

Microsoft Mixed Reality

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Windows 10

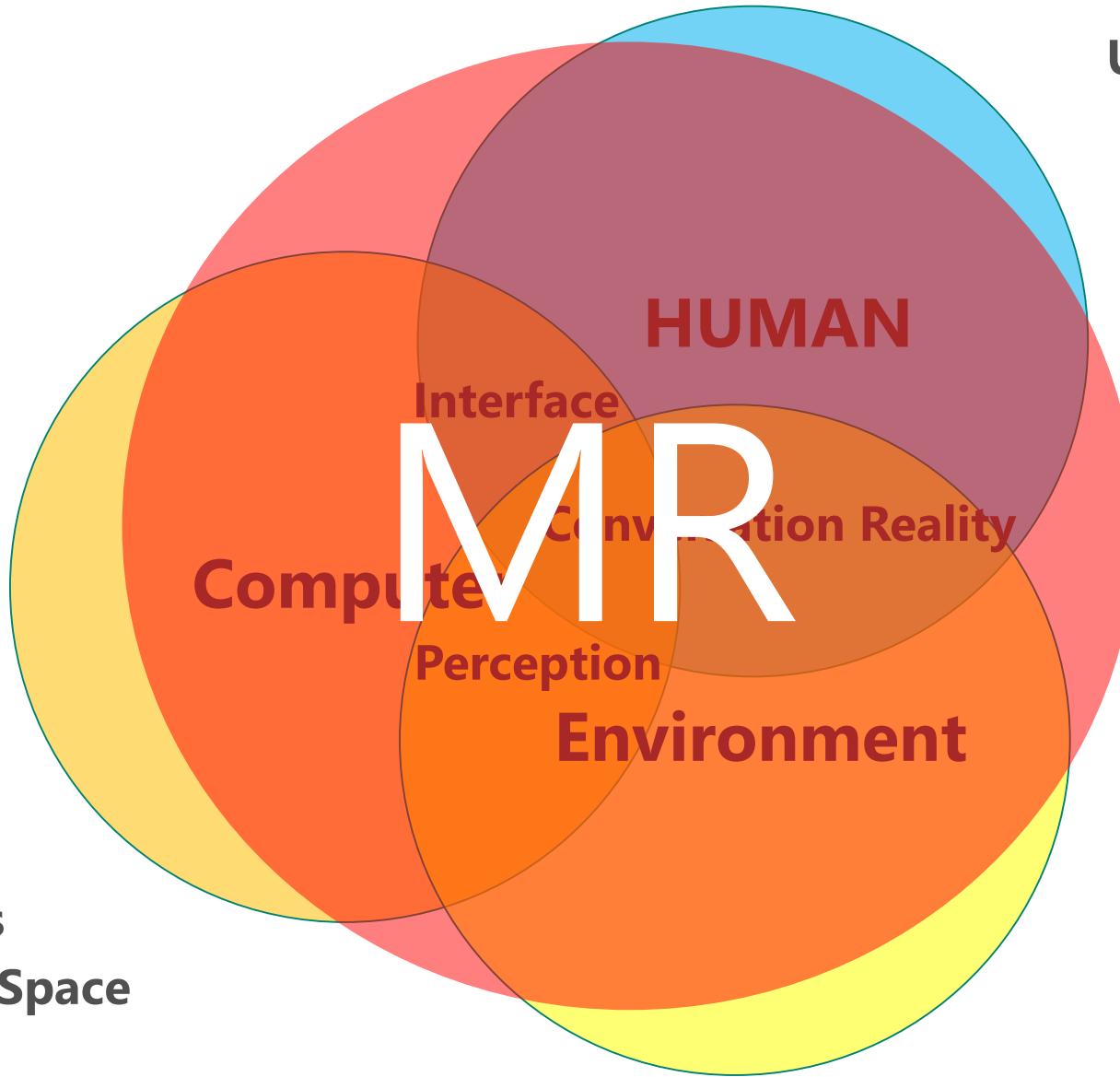


MR?

Mixed Reality



UI, UX, HCI



Sensors

Vision, Space

Sound..

Mixed Reality

Physical Reality

AR



Digital Reality

VR



Mixed Reality Spectrum

Physical Reality

Mixed Reality

Digital Reality

AR Today

VR Today

Windows Mixed Reality Holographic Device (See-through)

Windows Mixed Reality Immersive Devices (Opaque)

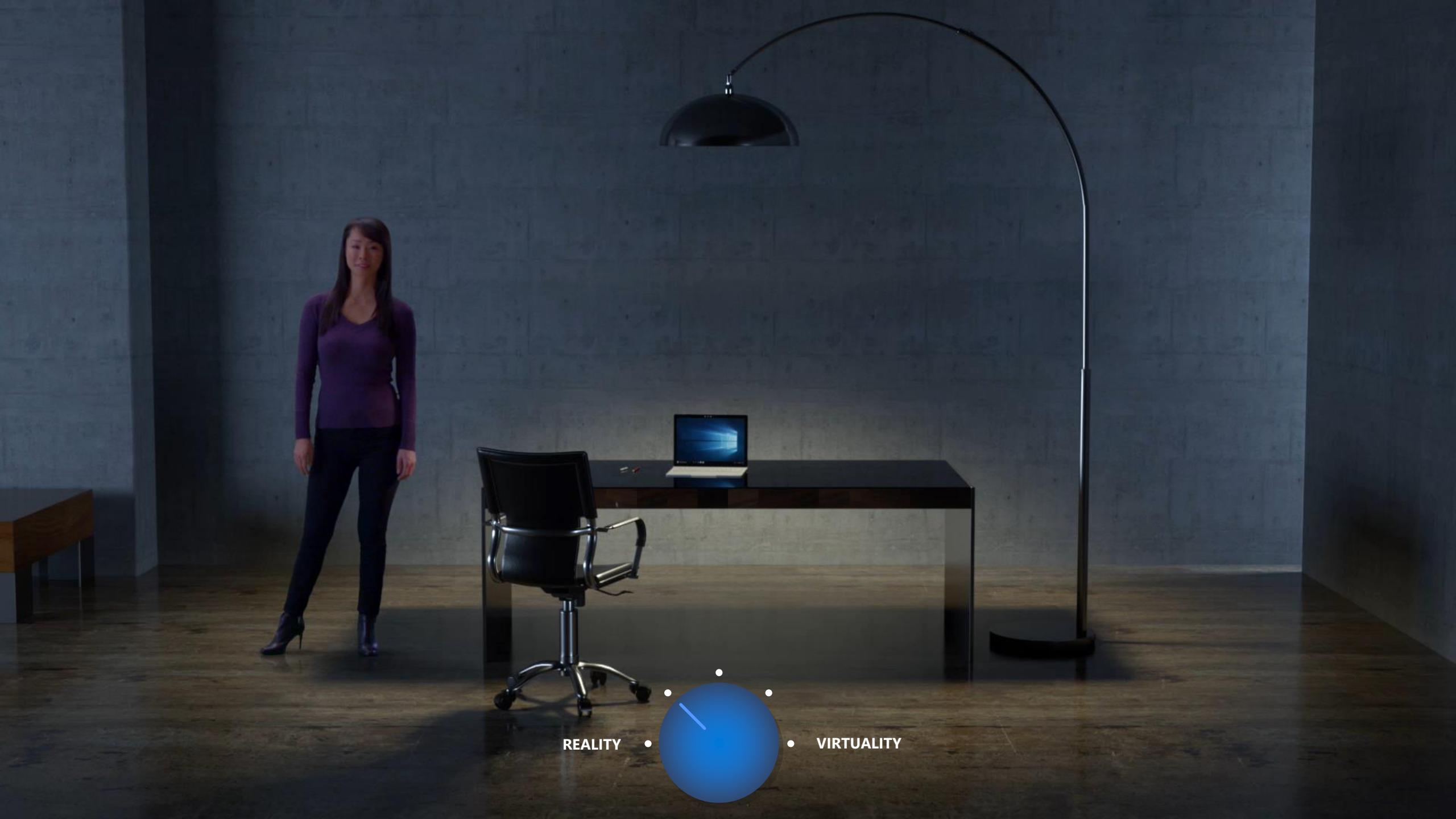
Windows Mixed Reality:

