Whai's ihe Tea on the Meiaverse?!

What young engineers need to know about the metaverse.

Jasmine Roberts AR/VR Engineer



Briggs-Rauscher Reaction

About Me

Q: What sparked your interest in augmented and virtual reality?

I was always intrigued by what constitutes physical reality.

The span of my academia studies:

Chemistry → Physics → Electrical Engineering

Computer Science → Design → Bioengineering

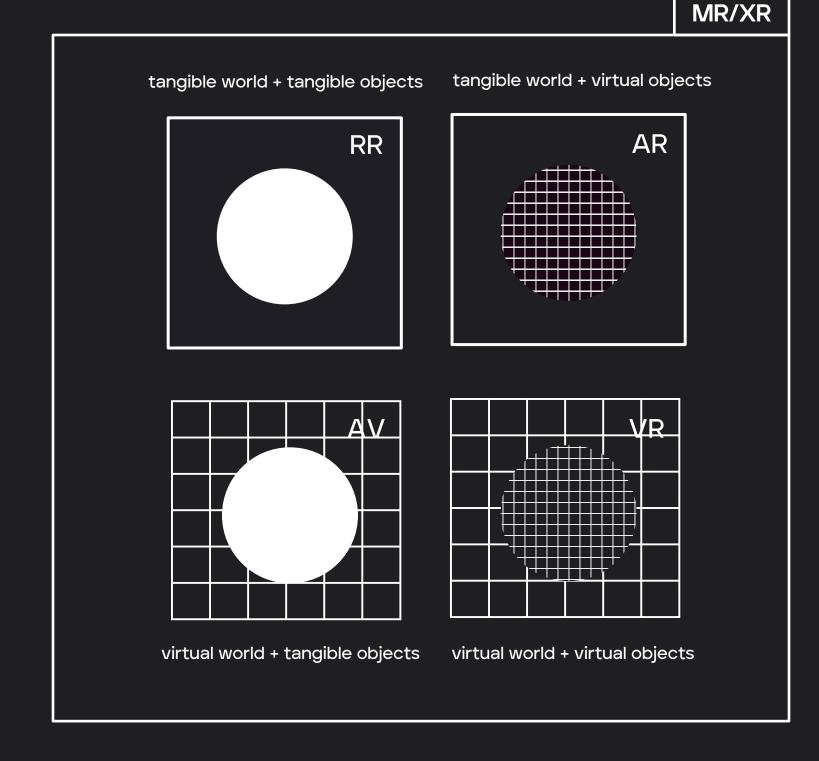
Glossary

These terms <u>are not</u> up for discussion!

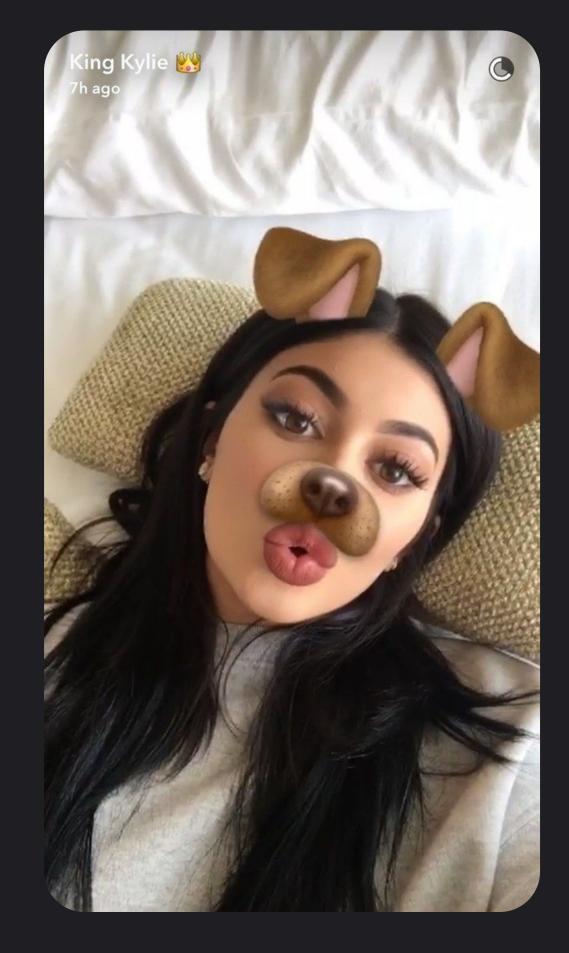
If you'd rather discuss acronyms than code, you'll fit in well on Twitter.



