3D design!

five! multi!



alcove 
app | free
 family social app!

six! multi!



innerworld
app | free & in-app
 you are not alone

seven!



reality browser  
app lab | free
 passthrough browsers!

eight! multi!



gravity sketch  
app | free
 more 3D design!

nine! multi!



gesture vr  
app lab | \$14
 life drawing!

ten! multi!



arkio  
app | free
 spacial design!

eleven!



immergallery
app lab | free demo | \$15
 cool 360 photo viewer!

twelve!



contour  
app lab | free demo | \$10
 overlay digital design

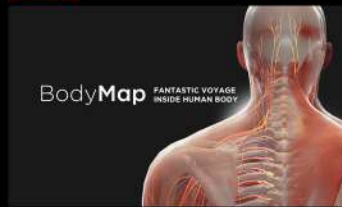
medical apps!

one!



human anatomy vr 
app lab | free (2hr trial)
 with ant mode!

two!



bodymap
mai.ai | free (14 day trial)
 fantastic voyage!

three!



medicalholodeck
app lab | free (7 day trial)
 dissection master!

four!



3D organon VR anatomy
app lab | free (7 day trial)
 micro anatomy!

five!



auscultation training
app lab | free
 listen to your body!

six!



human osteology vr
app lab | free
 dem bones!

seven!



CPR
app lab | \$50
 save a life!

eight!



CPR simulator
app lab | \$10
 stayin' alive!

nine!



US army medical vr experience **app lab** | free
 M*A*S*H!

ten!



human anatomy puzzle
app lab | \$3
 skeletal exam!

eleven!

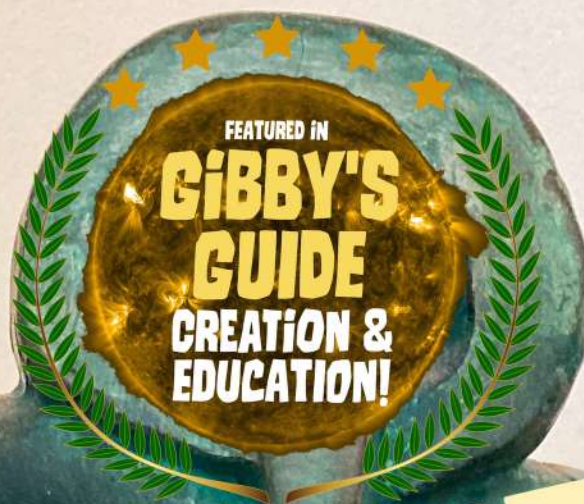


dissection simulations 
app lab | \$25 each
 cat, shark, frog and pig!

twelve!



surgineer 
app lab | \$10
 from hand physics lab devs!



REVIEWED!
CREATION & EDUCATION!

REVIEWS

multiplayer art creation!



Multibrush | \$20

Tilt Brush is dead, long live Tilt Brush! Google's seminal 3D painting tool, originally launched in 2016, went open source in January 2021 and within a week Multibrush was born.

Publisher Rendever, founded by **Kyle Rand**, is on a mission to overcome social isolation through VR - and has added multiplayer. (If you can forgo that function, Open Brush is a free alternative)

'Your room is your canvas, your palette is your imagination' goes the tagline. Paint with the impossible, like smoke and fire, or chose from 85 different brushes.

Whether you want be a pro or just fancy some art therapy, get inspired! See Danny Bittman's youtube channel.



Vermillion | \$20

Dutch developer **Thomas van den Berge**'s lockdown project was to create this oil painting sim with passthrough. It's a wet-on-wet painting app complete with browser integration.

A simple tutorial and you are straight into your own beautifully designed art studio. It's amazingly tactile and very flexible with the ability to, for example, change up your brush type and size.

Digital painting has a lot of advantages - no cost, no mess, you can undo strokes and go back to autosaved versions as you progress.

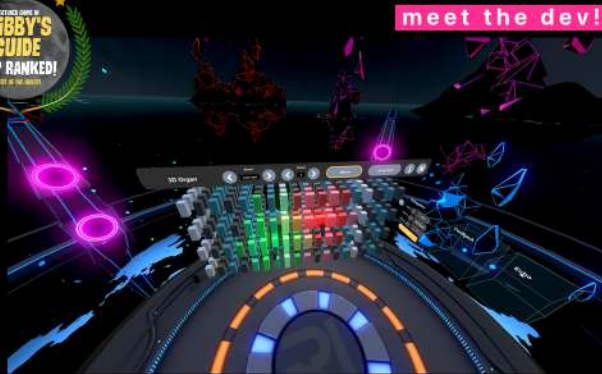
You can even export your masterpiece at up to 8K, print it out and frame it in the real world. Now with multiplayer!

Painting VR | \$10

You stand in a huge white hanger with a giant canvas at one end. There's a satisfying squelch as brush hits canvas and the textures glisten in the natural light. It's all very intuitive - mix paints right in their pots and blend strokes.

REVIEWS

music creation!



Virtuoso | \$20

A tool to play music with instruments designed for VR, Virtuoso makes GarageBand feel like the 18th century.

To a pulsating purple and blue neon background you can play the Oorgan, lay down a beat with the Empads, and discover the wHarp, Board and Clustr.

One hundred years on from the invention of the ethereal Theremin comes its freaky VR descendent, the Wavemin. You have a mic and the app now has passthrough.

Jonatan Crafoord is the creative genius behind it, and one of a five-strong team at Really Interactive in Sweden. It's easy to build up a series of live loops and MIDI support means a huge potential for professional artists too.



PatchWorld | \$25

On the surface PatchWorld seems like a goofy gamified musical wonderland with genuinely funny teachers, wacky underwater vibes and a nice line in dub.

It's also as simple to play with as putty in your hands. You can get super creative in seconds with voice loops, samplers and drum machines and there's a great creative percussive space that uses raindrops in the desert.

But scratch under the hood and it's also a highly technical endlessly-customisable open source music machine! Using 'patches' you can join together the building blocks to create instruments and sonic experiments as far as your imagination can take you. An incredible audiovisual interface.

Vinyl Reality Lite | \$10

Are you kidding me? A pair of my very own Technix (*sic*) decks to play all my own music? And I can stream it live on a separate master audio output and record all my mixes? Wave your hands in the air for TTycho from Berlin.

REVIEWS

virtual tourism!



Wander | \$10

It might only be Google Street View in VR but being able to go to any address on the planet in an instant never gets old.

The street where you were born? The city your friend has moved to? The neighbourhood near the Air BnB you'll be staying in? Just type in the address and immerse yourself in the surroundings.

This is photo, not video, of course but it's one of the best multiplayer hang out apps, touring the world with friends and family.

Play geo guessing as you land in a random spot, or try out the flawed but fun voice recognition system. You can bookmark your favourites and even 'time travel' to older registers of the same locations. Hours of engrossing fun.



Lost recipes | \$10

'Perfect!'. As your jolly Greek host heaps praise on you for frying some more dough balls, you can bask in the glow of your new found culinary skills.

Learn recipes that hark back to Ancient Greek, China and Mayan cuisine. As you'd expect from Schell games, it's polished in looks and playability.

There are no time pressures (except avoiding burning the pita bread) and you can make your Dongpo Pork and Mukbil Pollo with carefree abandon.

It's all relaxing, fun and you learn a little bit too. There's an additional recipe book so you can repeat the dishes at home (although you might need to dig a fire pit first). Short but sweet. And savoury.

Brink Traveler | \$15

This is hi-res photogrammetry but with special sauce - flying birds and grass bending in the breeze. Crucially you can move around a few feet in any direction and there's binaural soundscapes to add to the illusion. Now with multiplayer.

virtual tours!



Anne Frank House VR | free

An unparalleled and unmissable visit to the house of Anne Frank, the Jewish girl who was given a diary on her 13th birthday and whose writings in hiding during World War II became famous after she died in the Nazi Bergen-Belsen concentration camp.

The cramped house - a 'secret annex' of an old office building in Amsterdam - is replicated faithfully. Pick up objects and discover the minutiae of Anne's life in resistance.

A short video precedes and unlocks the tour and you are free to wander around long after it has finished. If VR ever makes it as mainstream in the classroom this would be first on the list marked compulsory.



Mission: ISS | free

Experience micro gravity in this Emmy-award winning simulator aboard the International Space Station - if your stomach can take it!

It takes some getting used to as you push off walls and grab rails, stopping occasionally to listen to the astronauts talk on educational videos.

When you tire of flinging Fancy ketchup bottles and strapping down floating bags it's time for the main event - the spell-binding spacewalk. It's incredible to tour the station from the outside bathed in sunlight, stars and the Earth below.

Back inside, head for the Cupola to learn how to operate the infuriating robot arm. In space no-one can hear you scream.

Art Plunge | \$2

Magical immersion into five masterpieces which are brought to life in an inspired interpretation in VR. Featuring Starry Night, Mona Lisa, The Birth of Venus, The Creation of Adam and Girl Reading a Letter at an Open Window.

productivity



Immersed | free

This is essentially a home working suite with one killer feature - passthrough.

You can design various portals to your real-world workspace, from a coffee cup to watching the baby. You can have up to five screens to work with after the company abandoned the paid subscription model.

And if you can make out your keyboard through the fuzzy black and white image (or touchtype) this is a game changer as it works with any keyboard or mouse.

It's very intuitive and simple to set up, mirroring your laptop or elements of it. You can even position a screen so you are laying down.



Horizon Workrooms | free

Workrooms is part of the suite of 'Horizon' apps for Meta's nascent metaverse together with Worlds. It's designed for team meetings as part of their vision of the 'infinite office'.

You can share your screen and whiteboard but tracked keyboard integration is currently restricted to an Apple Magic Keyboard or Mac Book Pro.

Up to 16 people can join at a time with others via video call but let's be honest, those used to Zoom are likely to be more distracted by comedy cartoon avatars.

'Kick back and connect with colleagues in our coastal environments or celebrate your big win with a virtual high-five,' says the blurb.

Shapes XR | free & in-app

Shapes XR is made for professional XR teams to design, prototype and communicate in one unique space. You can design 3D in 3D together and then export to game engines. Passthrough is included to facilitate AR design.

REVIEWS

more useful stuff!



Noun Town | \$15

It's a different approach to language learning. Explore an island and pick up any object. Now hold the item to your ear to learn how to say it, then speak.

If correct, the item (*chōri nabe!* cooking pot!) will turn from black and white into colour. The more you learn the more colour will return to the island, Noun Town, and with it, the islanders.

Get to know these locals, ask questions and have a conversation. From your HQ in the blimp in the sky you beam down to the café and the bakery with many more areas like a farm to unlock.

Current supported languages are Japanese, Spanish, French, Italian, German and Chinese.



Alcove | free

Alcove is a family social app made by Rendever, founded by **Kyle Rand**, whose mission is 'overcoming social isolation through VR and shared experiences'.

It's aimed at the elderly and everything is made as simple as possible, all arranged in a spacious house with themed rooms and a relaxing veranda.

Customise and put family pictures on the wall, play board games like chess and draughts and watch TV in the living room. In the travel room one click can take you on hot air balloon rides or deep sea diving in 360 videos.

There's seamless integration with Multibrush and Wander, for example, so you can paint or travel the world together.

