

PARTNERS

- Benemérita Universidad Autónoma de Puebla



- Tokyo University of Technology, School of Media Science



- LUCA School



- University of Ostrava



- School of Art at Northern Illinois University



- Harz University of Applied Sciences

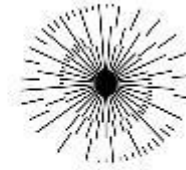




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GAME LAB

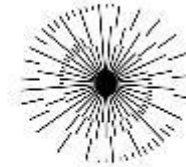
Northern Illinois University USA



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Aleksandra Giza

Amanda VanValkenburg

STUDENTS TEAM

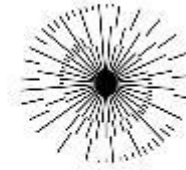
Pascal Janssen, Germany

Ina Murphy, USA

Agata Samborska, Poland

Ola Szwagulska, USA

Danielle Gross, USA



Ciphers and Language in Game Design

A Unity based narrative game focusing on ciphers and de-coding language utilizing 2D and 3D game design elements.

The goal of our project is to translate the idea of communicating through ciphers and codes into a video game that makes an attempt to decipher an unknown language.

Refining and Re-working the original idea.

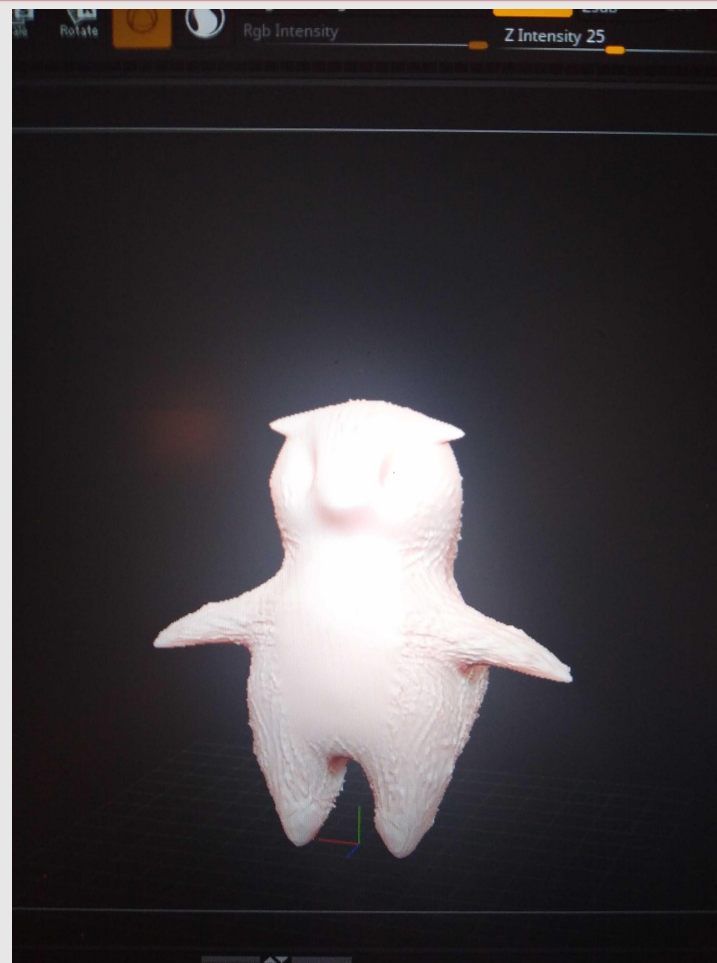
After presenting on the first milestone, we encouraged the students to think of a unifying idea for the game. The student re-thought their original idea of a straightforward adventure narrative and presenting a new concept.

The new concept builds on the initial premise of using cyphers and de-coding language as a way to build understanding and cooperation between different characters, and to build language skills through interacting with the developed codes and cypher in the environment. By learning the language the player can impact the environment and unlock levels.

Each level was assigned an aspirational quality to unify the design, game play and puzzles.

Key Ideas

- **Mystery** - By researching how cypers and cryptology has been used throughout history, part of the compelling aspect is the interaction with the unknown, the solving of a mystery.
- **Knowledge** - Part of writing systems is to help expand knowledge and record specific ways of understanding and interacting with the world.
- **Communication** - fundamentally language and codes are about communication
- **Interpersonal Relationships** - the students took these ideas of mystery and communication and focused on aspects of two characters learning to communicate, interact, and cooperate.

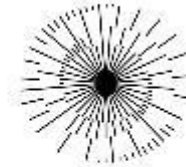


Old Character Design



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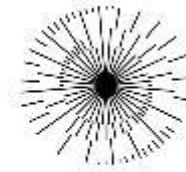
New Character Design



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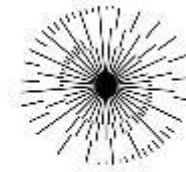
New Character Design



