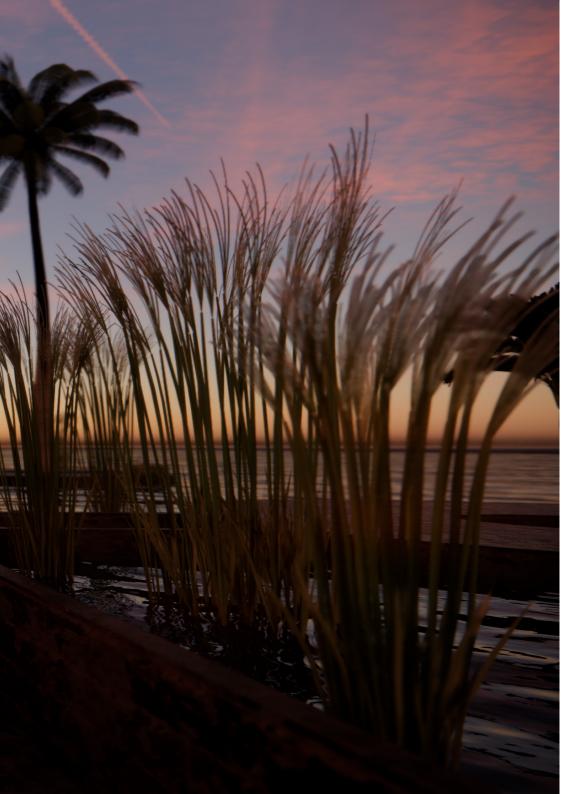




Designer:



# **Project Details**

Mingyu Li

Design Participants:	UCA MA Architecture Students UCA MA Interior Design Students
Title:	A Dialogue
Туре:	VR Research & Installation
Site:	Barbican / UCA Canterbury
Session:	20 September - August 2022



CD7013 Final Realisation Portfolio A Dialogue

## **Research Agenda and Process**

#### Overview

"Dialogue" comes from the Greek word dialogos. Logos means 'the word', or in our case, we would think of 'the meaning of the word'. And dia means through'—it doesn't mean 'two'.... The picture or image that this derivation suggests is of a stream of meaning flowing among and through and between us." (Bohm David 2003, On Dialogue)

**A Dialogue** aims to build an imaginary visual reality world in a physical world. In this part, it tends to discover a few questions below and use VR tools to create a digital world which includes sounds and abstract emotional expressions.

To discover the dialogue between performer and audience throughout the whole project. Importantly, Words are put together to form sentences, often bringing out different emotions. Approved to Bohm David, that dialogue is a multi-faceted process. Moreover, <The Messingkauf Dialogues> (Bertolt Brecht, John Willett) shows four characters formulating the conversation of a new theatre, which seems to be a unique space form. With technological growth rapidly, spatial design has changed its form to be more flexible and diverse. So it is vital to test the different emotional responses to this form of conversation in an unreal space.

#### **Research Questions**

- Can the role of an audience be transferred to what on a performer using VR?
- 2. How can humans interact with the digital to invoke a sense of emotion, through the dialogue?

Research Statement

#### **Significance and Contribution**

To break the physical spatial boundaries and create an emotional experience.

Referring to (The theatre of the Bauhaus, 1961). It shows the typical theatre form with the performer's ceiling, floor, wall and stages, and seats for the audience. The audience receives information passively.

VR builds the world immersed through a headset. It is fully immersive, and everything we see is artificially constructed. It is essential to explore intense human interactions through dialogues. The research of Term one <Rhythm> and Term two <A Dialogue>, based on the Architecture & Interior acknowledgement, Is a step-by-step process for exploring.

From different perspectives, the dialogue is between inner and outer worlds. This project was split into two parts. Like a script, the narration is the first part, mainly to guide the audience to follow the story. To show the story happen, a short film will be displayed using the projector. The second part is to create a virtual world which transforms the audience into performers in the space with VR glasses.

#### Animation click here:→

#### Methodologies

- Create a short visual animation which shows abstract feelings from the Barbican centre.
- 2. Collect sounds and dialogues from visitors for the animation.
- To operate Unity and Enscape by connecting space with projectors and computers.

CD7013 Final Realisation Portfolio A Dialogue Proposal & Context

## **Design Proposal**

Centre, ducks swam in the river, reality can be recognised in a and the buildings reflected on the work of art, the more realistic it water; the wind blew reeds like is. Against this i would like to set dancer's waves(see fig. 1). People up the equation that the more sat next to it and chatted.

To memorize this moment. I record the sounds and video. To make a movie and capture abstract feelings.

