



# Sprint 1

# Prototype 1

Pixel Pioneers



# Project Outline

Location-based time capsules created in AR.

**A unique experience that allows users to create, discover, and share time capsules with friends and strangers, storing them at their chosen location on the York University Campus.**

Personalized time capsules filled with pictures, videos, music, messages, and meaningful items allow users to create a 3D collection of the things that matter the most to them that they can share when others are exploring the same location. Users can travel from one space to another, interacting with other time capsules, essentially exploring the personalities of other users while possibly never meeting them.

**We believe that this immersive 3D environment experience will allow people to share personal memories, preserving them and passing them down to the generations to come.**

# Delegating tasks

Main ViewBy peopleAll tasks +

FilterSort⚡🔍🔗...New

↑ Status ▾

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👤 Assignee ▾

📅 Due ▾

+ Add filter

P prachi s 7/9

🌱 Saadaf 6/9

Q Qiyue Zhang 3/5 ... +

🖤 elice yewon Hong 3/4

🇯🇵 Jiayi Zhang 3/4

▶ ● Not started 0

▼ ● In progress 5 ... +

▶ ● Done 7

▶ ● Archived 11

Prototype 1 presentation

google slides project outline

prototypes assessment

moving forward

Participation Stuff

update process section

submit team canvas

submit landing page

+ New

Watch W4 Prerecording

💬 2

Prototype 1 presentation

google slides project outline

prototypes assessment

moving forward

prototypes - gps response

💬 2

+ New

Prototype 1 presentation

google slides project outline

prototypes assessment

moving forward

prototypes - storyboarding

+ New

Prototype 1 presentation

google slides project outline

prototypes assessment

moving forward

+ New

Prototype 1 presentation

google slides project outline

prototypes assessment

moving forward

+ New

prototypes - website wireframe

prototypes - app wireframe

prototypes - soundscape

+ New

prototypes - adobe aero AR examples

+ New

prototypes - moodboards

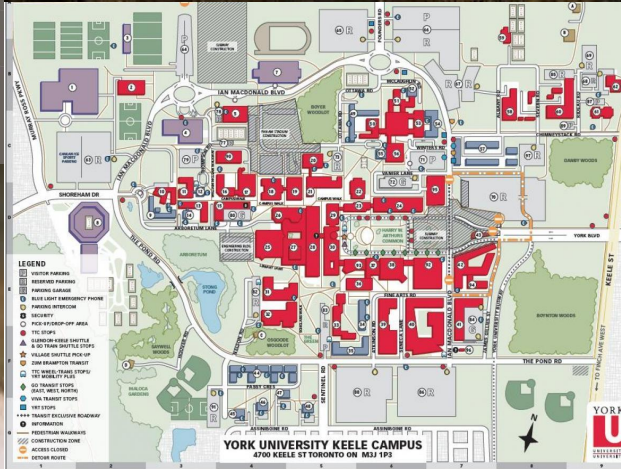
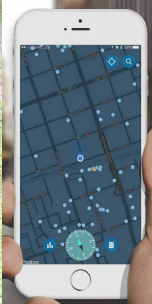
+ New

?

