

Researching Presence Design for Virtual Reality

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Unique combination of Industry & Academic XP





VR, Year One:

Trends in Software

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Motivation

LATEST REPORTS ABOUT CONTACT BLOG VR & AR PORTFOLIO







Mobile VR & AR Games in 2020:

Probable, Plausible, and Possible Futures



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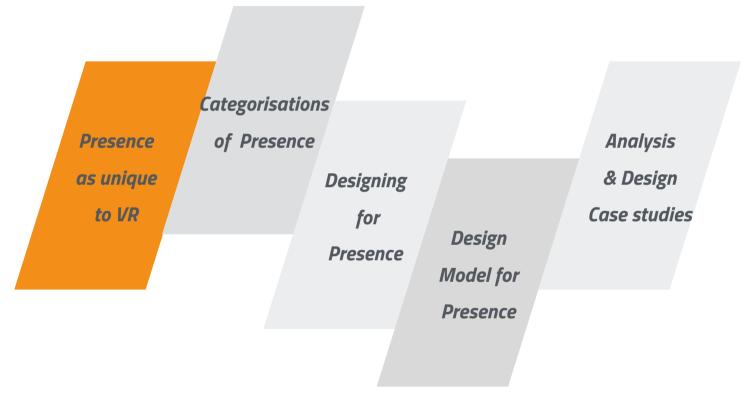
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Agenda





What is 'Presence?'

According to research, 'True' sense of presence can only be achieved with 'immersive technologies' such as VR

The highest degree of presence is reached when we can not tell if we are interacting with **virtual vs real** objects & environments



Place illusion:

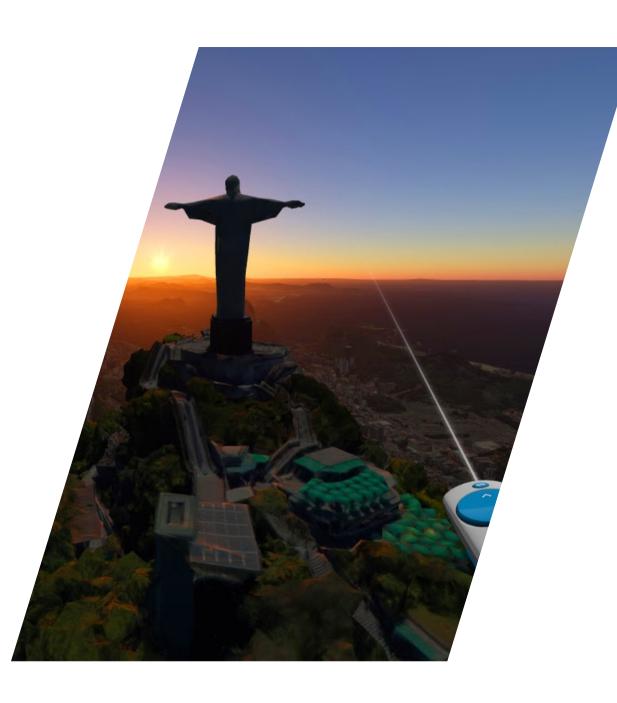
'the qualia of having a sensation of being in a real place'

= Is this a real?

Plausibility illusion:

'the illusion that the scenario depicted is actually occurring'

= Is this really happening?



Reality or not to Reality

As design drivers, Place illusion &

Plausibility illusion would best fit efforts

where the developers are trying to

simulate existing environments and

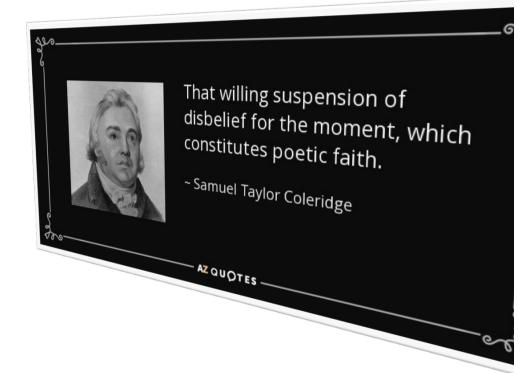
events

On the other hand...

