

Cultural Tourism XR

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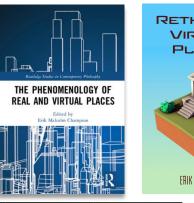


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Augmenting* Heritage

- Rethinking Virtual Places (IUP, 2021).
- Co-editing Assassin's Creed in the Classroom, Museum and Gallery (De Gruyter, 2022).
- Co-editing Screen Tourism & Affective Landscapes.
- Edited Virtual Heritage: A Concise Guide (Ubiquity, 2021).
- Edited <u>The Phenomenology of Real and Virtual</u> <u>Places</u> (Routledge, 2018).
- Critical Gaming: Interactive History and Virtual Heritage (Routledge, 2016).
- Playing with the Past (Springer, 2011).

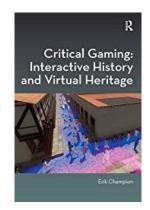
*https://erikchampion.wordpress.com/2020/05/23/vr-travel-and-tour-apps/

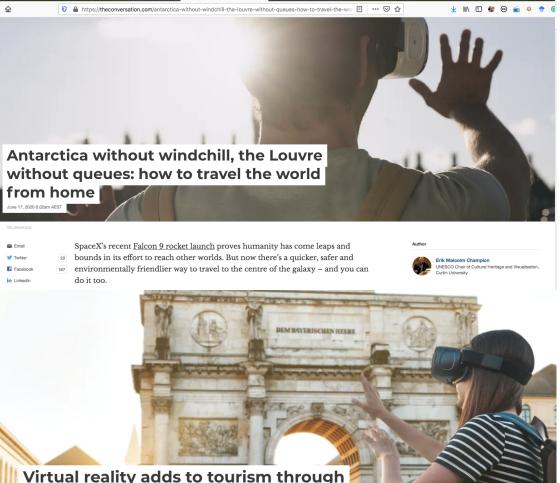




touch, smell and real people's experiences







What is AR MR AV VF



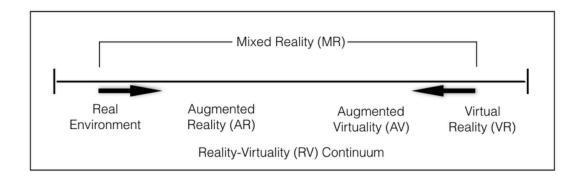
What is Mixed Reality? Mark Billinghurst, 2017

L: Augmented Virtuality-user can see video of their real hands in VR

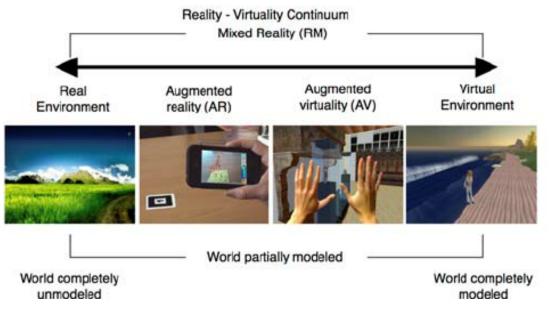
Mixed reality: classic explanation Wikipedia

XR="all the immersive technologies" (Forbes 2019)

AR apps, addons, frameworks, game engines



What is a Virtuality?



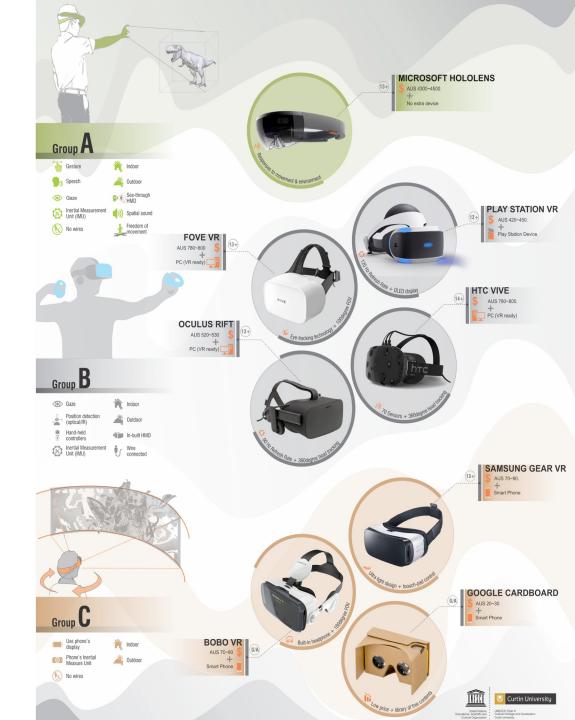
<u>14)</u>

https://alisonjamesart.com/2017/03/12/what-is-a-virtuality/

Milgram Takemura Utsumi & Kishino (1994)