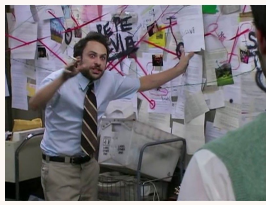
# Prototypes



# moodboard



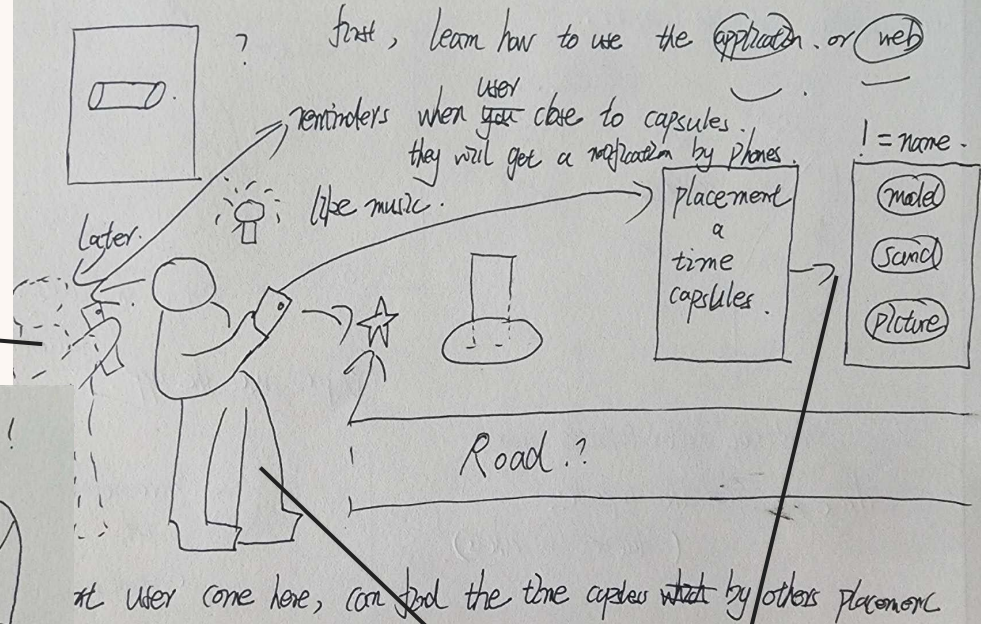
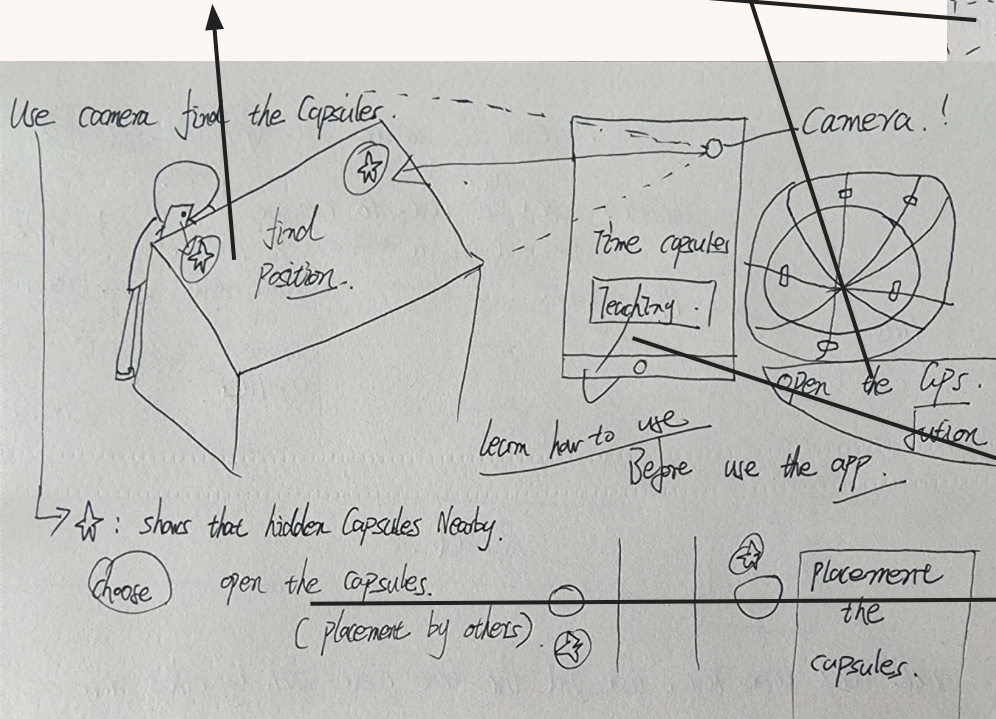