- Includes Perception / Environment Awareness
- Any Mix of People, Places, or Things



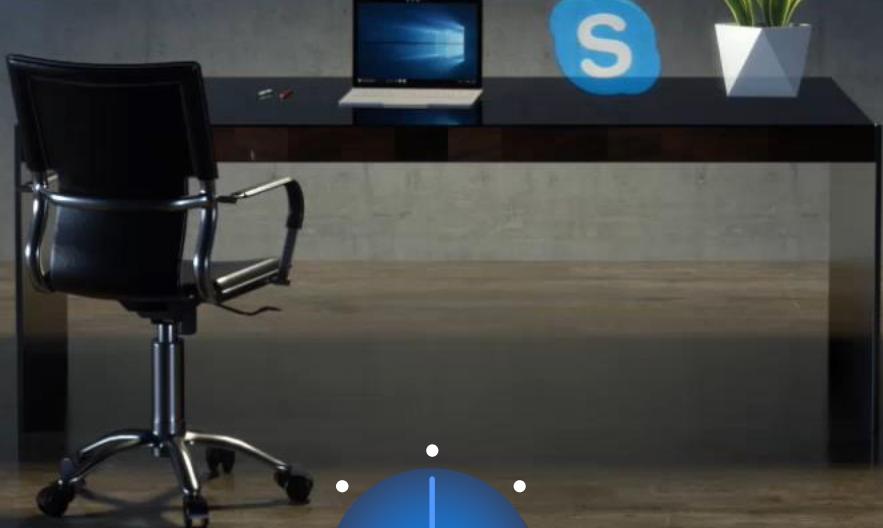
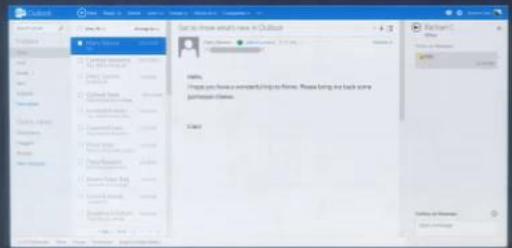
REALITY

VIRTUALITY



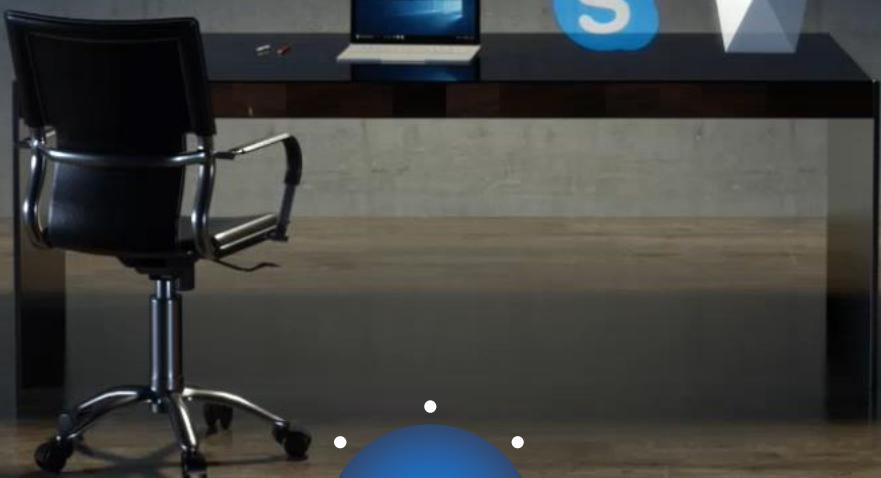
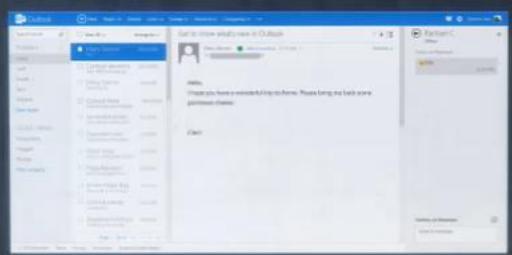
REALITY