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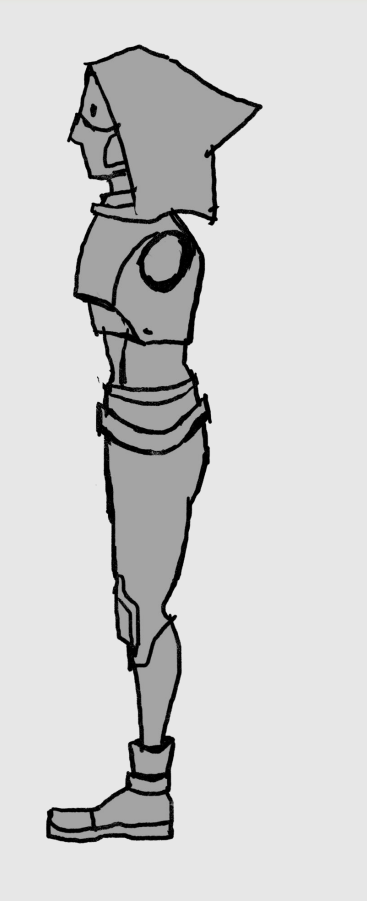
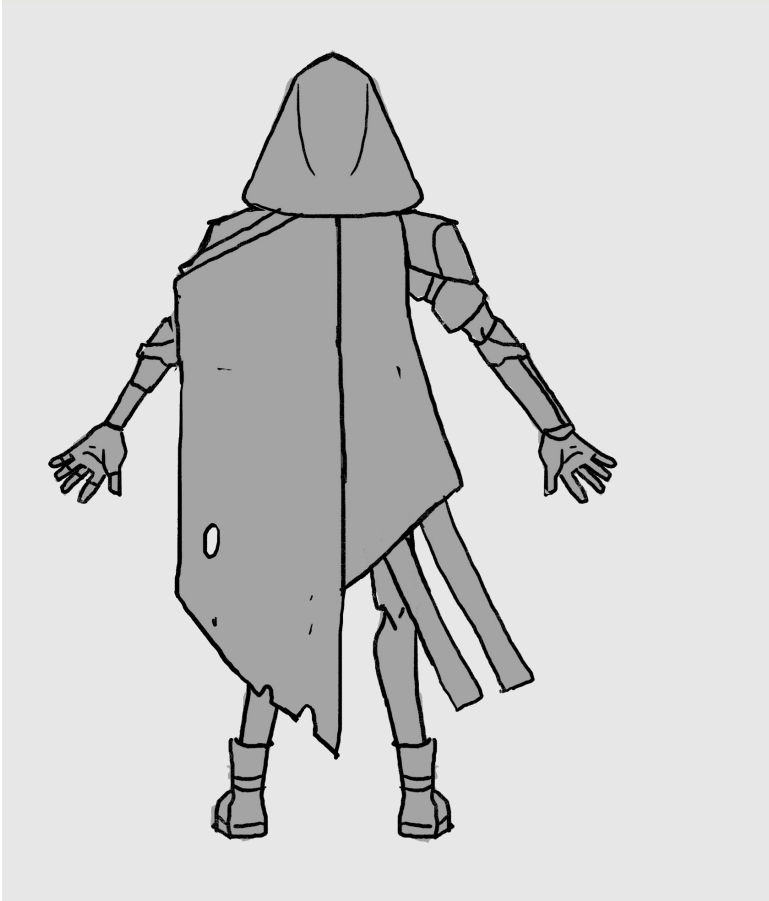
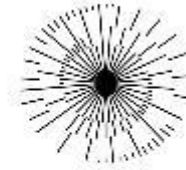
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New Character Design



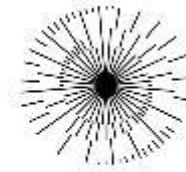
New Character Design



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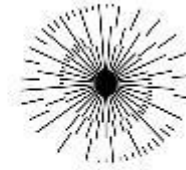
New Character Design



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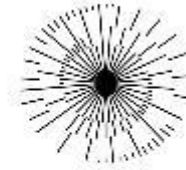
Environmental Design - Peace



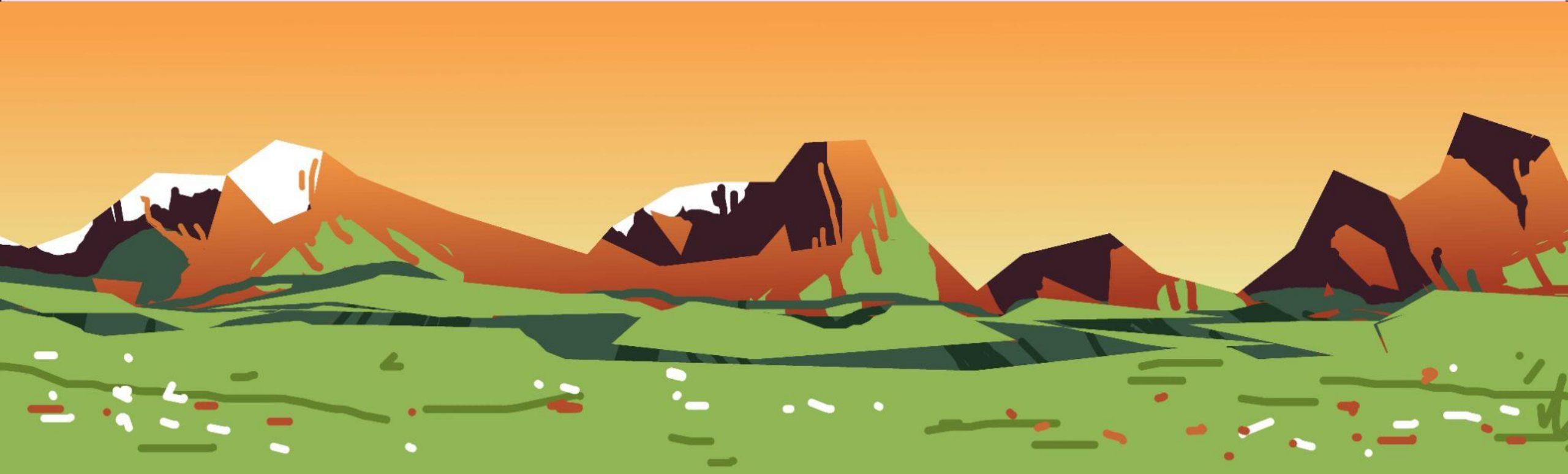
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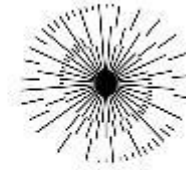
Environmental Design - Motivation



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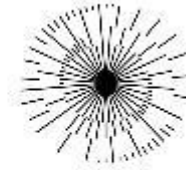


Environmental Design - Friendship



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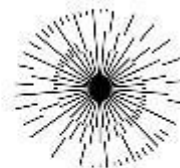
Environmental Design - Patience