# Storyboard

## Camera and GPS

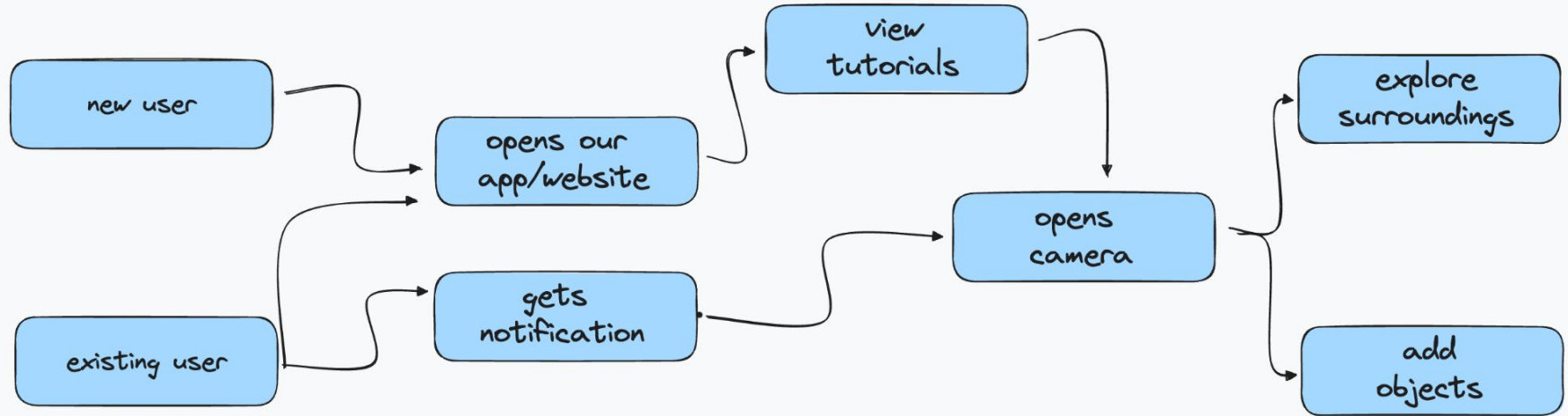
Find the time capsules



Learn how to use

Placing the time capsules

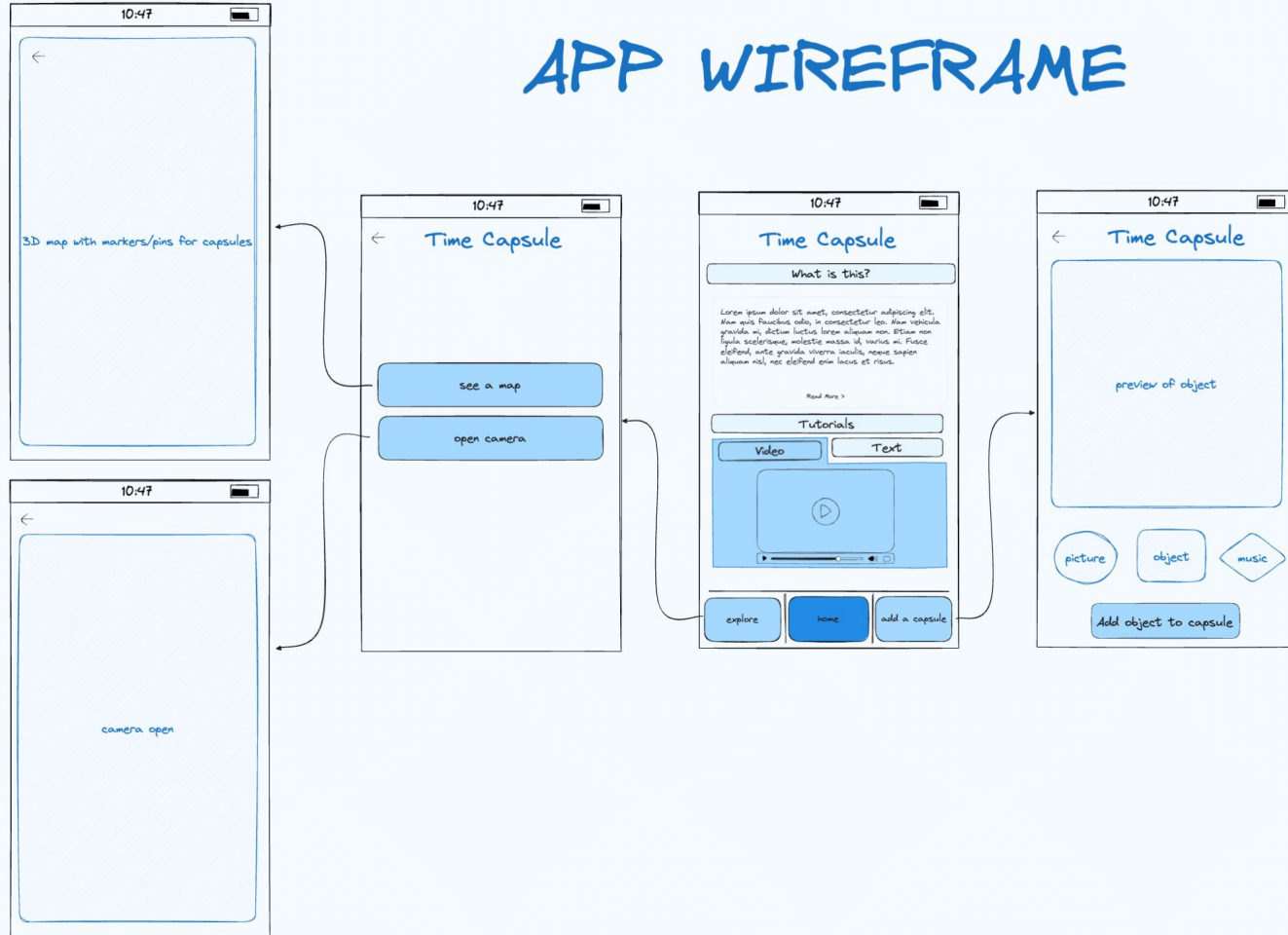