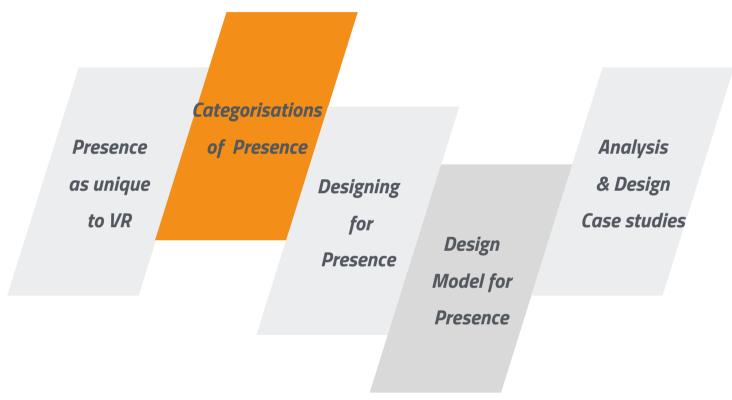
Suspension of Disbelief through Presence

For creative endeavours, such as designing games or VR experiences, place illusion and plausibility illusion are trumped by age-old creative challenge of creating and maintaining suspension of disbelief.

More nuanced design concepts are needed for the variety of potential for VR!



Agenda



Social & Mental Presence

Emotional Presence

Kent Bye's Elemental Theory of Presence:

http://voicesofvr.com/502-an-elemental-theory-of-presence-future-of-ai-interactive-storytelling/

