# AUDIO ADVENTURE ENGINE

I will ask questions,

They will be rhethorical questions

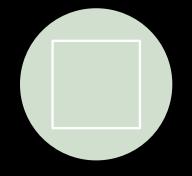
# Do not answer rhetorical questions

# NO AUDIENCE PARTICIPATION

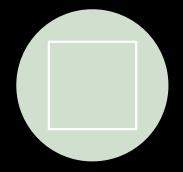
The goal is education, not entertainment

Start the hype up music

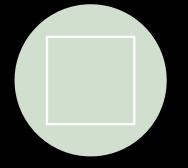
# **OVERVIEW**



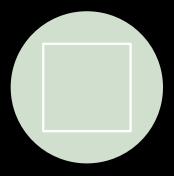




SYSTEM-ARCHITECTURE



SOUND



**STORIES** 

#### **CONCEPT IDEA**

- Create auditive media for visually impaired
- Create immersive storyline

Develope an Engine to make creation of audio games easy

## **INSPRIATIONS**

- Old text-adventure games
- The last of us 2
- TrueBlindGaming

- Simple
- Modular
- Efficient

- Voice Recognition
- Microcontroller Input
- ■3D Audio

Operating system?

Android/iOS

Blind people don't have smartphones

Say it with me:

Blind people don't have smartphones

# I SAID NO AUDIENCE PARTICIPATION!

The interwebz

WebGL

I was building for Windows

Microsoft Voice Recognition

VS

WebGL Voice Recognition

Microcontroller:

Arduino

Gyroscope

Vibration

Randomized Events

Mouse Input

Fail Safe

**But Denise!** 

What about the code?

This is interactive, you have to answer me.

You failed the test!

Ok, here's some code

```
GetGyroscopeData.cs + X GetMousePosition.cs
SaveMaster.cs
               VoiceCommands.cs
                                  WebGL_VoiceCommands.cs
                                                                                                  FootStepsSound.cs
                                                                                                                    DestroyThisObject.cs
                                                                                                                                        ShowInventory.cs
                                                                                                                                                          AfterAudioFinishDo.cs
                                                                                                                                                                               TurnOnChoices.cs
                                                                                                                                                                                                 IfCounterOverDo.cs
                                                                                                                                                                                                                    FailedTol
Assembly-CSharp
                                                                                                      → de GetGyroscopeData
         □public class GetGyroscopeData : MonoBehaviour
               SerialPort sp = new SerialPort("COM10", 9600);
               public Vector3 currentRotation;
               public Vector3 lastRotation = new Vector3(0, 0, 0);
               public float rotationDifference;
               [SerializeField]
               public int counter = 0;
               public bool vibrate;
               AudioSource wandSound;
                void Start()
                    sp.Open();
                   sp.DtrEnable = true; // We configure data control by DTR.
                   sp.ReadTimeout = 100;
                    sp.WriteTimeout = 100;
                   wandSound = GetComponent<AudioSource>();
                   wandSound.Play(0);
                   wandSound.Pause();
                void LateUpdate()
                    readSerialInput();
                    getGyroscopeDifference();
                    increaseVolumeWithcounter();
                    this.transform.rotation = Quaternion.Slerp(this.transform.rotation, Quaternion.Euler(currentRotation), Time.deltaTime * 2f);
    418
100 %
         Ausgabe
                                                   - | <u>2</u> | 2 ≥ | 3 ≥ | 3 ≥ |
Ausgabe anzeigen von: Quellcodeverwaltung - Git
Öffnen von Repositorys:
```

C:\Users\denis\Documents\GitHub\Orientationproject\_2020

# If you want to read about code, I have documented everything here:

https://github.com/DeniseBischof/Orientationproject\_2020/wiki

My assistant will send it in the chat

**Spatial Audio** 

**Sound Particles** 

8D! Audio

# **SOUND**

- No voice actors
- No decent studio













# SOUND

**TEXT-TO-SPEECH** 



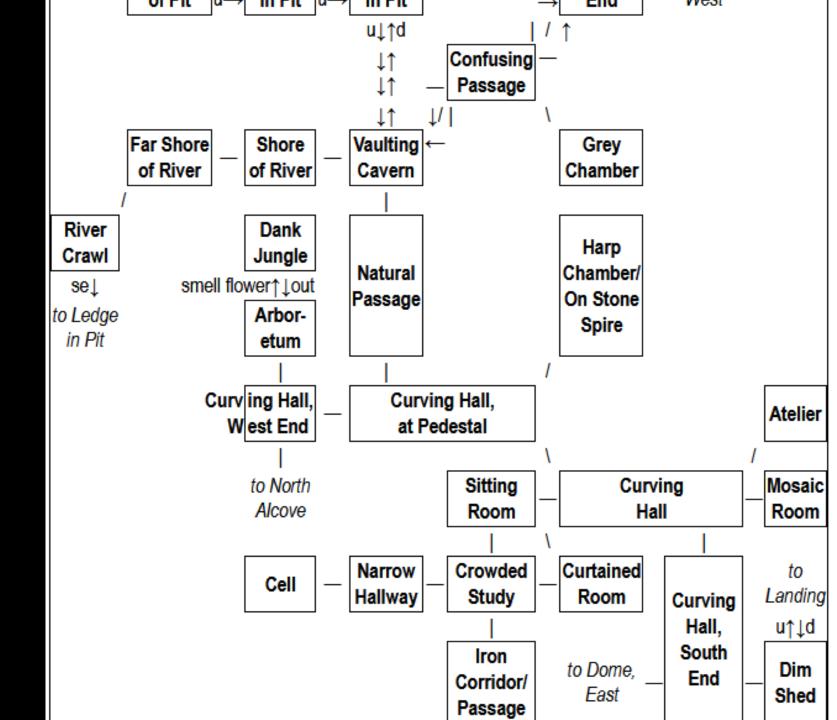
Dyslexia Font

THE BEAST, IN THE KAY-VVE

# SOUND

- Audacity
- Freesound.com
- Unity Spatial Audio

THE DREAMHOLD



- Too big
- Too complex

- Search for new ideas
- Found twine

Lost too many hours of my life

- Played in total over 68 hours
- Found "I told you this was a bad idea"
- Got better at story writing

- Played in total over 68 hours
- Found "I told you this was a bad idea"
- Got better at story writing...

- Played in total over 68 hours
- Found "I told you this was a bad idea"
- Got better at story writing... not?

# OUTLOOK

- A lot of bugs to fix
- Twine integration? Would be rad

## OUTLOOK

- Audio only playstyle can be extremely immersive
- Very nice to do while doing other things

#### **OUTLOOK**

 User feedback (is it ok if I add this later, it is just going to be a picture I think)

# Trailer