Extended Realityaudiences

- XR/XR for Cultural Tourism
- Aural response phone-based AR
- Shared Embodiment
- Screen tourism
- · Game-based transmedia
- XR 215 billion dollar market in 2021?
- Obsolescence https://edu.google.com/products/vr-ar/expeditions/
- Examples https://www.digitaltrends.com/mobile/best-augmented-reality-apps/
- Unreal game engine AR https://developers.google.com/ar/develop/unreal/quickstart
- Google ARCore https://developers.google.com/ar/ (examples)
- Apple ARKit https://developer.apple.com/augmented-reality/arkit/







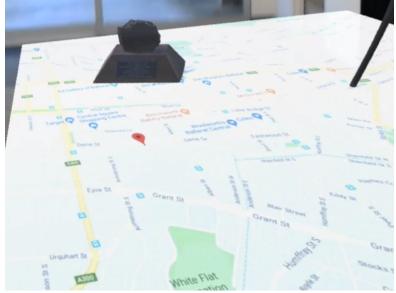


Diagram: care of PhD student Mafkereseb Bekele

Shared Embodiment-Collab XR



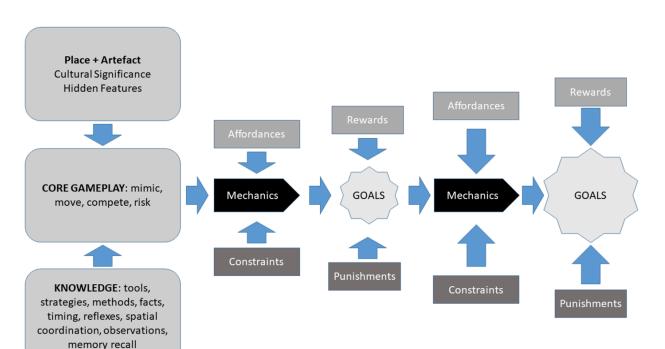
Summer Intern Program: sharing different parts of embodiment between participants, Agathe Limouzy 2018.



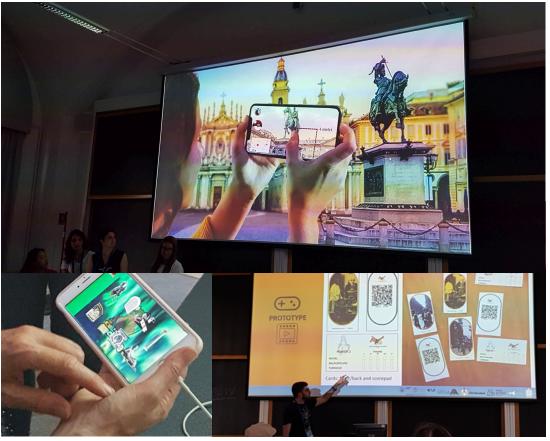


XR in Student Workshops

Heritage Game Workshops



Student AR work Museum of Cinema, Turin Italy



Thank you!

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Conference/event name		VSMM		CAA		CIPA		EUROMED		Digital Heritage	
Accessible articles & Year of publication		Year	No.	Year	No.	Year	No.	Year	No.	Year	No.
		2017	55	2015	117	2017	111	2016	105	2015	270
		2016	65	2014	73	2015	82	2014	84	2013	211
		2014	53	2013	50	2013	112	2012	95	-	-
		Total	173	240		305		284		481	
Articles contain reference of 3D heritage assets		31		38		79		61		55	
References include											
(a)	Accessible 3D contents	0			1	3		1		4	
(b)	Video	1			2	1		2		6	
(c)	Other visual materials (VR models, photographs, images of 3D etc.)			4	6		5		17		
(d)	Links not accessible/dead	3			0	5		3		8	



https://www.hidden.no/ IAN BRODIE