VIRTUALITY



REALITY

VIRTUALITY



REALITY

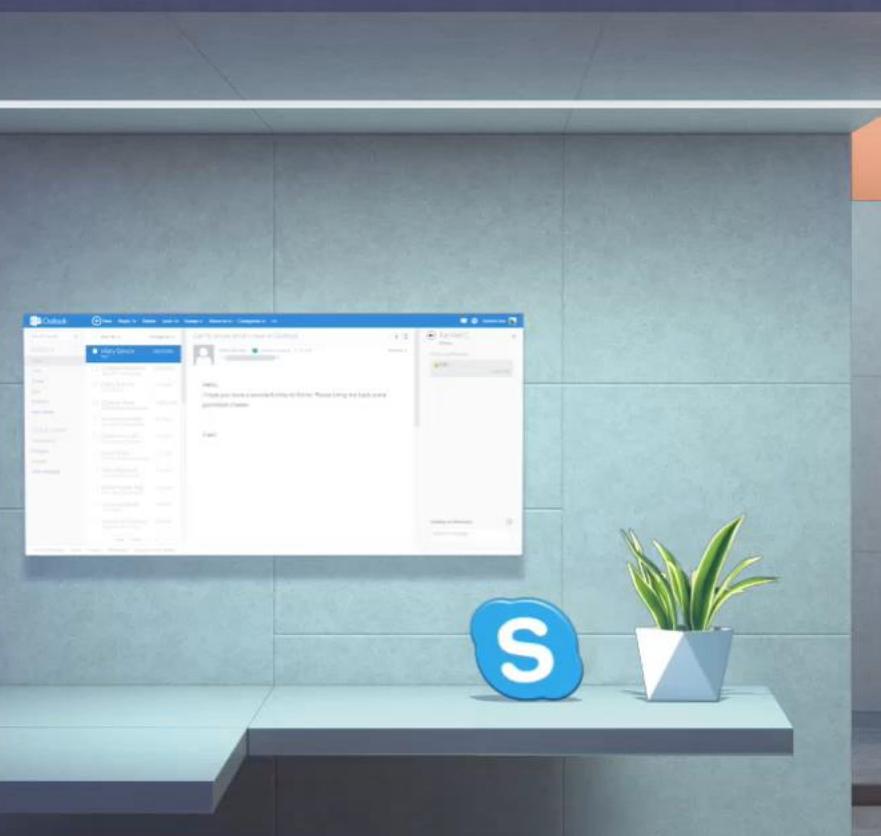


VIRTUALITY





HOLOTOUR



REALITY



VIRTUALITY





MR?
HoloLens



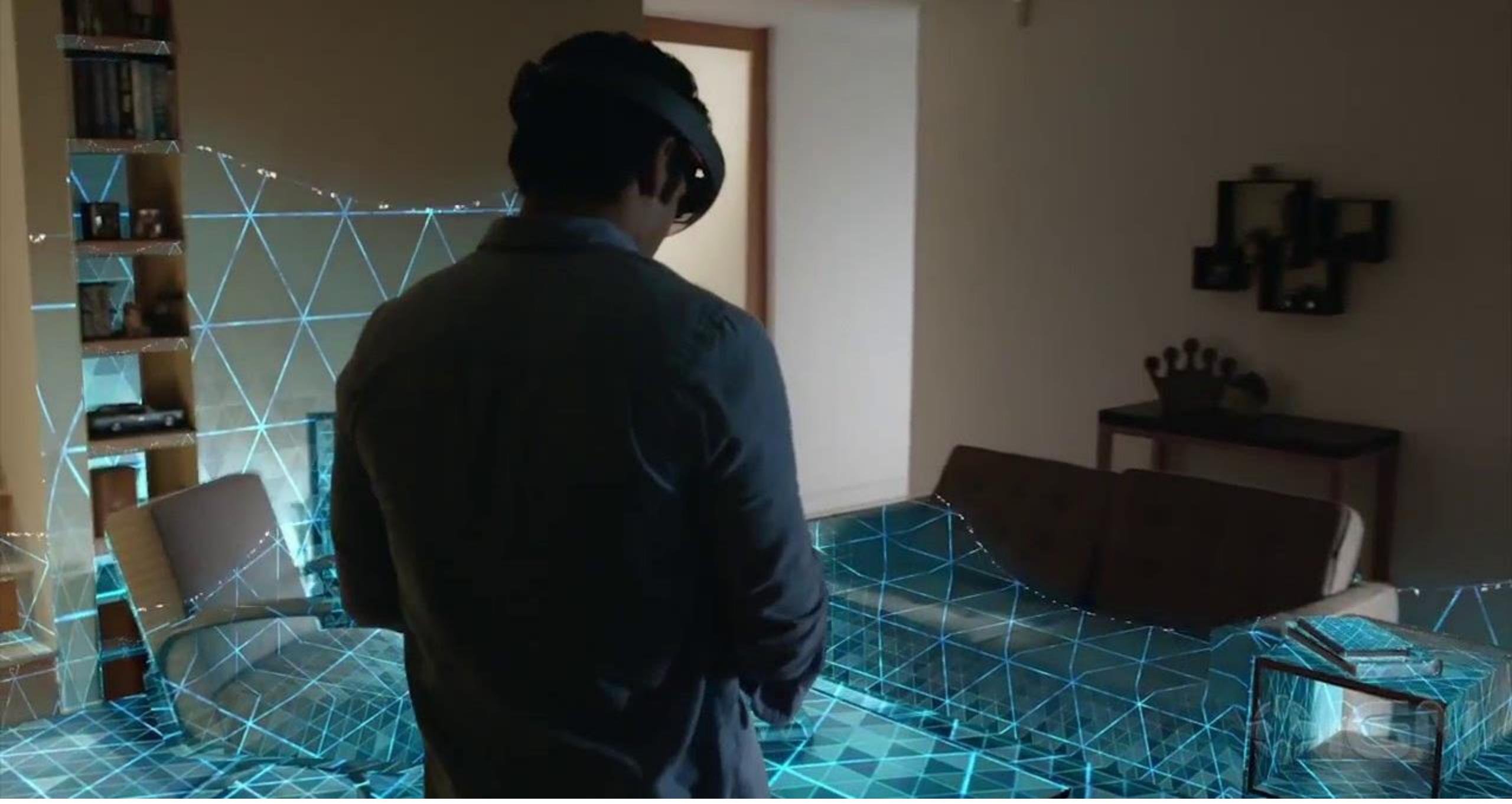
The first fully untethered, head mounted holographic computer.











Optics

- See-through holographic lenses (waveguides)
- 2 HD 16:9 light engines
- Automatic pupillary distance calibration
- Holographic Resolution: 2.3M total light points
- Holographic Density: >2.5k radians
(light points per radian)

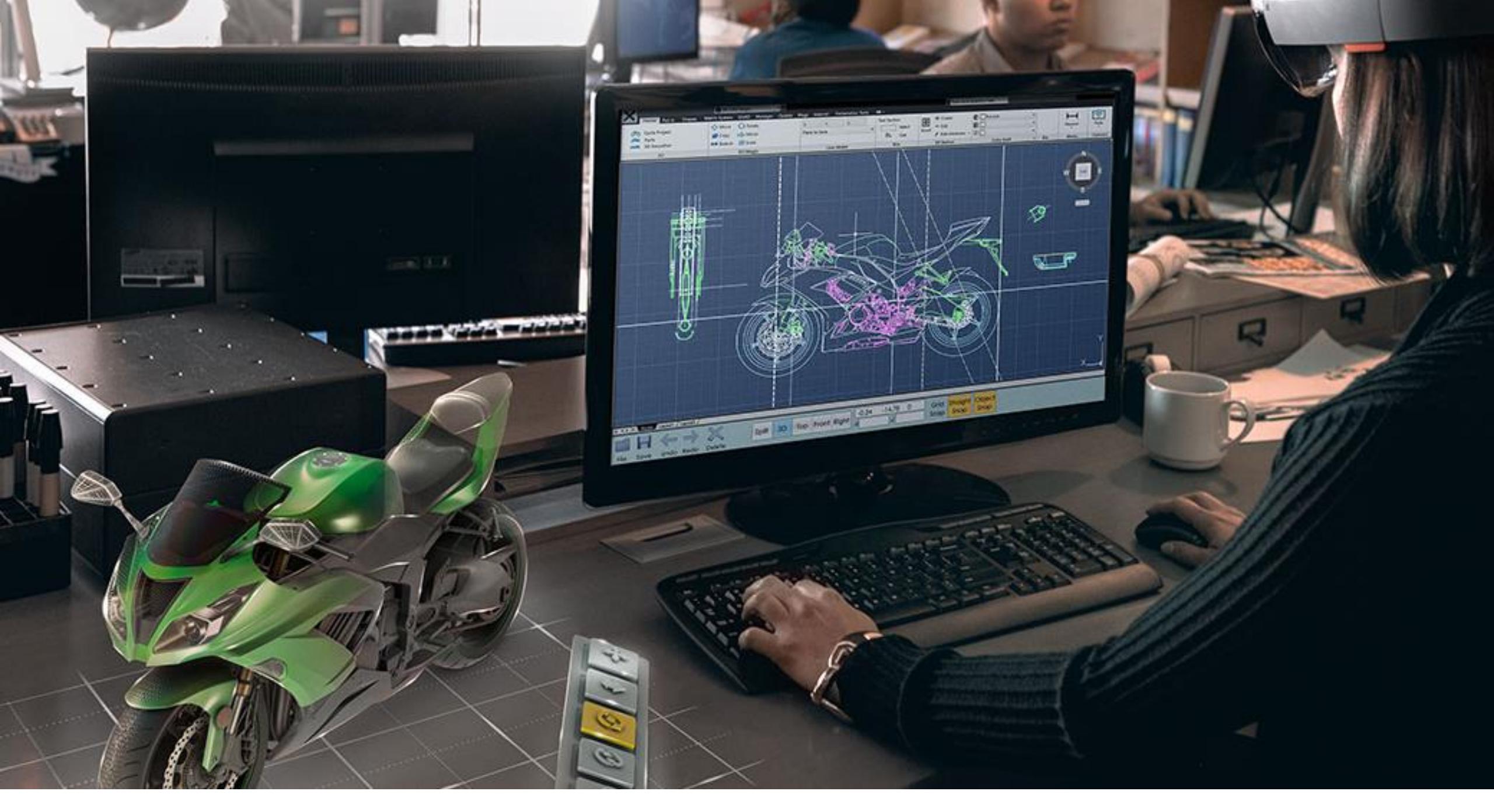
<https://www.microsoft.com/microsoft-hololens/en-us/hardware>