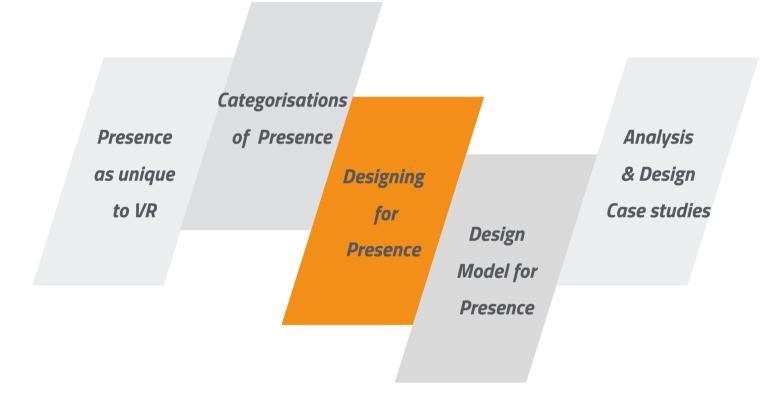
Active Presence

Embodied Presence

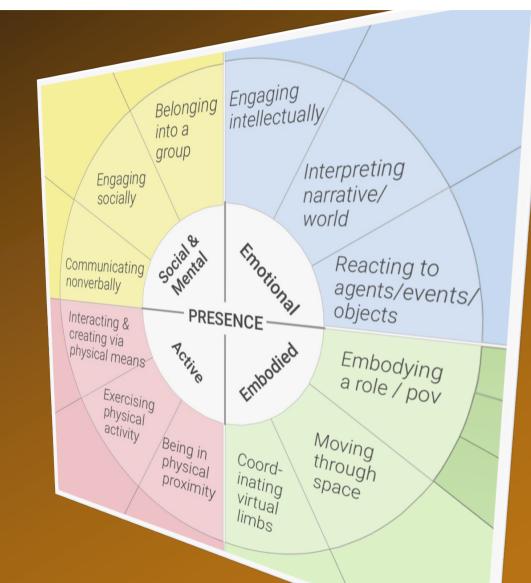




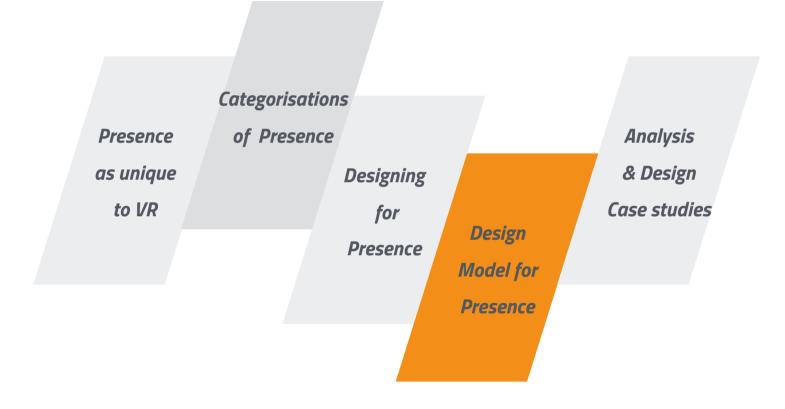
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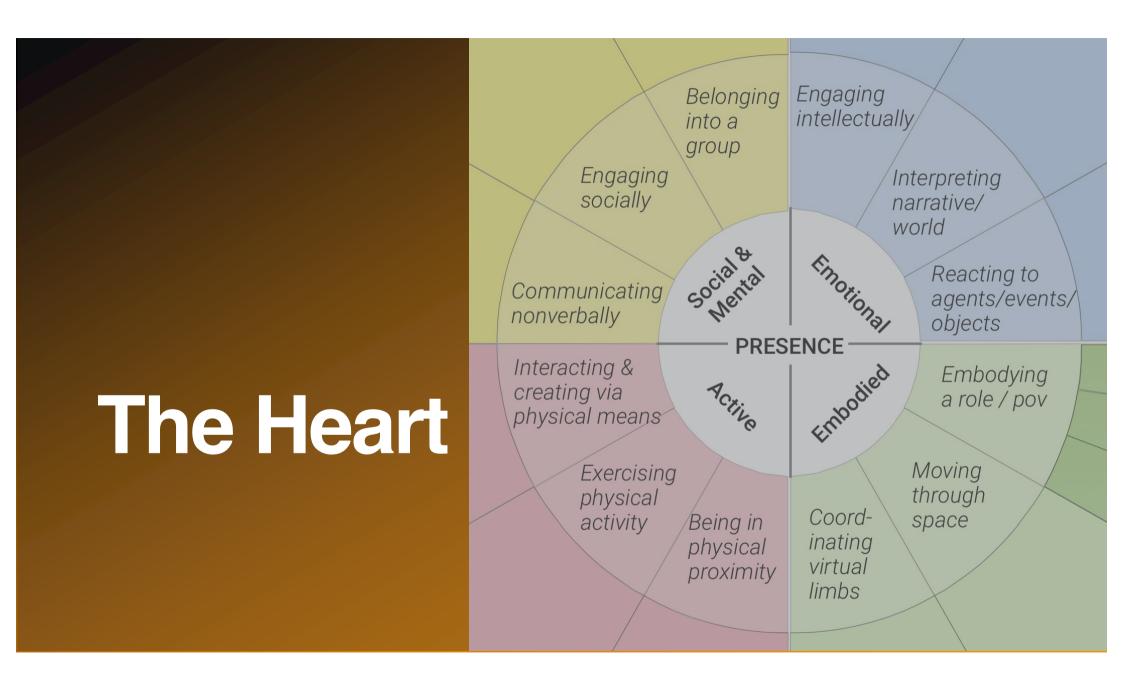
Process



