

# Talking Paintings: Learning About Art Using Voice & Auditory Methods

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# Premise

Aim: To make an interactive learning experience for both children and art history lovers, using voice and audio interactions.

Problems with the current museum audio guides:

- do not adapt to different user groups
- narrative, lack interaction, might be boring



# Research on User Experience Scenario

We used Wizard of Oz method to gather user requirements and define user experience scenarios

Recruited people with different levels of knowledge about art

Used animated painting with speech

Used 2 different soundscapes



# Findings of the research

- People wanted to know about person in the painting, the painting itself and why the painting is famous
- The interaction differed between those who had art history background and who saw the portrait for the first time
- Soundscapes greatly change the perception
- The feedback of interactive interaction was highly positive

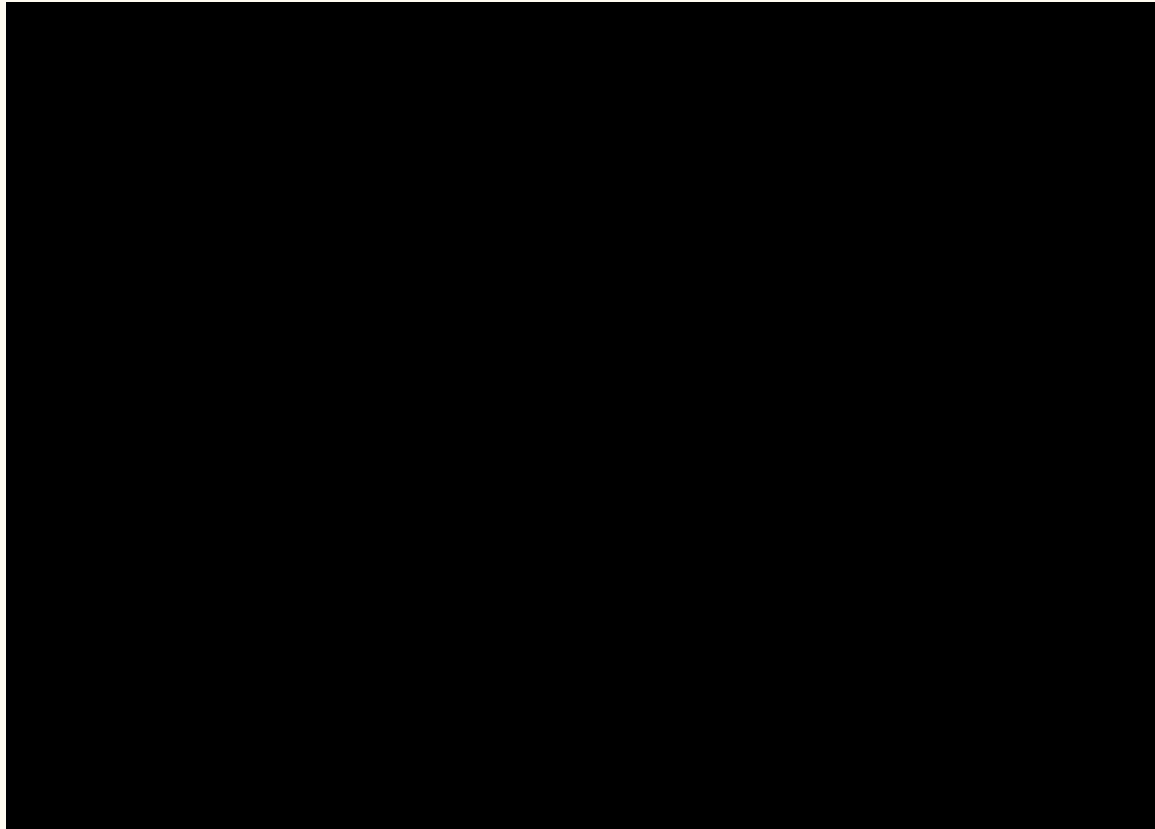
# Evolution of Project. Part 1

We focused on voice interaction (without animation) and created the app that could be used both in traditional museums and digital exhibitions.