Processors

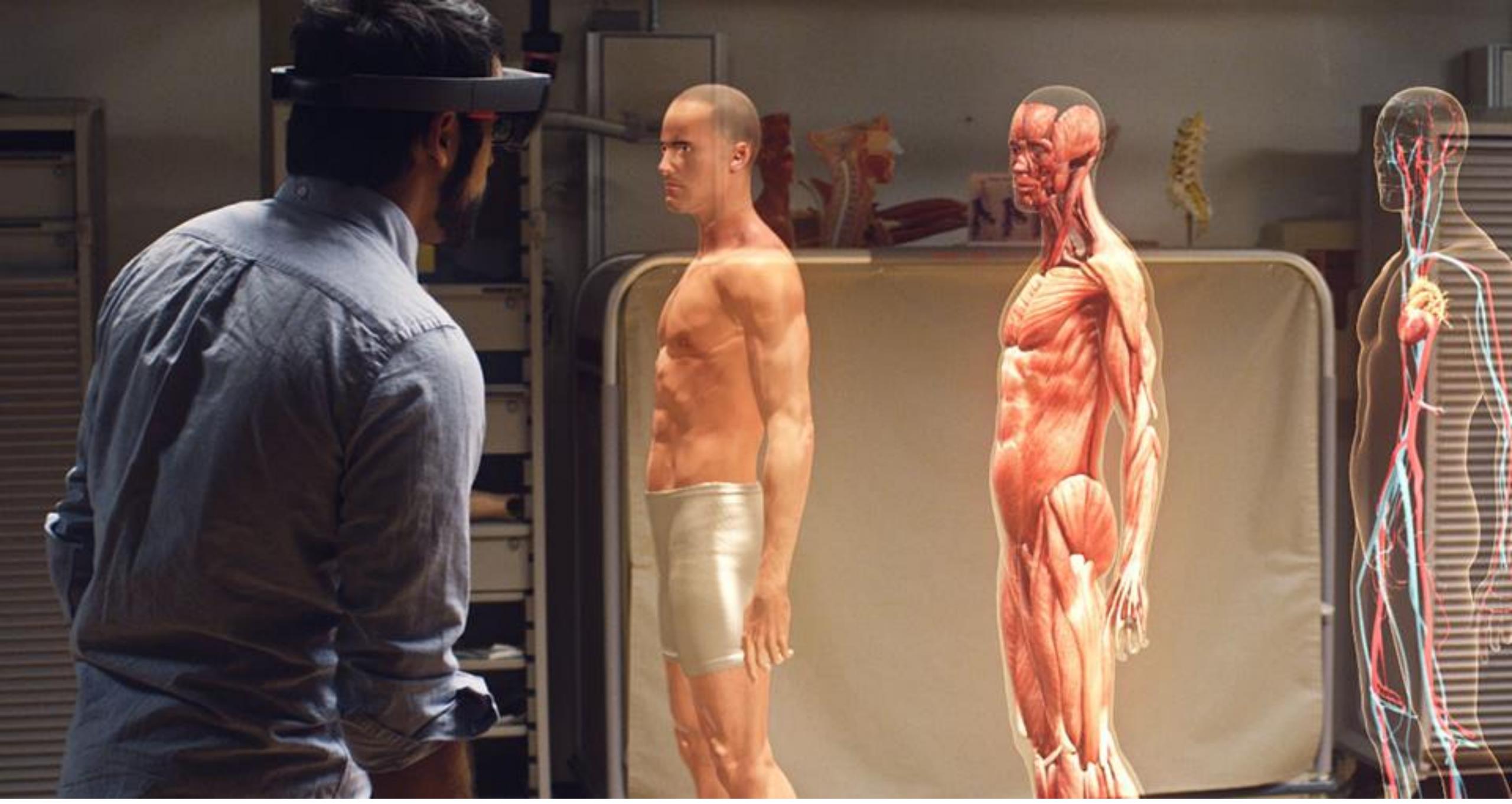
- Intel 32 bit architecture
- Custom-built Microsoft Holographic Processing Unit (HPU 1.0)

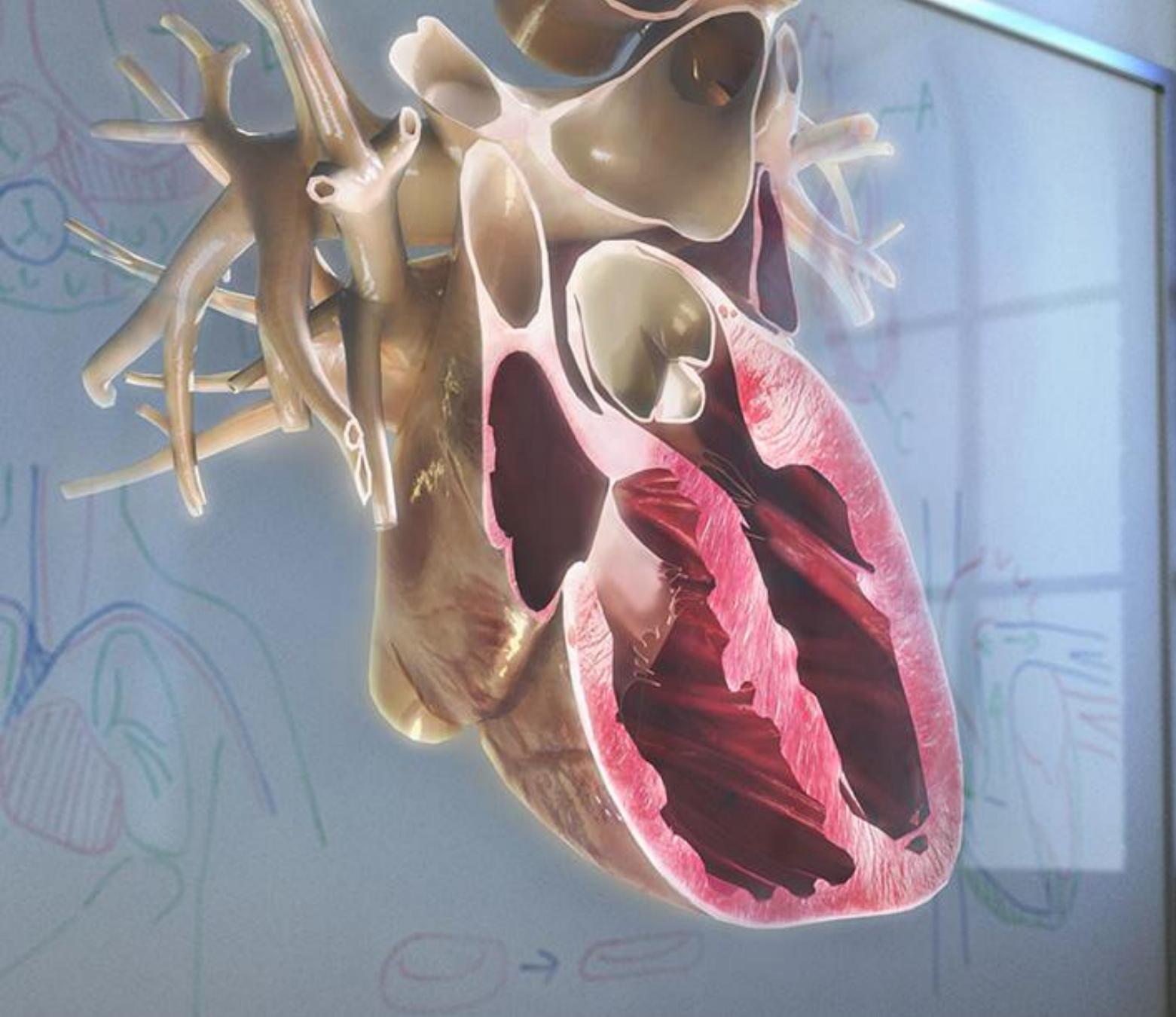
Power

- Battery Life 2-3 hours of active use
- Up to 2 weeks of standby time
- Fully functional when charging
- Passively cooled (no fans)