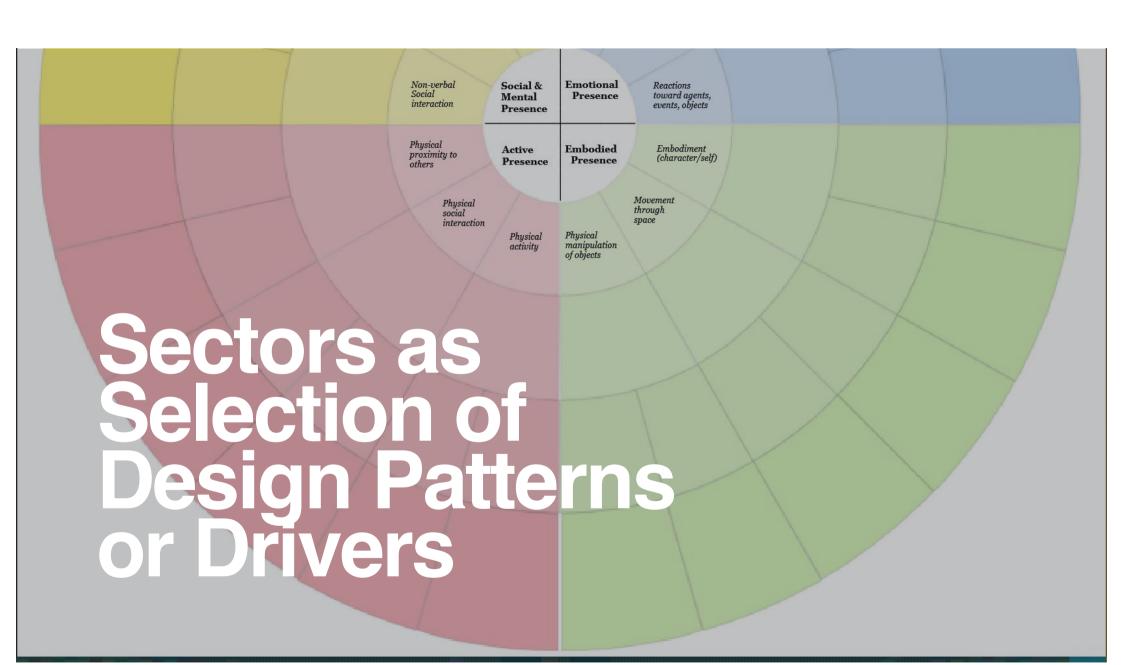
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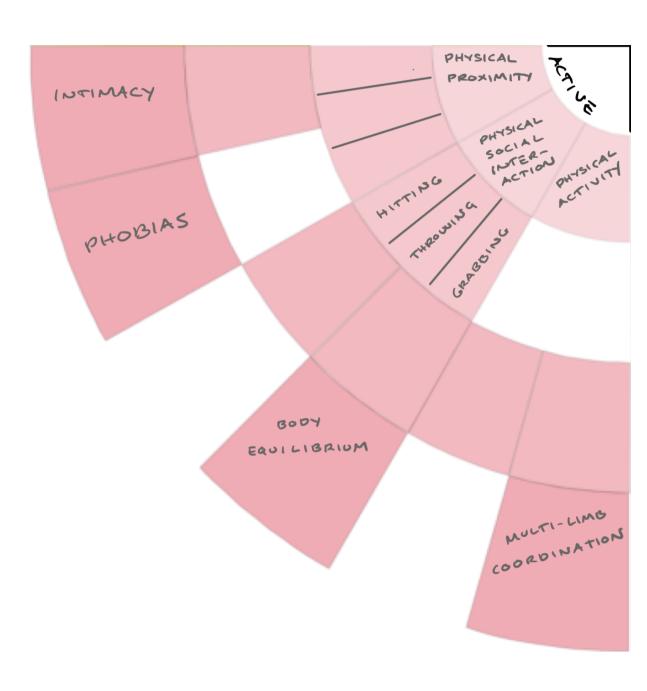
LEVEL OF ABSTRACTION Layers