# Flowchart







# APP WIREFRAME



10:47

11:11

February 7th, 2024

Time Capsule Notification

now

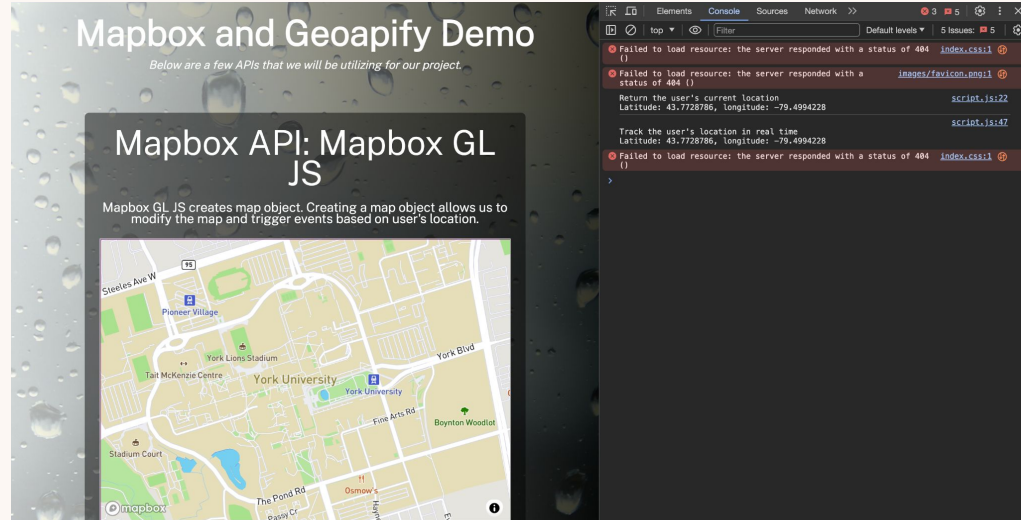
Hey XYZ!

You're near a time capsule! Open the app to explore  
your surroundings!