Beneficial to show more details about this story; I will build up models by SketchUp and render them by Enscape. The models be reconstructed extracted from the actual sites. "On the question of realism, the

On the first visit to the Barbican usual view is that the more easily recognisable reality is mastered in the work of art, the more realistic it is."(A Guide to the Plays of Bertolt Brecht 2012, P.37)

> Consequently, making conversation between realistic and unrealistic world may lead to the invention of unexpected imagination.

#### Key outcomes of proposal

- To design a combination of physical space and an unreal world.
- To research different emotional states from the audience.
- Delivery of the design by Unity and Oculus VR glasses.



## **Design Research Context**

#### Field of Work

The concept creating pondering а conversation with the unreal immersive.

The whole project is going to explore the consequence of the two perspectives explained before.

People will experience two ways in this design. In the physical scenario, they will watch the movie as an audience. Once they wear the VR glasses, they will be transformed into another world; where their roles and emotions

#### Work by others

committed The research from Keio University, written by Hidekazu Nishimura talks about whether world, which makes the user fully the motorcycle riders did not use non-motorcycle dedicated products, the research team built a viewpoint movement for it-Throughout the experiment, they measured the total street views using 3D glasses. (Refer to figure.

> It inspired me to create an unreal world combined with physical views for my project.



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## **Design Methodologies**

Can the role of an audience • be transferred to what on a performer using VR?

The first step is to break the spatial boundaries. The relationship between the human body and space is explored in the book (See Fig. 3). Based on breaking the boundaries of space, from watching to being immersed in a virtual world and exploring it on their own.



Grill Bauhaus costumes 1920s

How can humans interact with the digital to invoke a sense of emotion, through the dialogue?

To create a space based on this dialogue, storytelling real and imaginary scenes. As Bohm David says, dialogue arises as mutual communication.

Refers to the chapter on Emotional Engagement in VR. 'Aesthetic elements create an atmosphere and convey feelings, which guide how the story is experienced'(Bordwell Thompson 2010).

Bernard Beckerman said, '...The performer adopts a fictional framework and acts according to the text's demands.'

After continuous research shows that awakening a person's emotions requires creating an atmosphere. I would build a scene with background music, different dialogues and moving objects.

## **Critical Design Elements**

- People experience the spatial feeling in a digital world.
- Use VR to enhance memory and sensory perceptions.

## **Design Narrative**

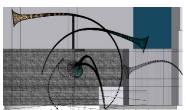
The first time explored the a. Lost barbican: there was unspeakable emotion in heart. The swaying reeds and noisy surroundings were inspired.

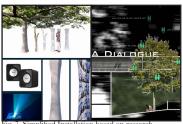
Process & Methods

dialogue in which we could horn was the element I wanted to immerse ourselves in such an use. (See Fig. 4&5) atmosphere.

Therefore, It took many steps to achieve the final goal. At the same time, they were incorporating some scenes from imagination so that the combination of reality and fiction makes for a more intense experience.







an There is an emotion in my brain that is hard to express. I was still limited to creating a dialogue in a figurative space at the site Promoting me to create a selection stage. Therefore, the

#### b. Test

decided to do an interview in Barbican as I could not continue the design. By interviewing visitors. I realised that creating an initiator can help the dialogue set. (See Fig. 6)

#### c. Reconstruct

The simplification of the design is to convey emotions better. The idea is to place speakers inside the stump, combined with coding, so there can be interaction when people are talking. (See Fig. 7)

Although I have not fully explored the design direction at this stage, I have come to appreciate the many possibilities of design in the process.



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Fig. 7 Survey by people in the barbican centre.



Fig. 9&10 Few abstract feelings on the projection, based on Term 2.



Fig. 8 Some dialogues on the note book

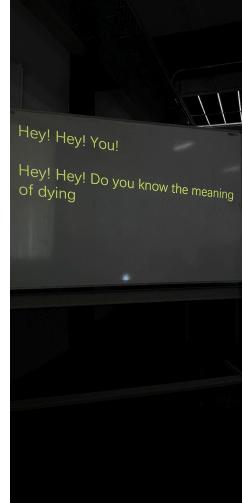






Fig. 11 The place where I took the scene.

Fig. 12 Shaking of the water.