Innerworld | free & in-app

From CEO Noah Robinson: 'Innerworld has entire worlds built for your mental wellness. Our community is a great source of positivity. Come to a meeting, even if you just watch and listen, or you can share what's going on in your life.'

REVIEWS

stars and planets!



Sky Academy | \$5

Know your Canopus from your Sirius, your Crux from your Ursa Minor - at last, your own home planetarium!

Gaze at the whole of the night sky and point at any features for information. This is like Stellarium in VR and uses the same lovely constellation illustrations.

It's also a teaching tool. Learn a handful of stars or constellations at a time and then test yourself with the sky at different orientations.

In all there are 88 constellations and 150 stars to brush up on that you can then take back into the real world whether you live in the Northern or Southern hemisphere. A simple and effective educational app.



Skygaze XR | free demo

The neat trick here - and what a trick it is - is the sliding roof which opens your ceiling to reveal the night sky in real time for your very own passthrough planetarium.

The result of a hackathon project by solo developer Emanuel Tomozei, Skygaze has the option to show constellation lines and you can click on any star for more info, displayed on a floating panel.

Choose a planet and it'll zoom into view for a closer look - Saturn's rings are impressive. You can also switch passthrough off and get a 360 of the sky.

In development, telescope mode and satellite tracking are currently locked and Planetarium mode is just a 180 film trailer but this app promises much, much more.

Somewhere | free

Addictive geography game where you guess the locations based on Google Street View photos, a VR version of Geoguessr. It's like being a detective, picking up clues from street signs, bridges, people and landscapes.

REVIEWS

made-for-passthrough music!



PianoVision | free

In the brand new arena of AR musical fun and education, PianoVision seems to hit all the right notes.

You can choose between connecting to a midi keyboard (using a USB cable to plug into your headset) or playing the 'Air Piano' which you can set up to appear magically in front of you.

Default keyboard size is realistic and real world calibration over an actual piano works well. Fingering labels help you to play each note with a specific digit.

You can upload your own custom songs, learn to read sheet music and even have multiplayer concerts in passthrough or in a music hall! And there are weekly updates from the developers, ZarApps.



Magic Keys | free

Magic Keys has a clean menu and uses the same familiar Guitar Hero-style coloured cues.

Promising passthrough to a real piano, the app allows you to play actual notes with key names overlaid, although calibration is a little awkward.

You can also connect to a midi keyboard or use the option of a virtual keyboard but you lose the louder or quieter dynamics or sharp or soft notes that come with a real keyboard.

Setting key width to narrow helps with octave stretch. There's a chords and scales trainer and whether you are more Twinkle Twinkle Little Star than Beethoven's Für Elise, it's all great fun!

Handpan VR | \$4

Invented in Switzerland in 2001, the handpan is like an inverted steel drum with a lovely meditative sound, and this is a lovely meditative app. Have a calming little trip playing along to ambient sounds and beats, building loops as you go.

tools in passthrough!



Gravity Sketch | free

The future of design? A powerful pro 3D modelling tool, Gravity Sketch takes you from free-form sketching to advanced geometry with a sleek, slick and intuitive interface. There's a learning curve of course, but there are expert built-in tutorials.

The app is put together by a 75-strong team from across the globe and is in constant development. It's used by leading brands from car design to trainer innovation has 1.5 million users to date.

To enter passthrough, lift your controller up to the side of your head and pull the virtual headset off with the grip button.

Gravity Sketch has a paid-for version for enterprise which adds support.



Gesture VR | \$14

With a simple black and white aesthetic and ambient music, Gesture VR is a straight-forward life drawing app and passion project from [Nick Ladd](#), ace animator from the fabulous Tales From Soda Island series.

There's 120 photogrammetry nude models in a variety of poses (plus a skeleton and a horse) which, using passthrough, appear to be in your room.

It's highly customisable - change lighting, rotate models at will, alter the size of your sketchpad or the position of your pen or even draw in a 3D space off the page. Transform the models into box form to help train your hand. You can enable up to four students and a teacher to be in the same virtual space.

Reality Browser | free open beta

Cinematic youtube on the wall? A postcard-sized clock on the table? Workscreen on the bed? One of those simple does-what-it-says-on-the-tin apps you never knew you needed. As many windows as you want in any size.

REVIEWS

olio!



Contour | **free demo** | \$10

A handy little app, Contour does one thing and it does it well - overlay any digital design you want over a surface to trace it on to canvas, paper, a sign, a wall or anything you like.

A very easy user interface makes it a breeze to line up and sketch your outline. It's a simple but effective technique.

Scale, rotate and change depth until your graphic is in position. You can adjust opacity with a slider or hide and reveal the overlay with your non-dominant hand while you draw.

You can change passthrough camera brightness and contrast and alter the colour tint. There's a free demo to test drive with a handful of preset graphics.



ImmerGallery | **free demo** | \$15

Finally, an intelligent viewer for 360, 180, panoramic and flat photos that really should be bundled for free by Meta themselves.

Never mind, solo developer Daniel Pohl has come to the rescue. The app will recognise and automatically display all formats correctly for a hassle-free experience.

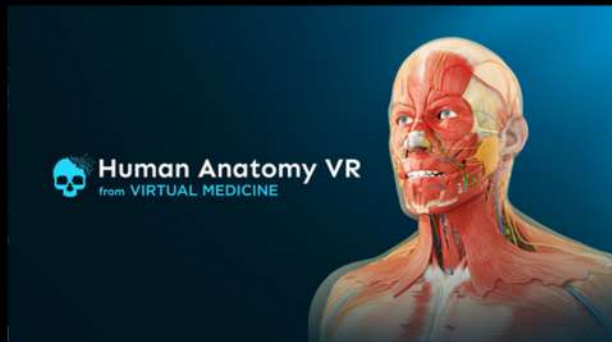
Feature-rich, you can add dynamic effects like rain and snow or add FX, music or voice notes. Use the thumbstick to turn around in 360 without the need to physically turn.

There's DNLA support and you can directly download shared galleries. Note: there is no support for video.

Musical Journey | **free**

A clever educational trip into musical styles. Mix and match Jamaican bass with BB King guitar, Czech folk violin with Tropical House drums. Play with fusions to unlock new ones. There's everything from UK grime to EDM.

medical apps



Human Anatomy VR | free trial

This is Fantastic Voyage territory. The classic sci-fi film featuring people shrunk to microscopic size to enter the human body is made real in Human Anatomy VR with Ant mode.

Fly into to the brain, for example, and marvel at the details. You can do it in your own room in passthrough mode and manipulate the whole thing with hand tracking.

The simplified and cheaper version is aimed at sports and fitness enthusiasts or those with a passing interest. The more detailed option with 10,000 anatomical structures is for medical professionals for education and surgical planning.

** Free trial (2hs). See link for pricing.*



Medical Holodeck | free trial

Medical Holodeck is a suite of applications aimed at everyone from casual users to medical professionals. Dissection Master XR is the only one publically available for standalone.

It features a real human body made with photogrammetry designed for university level education. There are ten levels you can strip away from skin through to organs.

It looks like a gruesome Goya painting and works like a virtual cadaver lab. Info panels open for each of the anatomical structures and you can hover a browser window for further research. It can even render CT scans in 3D.

** Free trial (7 days). See link for pricing.*

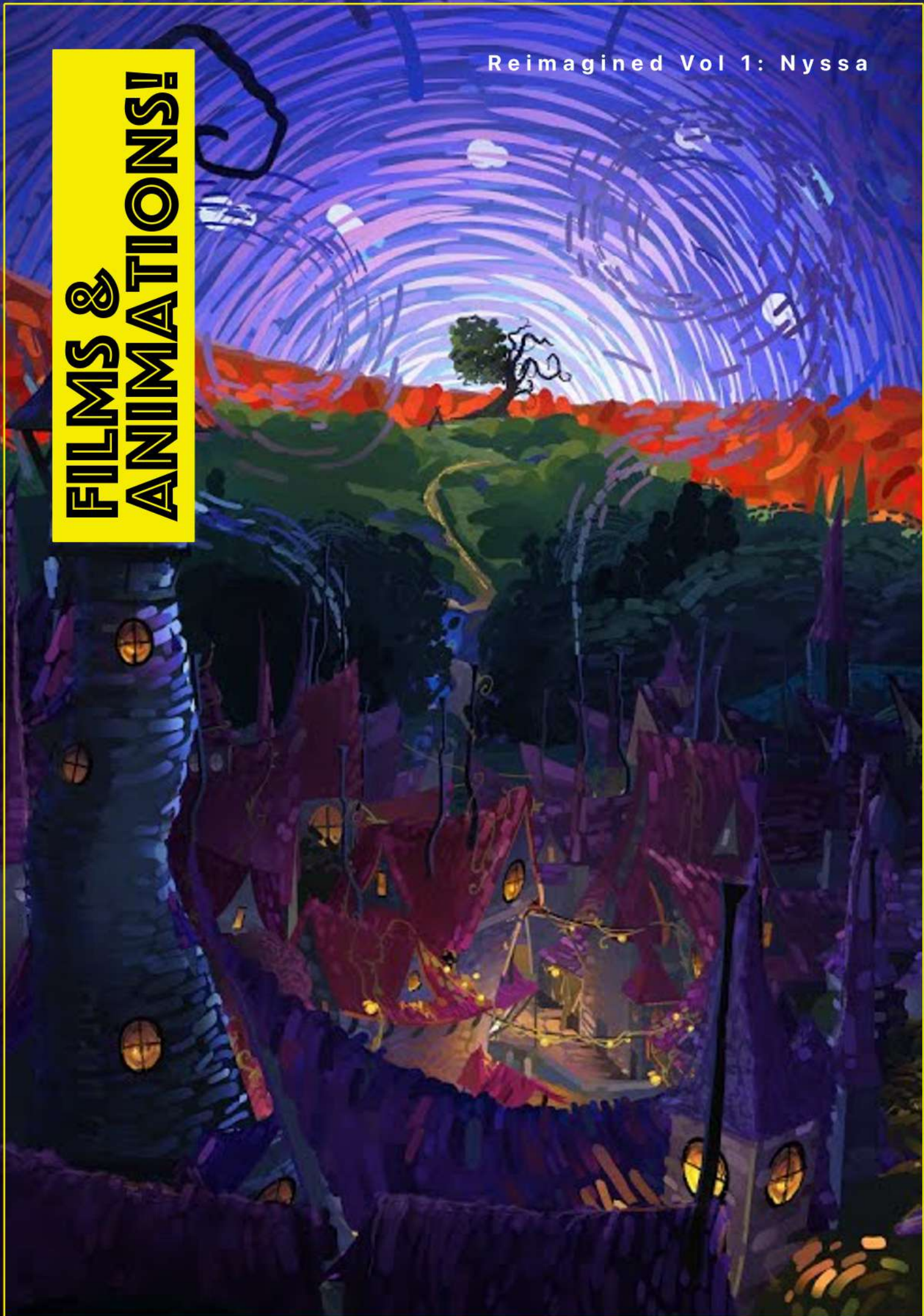
BodyMap | free trial

BodyMap calls itself 'the Google Maps of the human body' with 12 systems, male and female models, flashcards and courses with a user-friendly interface.