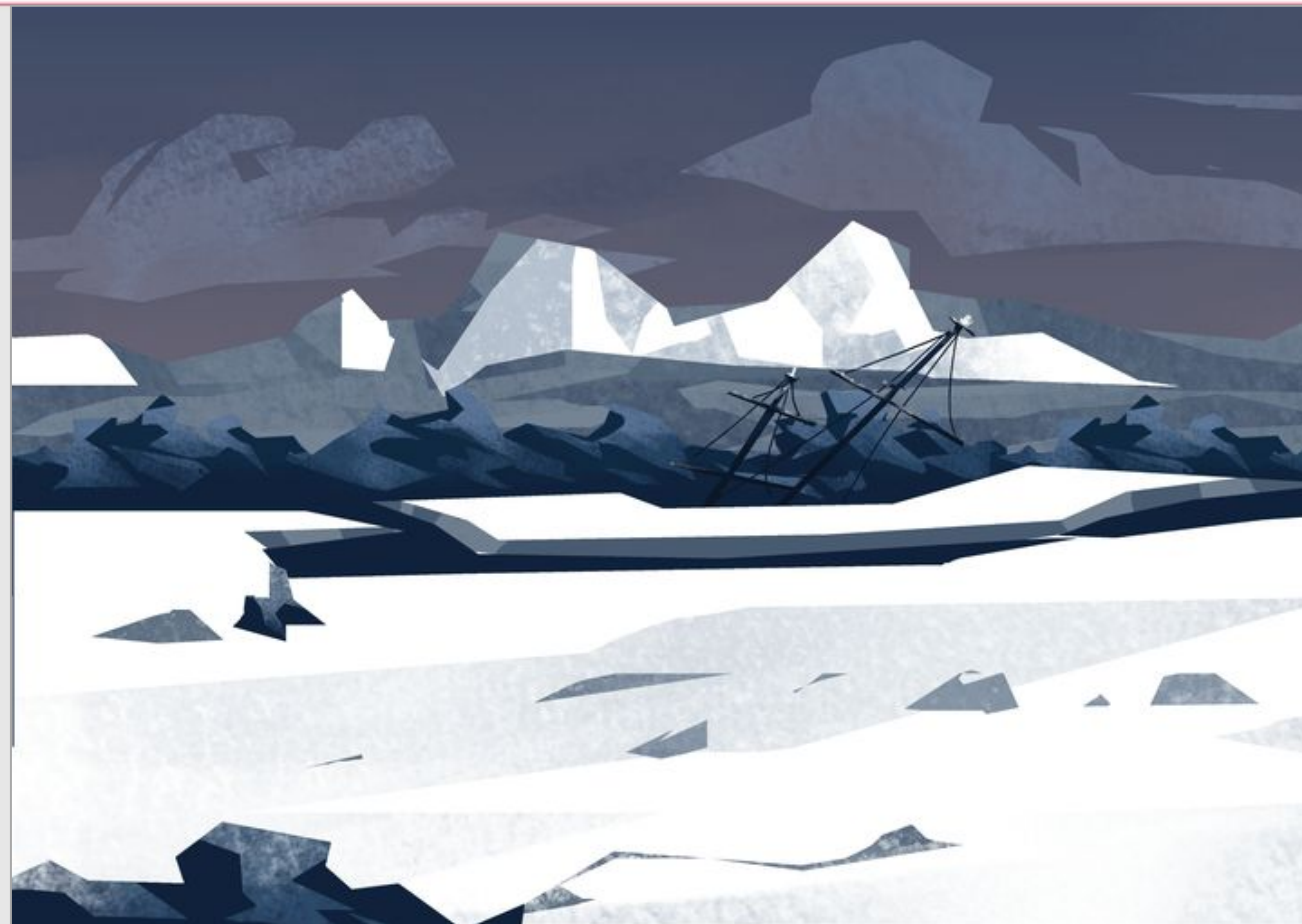
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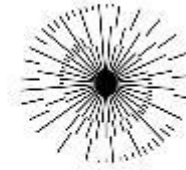
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Environmental Design



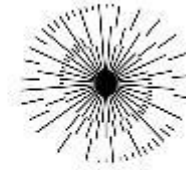
Environmental Design



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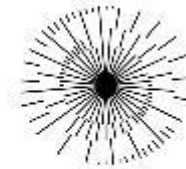
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Environmental Design

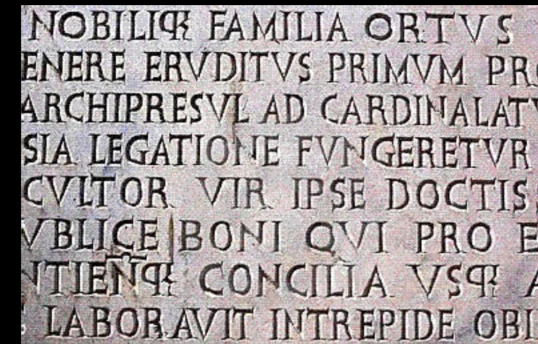


– Picture writing system

glyphs (simplified pictures) directly represent objects and concepts.
In connection with this, the following substages may be distinguished:

- **Mnemonic:** glyphs primarily as a reminder
- **Pictographic:** glyphs directly represent an object or a concept such as chronological, notices, communications, totems, titles, and names, religious, customs, historical, and biographical
- **Ideographic:** graphemes are abstract symbols that directly represent an idea or concept