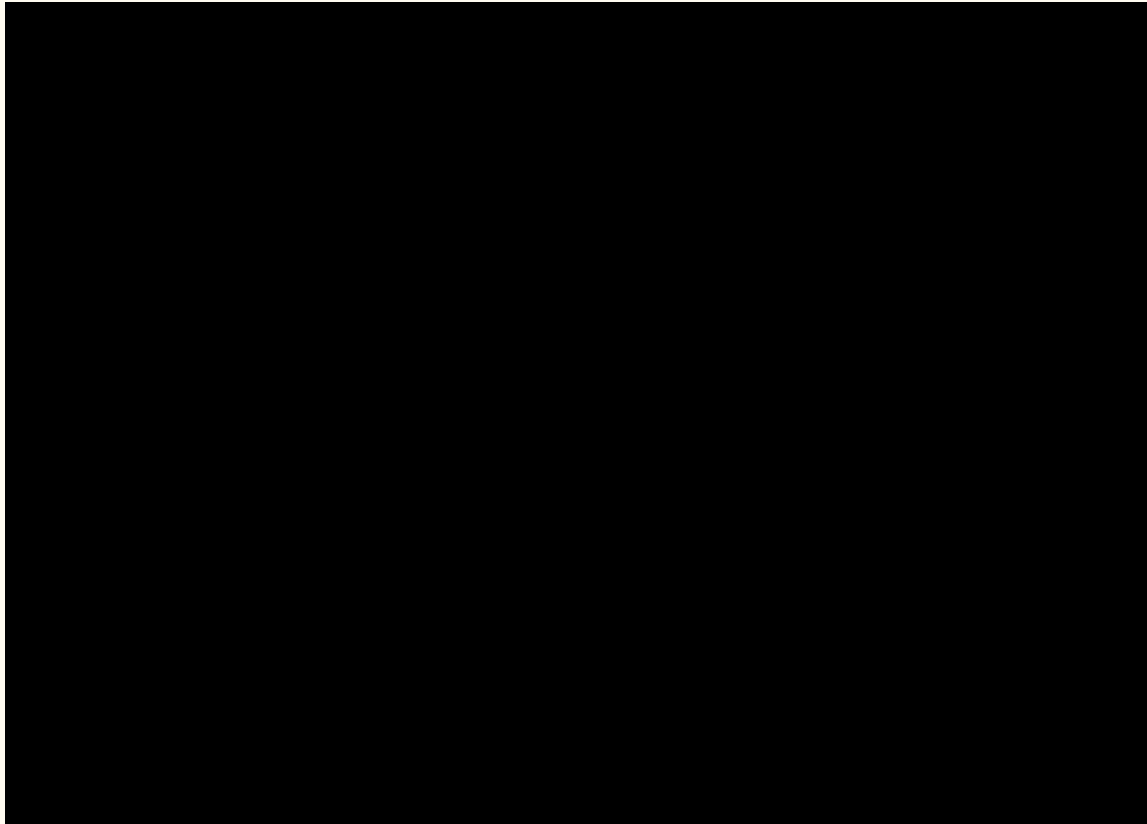
We created the voice app using Voiceflow where the user could interact with the portrait.



## Part 2. Curator view



## Part 3. Portrait interaction for children



# Overall Challenges and Considerations

- Making the interaction natural
- How music can influence interpretation
- Choice of language for different user groups
- Children voice synthesis
- Background of the user
- Height of the painting



# Further Research

- Visually impaired user group
- Dyslexia user group
- Multiple characters in the painting
- Multiple users at the same time
- Animated paintings
- Motion sensors for detecting users

# References

## Sounds

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## Research

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[A CrazyTalk animated film titled - "Picture Cooperative " created by the Yekaterinburg Gallery in Russia.](#) (Youtube video)

[Audio Visual interaction based on AI paintings](#) (Youtube video)

[Create a 3D Scene from a Photo in After Effects](#) (Youtube video)

[How to animate a Painting \(Intermediate Tutorial\) - After effects, Blender](#) (Youtube video)

[How to make any photo start talking](#) (Youtube video)