** Free trial (14 days). See link for pricing.*

FILMS & ANIMATIONS!

Reimagined Vol 1: Nyssa





RANKED!

FILMS & ANIMATIONS!



interactive animations!

Interactive animations are a whole new level of magic. Here's my top 12!

one!



wolves in the walls 🏠
app | \$9
do you believe me? 40m

two!



the line 🏠 🦋
app | \$5
Emmy award winner 20m

three!



luna 🧑🏻 🦋
app | \$15
back to life 1-2hrs

four!



paper birds part I & II 🦋
app | \$7
music and light! 30m

five!



baba yaga 🏠 🦋
app | \$6
protect the forest! 22m

six!



timeboat 🏠
in app | \$12
'the under presents' 30m

seven!



the secret of retropolis 🦋
app | \$13
play a robot detective! 1hr

eight!



hitchhiker 🦋
app | \$20
a road trip mystery! 3hrs

nine!



goliath: playing with reality
app | free
exploring mental health 25m

ten!



MLK: now is the time 🦋
app | free
The legacy of Dr King 10m

eleven!



madrid noir 🏠
app | \$9
Lola's journey 45m

twelve!



bonfire 🦋
app | \$5
play fetch with aliens! 20m

quillustrations!

Open up the pre-installed VR Animation Player to watch these great titles. Quillustrations are made in VR using the animating tool, Quill.



1 - the multiverse bakery
studio syro | free
unmissable adventures ...



2 - the neon jungle
studio syro | free
... from the tales ...



3 - the quantum race
studio syro | free
... of soda island! 3 x 5m



4 - the golden record
studio syro | free
if only Carl Sagan could see this! 12m



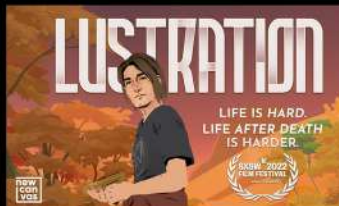
5 - the school trip
studio syro | free
there's magic in the water! 12m



6 - silence
studio syro | free
who is Silence? 12m



7 - the last ingredient
studio syro | free
the series finale 12m



lustration
new canvas | free
before the after life 30m



four stories
nick ladd art | free
simultaneous quartet of fun tales 12m



peace of mind
blue zoo | free
bing bong! dream interpretation 5m



lifetime achievement
parade | free
the lengths Yonatan Tal goes to for his mama! 15m



dear angelica
oculus | free
the first quillustration! 15m

animations archive!

2023

2019

A selection of the best content over the past seven years ...

2023



reimagined vol 1: nyssa
meta quest tv | free
a young witch 15m



(hi)story of a painting
meta quest tv | free
the light in the shadow 15m



missing pictures
app | free
films never made 5x9m

2022



namoo
meta quest tv | free
the tree of life 12m

2021



battlescar
app | US\$6
girls invented punk! 28m

2020



the dawn of art
meta quest tv | free
the cave of forgotten dreams 10m

2019



the key
app | free
where am I from? 20m



ayahuasca
meta quest tv | free
Jan Kounen's jaw-dropping Amazonian trip 18m



le soleil d'edvard munch
youtube vr | free
french language
warning: intense! 10m



black bag
veer | free
Chinese heist 13m



the spacewalker
youtube vr | free
1965 Voskhod-2 rocket launch! 4m



the remedy
meta quest tv | free
seminal comic book 10m

animations archive!

2018

2015



cesare's dream
youtube vr | free
the cabinet of dr caligare
- what is reality? 6m

2018



jurassic world
app | free
apatosaurus & blue
2 x 3m



crow the legend
youtube vr | free
from the makers of
Madagascar! 22m



isle of dogs
youtube vr | free
stop motion studio 6m

2017



the dream collector
veer | free
an old man and his dog 13m



las meninas
veer | free
inside the masterpiece of
Diego Velázquez 6m



a bar at foiles-bergère
veer | free
beautiful passage into
Manet's last major work 6m

2016



dreams of dalí
youtube vr | free
inside a Dalí painting 6m



invasion! 🐰
app | free
aliens try to take over the
Earth! 6m



pearl
youtube vr | free
Oscar-nominated tale of
father and daughter 6m

2015



the night cafe
app lab | free
interactive van Gogh! 5m



the butcher
youtube vr | free
run, rabbit, run! 2m

film archive!

2023

2019

Use a swivel chair and headphones for your best viewing pleasure! Resolution may be found wanting in older titles! For film festivals see xrmust.com.

2023



behind the dish
meta quest tv | free
delicious stories 3x12m

2022



conquest of the skies
meta quest tv | free
VR180 Attenborough 5x9m



the ISS experience
meta quest tv | free
life among the stars 2h19m



on the morning you wake
meta quest tv | free
anti-nuke doc 38m



the soloist vr
meta quest tv | free
free climbing epic 2x30m

2021



surviving 9/11
meta quest tv | free
reconstructed in VR 20m

2020



into space
app lab | US\$3
from the moon to mars 25m

2019



-22.7°C
meta quest tv | free
DJ Molécule in the Arctic 9m



immerse
meta quest tv | free
best underwater film 9m



dive blue planet vr
youtube vr | free
guided dive with octopus 9m



tales from the edge
youtube vr | free
wingsuit base jumping 9m



traveling while black
felix & paul | free
Jim Crow era 20m

* **youtube vr** app limits resolution * **VeeR** appears to be currently unavailable * **within** app has shut down * On **meta quest tv** download cache to watch in high res

film archive!

2019

2014

2019



the overview effect

youtube vr | free

astronomical metanoia 6m

2018



okavango experience

youtube vr | free

astonishing wildlife in the
Okavango Delta 4 x 6m



polar obsession

youtube vr | free

seals in Antarctica 7m



airpano vr jellyfish bay

youtube vr | free

breathhtaking underwater
film in Indonesia 3m



dolphin man - the dive

youtube vr | free

world record holder in
free diving 6m

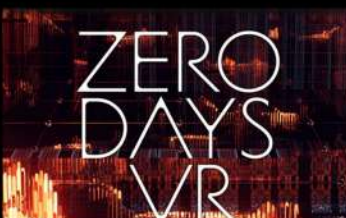
2017



space explorers

felix & paul | US\$3 each

amazing nasa docs
2 x 20m



zero days vr

youtube vr | free

documentary on the fourth
dimension of war 21m



sanctuaries of silence

youtube vr | free

the last silent wilderness 71



alteration

meta quest tv | free

disturbing experimental
AI sci-fi 17m



save every breath

youtube vr | free

WWII dunkirk 1940 4m

2016



nomads

felix & paul | free

maasai mara, yak herders
and sea gypsies 3 x 12m

2014



strangers

felix & paul | free

just a guy making music
8m



REVIEWED!

FILMS & ANIMATIONS!



new releases!



Reimagined Vol 1: Nyssa | free

Nyssa is the first tale of a new adventure series under the umbrella of the excellent Studio Syro, creators of the peerless *Tales From Soda Island*.

Based on the Brothers Grimm fairytale *The Story of the Youth Who Went Forth to Learn What Fear Was*, it's also created in VR using Quill.

A young witch loses her best friend, Broom, and searches in a dark forest, guided by a spirit, Blue. 'The safe thing to do is run away whenever you are afraid,' she's advised.

But can she save her village? Nyssa is directed and produced by a female-led team.



Fight Back | free

Long-time VR innovator Céline Tricart (*The Key*) turns her talents into creating a hand tracking experience to introduce self defence moves 'as an answer to gender-based violence'.

These laudable aims are backed up by some funky moves that are crying out to be mimicked by game developers.

It's a physical experience set in the stars against the demonic shadows, but is also designed to make you think about how to diffuse conflict.

Made by and for women, the story revolves around rescuing your sisters. They are then revealed to be inspirational historical female figures.

(Hi)Story Of A Painting | free

Narrated by the inimitable Cerys Matthews, *The Light In The Shadow* tells the remarkable life story of 17th century Baroque artist Artemisia Gentileschi, famed for her depiction of the female gaze.



interactive animations!



Wolves in the Walls | 40m

'I sat in my car for 30 minutes thinking about it. That could have been any character, that cube could have been any object,' remembers director Pete Billington as he describes his epiphany using the 'Toybox' demo which first illustrated animated user interaction.

That character became the adorable wide-eyed child Lucy and that cube became a Polaroid camera in the sensational *Wolves in the Walls*, an Emmy award-winning pioneer in the use of 'virtual beings', powered by AI.

The emotional bond with Lucy becomes as strong as her own with 'pig puppet' in *Fable's* adaptation of Neil Gaiman's eponymous children's book. You won't want to leave her side. Visionary.



Hitchhiker | 2hs

'We are all looking for something along this road, I haven't met anyone who isn't' says 'Hops' a humanities teacher apparently driving around in endless circles in some American suburban hell.

Nothing is as it seems in this surreal road trip. Your drivers - there are five of them - chat away to you as you reply via a choice of dialogue boxes. It's a lengthy narrative but that's ok, you relax into it, resisting the temptation to reply out loud.

The mystery begins as you jump into Vern's car on the open road. He's a raisin farmer and he *really* wants you to try his raisins. There are simple puzzles and some nifty style shifts in the animation. *Hitchhiker* is definitely worth getting your thumb out for. Enjoy the ride.

Bonfire | 20m

As Scout 817, you've been sent to find a new home for humans. Before long you are playing fetch with a pink porkbun using cubed filipino beef skewers. Weird. Do you save the human race or your new alien friend? From Baobab Studios.



hand tracking interactive!



Paper Birds | 30m

'The morning breeze was my favourite part of the day' declares Toto, a flat-capped boy playing a *bandoneon* (a type of concertina) in this quintessentially Argentinian animation directed by German Heller and Frederico Carlini.

Archie Yates, Edward Norton and Joss Stone star as the voices of Toto and his grandparents Robert and Elsa in this pretty handcrafted stop-motion yarn that slowly and expertly reveals a complexity and mystery of those blue neon birds.

At times tear-jerkingly beautiful, Paper Birds is a two-act play from the perspective of youth and old age. The hand tracking of music and light is as thrilling as the story is profound as you discover portals to an invisible world.



Baba Yaga | 22m

The wild witch of centuries of Slavic folklore, Baba Yaga, fixes her piercing green eyes on two brave young daughters of a sick village chief in this interactive animation from Baobab studios.

Magda (voiced by Daisy Ridley) and Sasha - that's you - must go into the dangerous forest to get the witch blossom cure from the enigmatic old hag (Kate Winslett) to save your mother (Glenn Close).

Yes, it's an all-star cast - and all-female - and although the hand tracking interaction is minimal it is spectacular, from taking a lantern from your sister to unleashing thunderbolts of thorns. There are multiple endings - which path will you chose?

The Line | 20m

A love story between Pedro and Rosa, two miniature dolls on a scale model of 1940s São Paulo. Narrated by Rodrigo Santoro, this Emmy award-winning tale from Brazilian studio Arvore is a showcase hand tracking experience.



more interactive animations!



Timeboat | 30m-1hr

Hidden within 'The Under Presents' app is Timeboat, a standalone interactive animation that is a cast-iron case of how VR can be mind-blowingly inventive.