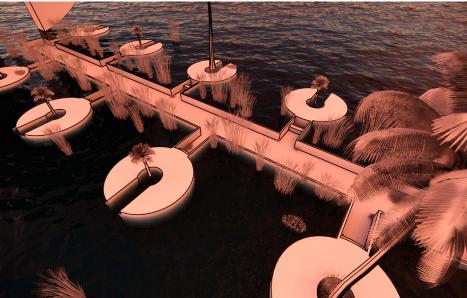




ig. 14 People chatte

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## **Initial Idea**



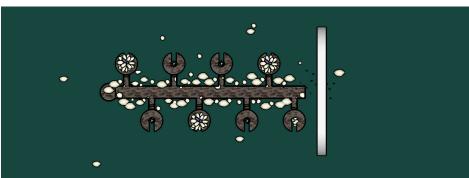


Fig. 16 Sketch up models



Fig. 17 Renderings

## **Exhibition**



Fig. 18 Exhibition site: UCA Canterbury campus, behind reception.

Considering to make a place where can interact,



01 Digital screen

05 Projector

02 Projection

06 Speaker

03 Post

07 A basket for oculus VR glasses

04 A sensor/phone





Fig. 20 (left) VR Testing by teachers and students.

Fig. 21 (right) Hisense Moveable screen.

# Visualisation and Realisation Techniques

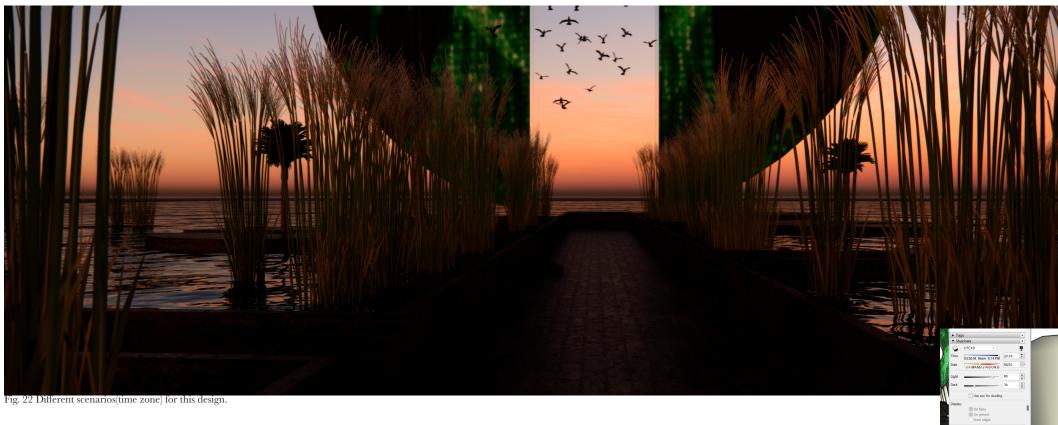
The set design focuses on the main a. Element testing elements of the Barbican - bricks and water. I also added reeds, flowers, and plants to create the atmosphere for this design. The main aim was to create a virtual world combined with the real world. So the technique this time was mainly model building and scene creation.

As the teachers said, I created the space myself, so I was skilled in exploring the tools. But when it was time for the teachers and students to use them, they were new to the scene and had difficulty using the handles.

#### b. Digital screen

I was hoping to use a projection in the original concept, but it was obvious that a vertical, movable screen would be more suitable.

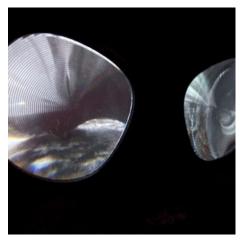


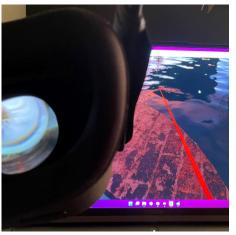


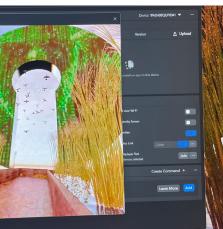




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#### Process & Methods

## **Challenges and Opportunities**

The biggest challenge throughout it took more time to learn the I kept changing design directions while. and concepts, drifting away from the research. So, how to adjust my mindset and start afresh Every time the oculus changes frustrations in the design process, the confusion is to take action.

#### a. Challenges 1

I was unable to use codes to implement my design ideas when I first tried to use unity. Therefore,



Fig. 23 (left) Photo of using VR glasses.