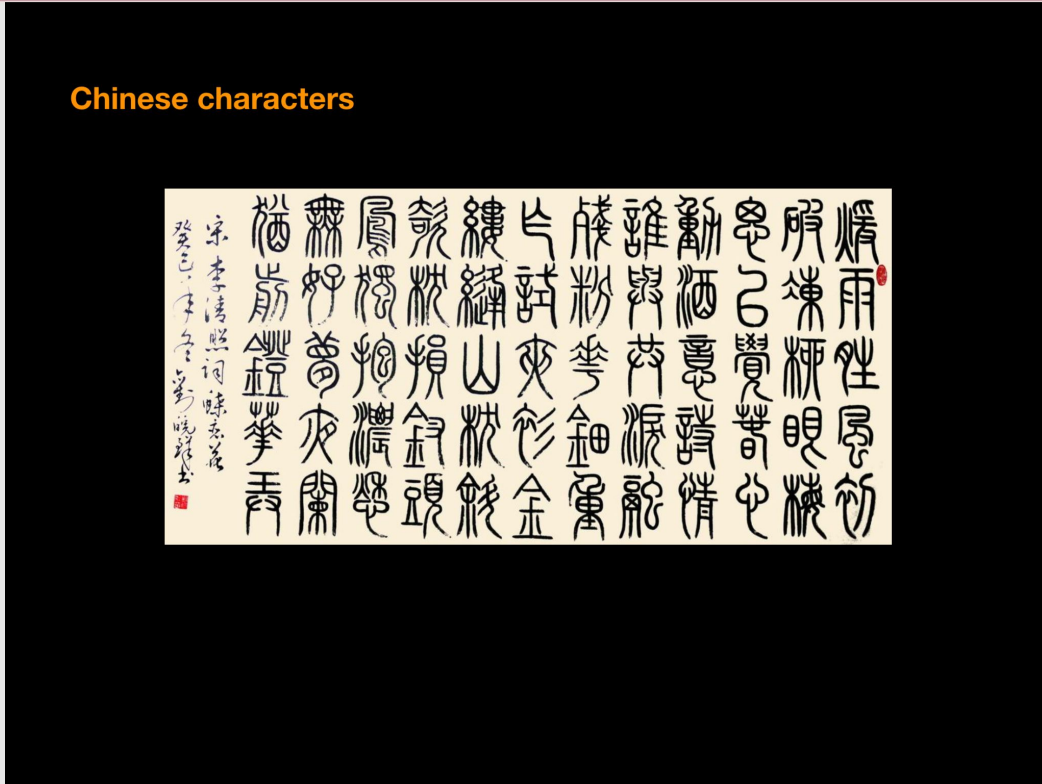
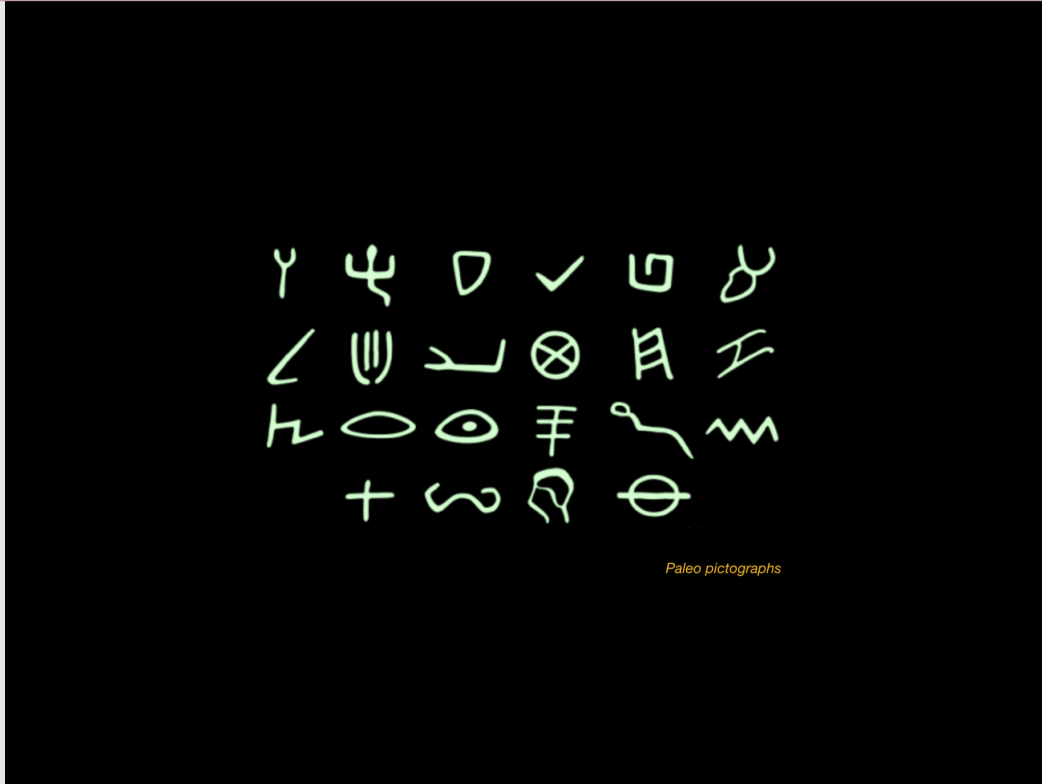
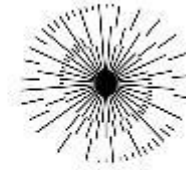
Alphabetic: grapheme represents an elementary sound



Inscription in Latin.

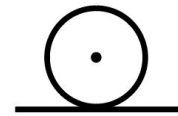
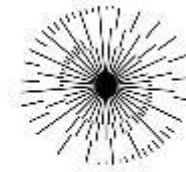
Presentations on Writing Systems.

Work on Ciphers

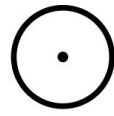


Presentations on Writing Systems.