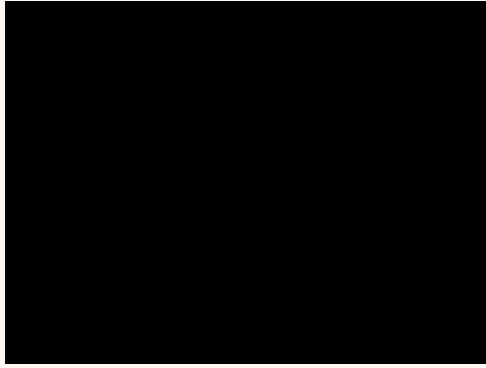
# Location-based services

**<https://saadafalt.github.io/Mapbox-Prototype-1/>**

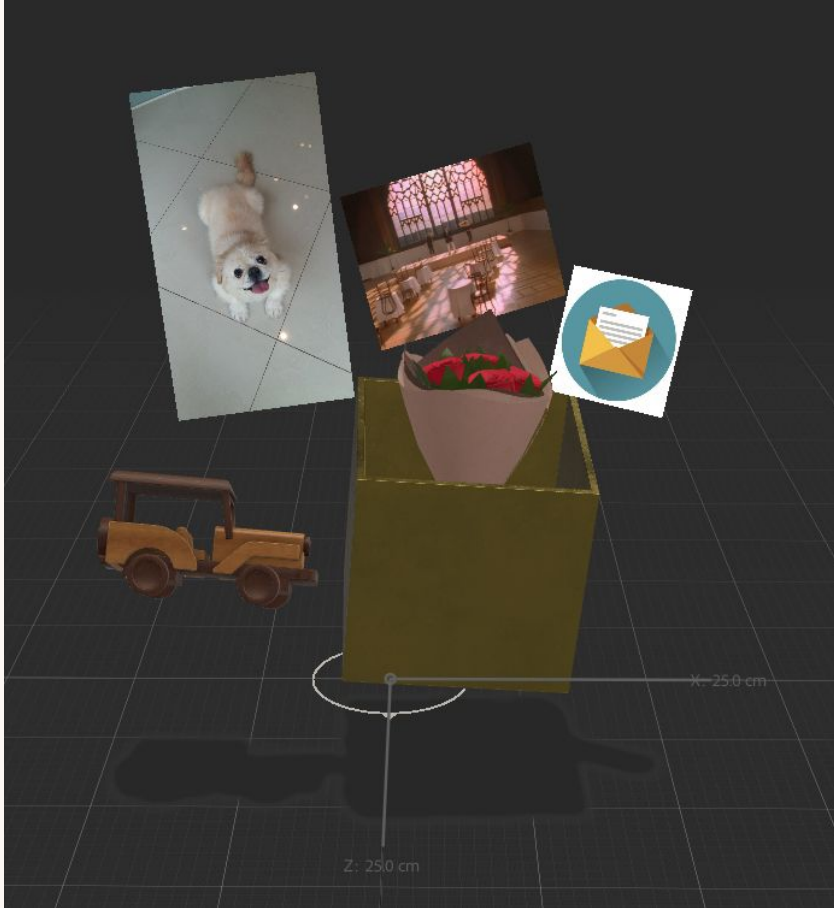
- **Collecting user data**
- **Collecting location-based data**
- **Making map interactive**