Using your virtual golden mask you can toggle between seeing the world in miniature or at human-scale as you ghost around the scenes during the three acts. You can wind time back and forwards and move using 'scrunch' locomotion, essentially warping through space.

In the story itself you go onto a research ship, The Aickman, which lurches into disaster when it gets stuck in an ice floe. On board there's a cast of fully fleshed-out characters for you to eavesdrop on during your own non-linear adventure. Audacious and ground-breaking.



Madrid Noir | 45m

Lola is a distracted young woman, uncomfortable with her unresolved memories. 'These boxes won't unpack themselves,' she says, as you help her rummage in drawers and answer the phone in the former apartment of her dodgy uncle.

Directed by James Castillo, Madrid Noir is a tale in two acts set in the Spanish capital, a night-time *paeen* to a lost era. Sucking on cigarettes in the back streets, doing deals with the shiftiest of bar room buddies, Lola's uncle is up to something.

Reaching back into her memories, she resolves to check it out. In a perfectly honed finale, Lola confronts her past. The majority is played out on a theatrical stage but there's some precious interaction.

Luna | 1-2hs

This beautiful story of the reconstruction of a world that's been blown off-course seems to chime perfectly with the times. Part interactive animation, part game and part meditation, Luna stars a young red Bird who must reawaken a broken planet.



even more interactive!



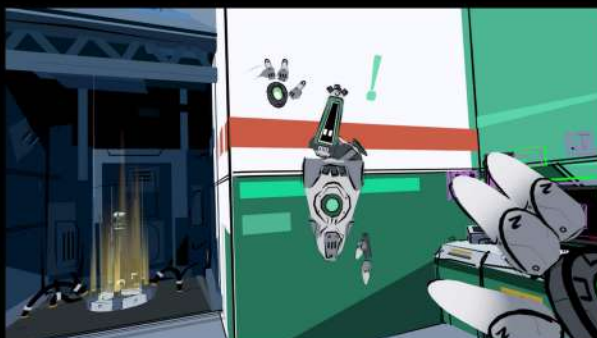
The Secret of Retropolis | 1hr

'Before they were gone, humans made robots to keep civilisation alive. But just like the humans, we turned out to be apathetic and broken.'

This is Retropolis, a city populated by robots like you, Philip Log, a downbeat private detective. 'I love jazz, it makes my drinking seem more sophisticated,' says Philip.

In walks the beautiful blue Jenny Montage, a rich, famous mechanical movie star and your point & click puzzle adventure begins, replete with spring-loaded arms and suitcase inventory.

With a lovingly crafted retro-futuristic art style, this is a witty noir caper from Israeli indie Peanut Button.



Goliath: Playing with Reality | 25m

It's a psychotic episode while DJing at a rave that 'Goliath' realises that he's going 'mad'. The film flips effortlessly from techno, turntables and trippers to a very sparse room in a psychiatric hospital.

Made by London-based Anagram, it's profoundly affecting and doesn't pull any punches. 'My fucking head is just ... fucked,' says Goliath, narrating his own true story along with Tilda Swinton.

A tale of suffering, schizophrenia and salvation via the online gaming world is delivered through mind-warping visuals, minimal interactions and a clever device to hear voices in your own head.

It feels like an important step towards changing how mental health is portrayed.

Unbinary | 3hrs

A sarcastic AI leads you on a hand-painted puzzle adventure. Donning one of three masks alters the way you interact in this gem from Brazilian indie studio Ludact. Cartoon climbing is fun! Opção de voz em português ;)



quillustrations!



meet the dev!



Lifetime achievement | 15m

Leaning on the comic traditions and style of Tex Avery and Chuck Jones, this tear-jerker is a riff on the value of presence over presents.

Former Disney animator **Yonatan Tal**, who set up LA-based Parade Animation, draws on the love for his own mother (he declares as much in the opening credits) as he weaves a fast-paced fable that flies from secret caves in South Indonesia to albino crocodile hunting in Africa.

High-flying French designer Albert - so ritzy that 'Lorenzo is my exclusive gold supplier since 94' - is trying to make the ultimate gift for mama. But will the quiet tea-drinking septuagenarian be impressed?



meet the dev!



Tales From Soda Island | 1hr+

An astonishing series of seven Quill shorts from Studio Syro - all set in the strange universe of Soda Island, with smoothie beavers and peace-loving *nekoalas*.

In **The Multiverse Bakery**, a chef bends space-time. A humanoid *tadpolotl* emerges from the water in **The Neon Jungle** and it's a techno candyland version of 60s cartoon Wacky Races in **The Quantum Race**. In **A Golden Record** a worker ant breaks free with the help of surprise find, and there's magic in the water on **The School Trip**. The mysterious silhouette is explored in **Silence**, and the series wraps up with **The Last Ingredient**. It's eye-popping fun. At times fantastically minimalist and always wordless, Soda Island is fizzing with life.

Four Stories | 4 x 3m

An quartet of simultaneous tales set on the upper floors of an apartment building - four stories - by Canadian quillstrator **Nick Ladd**. Highly original and voyeuristic, it's only three minutes long - but the genius is that you can watch it four times over.



more quillustrations!



Dear Angelica | 15m

The Quill app was actually originally conceived as a tool to help in the creation of a novel attempt at VR illustration: Dear Angelica.

Released in 2017 and created as a female-led story, illustrated by women, it explores the relationship between the titular Angelica (voiced by Geena Davis) and her daughter Jessica (Mae Whitman).

Angelica was an actress that had roles as astronauts and superheroes, but her passing has led to Jessica reconnecting by watching back her old films.

It plays out like a lucid dream, each line being willed into creation.



Lustration | 30m

'Give me silence and a black abyss after all of this,' says detective Pine, musing with her colleague on the prospect of a life after death. Pine is one of four characters explored in each episode of Lustration, a noir-style comic based on the graphic novels written by Ryan Griffen.

The whole caper is based on a neat trick: you can flip between camera angles or even full scenes as they play out in parallel in both The Living World and The Between, a kind of after life purgatory.

They often intersect and you can rewind and see what happened from the other perspective. There's quality both in the voice acting from a class cast and Griffen's socially astute dialogue.

Peace of Mind | 5m

A slightly confused Mr Burrridge enters an austere waiting room where he's told to wait for his 'live dream interpretation experience'. The unseen overworked technician Jason is keen to hurry things along, ignoring his pleas that 'this is not a dream, it's a recurring nightmare!'



art animations!



Dreams of Dalí | 6m

A stone-cold classic must-see, *Dreams of Dalí* is an epic fly-through the trippy surrealism of the Spanish painter.

It begins in the desert as an ant-sized father and child gaze up at two towering praying figures, the scene from his work 'Archaeological Reminiscence of Millet's Angelus'.

Although that painting is the anchor of the film, other iconic elements are introduced – a lobster phone rings under one of the towers, a girl is skipping rope, and the elephants on stilts trumpet under the crescent moon.

With the echoing voice of Salvador himself in English and Spanish, it's an *obra maestra* all of its own.



Le Soleil d'Edvard Munch | 10m

Using the Ganzfeld effect of perceptual deprivation to create 'hallucinations' of colours, this experimental animation attempts to recreate the intensity felt by Edvard Munch on seeing 'The Sun'.

Using frequencies of sound and chromas that cut to white, your brain becomes starved of stimulation and imprints their opposites on the blank canvas.

Munch based his masterpiece on a sunrise on Norwegian coast, re-created here at the start of the film as a slow one-take time-lapse taken from the same spot over a fjord in Kragerø. *French language.*

Warning: This film features an optical technique which might be uncomfortable for some viewers.

The Night Café | 5m

Hang out with Vincent as he tugs on his pipe in an imagined back room inside his painting *The Night Café*. From the Sunflowers on the piano and his simple functional chair to the *Starry Night* outside the window, this is a loving tribute.



more art animations!



The Dawn of Art | 10m

Black woolly rhinoceros locking horns, a quartet of horses, arctic musk oxen and a pride of lions. It must have been quite a shock when speleologist Jean-Marie Chauvet stepped into a cave in the South of France in 1994 and stepped back in time by 36,000 years.

The Dawn of Art leads you inside what Werner Herzog has called the cave of forgotten dreams. A bear skull sits where it was carefully placed many, many millennia ago. The giant frescos - humanity's first masterpieces - are some of the oldest drawings in the world.

Narrated by Daisy Ridley, the animals spring from the walls as sparks of fire - animating the originals drawn in charcoal and engraved into the limestone walls.



Las Meninas | 6m

Commissioned by Spain's King Philip IV, 'Las Meninas' ('The Girls') is a masterpiece from 1656, a play between illusion and reality. The artist Diego Velázquez stares at us from behind his easel and it is with his words that we are projected behind the curtain and into the canvas.

He teases us with the mystery of what he is actually painting. Is it the ladies-in-waiting? Is it the King's daughter? Is it her 'little men of pleasure', the dwarves who are always at her side? Is it the Royal couple, reflected in a mirror?

Or is it Velázquez himself, painting the painting? *'Everything that we see with our real eyes is, for me, nothing other than a dream and a farce'.*

Cesare's Dream | 6m

A century on from the expressionist silent film 'The Cabinet of Dr. Caligari', this mixed-media VR homage is still asking the same questions: 'What is a dream, what is reality and who is in control?'



more animations!



A Bar at Foiles-Bergère | 5m

'Suzon, your gaze goes much deeper ...almost as if it is the reflection of the person observing you', says the imagined narration of Édouard Manet, admiring the barmaid at the Folies-Bergère.

When his panting was unveiled in 1882 it disturbed the Parisians due to its imprecise perspectives. Here we are transported inside the work, first from the view of smitten Manet and then from Suzon herself, looking out on the nightclub of ladies with fans and gentlemen in top hats.

With the laughter of the patrons and the musical score bringing the painting alive, the enigma remains: 'What is Suzon thinking about?'



The Key | 20m

Profound and unsettling, The Key takes you on a surreal journey through barren landscapes, watercolour skies and expressionless figures dressed uniformly in black.

One of them introduces herself as Anna. 'I can't remember where I came from,' she announces, 'but I keep having these dreams, and there's always a key.'

You are introduced to some friends at the outset - one likes to sing, another likes to dance, a third is shy. But there's a storm brewing.

Directed by Celine Tricart, you'll come across a multi-eyed bureaucrat and get a tongue-lashing from a demon and it may not make much sense - until the end.

The Remedy | 10m

Seminal comic book quillustration by Daniel Peixe. A single mother must venture into the dangerous unknown to find a cure for her dying child. The quest for a plant with mystical healing properties is the only way to save him.



life-affirming animations!



Namoo | 12m

An Oscar-nominated short from Baobab Studios, *Namoo* (meaning tree in Korean) is the story of one life from birth to death set on a single stage scene.

The tree stores all the memories and things collected during a lifetime, from a toy bunny to a bike, a paintbrush to a book of poems.

Starting off as a sapling, growing roots and spreading skywards, the tree remains as the ever-present and evolving backdrop to the tale, as the protagonist grows up, falls in love, and finally reaches old age.

Hand drawn in Quill and written by Erick Oh, *Namoo* is poignant, reflective and affecting.



The Dream Collector | 12m

An anonymous figure on a bridge. A guitar hurled into the abyss. An old man and his dog, living under amongst the rubbish under the motorway: the dream collector.