In the Oculus glasses, real world turn to black.

the design process was the software first. This led to me inability to identify a core theme. losing the design concept for a

### b. Challenge 2

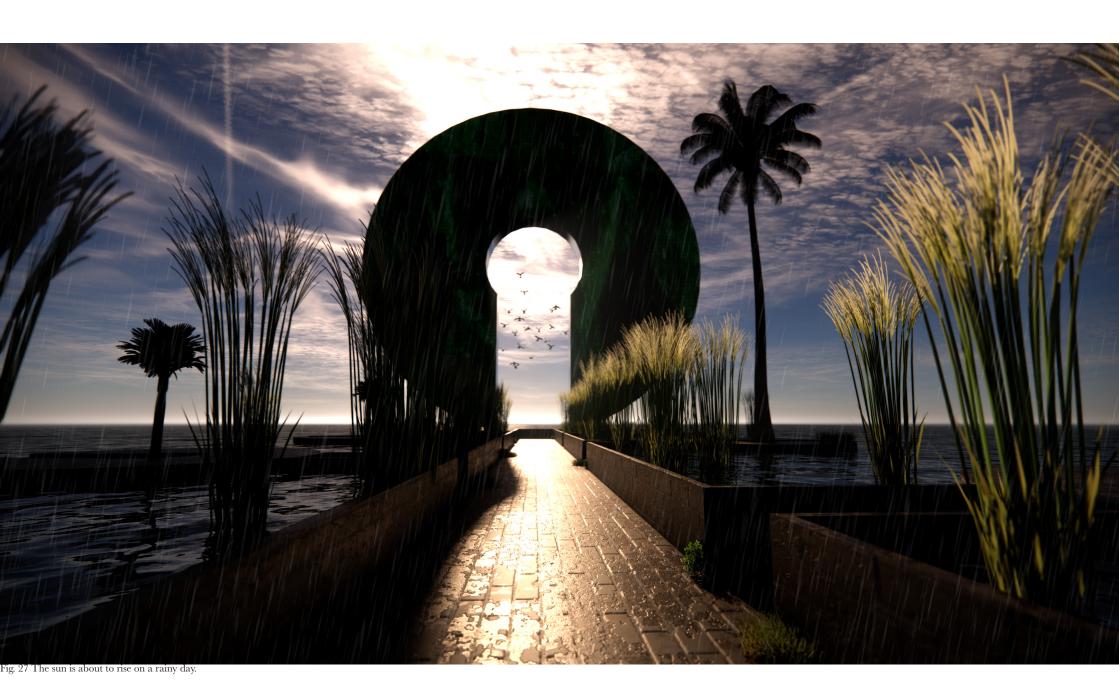
was my biggest takeaway from location and direction, the this time. There will be constant contact is not sensitive, resulting in a poor gaming experience. The and the best measure to deal with solution is to fix a place and not change networks.