Welcome

— Naoko Ishino

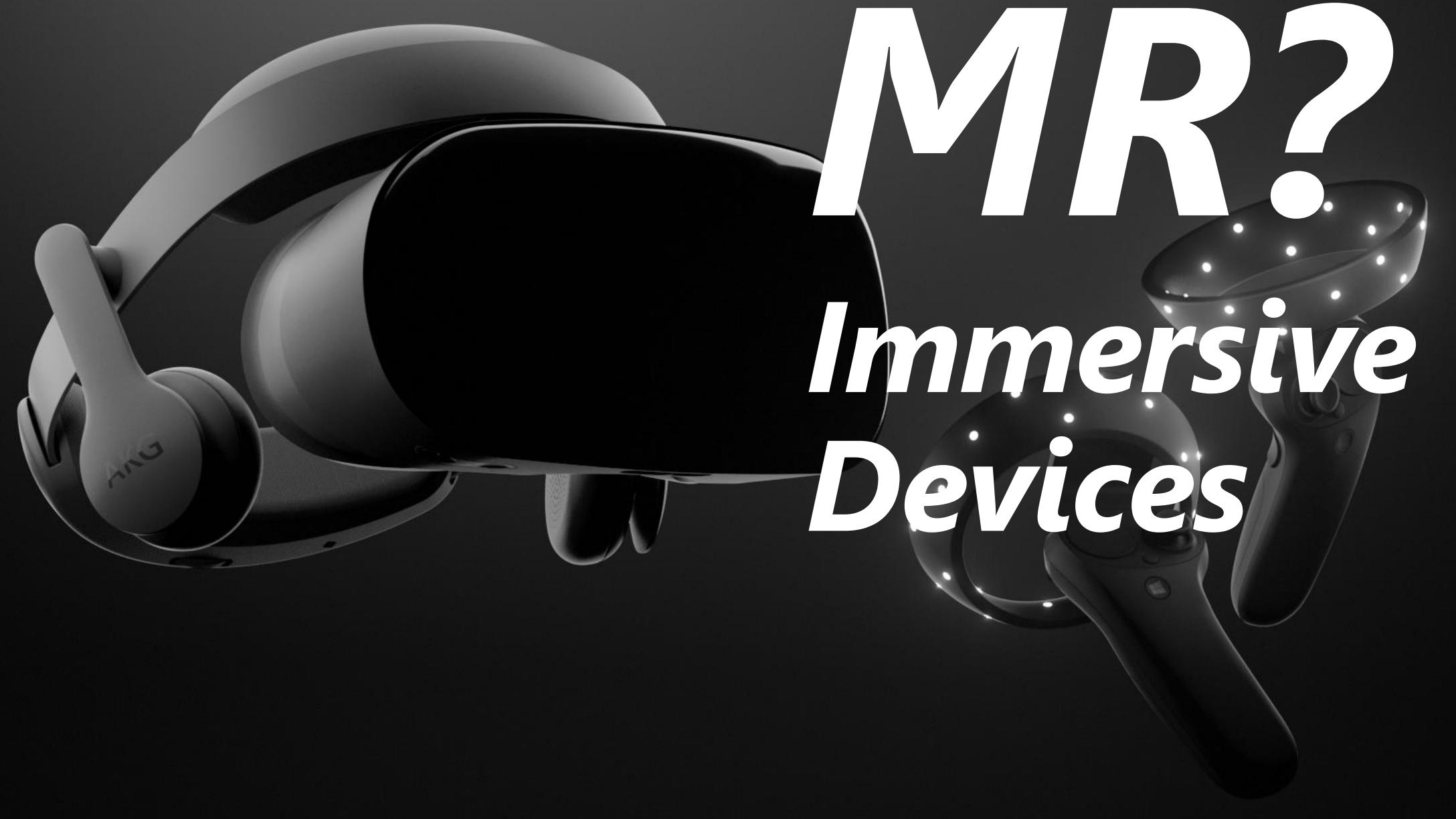


WHAT'S YOUR MOD









MR?

*Immersive
Devices*

**MAY CONTAIN CONTENT
INAPPROPRIATE FOR CHILDREN**

Visit www.esrb.org
for rating information

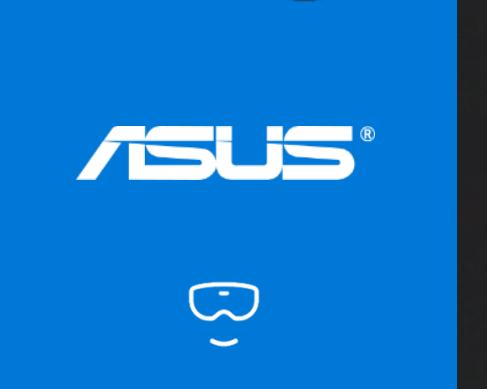
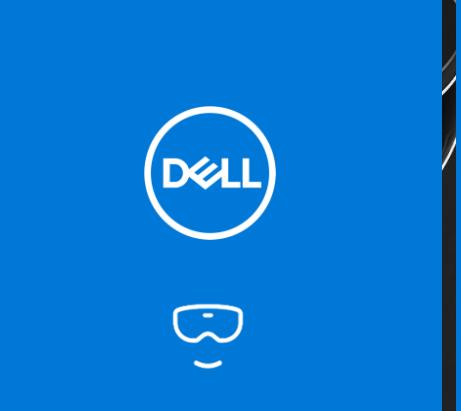
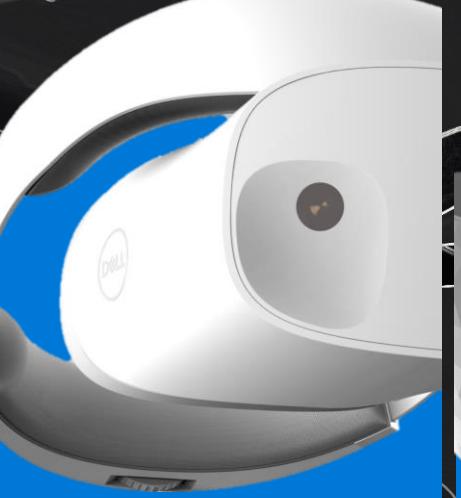
EVERYONE to TEEN