Work on Ciphers



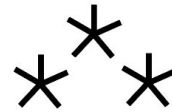
MORNING



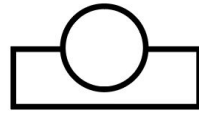
SUN



MOON



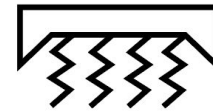
STARS



HORIZON



SKY



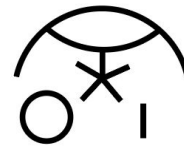
RAIN



FIRE



WATER



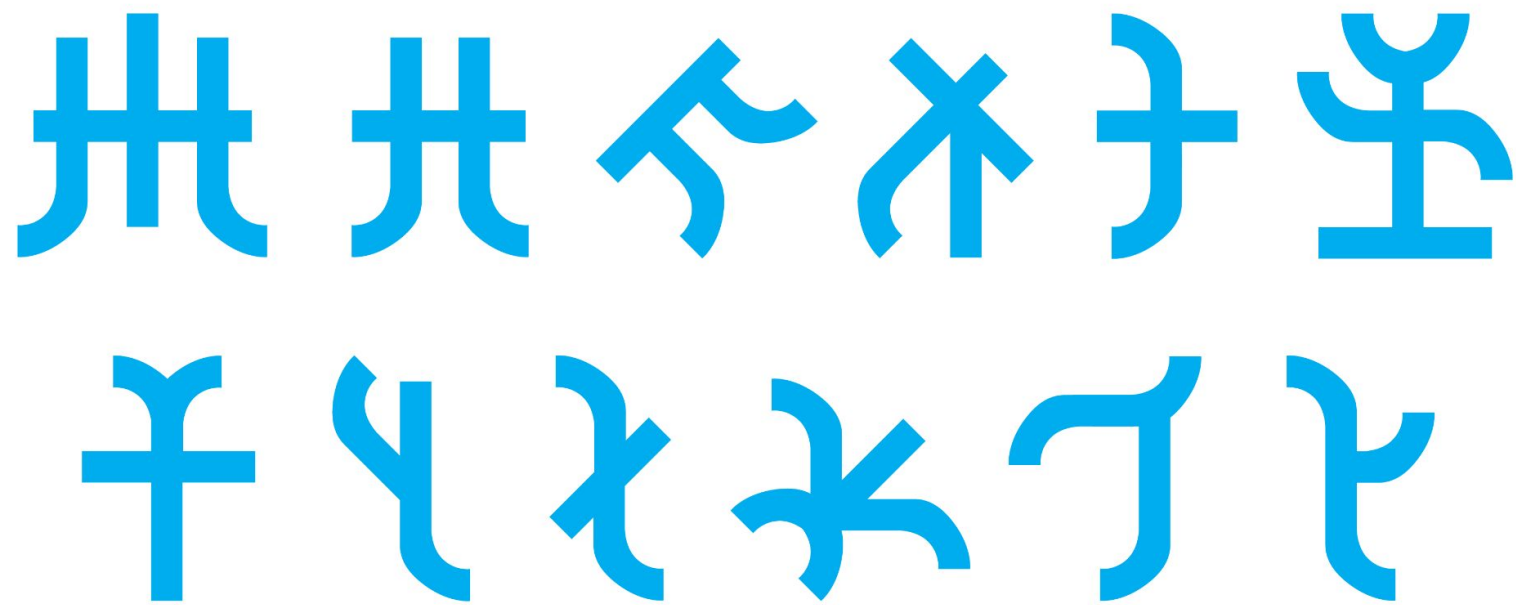
ONE MONTH



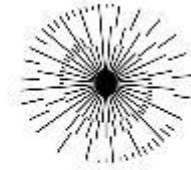
MOUNTAIN

Examples of existing Ideograms

Work on Ciphers



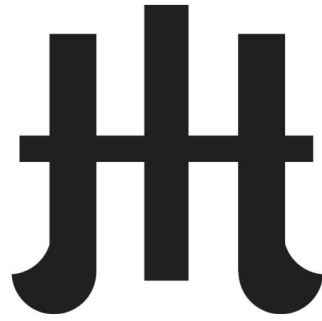
Characters designed by Pascal