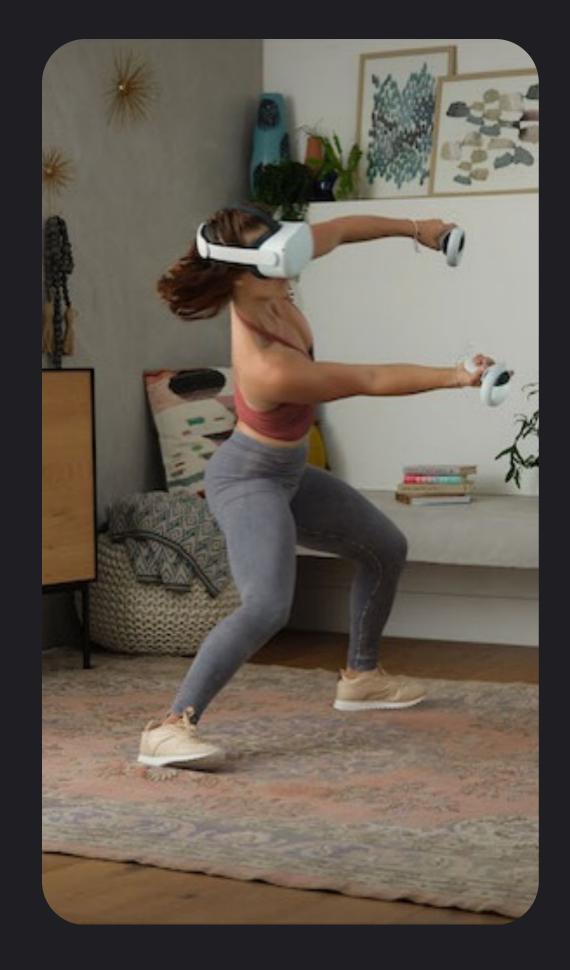
TRIGGER WARNING
It's more frustrating than Node.JS



- XR = Extended Reality, Mixed Reality
- AR = Augmented Reality
- AV = Augmented Virtuality
- VR = Virtual Reality



•••• Koodo 3G 2:04 PM 1 93% Growlithe 126



Augmented Reality - Face Filters

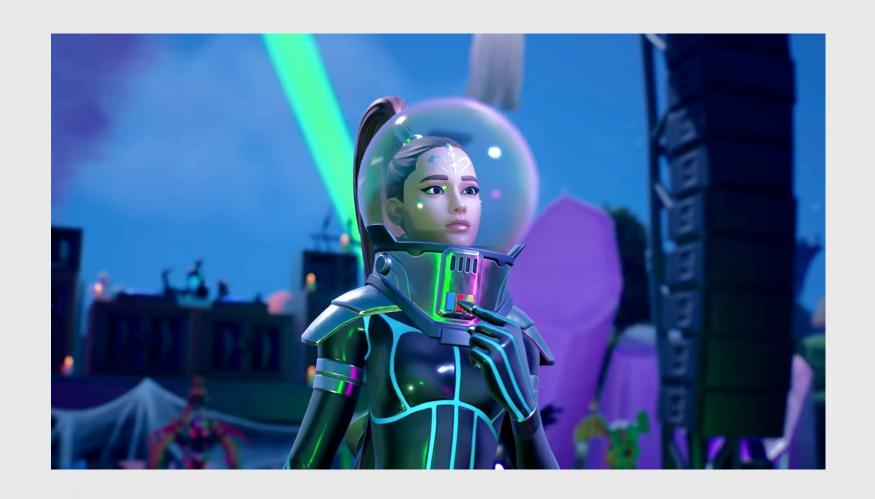
Augmented Reality - Pokémon Go

Virtual Reality - Oculus Quest

So, what is the Metaverse?

The virtual ambience? The internet in three dimensions? Alternate economies and universes? All of these terms refer to the metaverse.