Written and directed by Mi Li, this uplifting whimsical tale follows the humble handyman as he fixes the discarded *bric-a-brac* of life and sends it through a mysterious carousel.

There's a deflated football and a old baseball glove, all lovingly restored to their former glory.

With the sound of the tinkling bell of his pet companion, he goes about his business come rain or shine until winter sets in. Where do all his items go?

Black Bag | 12m

A Chinese heist directed by Shao Qing in a hand painted style, *Black Bag* takes you on a trip of perspective travelling in this abstract and intense silent thriller. A downtrodden bank employee pulls off a daring raid.



challenging animations!



Ayahuasca Kosmik Journey | 18m

Director Jan Kounen's jaw-dropping Amazon trip begins in the jungle with a shaman sitting in front of you, framed against the roots of a giant tree.

The indigenous healer, from the Peruvian Shipibo-Conibo tribe, begins a meditative chant to take you into a trance-like state - an ancient ritual played out on the most modern of media, and one of the most powerful experiences in VR.

Representing the effects of the hallucinogenic drug ayahuasca, you begin a mesmeric psychedelic journey, with visions of animal spirits from serpents to hummingbirds in the fractal cathedrals. It's not a film to be watched lightly. **This** 'making of' short can help you decide if you want to take the trip.



Battlescar | 28m

'We are gonna grab Alphabet city by the balls!' As loud, angry and energised as the 1978 New York punk scene it portrays, Battlescar follows two teenage runaways - Puerto-Rican American 16-year-old Lupe and her *blanquita* friend Debbie.

Created by Argentine director Nico Casavecchia, it tilts from cut and paste Sniffin' Glue zine-style to riding on the back of a stolen motorbike in a flash. Words stab the screen. Dark, urgent and edgy, Battlescar takes you on a trip down dangerous alleyways, punk legend Elda Stiletto's squat and the infamous CBGBs.

Rosario Dawson narrates to a backdrop of white guitar noise - and even a little Screamin' Jay Hawkins. Death is certain. And punk was invented by girls.

Rebels | 7m

With just a trusty trumpet against the one-eyed droids, our hero ducks, dodges and parkours his way through a dystopian future. With a battlecry of 'music is our freedom', this *quillustration* builds to a marvellous jazzy release.



films on the fallout of war



On The Morning You Wake | 38m

'Can we pray, mummy?'. You've just been told you have 15 minutes to live. What do you do? That was the real question faced by Hawaiians in 2018 as they woke up to a text message of an incoming ballistic missile attack: 'This is not a drill'.

It took 38 minutes until a false alarm was declared, 38 minutes of panic, chaos and the realisation that you were about to die. Poignantly, it's also the running time of this extraordinary documentary.

The narration is spun through the voices of those directly affected including one survivor of Hiroshima living on the island.

The most powerful anti-nuclear film since *Threads* (BBC 1984). Timely and terrifying.



Surviving 9/11 | 20m

'I'm Paul, I gotcha.' After 27 hours under the rubble a rescue worker calls out to Genelle Guzman-McMillan, the last survivor of the attacks on the World Trade Centre.

Part reconstruction, part personal journey, the film begins with a devastating opening scene - the second plane crashing into the World Trade Centre in full 360.

Using archive photos and panoramas, you are taken back to life inside and outside the towers, the day of the attack and the aftermath.

Two decades later, Genelle returns to Ground Zero for the first time. She has never met 'Paul', she says, but she thinks of him as an angel.

The Atomic Tree | 10m

The story of a 400-year-old bonsai tree that survived the atomic blast in Hiroshima. While the stone faces of Buddha melted in the blast, two miles from the epicentre the White Pine lived on. What memories are in its rings?



films on black history



MLK: Now Is The Time | 10m

Interspersed with archive footage and words from Martin Luther King, MLK plays out the Black experience of the 1960s with interactive scenarios made powerful with the use of hand tracking.

From making a black power salute to keeping your hands on wheel of a car in the face of police brutality, MLK brings you into the story, told through personal accounts.

It examines housing, policing and voting to examine the historical context of race relations.

And it effectively uses Dr King's famous line - 'Out of the mountain of despair, a stone of hope' - with a motif carries you through the chapters. Stirring stuff.



Traveling While Black | 20m

Directed by Oscar-winner Roger Ross Williams and produced by the Emmy award-winning Felix & Paul Studios, Traveling While Black is required viewing.

There's a clever use of archive 2D in VR via projections around Ben's Chili Bowl restaurant in Washington DC where the patrons gather to talk about race relations in the US.

To sit with the African-American protagonists as they describe their experiences feels like an incredible privilege, and is touching and profound.

The very existence of the Negro Motorist Green Book is an extraordinary indictment of the Jim Crow era and this important film preserves that story.

The March 360 | 7m

Walk with the protestors in an animated recreation of the March for Jobs and Freedom and watch highlights of Dr King's 16-minute epoch-defining speech at the Lincoln Memorial in Washinton DC. '1963 is not an end, but a beginning ...'



extreme action films!



The Soloist VR | 2x30m

'Are we trying to create good experiences for people or nightmares?' jokes *free soloist* Alex Honnold as he stands atop another summit in the Alps. 'I think this VR film could definitely be a nightmare for a lot of people. But it'll be good for them. Toughen 'em up!'

In case you didn't know, this is rock climbing without ropes or harnesses. 'Some people must watch me and think that I'm crazy and that I'm gonna kill myself. But they don't see all the training and preparation,' says Alex.

In this hour-long two-part documentary the 36-year-old American teams up with Swiss Alpinist Nico Hojak. This is high-end stuff and the scenes are as dramatic and breathtaking as you'd expect.



Tales From The Edge | 10m

'Since I started jumping I've lost about 80 per cent of my friends,' says BASE jumper Jeb Corliss, 'but BASE jumping has given my life purpose.' Here he pays tribute to one of his fallen heroes, Uli Emanuele, who crashed in the Alps, aged 30.

'He had an eye for the beautiful, almost dance of a line,' says Jebb as he eyes up some of the Uli's most daring runs in the Dolomites in Italy. And, yes, we are going on the ride.

It's a jump called the Death Star and Jeb, dressed appropriately in a black shiny Vader-esque wing suit, rips like a human bullet through the 'kill zone'.

You can't help but to feel the rush whether you agree with the danger or not. Lunacy.

-22.7°C | 9m

Another trippy adventure from genius director Jan Kounen following French DJ Molécule as he takes in musical inspiration from the Arctic. From the subtle crack of the ice to the *aurora borealis* set to techno. Stunning.



space films!



The ISS Experience: Pt IV | 43m

Everything about The ISS Experience is eye-popping. In collaboration with NASA, it's the largest production ever filmed in space and shot over two years.

The cameras were specifically designed to capture 8K 3D-360 images both inside the station and in outer space, designed to be remotely controlled from Earth.

Expand is the concluding episode of the epic four-part series from Felix & Paul Studios.

'It has given us the power to test technology, space suits, laboratory techniques ... the ability to learn how to live in space,' explains astronaut Victor Glover.

In a wilder flight of fancy the crew discuss the possibilities of the genetically-modified evolution of *homo sapiens*: 'I'd want to have a prehensile tail,' say one.

The episode climaxes with footage of the first spacewalk filmed in VR. The awe-inspiring images of the Earth from above never grow old.



The ISS Experience: Pt III | 35m

Unite is the third of the four-part series aboard the international space station from Emmy award-winning Felix & Paul Studios.

This episode explores the friendship between the astronauts 400kms from Earth, from throwing American footballs in zero gravity to a performance of an *ad hoc* mouthorgan orchestra.

Some of the optics are gloriously incongruous. In one mind-bending scene there's a game of racquet ball going on with a liquid globule being batted back and forth while someone in the background is running on a treadmill - horizontally.

As the ISS orbits at speed around the Earth there are humbling observations from a life-changing perspective: 'The Sahara is my favourite transition. It's so quick the way it changes from barren into rainforest.'

Life is a series of hellos and goodbyes and it's no different for the international group of eight astronauts.



more space films!



The ISS Experience: Pt II | 33m

Advance is the second of a four-part series aboard the international space station by the vanguard of VR filmmaking, Félix Lajeunesse and Paul Raphaël.

Rejoining the crew, the film zooms in on the role of women and astronauts Anne McClain and Christina Koch pay tribute to Jerrie Cobb, blocked by Nasa from her own space flight 50 years earlier.

'Science is organised curiosity' declares Anne, as Christina tends to her precious mizuna greens growing incongruously amongst the tech.

The largest production ever filmed in space yields lovely intimate moments and a spectacular upside-down group hug ends with two leaving the mission.



The ISS Experience: Pt I | 28m

A very human look at a very alien environment, Adapt is the first of the four-part series. Floating through a mass of wires, tunnels, tubes and laptops are the four featured astronauts on the 22-year-old 'outpost of humanity'.

'The power of adaptation is one of the most beautiful aspects of the human mind,' declares David Saint-Jacques, as the crew get accustomed to 'micro-gravity' and the disorientation of '16 sunrises and 16 sunsets a day'.

As awe-inspiring images of the Earth pass underneath, the team tuck in to an *amuse-bouche* of brie and chutney and it's the ordinary that calls your attention. The most important place on the \$160 billion station? The bathroom.



The Overview Effect | 6m

The Overview Effect is a cognitive shift in awareness reported by some astronauts during spaceflight. This film tries to recreate the effect to stimulate an 'instant global consciousness' and a desire to protect the planet.



more space stuff!



1ST STEP FROM EARTH TO THE MOON A VR EXPEDITION



1st Step | 11m

There's just so much to take in. Orbiting and standing on the moon with photo-realistic lunar panoramas based on Nasa data. Crammed inside the tiny capsule with Aldrin, Armstrong and Collins. But it's the phenomenal view of Apollo 11 exiting Earth's orbit from an impossible standpoint that takes the breath away.

A superb narration conveys the enormity of mankind's greatest achievement. With judicious use of genuine crackling audio recordings of the time and clever use of archive footage, 1st step succeeds in transporting you back over a half a century. It's impossible not to be moved.

An incredible piece of filmmaking from Faber Courtial. One of the greatest docs ever made about the moon landings.



2ND STEP FROM MOON TO MARS AND BEYOND A VR EXPEDITION



2nd Step | 14m

An imaginary journey into the near future, 2nd step takes you to the Shackleton-Crater on the dark side of the moon, flying over the lunar base that will be the jump-off point for the mission to Mars.

One lunar night is equivalent to 14 back on Earth, seen as a fragile blue crescent hanging in the blackness of space.

Orbiting the red planet, you are soon standing with the golden-helmeted astronauts on the surface of the Martian desert, gazing open-mouthed at the edge of the deepest canyon in the solar system.

And in a fantastical finale, the search for a second Earth takes us to an unknown exoplanet, in what would be 'the greatest discovery that man could make'. Epic.

The Spacewalker | 4m

There's a blizzard swirling around the launchpad of the Voskhod 2 rocket as it prepares for blast off in March, 1965. Step into the shoes of Soviet cosmonaut Alexei Leonov as he becomes the first human in history to float freely in space.



even more space stuff!