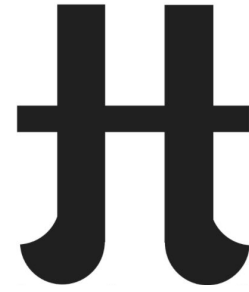
sound



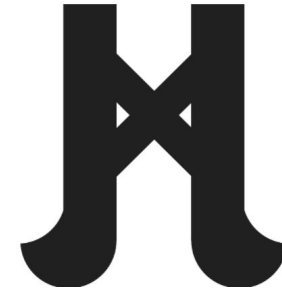
cross



between



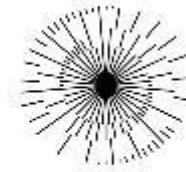
side by side



different



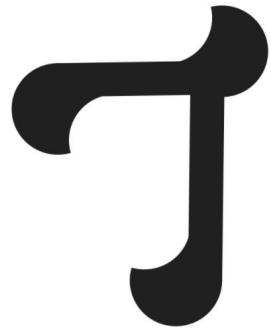
same



stone



fire



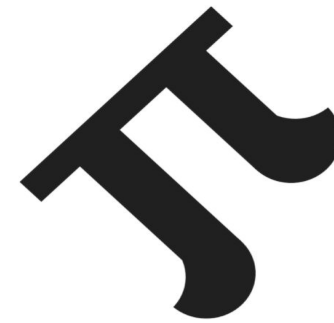
air



more



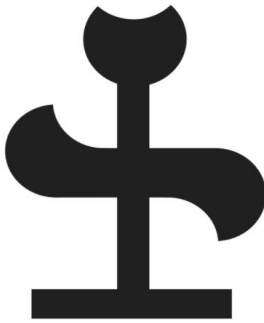
less



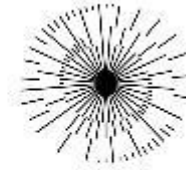
light



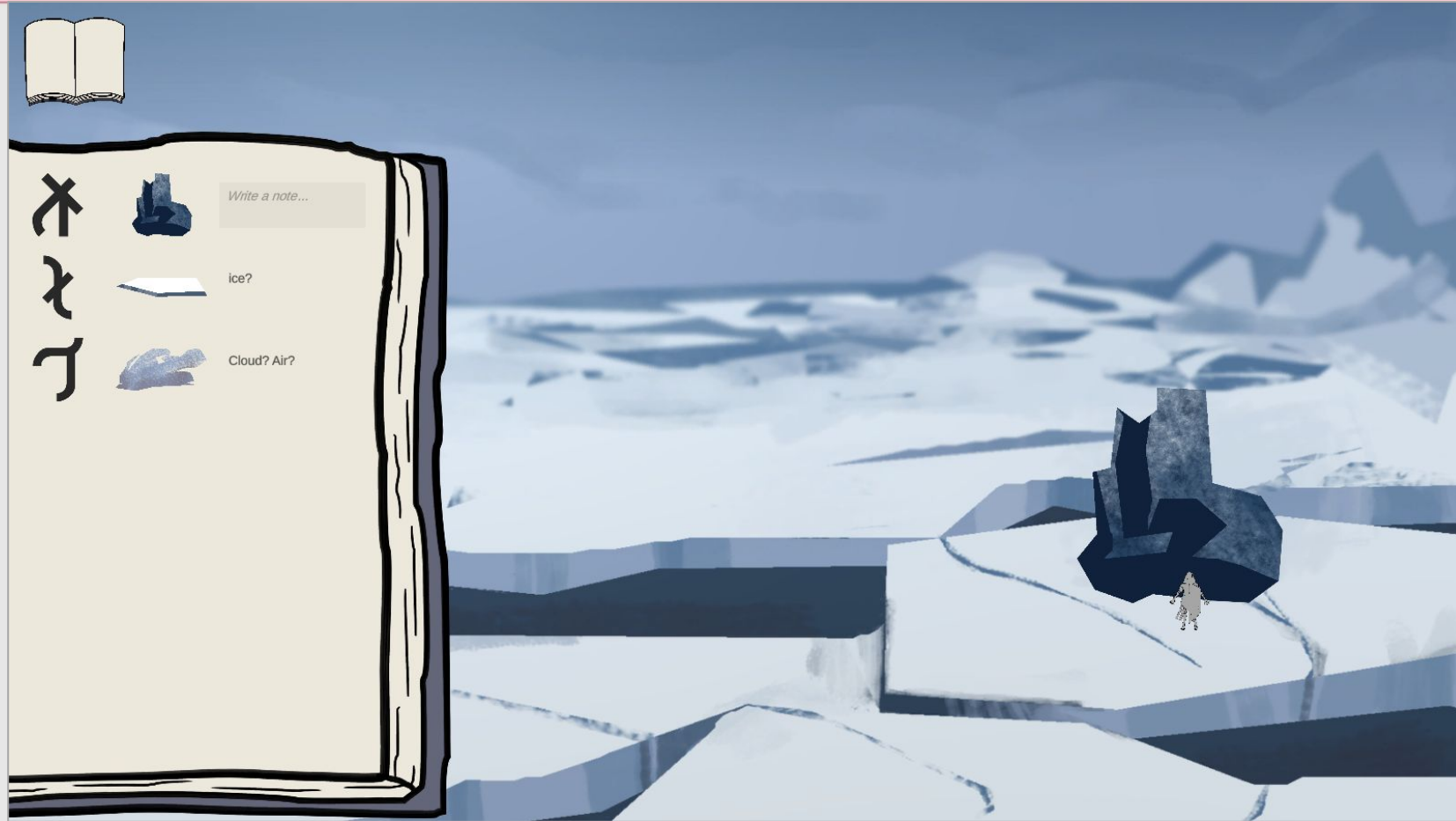
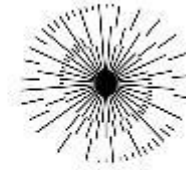
shadow