# Example of time capsule interaction



## objects example

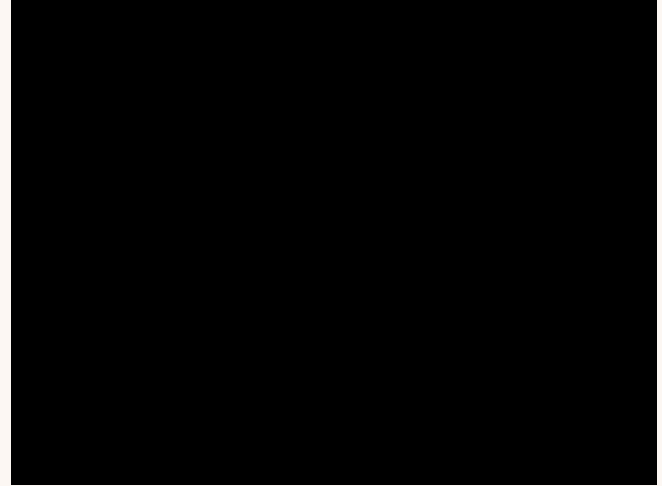


- Time capsule box
- Images
- Video
- Letter / Document
- Other Objects



objects example

## *Time Capsule*



Tap on the time capsule to open the box and reveal the items inside

# objects example

## *Video*



Tap on the image to go to the video URL

# objects example

## *Letter/ Documents*



Tap on the icon and the document will be opened

# objects example

## *Images*



No specific behaviours has been added yet

# objects example

## *Other Objects*

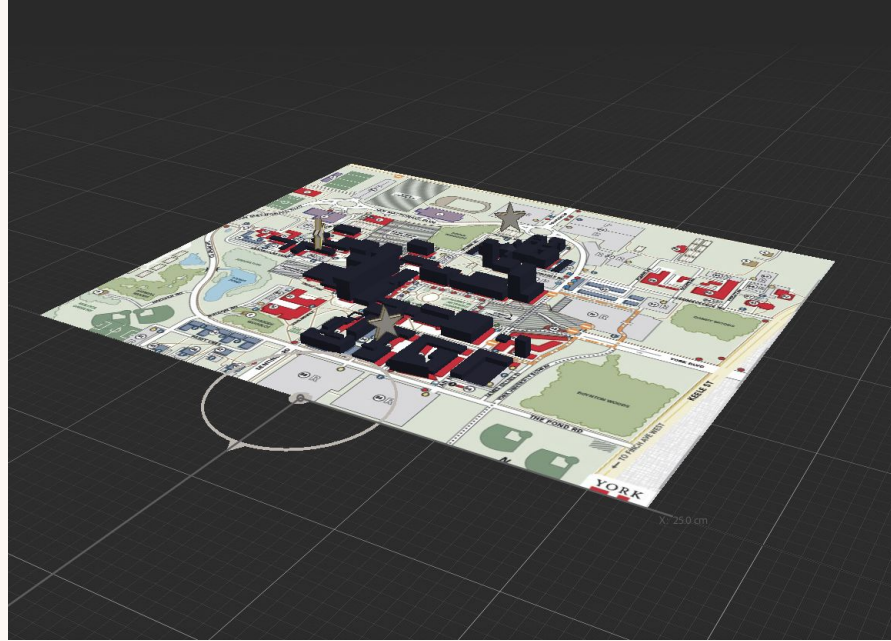


Other memorable 3D objects can be added with specific behaviours such as making sounds or link to other sites



# objects example

## *Map*



2D image of the map turns into a 3D modeled map with a location of the time capsules.

objects example

*Map*



# Soundscape

Notification Tone



Correct Location Tone



# What have we learned?

## multiple capsules in a small area

Chances of multiple capsules existing in one area which can cause confusion.

How do we constrict/limit the number?

## GPS issues when indoors

Difficulty in accessing accurate latitude and longitude coordinates when users are inside buildings. Not impossible, just less accurate

## permissions required!

Users need to grant our platform access to their location in order for them to use it + get notifications. We also need access to the users camera when they use the app (so we have to ask them)

## overwhelm from many different objects

Having too many choices of objects to include in a time capsule could overwhelm the user i.e choice paralysis

# What are we changing?

## Locations

Probably expanding the boundaries of where the platform is usable i.e giving users more options for locations

## Limiting object options

Limiting the different kind of objects people can store to a sub-category of things. Eg: childhood toys

## More personalization

Exploring the concept of allowing users to sign their name on someone else's time capsule when they've visited. Eg: comments, stickers, etc



# Project Tech Stack



For developing the 3D environment



For making map interactive and more appealing  
For location-based services



For retrieving user's location-based data



For storing object data

# Next Steps

What will we test next?

- GPS API (MapBox) functionality with Unity
- Getting objects to appear based on location

What will we refine - what do we keep?

- Types of time capsule items
- Map functionality - 2D, 3D, with markers/pinpoints

What do we discard?

- Based on time constraints: app development (keeping a simple website)
- Unlimited capsule items

# Our Questions

## Sub-categories

If we plan to limit the type of objects one can add to capsules, what category of items would you like to see?

## Making things private

How do people feel about public access capsules?  
Would they like the option of password-protected capsules too?

## Tutorials

Would people prefer video tutorials or descriptive, written tutorials?

The image features a light beige background with the word "Questions?" centered in a brown serif font. The corners are decorated with teal pixelated patterns: a diagonal line in the top-left, a horizontal wavy line in the top-center, a diagonal line in the top-right, a horizontal wavy line in the bottom-left, a diagonal line in the bottom-center, and a horizontal wavy line in the bottom-right. Small L-shaped corner marks are also present in each corner.

Questions?