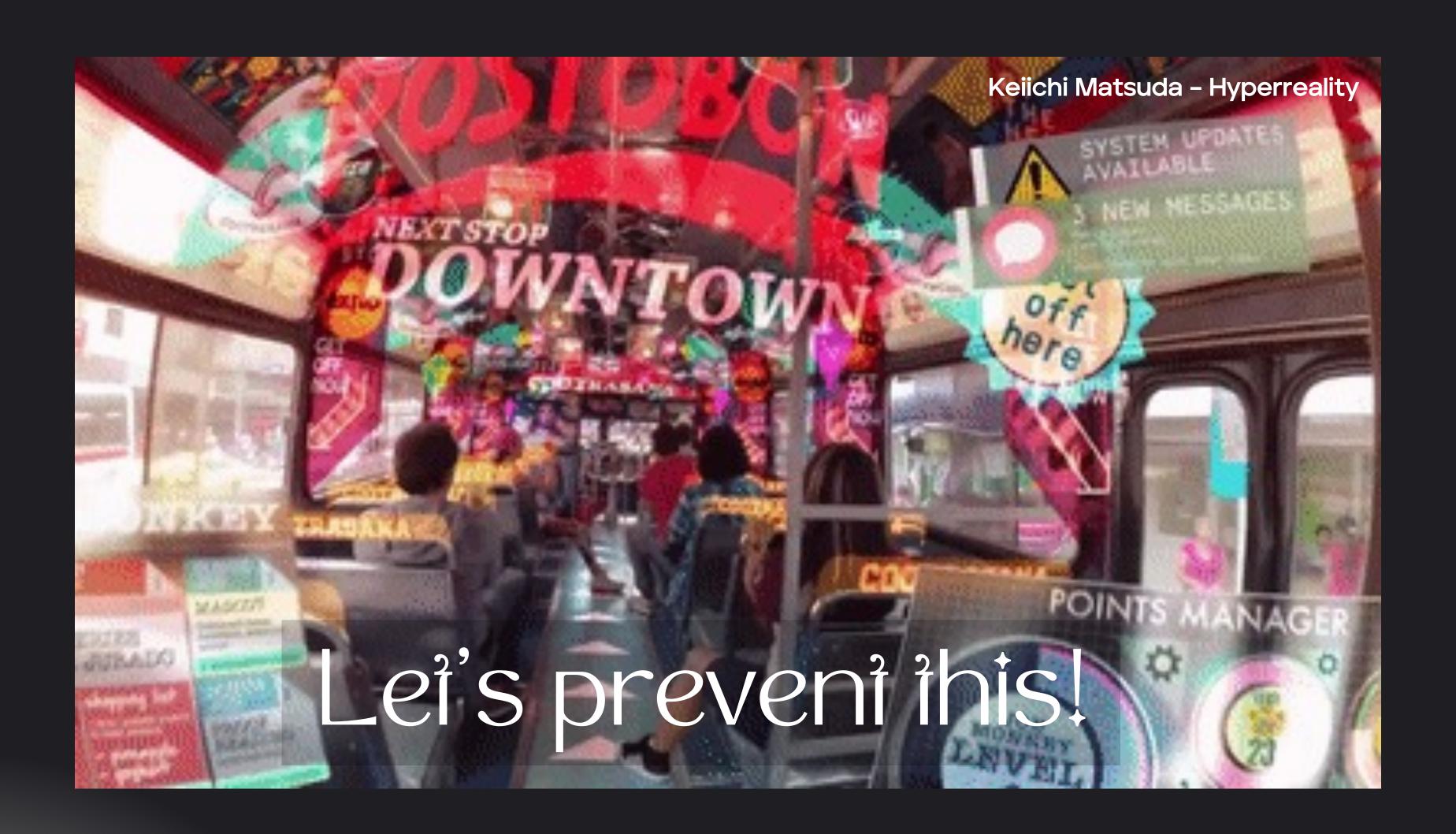
The Metaverse is not Facebook Meta!











--- What are the Rules of the Metaverse?

There is only one metaverse

The metaverse is for everyone

Nobody Controls the Metaverse

The Metaverse is Open

The Metaverse is Hardware Independent

The Metaverse is a Network

The Metaverse is the Internet



--- What are the <u>Layers</u> of the Metaverse?