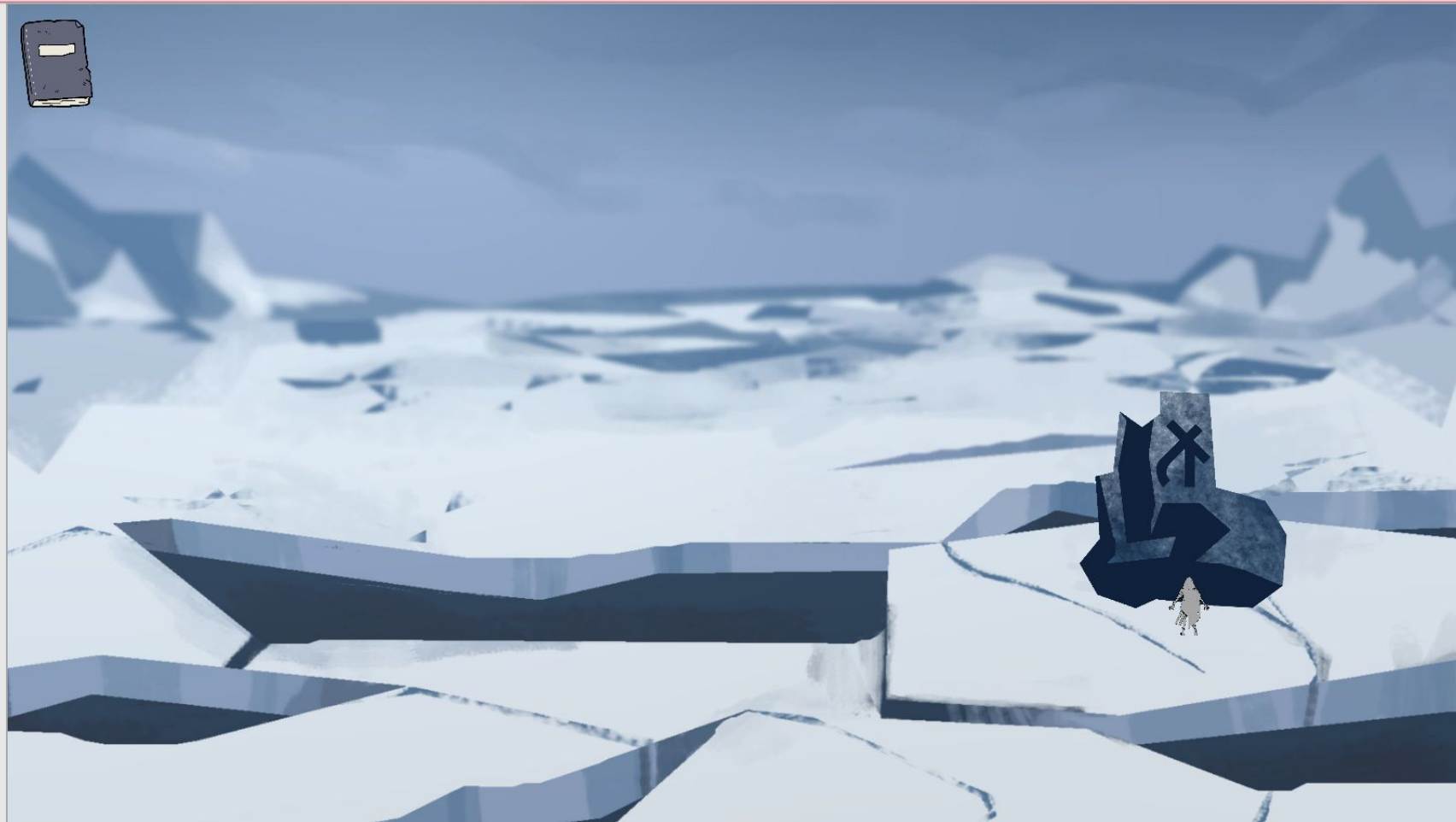
plant



Puzzles



Puzzles



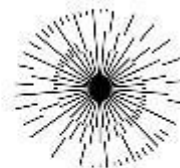
Puzzles



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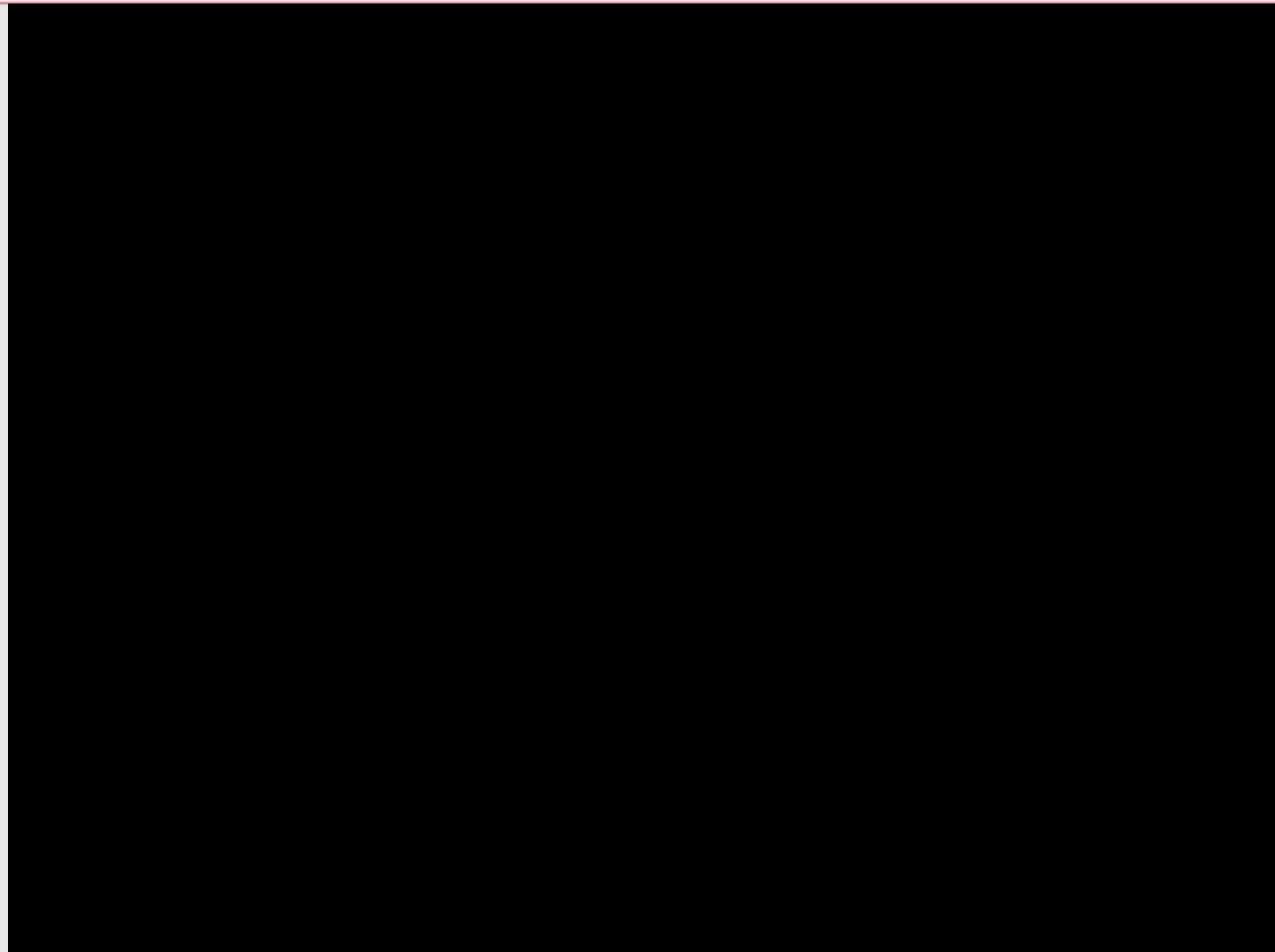


