Bellevue College: TELOS Program

Four Thursdays: June 6, 13, 20, and 27, 2019 10:00 – 11:30 a.m. in Room V1125

Instructor: Eric Zocher — zocherclass@gmail.com

Try Virtual Reality!

This class is a hands-on introduction to Virtual Reality and Augmented Reality. You will be using about 25 different apps on three different VR devices and one AR device. The devices and apps chosen for the class will give you a broad exposure to the current state of VR and AR.

The only way to really understand what VR is about is to experience it yourself, so we will spend about 2/3 of the class time using Virtual Reality. There will be four short lectures, one to get you started and the rest to put the experiences in context and talk about the future of VR.

Every student will be paired with a buddy for safety and assistance. The pairs of buddies will be designated Team A, Team B, and so on. You will be on the same team each week.

Class Schedule and Topics

There will be four lectures and four Try It sessions as follows:

- June 6 Lecture: Class format and schedule; Introduction to VR and AR; Using the devices
 - > Try It session #1
- June 13 Lecture: Reminders about using the devices; VR terminology; Intro to MR
 - > Try It session #2
- June 20 > Lecture: VR current landscape, near future, and potential issues
 - > Try It session #3
- June 27 ➤ Lecture: Location-based VR; Exploring further / Next steps for you
 - > Try It session #4

Try It Sessions

The teams of buddies will take turns trying a different device during each of the four Try It sessions. Eric will list the teams and which devices they will be using on the whiteboard.

Please consult the provided cards which show:

- The important buttons on the controller(s) and their functions
- How to put on and adjust the headset
- Instructions and tips on how to start and use the apps

Devices

	Device	Туре
sular to the sular	Oculus Go	Basic stand-alone VR
	PlayStation VR	Mid-range game console VR
Oursell Control of the Control of th	HTC Vive	High-end PC VR
	Apple iPad	Mid-range tablet running AR apps

Apps

Device	Apps
Oculus Go	Pixvana SPINPLAY – 360° video player Art Plunge – Animated VR paintings Wander – Virtually explore the real world

Apps (continued)

Device	Apps
PlayStation VR	PlayStation VR Worlds – Underwater experience
	Beat Saber – Rhythm slicing game
	Other games as time allows (ask Eric)
HTC Vive	Google Earth VR – Explore earth from above
	Tilt Brush – Paint in 3D
	The Lab (Valve) – VR experiments and demos
	IKEA Place – AR interior design
	Google Translate – Live language translation
	Blippar – People and object recognition
	Envolve – Animated AR coloring books
Apple iPad	Metaverse – Augmented Reality Art
	HoloGLOBE – AR Globe with Merge Cube
	Hair Color – AR Hair color swapper
	Pokémon GO – AR Real-world multiplayer game
	Washington Post – AR News stories and graphics
	Seeing AI – AR talking camera for the blind
	Sky Guide – AR Astronomy
	Just a Line – Simple AR drawing
	Car Finder – AR Car locator (parking)
	WWF Free Rivers – AR education about rivers
	Yelp – AR overlay of nearby restaurants
	Maps (Apple) – AR Map flyover
	Measure (Apple) – AR Measuring tape
	iScape – AR Landscape design
	Art – AR Preview of prints and photographs
	Notable Women – AR bios of notable women

Major VR Vendors

Oculus (Go, Quest, and Rift) — https://www.oculus.com/

HTC (Vive) — https://www.vive.com/us/

Valve (Steam Store and Steam VR) — https://store.steampowered.com/vr/

Microsoft — https://www.microsoft.com/en-us/mixed-reality

Magic Leap — https://www.magicleap.com/

Apple — https://www.apple.com/ios/augmented-reality/

Google — https://vr.google.com/ (PC VR)

<u>https://developers.google.com/ar/</u> (Android AR)

Sony (PlayStation) — https://www.playstation.com/en-us/explore/playstation-vr/

Major VR News Sites

Upload VR — https://uploadvr.com/

Next Reality — https://next.reality.news/

Road to VR — https://www.roadtovr.com/

VR Voice — https://vrvoice.co/

The Verge — https://www.theverge.com/vr-virtual-reality

TechCrunch — https://techcrunch.com/tag/virtual-reality/

Great Books



Fink, Charlie. Charlie Fink's Metaverse – An AR Enabled Guide to VR & AR. Cool Blue Media (2018)

A broad and deep overview of the current state of VR and AR and where they are headed. Covers the history, business, and social impacts. The book is accompanied by an AR app that works on phones and tablets.

Updates: http://finkmetaverse.com/#updates

Bailenson, Jeremy. Experience on Demand: What Virtual Reality Is, How It Works, and What It Can Do. W. W. Norton & Company (2018)

Lanier, Jaron. Dawn of the New Everything: Encounters with Reality and Virtual Reality. Henry Holt and Co. (2017)