Social and Mental Presence



Active Presence



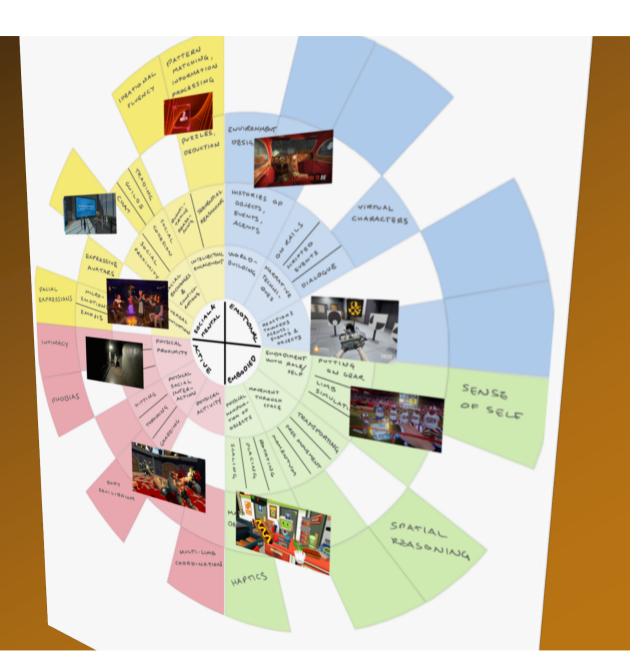


Embodied Presence

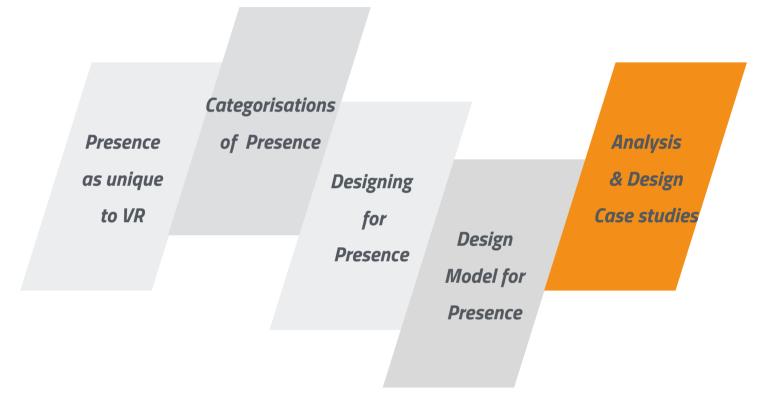
ENVIRONMENT D2519N LEVEL DESIGN 40 251×072H OBJECTS VIRTUAL EVENTS, CHARACTERS AGENTS WORLD-BUILDING DIALOGUE ENOLOTON REACTIONS TOWARDS TOWARDS TOWARDS TOWARDS TOWARDS TOWARDS TOWARDS

Emotional Presence

Examples



Agenda





Analysis case studies #1:

Lone Echo

Close analysis in order to map gamespecific design aspects to the model

Lone Echo Presence Profile



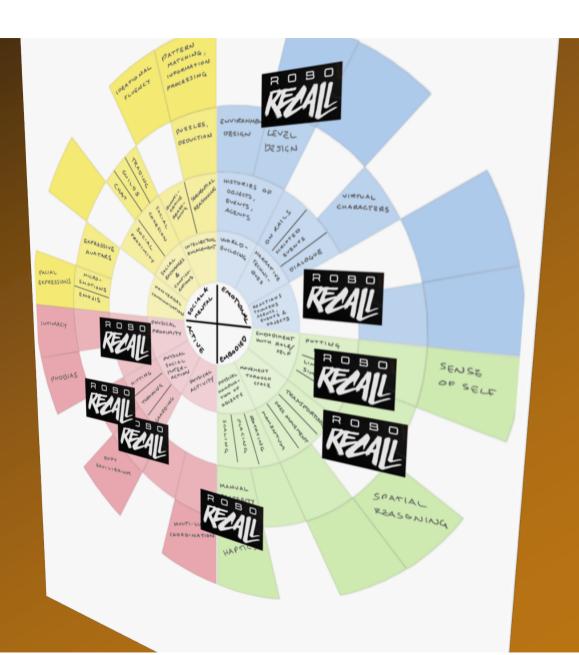


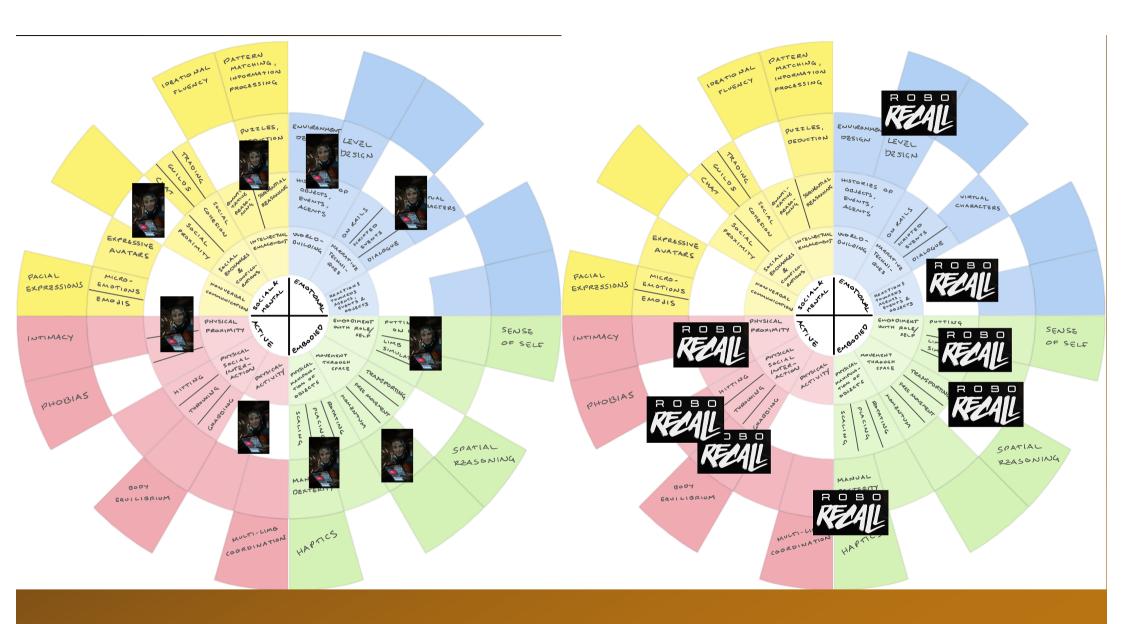
Analysis case studies #2:

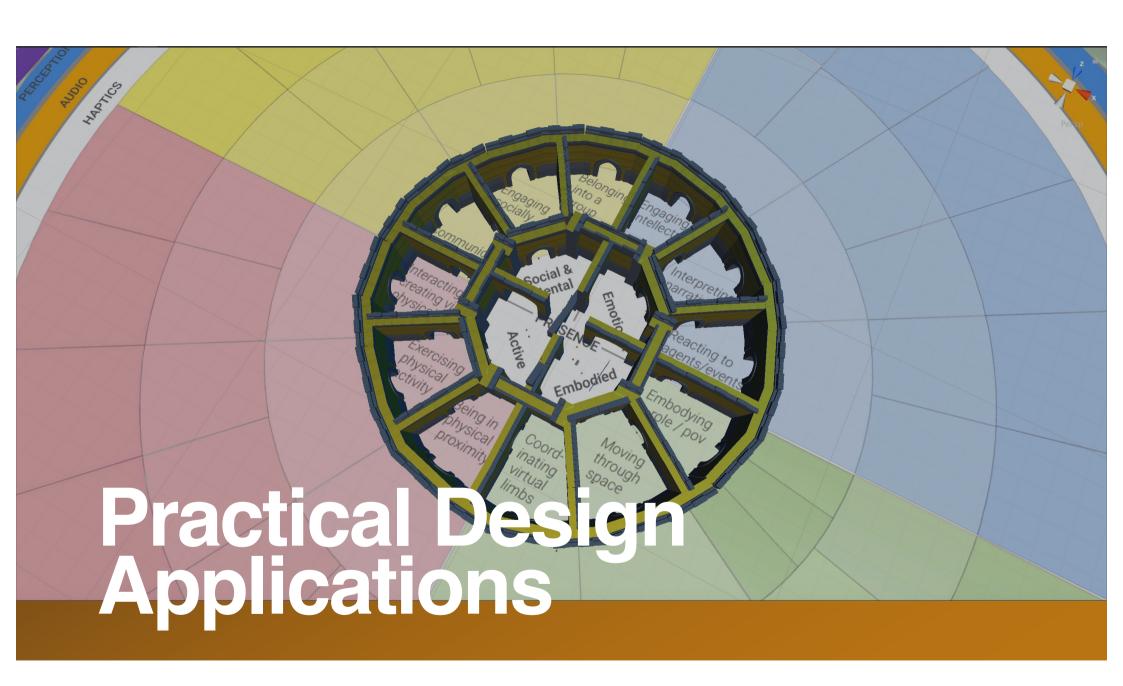
Robo Recall

Comparative analysis to understand designs aiming towards different 'flavors' of presence

Robo Recall Presence Profile











Ultimate Goals:

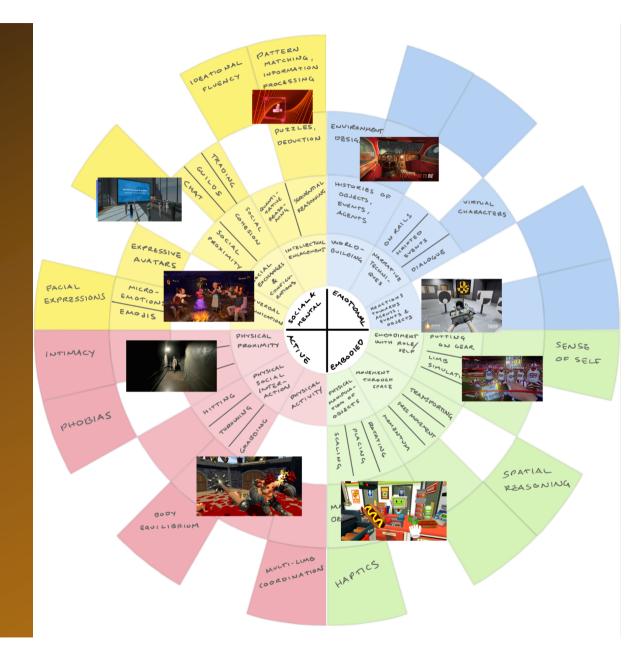
Charting unknown territories;

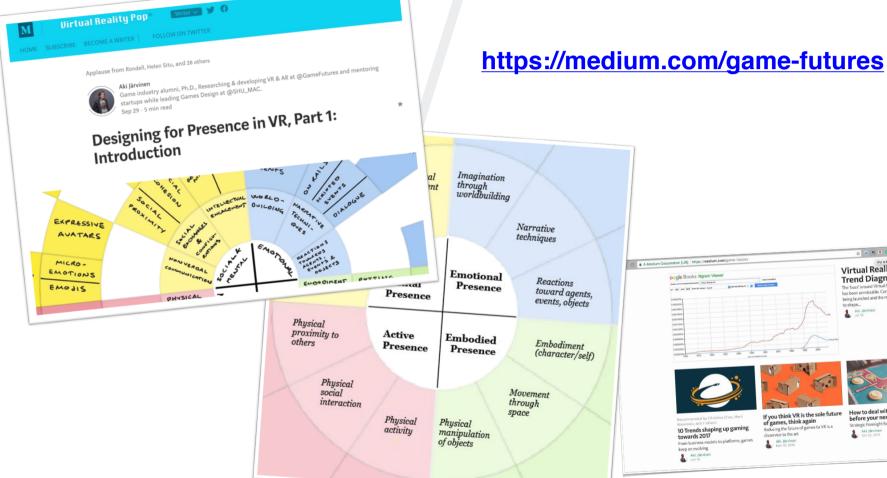
Finding VR's own voice



Work continues

Join up!

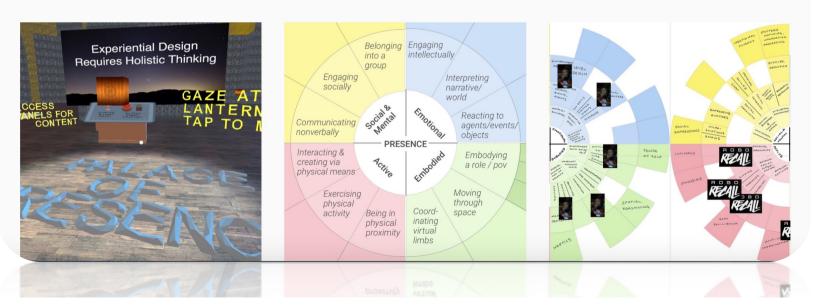






Palace of Presence

Presence is the unique aspect of Virtual Reality from a user experience point of view. I have set out to map the design domains that contribute to different flavours of presence. This work consists of research into VR designs in order to create a model that would help in analysing presence design in VR applications and inspire new ones. 'Palace of Presence' is a VR application, both a design and education tool, that I am working on, which makes to model come alive as a set of examples of design techniques and approaches, experienced in VR itself.





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Thanks!

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