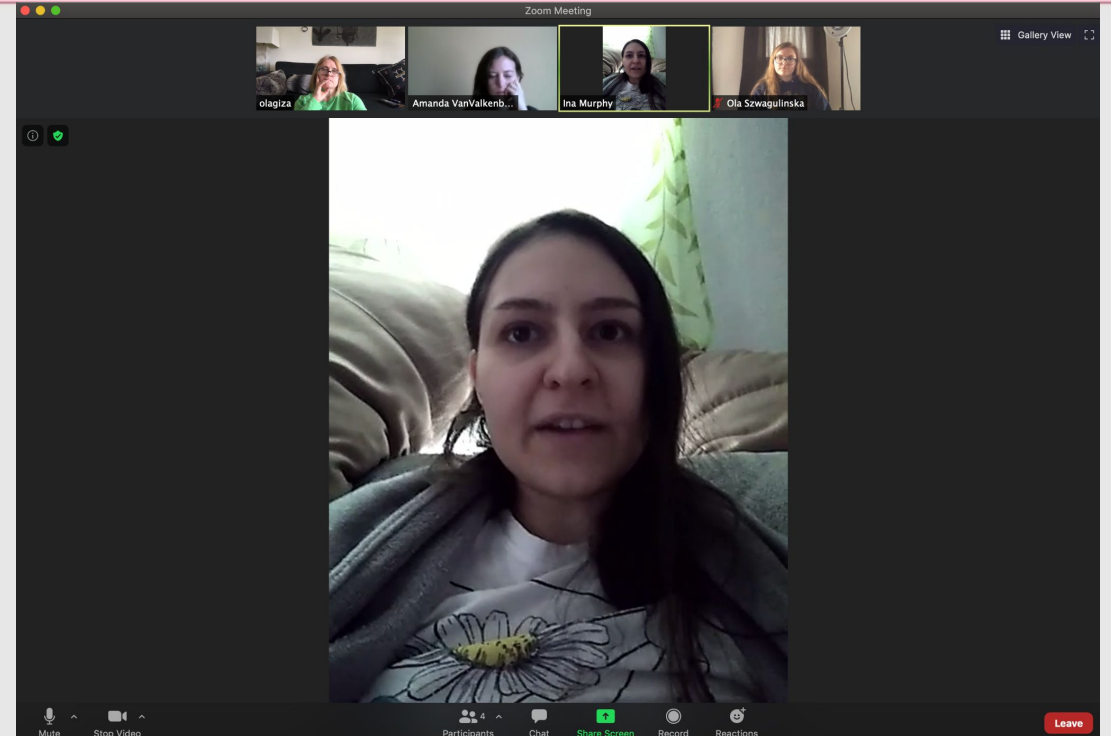
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Gameplay



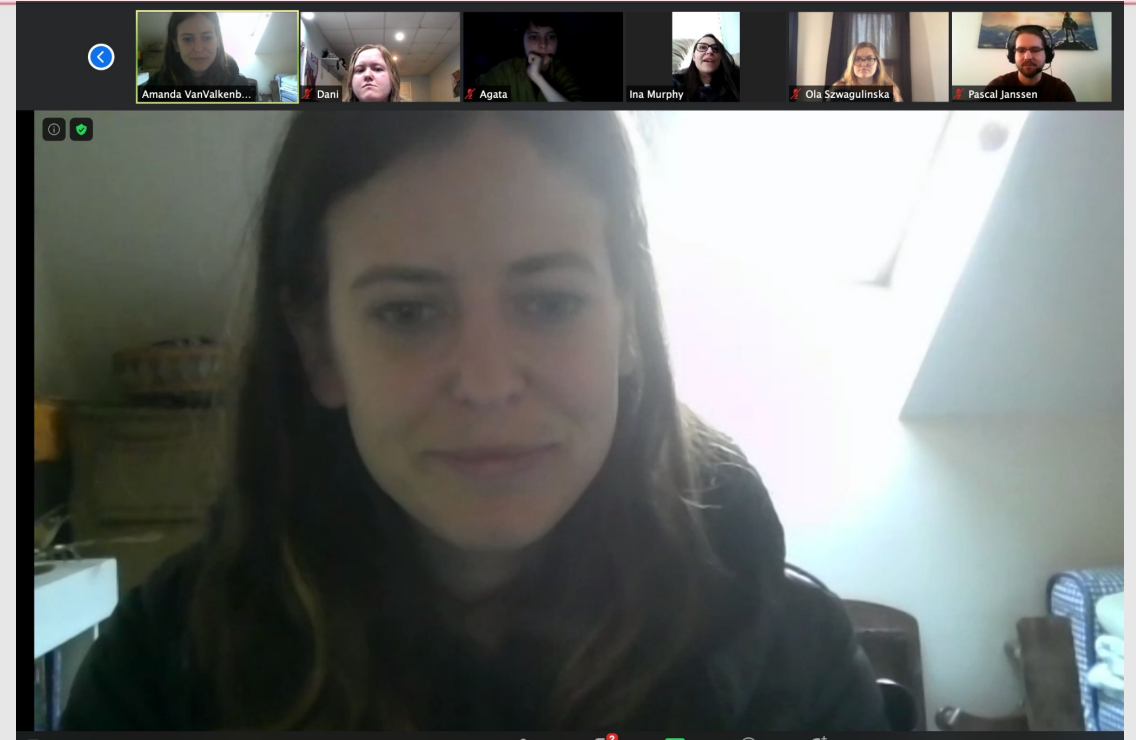


Meeting during which we discussed the characters.

Meetings



Meetings throughout March and April.



Meetings

Thank you.