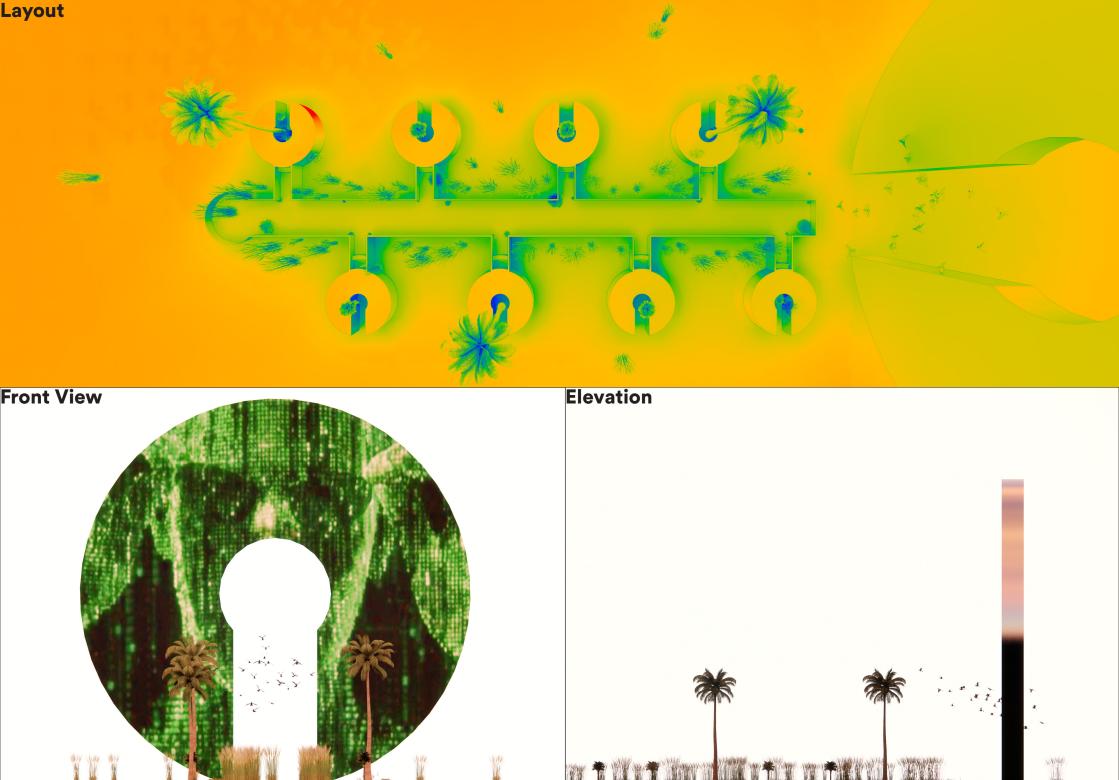
#### c. Opportunities

At first, my VR glasses could not connect to the model, and for a while, I felt unable to use them as the platform did not sense the oculus connection cable. It was only after reading many previous tutorials that I was able to find a solution by poking around.



Figs. 26 (backgroud)





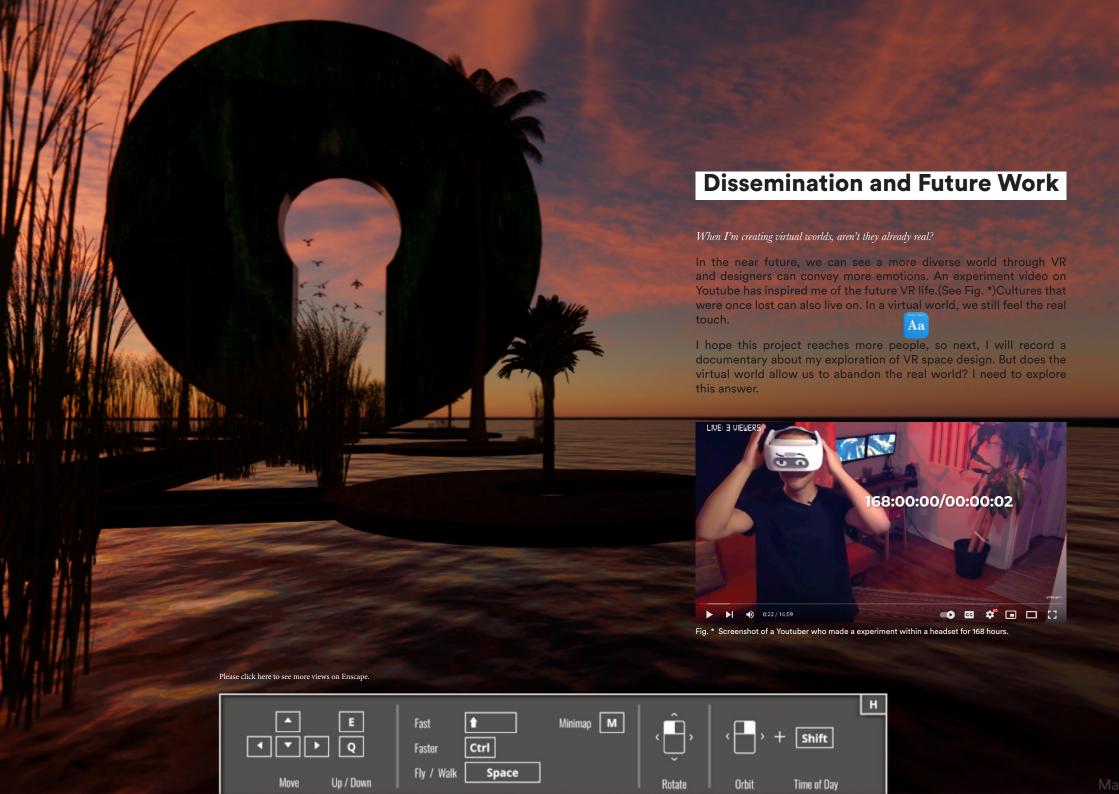












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## **Credits**

#### **MA Architecture Course Convenor:**

Lucy Jones

#### **MA Architecture & Interior Design Tutor:**

Lucy Jones

Charles Bain Smith - National Trust Architect

Jhono Bennet - University College London

Adrienne Bennie - UCA, UAL

Julian Besems - ETH Zurich, UCL

David Di Duca - BAT Studio, UCL

Hubert Green - Studio He

Freddie Hong - Imperial College London

Jjio\_Jjio (joel) - Play, Nottingham Trent University

Laura Keay - New Makers Bureau , Manchester School of Architecture

Kevin Kelly - Kevin Kelly Architects

Chee Kit Lai - Mobile Studio Architects, UCL

Helen Leask - Leask Architects

Louise Mackie - Art Director

Georgie McEwan - Studio Walala

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