Space Explorers: A New Dawn | 19m

Perhaps it's the Russian-language course that young US astronaut Jeanette J. Epps is taking that best illustrates the post-Space Race world she grew up in.

Unity and co-operation seem a pretty good course of action seeing as the survival of the human race depends on it, as 'either we will have destroyed the Earth or the Sun will have blown up'.

The interview-led narration follows the training of a new class of deep space explorers from being lowered into a swimming pool - sorry, 'Buoyancy Lab' - to flying in the cockpit of a T-38 jet. There's even a moment that you realise that you are watching someone train using VR - in VR. From Felix & Paul.



Space Explorers: Taking Flight | 20m

Beginning on the launch pad of SpaceX, you could be forgiven for thinking this will be a dive into the egos of tech billionaires Bezos, Branson and Musk.

Instead we are soon surrounded by bleating Mongolian camels in the Kazakhstan desert, site of the world's largest space launch facility, to witness various awe-inspiring rockets thunder into the sky.

This episode is mostly narrated by kindly Russian cosmonauts, undergoing training for missions to the International Space Station. The overwhelming message is of civility. Thankfully directors Felix & Paul placed the cameras by the side of, and not on, the centrifuge simulation.

Home Planet | 8m

An eight minute orbit of the Earth, all one shot, taken from the Cupola of the International Space Station. It's as simple as it is profound. Play spot the country as our world rotates on its axis. Mesmerising and sobering at the same time.



underwater films!



Immerse | 9m

Poetic, educational and affecting, Immerse is simply the best 360 underwater film out there.

Look right down the mouth of a manta ray, go eye to eye with green sea turtles and dive with shoals of red snappers and grey sharks among the coral reefs of Palau. The film is mixed with exquisite animations of coral polyps and mass coral spawning on the full moon.

It's made by Hydrous, a non-profit which raises ocean awareness and scientific understanding, led by marine biologist Dr Erika Woolsey.

As she says: 'When you see the beauty and the magic of the ocean this closely how could you not want to protect it?'



Polar Obsession | 7m

National Geographic photographer Paul Nicklen traverses 550 miles of the roughest seas in the world to reach Antarctica. 'It's like you are entering this dreamland and the dream is real,' he says.

Floating like a speck amongst the spectacular icebergs, he has a close encounter with a humpback whale before meeting the star of the underwater show - a 12 foot long leopard seal, 'bigger than a grizzly bear'.

After some dramatic threat displays, the seal decides to show just how good he is at catching a penguin.

It's an astonishing and unique hunting sequence captured at the very edge of the South Pole.

AirPano Jellyfish Bay | 3m

From the Russian hi-res film specialists AirPano comes a short but breathtaking dive into a smack of thousands of jellyfish in Raja Ampat, Indonesia. Recorded in 8K by Alexey Tishchenko with a simple musical score.



more underwater films!



Dive Blue Planet VR | 9m

Diver Tiare Boyes narrates in real time as you plunge into the green seas of Canada in search of the world's largest octopus.

In between gulps of air, Boyes directs your gaze with her torch and her patter as she swims through the emerald underwater kelp forest. After pausing to show off an enormous wolf eel, it's time for the star, the Giant Pacific Octopus.

Camouflaged, and at almost 10 metres long, it emerges right in front of your eyes. It's a nocturnal carnivorous predator and as smart as a house cat.

This is classic BBC Natural History Unit writ large in VR. It's a guided safari that even has time for a sea lion cameo, as a young male comes in to have a look.



Dolphin Man: Dive | 6m

'I have a relationship with the depths - cold, dark, vacant, pressure,' says William Trubridge, a quietly-spoken free diver.

Just a lithe body in a wetsuit with no oxygen, he descends vertically into the bluest of Blue Holes, where he's achieved many of his 14 world records.

Trubridge has gone eight minutes without breathing and broken through the 100 metre barrier without fins.

Directed by Benoît Lichté, Dive is one of a trio of films with Dolphin Man. Darker and darker, we head into the depths.

'Gases play tricks on your mind,' he says, as he reflects on the dangers and his own calmness in the face of them. And, breathe.

700 sharks | 7m

A heart-in-the-mouth glimpse at the largest gray reef shark pack in the world in French Polynesia. It's daytime, when the 'wall' of sleek torpedoes remains static, hours before a feeding frenzy to gorge on groupers you can only imagine.



smörgåsbord!



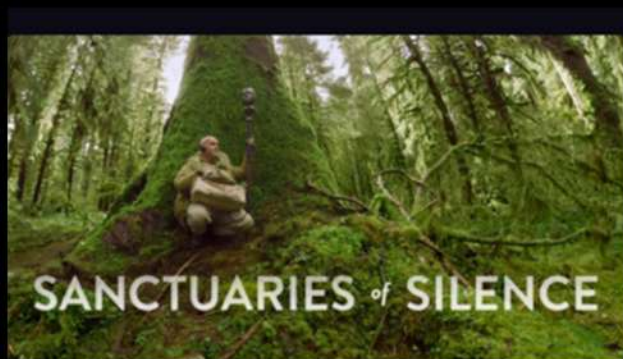
Okavango Experience | 4x6m

'That first moment sitting by myself on the Okavango Delta was the most profound moment of my life. It is, to me, a wilderness beyond comparison.'

Biologist Steve Boyes is a evocative and passionate narrator in this wonderful film made in 2017 for National Geographic.

The Okavango Delta is a vast wetland in Botswana, an oasis in the middle of the Kalahari desert, where the sounds are almost as impactful as the optics.

Not only does the film offer extraordinary experiences with zebra, lions and elephants, you get a real sense of being part of the expedition as the crew head out on canoes into one of the last untouched wildernesses.



xrmust.com

The go-to site for immersive storytelling, this is an encyclopedia of films and animations with over 7,000 catalogued.

XR is a catch-all term to refer to virtual, augmented and mixed reality. It features extensive interviews with innovative directors and industry leaders from across the world.

Find out about all the latest offerings premiered at film festivals. Many festivals have paid and free passes to watch content for a limited period.

Press Watch covers news of interest to the VR sector and there's details of upcoming summits and seminars. All-in-all it's a one stop shop for non-gaming news and views. Highly recommended.

Sanctuaries of Silence | 7m

Join legendary acoustic ecologist Gordon Hempton as he documents the last places on Earth absent from human noise. Here he explores the Hoh rainforest, one of the quietest places in North America, home of Pacific treefrogs and spotted owls.



gallimaufry!



Conquest Of The Skies | 3x7m

The beauty of a snow white barn owl bearing down on its prey, drifting along a riverbed with dragonflies, a spectacular animation of a prehistoric *terrasaurus* ... you know what you are getting with blue chip BBC productions.

This is a three-part series of shorts - Rivals, Victors, Vanguard - following the evolution of creatures in flight from insects to flying lizards to feathered birds.

I'm breaking my own rule here of not featuring VR180 films (I'm a 360 purist) because, well, it's David Attenborough. It follows on from others previously released - MicroMonsters, Kingdom of Plants and First Life - all in collaboration with Alchemy Immersive.



Behind The Dish | 3x12m

The Michelin star of this trio of female-led foodie films from Targo could go to the exquisite close-ups of the dishes but the real treats are the sensitively told human stories behind them.

Chiba is a sushi chef, picking out the best produce before dawn at the fish market and climbing a mountain to get wasabi root. Her passion for her craft wasn't forthcoming until some news gave a new meaning to her life.

Deborah makes 'soul food'. 'When I started in this industry I had three strikes against me - that I'm black, a lesbian and a woman,' she says.

Helene goes on a journey that takes her from Paris to London and top billing.

Missing Pictures | 5x9m

Missing Pictures is a collection of stories by five directors about projects that never made it to the big screen. Each short is narrated by the director who are filmed in volumetric capture and integrated into the animation.

REFERENCE!



BABY STEPS!

ABSOLUTE BEGINNERS! GETTING STARTED OUT OF THE BOX!

I just got it out of the box, now what do I do?! Turn it on by doing a short press of the button on the right side of the headset. You can turn it off by doing a long press! It'll go into standby on its own.

Download the Meta Quest app to your phone! You have to pair it with your headset via bluetooth.

Set up your Meta account! The requirement to link to a valid Facebook account was removed in August 2022. Enter your bank details and off you go!

WTF does that mean?! It's an alphabet soup of three-letter acronyms out there! Check out the glossary!

HAND TRACKING!

Turn it on! Watch the 'Hands' video tutorial pre-installed in your apps to learn how to do the basic gestures. Make sure you have plenty of light and contrast! Turn on Direct Touch to Tap and Swipe.
[settings > movement tracking > hand tracking](#)

Set up your Guardian boundary! Clear some space in your room and follow the tutorial in the headset. Be careful and aware - don't faceplant the fireplace or tread on your cat!

The Oculus button is your best friend! See that one marked with ? It's the one that is depressed under the joystick on the right controller. A long press will always re-centre your view and a short press will exit any app back to the menu.

Charging! The green light means it's fully charged (you get about two hours), orange is charging, white in use and red when there's only 10% left. You can leave it charging without damaging the battery.

\$30 REFERRAL CREDIT

Get \$30 credit to spend in the store if you buy a new Quest 2 using a referral code. Anyone who owns a headset can give you a referral code and receive \$30 themselves. You can give or receive referrals on the Metadog site [here](#).

CUSTOM HOMES: MAKE YOUR QUEST 2 HOME YOUR OWN!

Your **virtual environment** is the default area when you start the headset or exit an app. You can choose passthrough as default (toggle the mask symbol in quick settings), or from one of a dozen spaces like Winter Lodge or Ryokan Retreat.
[settings > virtual workspace > virtual environment](#)

You can invite other users into your space and jump into games together or watch 360 films. Once the menus are closed you can teleport around your home. There are loads more Custom Homes on Sidequest. View and install them directly from the in-VR app.

TIPS AND TRICKS!

BASICS: LENSES, GUARDIAN, PASSTHROUGH & IPD!

Look after the lenses! Never leave them exposed to sunlight, even for a few seconds! Never clean the lens with anything but a lens cloth (your t-shirt can scratch them). I keep mine turned away from the window and always have a cloth on hand. Or use a lens protector when not in use. A few arena-scale games require large spaces. It's safe to use the Quest 2 outside as long as you don't allow sunlight direct on the lenses. For tracking reasons it's best to play at dawn or dusk or in a floodlit area.

Set your IPD! IPD is the distance between your pupils (interpupillary distance). Once you get this dead on, it makes a world of difference - no more blurry edges! It's fixed at 58/63/68mm options on Quest 2, but you can manually force in-between settings. You can use a ruler and a mirror or the quest IPD app on Sidequest.

Passthrough! Enable this in settings so you can double-tap on the side of your headset at any time. You can also choose to have it as your home environment. Look for the eye icon toggle in quick settings.

[guardian > general > double tap for passthrough](#)

Motion sickness! If you are new to VR avoid games marked with 🌀 this symbol in the guide until you get your VR 'legs'! Play in short sessions. If you feel sick stop playing immediately and don't try to 'power through'.

