



ALTERNATE REALITIES IN EVALUATION

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- Learn a bit about AR, VR and MR
- Provide some opportunities and considerations for this sort of tech

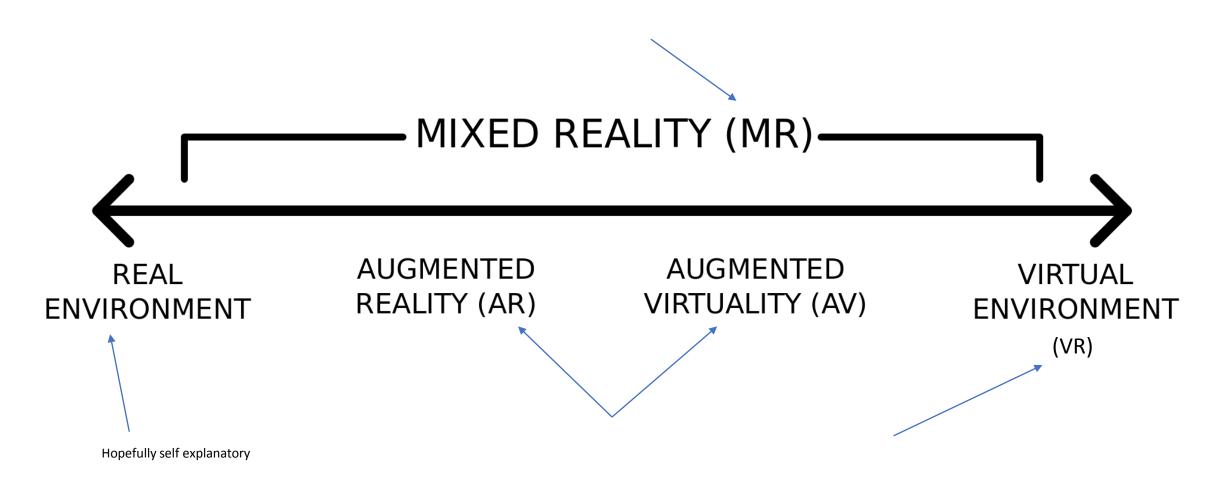




More commonplace in the 'everyday'

Opportunities for evaluators

The Virtuality Continuum



Augmented Reality

- Provides additional information (computer generated)
- It's about **enhancing** reality with digital information
- Lots of potential and already lots of examples available
- Largely driven by handheld devices



Tracking (or triggering)

Marker

 Specific visual cues to display information



Example:

 Specific geometries (e.g. in a drawing / printout) to display more detail

Marker-less

 Uses device sensors to understand appropriate data to display



Example:

- Pokemon Go
- Google Maps AR

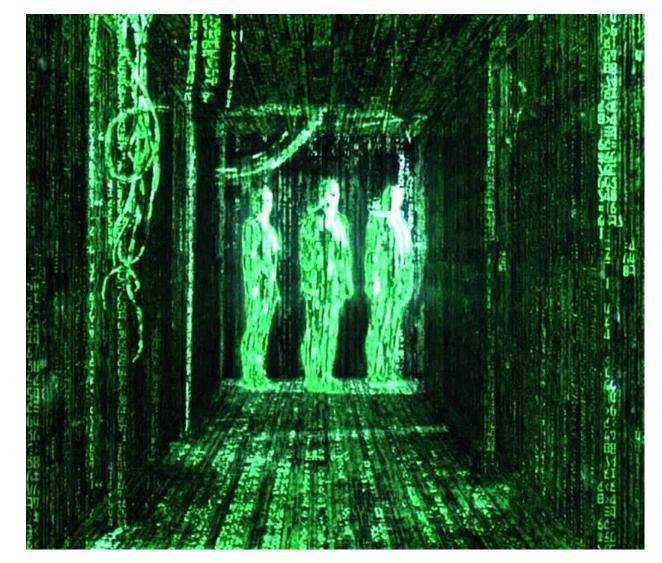


Takeaway messages

- Augmented reality provides the ability to include extra information / data in a way that can be intuitive, interactive and exciting
- The 'immersiveness' depends on the quality of the augmentation you can spend more or less on it and that can translate to what it can do
- Ultimately, you don't lose your place in 'reality' as the information is linked to the real world / objects

Virtual Reality

- Fully immersive environment that can duplicate / replicate / be complete different from our reality
- A range of possible technologies (and costs)
- Current examples include gaming, education, entertainment





 Low-end (e.g. Google Cardboard) – powered through your phone that 'slides' into the casing



 Mid-range (e.g. Oculus Go) – self-contained but does not extend to six-degrees of movement (use while seated)



 High-end (Oculus Rift / HTC Vive) – run through external devices (PC) but allow full ranges of movement and immersion



Takeaway messages

- VR has the power to immerse the user into completely different environments
- There's a range of levels that you can use for VR experiences
- Immersiveness varies significantly from low-end to high-end
- A great way of 'taking people there' and exposing them to new environments or experiences

Mixed Reality

- Definition is a bit murky but basically takes the 'best bits' of VR / AR and interweaves them
- Essentially enables digital objects to be overlaid with reality, so you can interact with both and they respond to each other





Takeaway messages

- The main distinction seems to be on the two-way interaction between reality and virtual or augmented overlays
- Very expensive and generally inaccessible to the public at present, but will be more in the future
- Basically Tony Stark.





Opportunities

- 1. Presentation of data / reports in a way that can incorporate mixed media, can be interactive and view / user driven
- 2. Training users can be shown examples and engage in 'choose-your-own-adventure' style paths (for example)
- 3. Collaboration teams can meet virtually, share media
- 4. Ability to 'connect' people with places by taking them 'there' can reduce costs of travel but maintain higher levels of immersivity

Considerations

- These are tools that can be used to strengthen practice / projects – but still tools
- 2. Require an investment (time and \$), and a fair degree of technical nous
- 3. High 'gimmick' potential needs to be 'worth it' (see points 1 and 2)
- 4. Everyone should try out a VR experience!

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