E-T

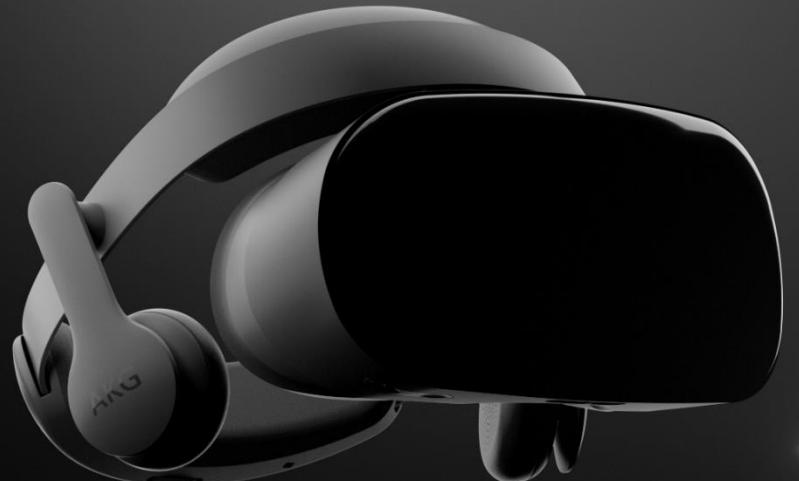
®

ESRB esrb.org

Mixed Reality Devices



Mixed Reality Devices



Samsung Odyssey
With motion Controllers

Mixed Reality Controllers



Hardware details



Windows Mixed Reality PC Check

Can't run mixed reality

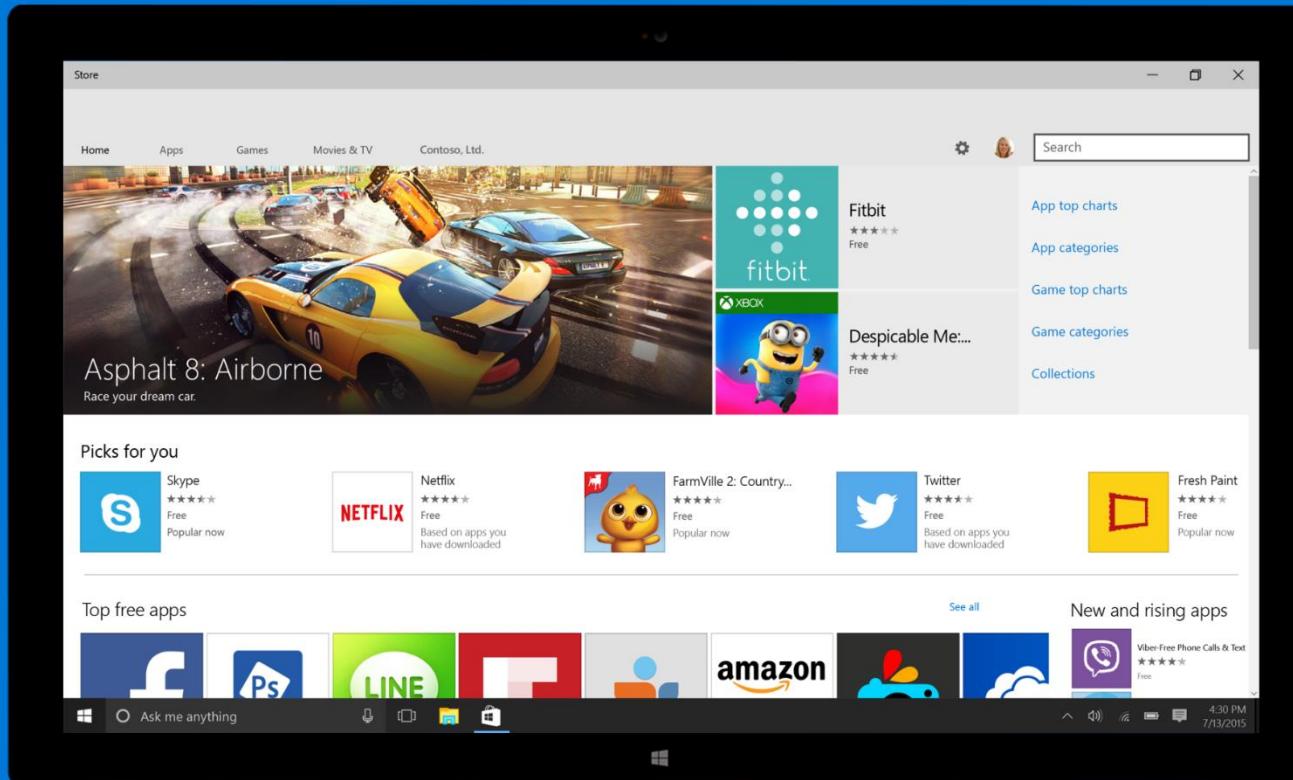
This PC doesn't meet the minimum requirements needed to run Windows Mixed Reality.

Graphics card	NVIDIA GeForce GPU / Intel(R) HD Graphics 520	⚠
Graphics driver	22.21.13.8194 (WDDM 2.2) / 22.20.16.4629 (WDDM 2.1)	✗
CPU	Intel(R) Core(TM) i7-6600U CPU @ 2.60GHz	✓
RAM	8 GB	✓
Disk space	27 GB	✓
USB	3.0+	✓
Operating system	Windows 10 Fall Creators Update or later	✓
Bluetooth (for controllers)	4.0+	✓

[Learn more about compatibility](#)

[Discover Windows Mixed Reality](#)