Setting the guardian boundary! It's a necessary evil but you can make it better. Lower roomscale boundary sensitivity in guardian settings to avoid more immersion killers. You can adjust four levels which trigger virtual walls depending on distance or movement. [guardian > roomscale > boundary sensitivity > advanced](#)

With the stationary boundary the virtual walls are replaced with passthrough. You can even switch the guardian off entirely in developer mode (you must create an account first) at your own risk! [system > developer > guardian](#)

With room mapping you can mark out your walls, doors and windows. Add a sofa, desk or other rectangular object. [experimental > room setup](#)

Add a keyboard (Magic Keyboard) [virtual workspace > keyboard](#)

Switch on Space Sense to detect the movement of people or animals [guardian > roomscale > space sense](#)

Stick drift? After prolonged use your controller may suffer from drift. Try blowing in compressed air (a camera dust air pump will do) or use an electrical contact cleaner like WD-40 contact cleaner (not lubricant!). You can also make adjustments in settings [devices > controllers > thumbstick range and deadzone](#)



TIPS AND TRICKS!

RECORDING, CASTING, MULTI-USER & APP SHARING!

Recording video! To record in 16:9 aspect ratio first turn on the advanced camera settings

[experimental](#) > [advanced camera settings](#)

Then you can tweak your settings to record with a frame rate up to 36 fps and bitrate up to 20 mbps with optional image stabilisation. You can also turn off the red dot recording/casting light

[system](#) > [camera](#)

Casting! Find it under the camera app on the headset. Many TVs aren't compatible. One fail-safe method is to cast to a phone and then connect that to the TV via HDMI with an adaptor.

Monthly firmware updates! These are automatic and roll out at different times across different regions. You can read the release notes [here](#).

ACCESSIBILITY: VR FOR ALL

Hearing loss Adjust left-right audio balance and switch between mono or stereo [accessibility](#) > [hearing](#)

Colourblind Apply a display filter to help distinguish colours [accessibility](#) > [vision](#) > [colour correction](#)

Wheelchair users Increase your height as if standing. Works across most apps. [accessibility](#) > [mobility](#) > [adjust height](#)

Multi-user! You can add up to three other accounts in addition to yours on a single headset. Switch between them by clicking on your profile. It's useful to keep game progress save settings apart. [accounts](#) > [add account](#)

App sharing! Log into two Quests with the same primary account, then turn on app sharing and add a secondary account on one of them. Bingo! [accounts](#) > [app sharing](#)

Screenshots! Shortcut: Hold  and press trigger! For quick record video hold  and long press right trigger.

Troubleshooting! Only do a factory reset as a last resort. Make sure your game save data is backed up. Copy files via Sidequest and/or check cloud saves [here](#). Make sure it is switched on. [settings](#) > [system](#) > [backup](#) > [cloud backup](#)

Missing fingers Some apps that use hand tracking - like Hand Physics Lab and Waltz of the Wizard - allow you to remap your digits.

Vision loss Change the text size for the universal menu and supported apps. [accessibility](#) > [vision](#) > [text size](#)

Controller vibration intensity Reduce haptic feedback [accessibility](#) > [mobility](#) > [controller vibration](#)



EASY EXPLAINER!

WHAT IS APP LAB?

A WORLD OF HIDDEN GEMS!

Find all the apps [here](#), [here](#), or [here](#).

App Lab isn't an app or a site, it's a label. You don't have to download anything. All it means is games that haven't yet been given the official seal of approval.

You can find them all on the official store but they are 'hidden'. In other words, they aren't promoted and you can only search for them using their exact name.

Much easier than that is to go to any of the sites that collect all the App Lab games in one place (see above). Then they will link you back to the store where you can download them just like you would any other title. Easy, right?

WHERE TO WATCH FILMS & ANIMATIONS ...

INSTALL THESE FREE APPS!

Films and animations can be viewed on [meta quest tv](#) or one of these apps



VR ANIMATION PLAYER



The app [within](#) has closed down but you can watch on [youtubeVR](#) on the [withinVR](#) channel. [veer](#) appears to be currently unavailable although still listed and works if already installed.

WHAT IS SIDEQUEST?



STEP-BY-STEP GUIDE

Follow the tutorial [here](#)

It's never been easier use **Sidequest**. It was set up as an alternative to the official store before App Lab came along so you'll find a *lot* of crossover. There are still some gems here though (and you can mess with some of your Quest 2 settings).

Sidequest requires a one-time PC set-up. Put the Sidequest Easy Installer on your headset (see link above) and open in 'unknown sources' at the bottom of the drop-down menu 'All' or 'Installed'.

Then you'll have an in-VR alternative store! Just download and install the titles you want. They will all appear in 'unknown sources'. This is perfectly safe and the creators of Sidequest work with Meta.

You'll have to create a developer account to use Sidequest. Don't be put off - it's ridiculously straight-forward. Follow the tutorial linked above.

PARENTAL GUIDANCE

QUEST 2 FOR KIDS? WHAT YOU NEED TO KNOW!

There are a host of positive reasons for children and young people using VR from educational and creative apps to just having some good old gaming fun. The info here is not meant for scaremongering, just practical advice about issues to be aware of.

It can be physically dangerous being blind with a headset on, running into walls, smashing hands (and TVs!). Of course the device has a visual boundary system but when playing popular kids games like **Gorilla Tag** that spatial awareness can literally go out of the window. If you can't be present as a guardian watching, it might be best to stick to stationary games.

Prolonged use can lead to strain on the neck and the device weighs half a kilo. It is not designed for children. A third-party headstrap with battery can help with comfort and weight distribution. Also, it's a contentious issue whether VR affects a child's development. You can read both sides of the debate [here](#) and [here](#).

Of course motion sickness can affect adults too but children are at a vulnerable stage. If your child complains of feeling sick remove the headset immediately. Check for comfort settings on the menu of individual apps. Use vignettes.

Games have a PEGI rating on the store as a guide to exposure to sex and violence. Be aware of the popular title **Bonelab** which has scenes of suicide and self-harm and no trigger warnings.

THE OFFICIAL LINE ...

'Meta VR Systems are not toys and must not be used by children under 13. We do not permit them to create accounts. Younger children are in a critical period in visual development. Prolonged use by children age 13+ should be avoided. It could negatively impact hand-eye coordination, balance, and multi-tasking ability.'

Perhaps the biggest concern is the same that parents face with any device that offers unfettered access to the internet.

Free social apps like **Rec Room** and **VR Chat** are an unmonitored and often toxic free-for-all mix of adults and children with avatars and voice chat. It is easy to 'friend' anyone you meet in these spaces for one-to-one interaction. The same applies for many paid multiplayer games. Read more from ConnectSafely [here](#).

Unless you are going to be monitoring your child 100% of the time there are some precautions you can take. You can lock individual apps on any headset.
[system](#) > [apps](#) > [app locks](#)

You can set up parental supervision on the mobile app. Go [here](#). This restricts access to apps that your child is not old enough to use. In dashboard view you can monitor time spent in VR, the usernames of people your child is friends with in VR and the apps your child has used.

META QUEST 3

EXPECTED OCT 2023!

Various leaks give us a pretty good idea of what the Quest 3 will look like. It is expected to be announced at Meta Connect in October.

META QUEST 3



** illustration comparing quest 2 & 3*

AT A GLANCE **\$500***

- Hi res colour passthrough
- Lighter pancake lenses
- Next gen Snapdragon XR2 chip
- Depth sensor
- Backwards compatible
- No face or eye tracking

** Estimated price*

It will be no-brainer upgrade. Three years on from the game-changing launch of the Quest 2 which sold 20 million units, the next iteration will bring mouth-watering advances.

Twice as powerful and half the size, Quest 3 should be a bigger leap than from the original Quest to Quest 2.

With a new chip set it will significantly outperform the Quest Pro and will feature the same light pancake lenses in a much slimmer model.

Like the Pro, passthrough will get an upgrade with hi-res colour cameras. Together with a depth sensor - missing from the Pro - it promises to take mixed reality to a new dimension.

Quest 3 is expected to have a 'smart guardian' to take the headache out of making a boundary by automatically scanning a room for obstacles.

It seems certain that Quest 3 will be fully backwards compatible - all Quest 2 apps will run on Quest 3 at launch from an existing library of over two thousand titles.

Meta have announced that 150 titles are in active development and 41 of those will be launch titles for the Quest 3.

The controllers are a big question mark. Will Meta sell a controller-free version that can use the Quest 2 ones or an option to use the Pro controllers for a reduced price? Or will they be bundled? Or new Quest 3 controllers? All will be revealed ...

APPLE REALITY HEADSET

EXPECTED LATE 2023!

Apple will announce their mixed-reality headset at the Worldwide Developers Conference on June 5, reports Bloomberg. What do we know about it?

APPLE HEADSET



AT A GLANCE

\$3,000*

- Hi res colour passthrough
- M2 chip
- Eye, face and leg tracking
- Realistic avatars
- Wired external battery
- 4K micro-OLED display

** Estimated price*

Apple's long-awaited debut in the VR space will be a high-end - and expensive - mixed-reality headset. Due to be announced at the Worldwide Developers Conference on June 5, it will be the company's first new hardware device launch in eight years.

So what do we know? Well, nothing concrete but there is plenty of speculation. Aside from hi-res colour passthrough and eye and face tracking which it shares with the Meta Quest Pro, its standout features are expected to be the addition of leg tracking, realistic face and body avatars for one-to-one FaceTime and a micro-OLED display.

It will be powered by Apple's own M2 chip and will require a wired external battery.

Rumoured to be named Reality One or Reality Pro it is expected to cost in the region of \$3,000. It will feature the xrOS operating system to intergrate with the mac, ipad and iphone eco-system and also serve as an external monitor.

The headset will use a combination of 'gaze' control and hand tracking. It's not known at this point whether that means it will ship without controllers - a potentially radical move.

There will be a focus on gaming, sports and workouts. It is likely to feature VR versions of core Apple apps and have its own App Store.

The device is expected to become available towards the end of 2023.

ALTERNATIVE HEADSETS

The latest headsets bring innovations and higher specs but not without cost. Quest 2 owners are likely to wait for the cheaper Quest 3, expected in late 2023

META QUEST PRO



AT A GLANCE \$999*

- Hi res colour passthrough
- Lighter pancake lenses
- Face and eye tracking
- Rear battery
- Self-tracking controllers
- Adjustable IPD

* Price cut from \$1,500 on 5/3/23

Is it a first generation mixed reality headset? A developer kit? An enterprise tool? Whatever the Meta Quest Pro is, it's not the headset that is designed to replace the consumer Quest 2.

Many of the specs - including the smaller shape with pancake lenses and colour passthrough - will be present in the Quest 3 expected late 2023. The controllers are compatible for Quest 2 and cost \$300.

SONY PSVR 2



AT A GLANCE \$950*

- 4K HDR OLED display
- Eye tracking
- Higher field of view 110°
- Finger touch detection
- Headset haptic feedback
- Tethered (and requires PS5)

* Headset \$550, PS5 console \$400

It's been called the wrong device at the wrong time at the wrong price but Sony's sequel to PSVR (2016), which launched in February, has certainly upped the ante.

It features many better specs and innovations than the Quest 2 but the huge drawback is that it is not a standalone device. Not only do you also require a PS5 - and the cost that entails - you also have to be connected by a wire.