Games, Social Esports, Games, Shopping

Ad Networks, Social Curation, Ratings, Stores, Agents

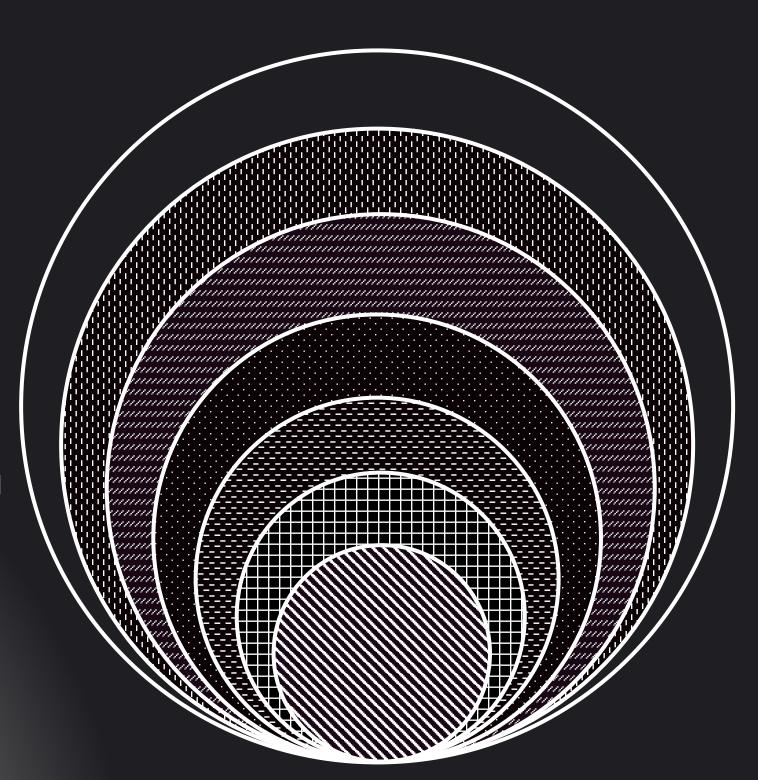
Design Tools, Asset Markets, Workflow, Commerce

3D Engines, VR/AR/XR, Multitasking UI, Spatial Mapping

Edge Computing, Al Agents, Microservices, Blockchain

Mobile, Smartphone, Wearable, Haptic, Gesture, Voice, Neural

5G Wifi 6, 6G, Cloud, 7 nm to 1.4nm, MEMS, GPUs, Materials



Experience

Discovery

Creator Economy

Spatial Computing

Decentralization

Human Interface

Infrastructure

310%

Demand for Al Engineers in 2021

— HIRED

Machine Learning Engineer, Data Scientist,
Deep Learning Engineer

1400%

Demand for for AR/VR Engineers in 2021

- HIRED

AR Engineer, Gameplay Programmer, VR Engineer, Software Engineer, AR/VR

What are the most used XR plaiforms?

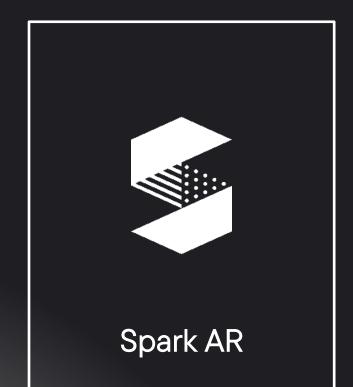
Artists
Creative Coders

Programmers

Web Developer

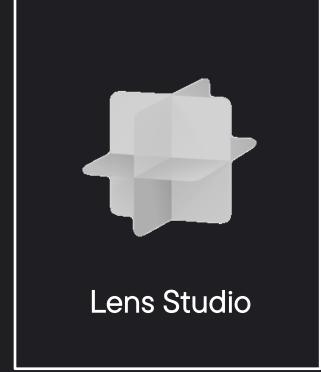
Artists
Creative Coders

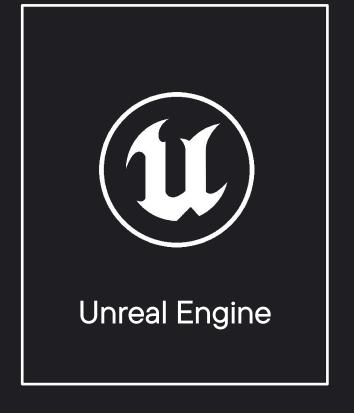
Architects/3D Artists
Programmers











JavaScript

C#

JavaScript

JavaScript

Visual Scripting C++

Bui whai aboui NFTs?

I suggest you take CS 414 Blockchain Programming.

-What other classes should I take if I want in?

ART 297

CS 240

CS 414

CS 461

CS 470

ENGIN211L

MATH 260

PHYSICS 312

PSYCH 255

Introduction to Digital Media Art

Programming in C

Blockchain Programming

Computer Games Programming

An Introduction to Artificial Intelligence

Digital Systems with Lab

Linear Algebra

Mechanics

Perception

THANKYOU! ANY QUESTIONS?

Feel free to send in any questions to jasminearvr [AT] gmail.com