Windows Store



8x increase in purchases through carrier billing

Subscriptions

Affiliate referrals

Updated ad SDK with video ads and install tracking

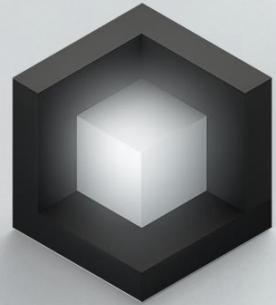


A N N O U N C I N G

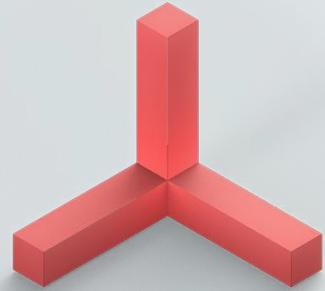


Microsoft Fluent Design System

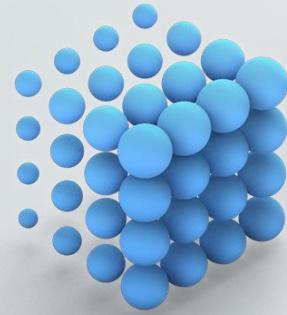
Microsoft Fluent Design System



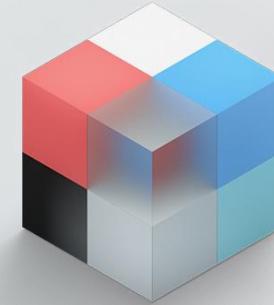
Light



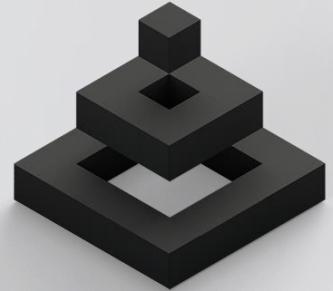
Depth



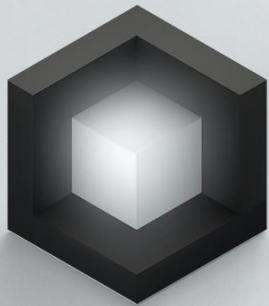
Motion



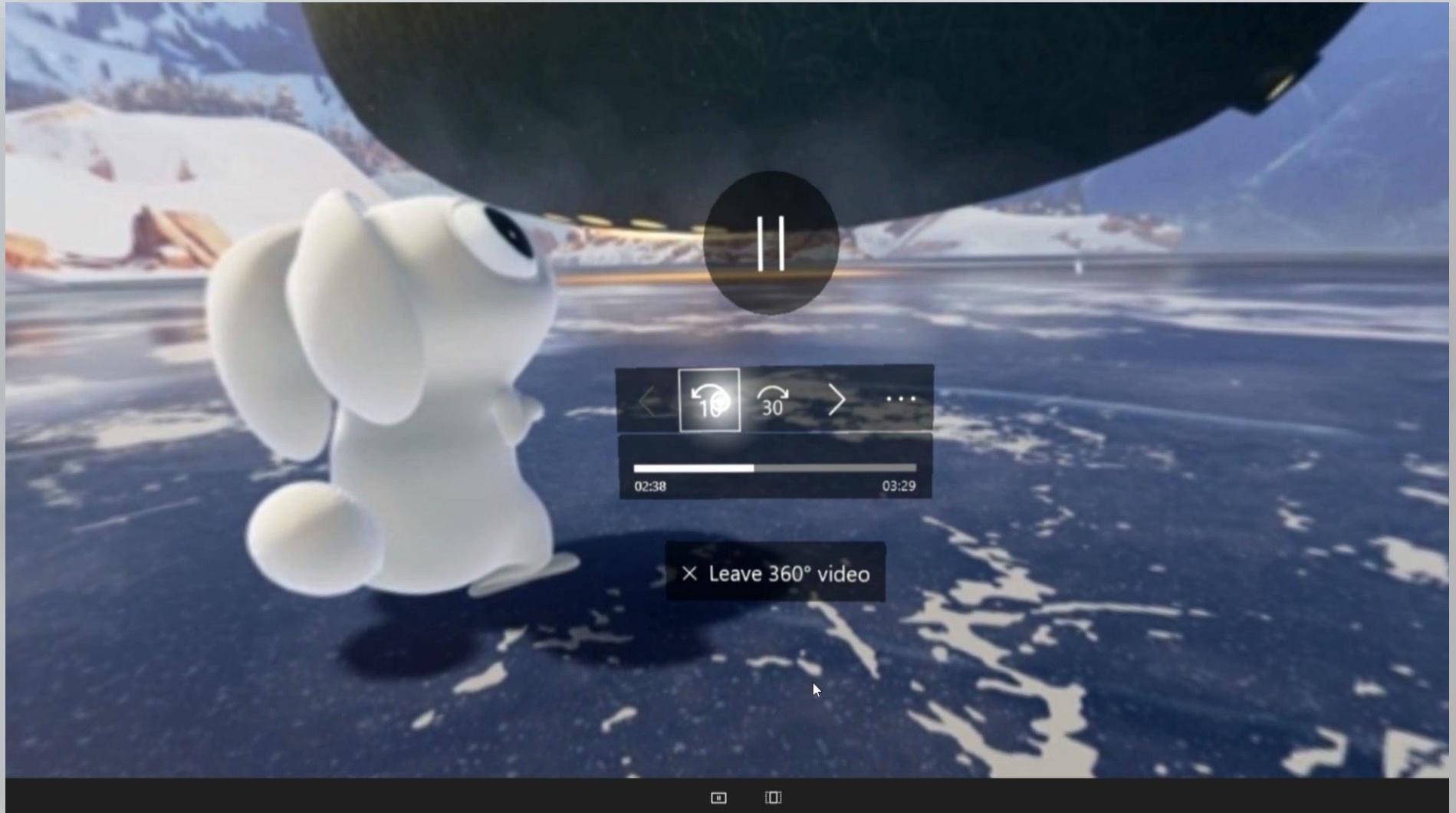
Material

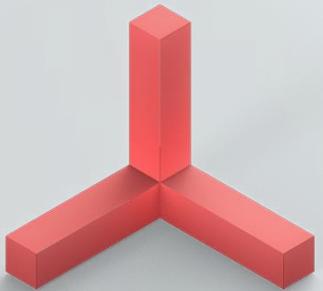


Scale



Light



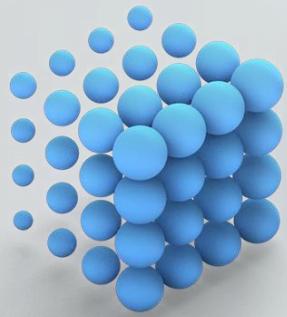


Depth

Here is the current weather:

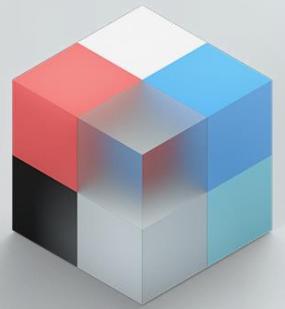
61°F
Mostly cloudy
Redmond, WA
10% precipitation

66° 68° 63° 59° 61°
1PM 6PM 11PM 4AM 9AM
• 10%



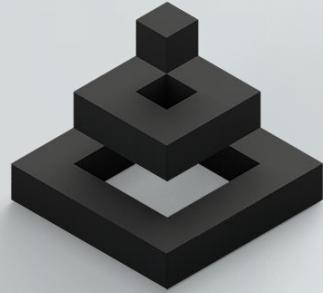
Motion





Material

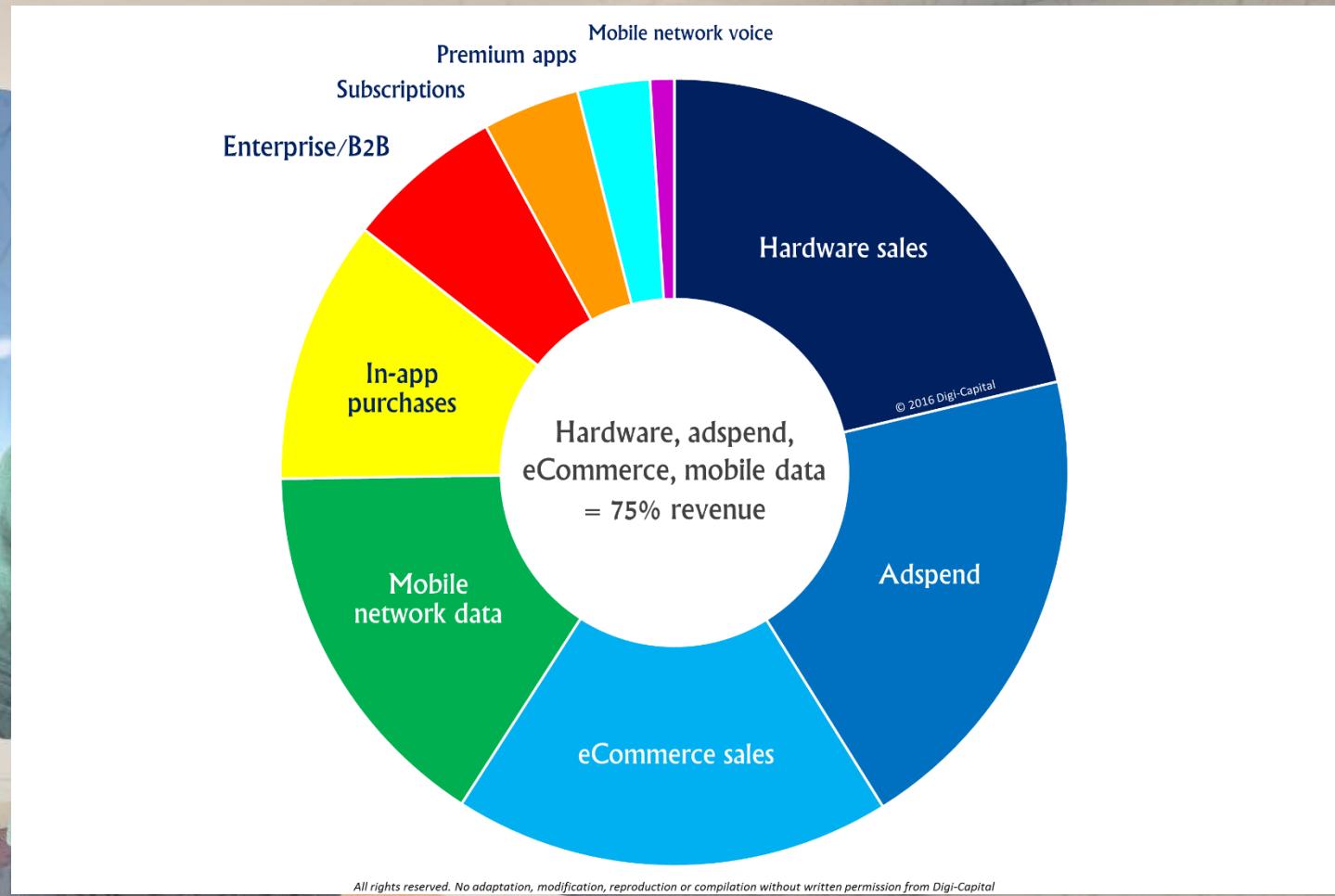
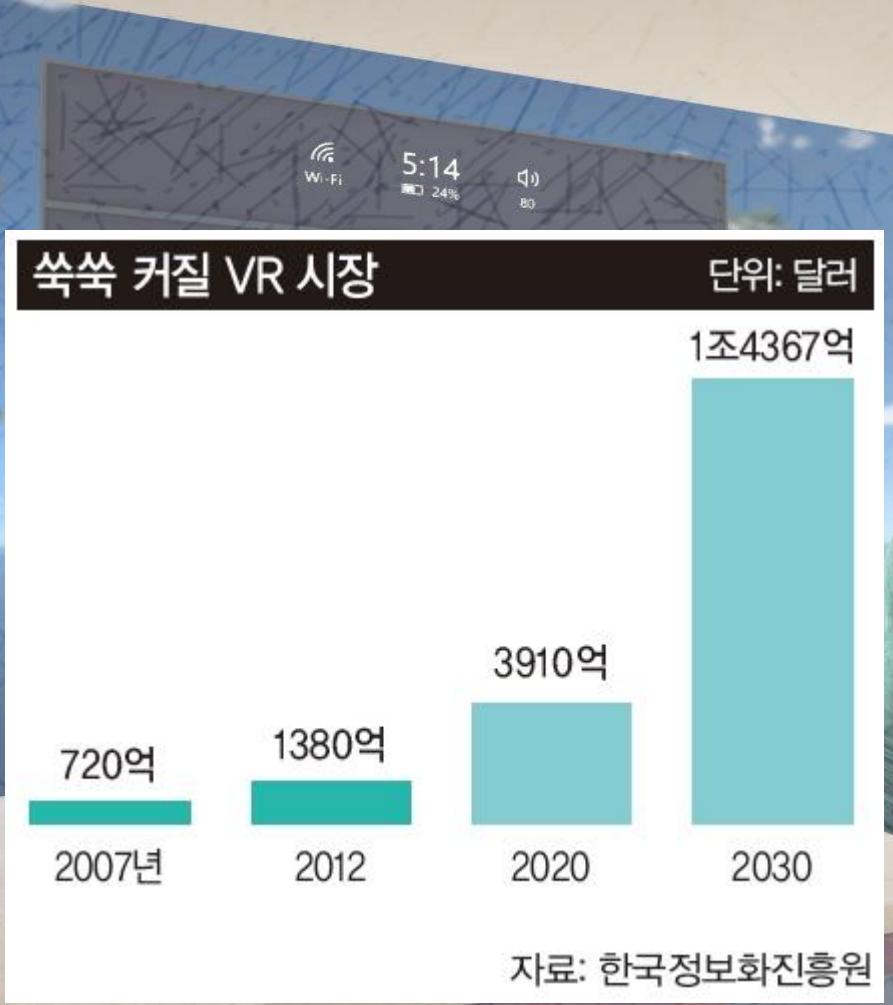