THE BIG PICTURE

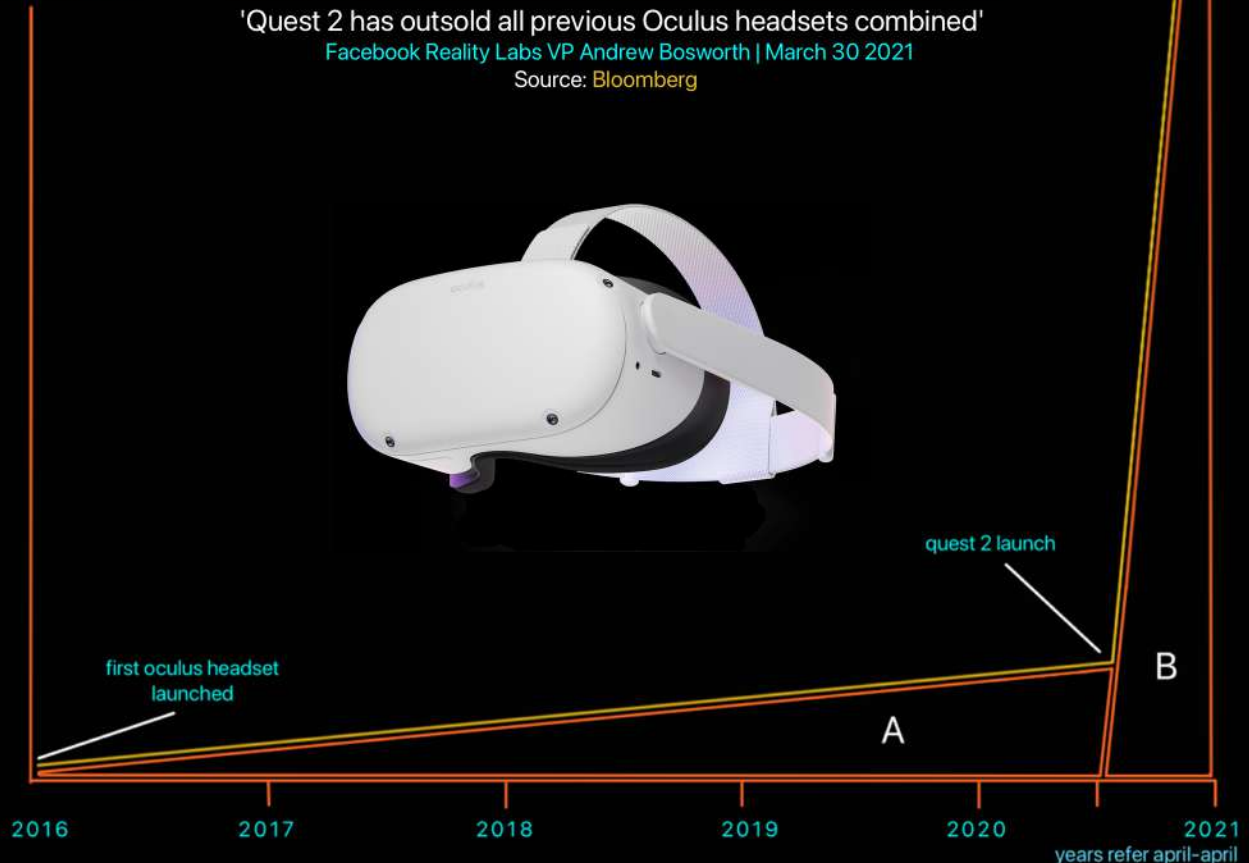
sales in millions
(figures not released)

VISUALISING THE QUEST 2 EFFECT

'Quest 2 has outsold all previous Oculus headsets combined'

Facebook Reality Labs VP Andrew Bosworth | March 30 2021

Source: Bloomberg



Methodology: The volume of triangle B (all Quest 2 sales) must be greater than the volume of triangle A (all previous Oculus sales averaged over time). The time period on the X-axis is known, creating the peak on the Y-axis.

20 MILLION*

*Estimated Quest 2 sales.
Official figures not released

Source: The Verge March 2023

1000%

Game sales are up as much as
ten-fold since Quest 2 launch

Source: Cloudhead Labs

\$1.5 BILLION

User spend on content on
the Quest store and App Lab

Source: Meta GDC March 2023

\$255 MILLION

Estimated revenue generated
by a single title - Beat Saber

Source: Wall St Journal Apr 2023

\$10 MILLION+

Revenue earned by 40 Quest 2
titles. 120 have earned \$1M+

Source: Meta GDC March 2023

2000+

Number of available apps.
Store: 500+ & App Lab: 1,500+

Source: Meta, r/applab

a brief history of vr!

A brief history of VR from 1832 to the current day. Headset (HMD) development is in **green**, cameras in **yellow** and general in **blue**.



1832

stereopsis
stereoscope



1935

pygmalion's spectacles
sci-fi story



1956

sensorama
vr booth



1968

sword of damocles
first hmd



1979

vital helmet
military hmd



1989

nasa view
astronaut simulator



1985

vpl research
first vr company



1991
virtuality
vr arcade



1995

virtual boy
gaming hmd



2010

oculus rift
prototype

facebook
buys oculus
2014

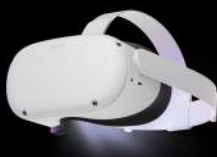


multi-camera
rigs
gopro jump
2015
gear vr
cardboard
phone hmds



quest pro
psvr 2

2022/3



quest 2

2020



quest

2019

insta360 pro 2
8K pro
cameras



2018

insta360 one x
5.7K
cameras

tethered
hmds
oculus rift
htc vive
psvr

2016

gear 360
4K
cameras



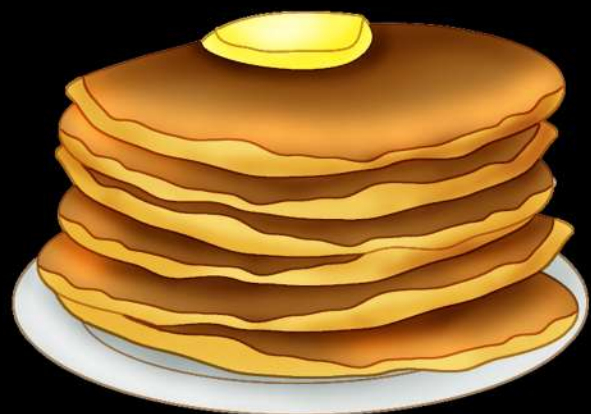
WTF DOES THAT MEAN?

GLOSSARY: KNOW YOUR CHEESE FROM YOUR PANCAKES!

vr terms | **3dof** (three degrees of freedom) restricted to following head movement **6dof** (six degrees of freedom) allows free movement **UI** user interface **FFR** (fixed foveated rendering) a way to economise processing power by keeping hi-res in the centre of your vision and lo-res at the periphery without impacting on your ... **UX** user experience! **agency** the ability to act in and influence a vr environment **refresh rate** the higher the refresh rate, the smoother the visual experience. Quest 2 can run at 120Hz **latency** the delay between your action and the headset's reaction **inside-out tracking** in-built cameras mapping your 3D space **PCVR** VR tethered to a gaming PC through the oculus link cable or wireless using the **air link** feature **HMD** head mounted display i.e. a headset **FOV** field of view - the Quest 2 is 92° horizontal (compared to our 200° -220° in real life) **XR** cross-reality - industry term for anything VR and ... **AR** augmented reality, also known as **passthrough** or **mixed reality** ... **LBE** location-based entertainment eg VR arcade **sideload** just copying files to the headset **IP** an original game (from Intellectual Property) **devs** the developers - our heroes! **metaverse** shorthand for either 'I don't know what I'm talking about' and/or 'I want to make a load of cash out of you' **mura** an ugly fog-like side effect caused by headsets that use oled displays **cel-shading** cartoon graphic style

dev terms | **hitbox** invisible shape that a game uses to determine collisions **skybox** an illusion of a 3D background created using **cube mapping** to represent six sides of textures **draw distance** the maximum distance of objects rendered. If that is low due to a trade-off with performance (frames per second) you can get **pop-in** where objects can suddenly appear or fade **AoE** (Area of Effect) that defines the range of an action usually affecting all within it **proc** when a perk activates **localisation** translating a game into multiple languages

gamer terms | **FPS** first-person shooter **wave shooter** vr space invaders genre **rail shooter** from a fixed position **jump scare** cheap horror trope **NPC** non-playing character **spawn** the live creation of a game object **god-mode** turns the game into a ... **diorama** interactive miniature **DLC** downloadable content (game add-ons) **sandbox** open-world exploration **melee** close combat **bullet hell** raining projectiles **non-euclidean** impossible spaces **virtual beings** AI artificial people **edgelords** rebel fakers **squeakers** toxic kids **roguelite** procedural labyrinths with **permadeath** ... you die, start again **lore** backstory **pancake** pejorative term for flat non-VR games **gunstock** 3D-printed controller pimping **hotas** controller pimping (from hands on throttle-and-stick) **PvP** player vs player **dojo** training area **asymmetric** VR player against non-VR player **loadout** the weapons you choose to take into battle **mech** fighting machine you drive **f2p** free to play **QoL** fixes to playability (Quality of Life) **SBM** skill-based matchmaking (for multiplayer fairness) **nerf** weapon downgrade **buff** weapon upgrade **grinding** do repetitive tasks to gain ... **XP** experience points! **op** overpowered (usually a weapon) **asynchronous** offline multiplayer **cheese** to exploit a glitch **AAA** megabucks title **strat** strategy **dps** damage per second **cooldown** the wait before you can reuse ability **rng** random element



recording vr!

Want to make your own films? A decent kit now costs under US\$1,000 ...



insta360 x3
camera | US\$430
5.7K 30fps



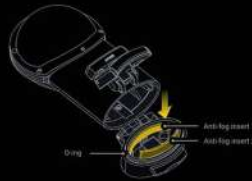
zoom h3-vr
audio | US\$250
spacial audio



manfrotto tripod
accessory | US\$180
reliability



extended selfie stick
accessory | US\$40
10ft telescopic stick
for drone effect



dive case
accessory | US\$80
underwater to 45 meters

Or go pro ...



insta360 pro 2
camera | US\$4,599
8K 30fps

editing vr!

You can do it on a phone, I use a mac



mac book pro
laptop | varies
OSX 10.15+



insta360 studio
app | free
stitching | v4.6.0



final cut pro X
app | varies
editing | v10.5.2+



**SYNCH IT
DEEP IN-EAR
PHONES \$20**



AMVR CONTROLLER GRIP STRAP Q2HP1 \$17

PIMP YOUR QUEST 2!

MICROFIBRE CLOTH



LENS PROTECTOR



3D PRINTED PADDLE



SWEATBAND



WARNING! DON'T BUY THE OCULUS ELITE STRAP! IT BREAKS.

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your weapon!**

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TERRAFORM MARS ... PLAY CHESS ... DISSECT A SHARK ...

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RANKED**

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TITLES
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**184
PACKED
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podcasts!



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puzzling places
THE MOST LOVED GAME ON QUEST!

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INTO THE RADIUS
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CRASHLAND!

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praise for the guide!

Comments from Redditors and developers. Thank you!



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'ESSENTIAL TO THE QUEST ECO-SYSTEM'

this is a **BS**-free zone!

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