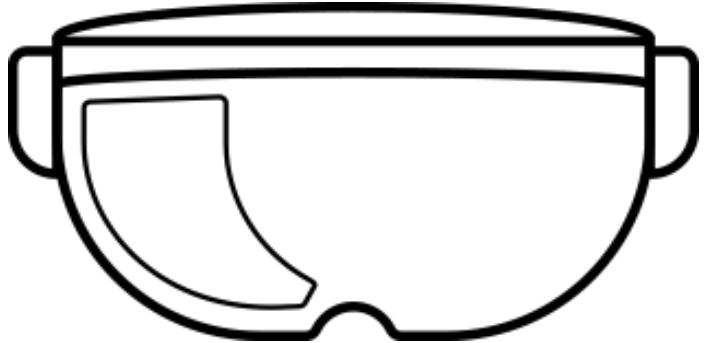


Scale



가상현실 시장 규모





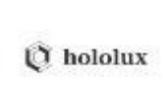
Games & Entertainment



DARK LESSON



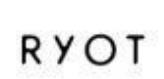
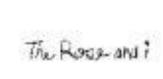
DREADHALS



JAUNT



OBDUCTION



虛擬美術館

橙子 VR

Wevr



YOUKU VR

小花秀 VR

Microsoft Azure



AI

Language

Speech

Vision

Emotion

Chatbot

NLP

Text Mining

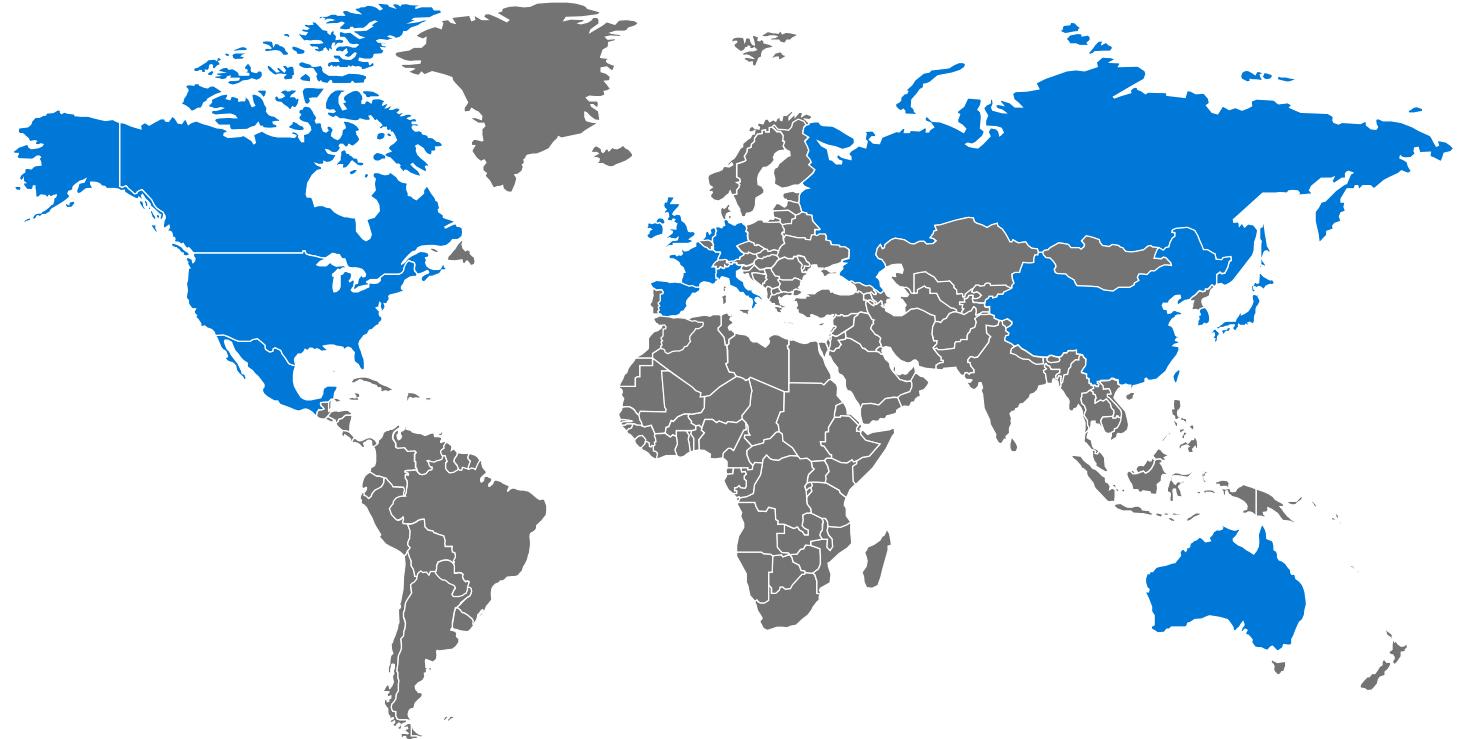
Data Analytics

감사합니다
Thank you!

개발자들이 MR을 해야 되는 이유

- 1.
- 2.
- 3.
- 4.

Supported Languages



- China
- Australia
- Canada
- France
- Hong Kong*
- Italy
- Korea*
- Mexico
- Germany
- Japan
- UK
- US
- Netherlands*
- Spain
- Russia*
- Taiwan*

- Speech support not available for some languages*
- Virtual keyboard supported in English only

Language support for Fall Creators Update pending validation