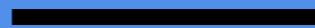


ARSV



Augmented Reality Speakers View

University of Applied Sciences Augsburg
Interaction Engineering WS19/20
Prof. Dr. Michael Kipp

| Motivation

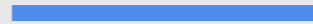


| Related work

- Hyrskykari, Istance, Vickers:
Gaze gestures or dwell-based interaction?
- Tönnis, Plavšić:
Survey and Classification of Head-Up Display Presentation Principles

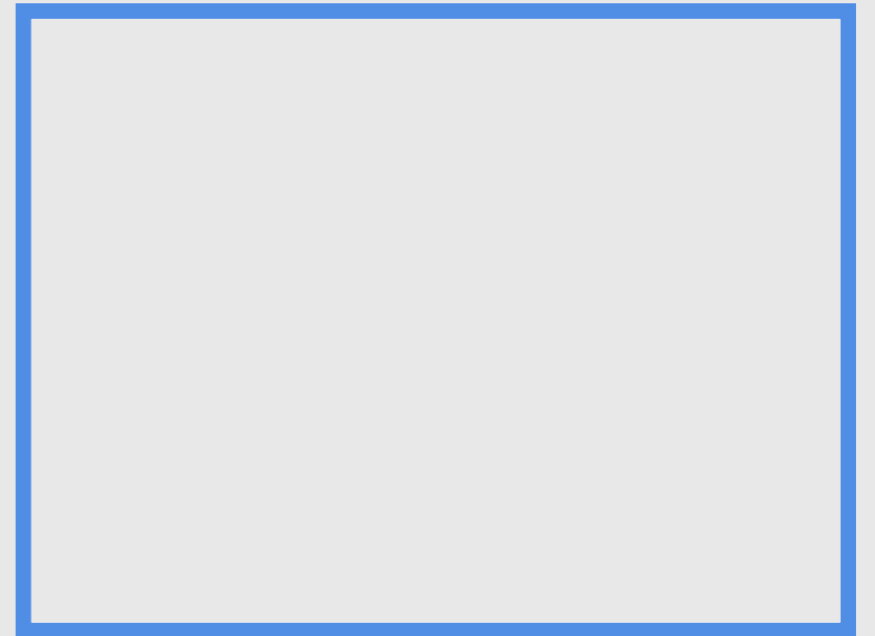
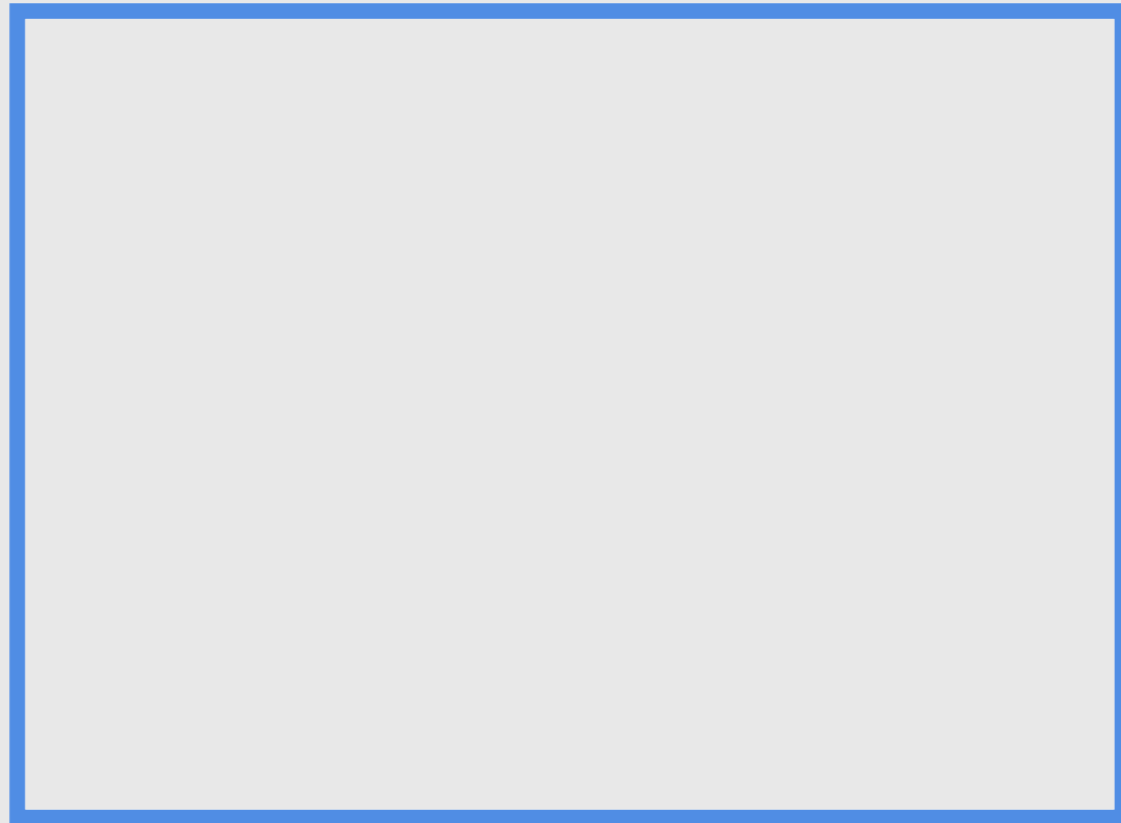
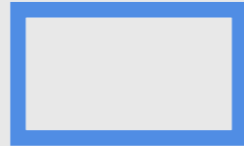
| Concept

A **novel way of presenting**, allowing the speaker to **present freely** without looking at a screen or using a keyboard or clicker to change slides.



Concept Layout

Timer



Notes



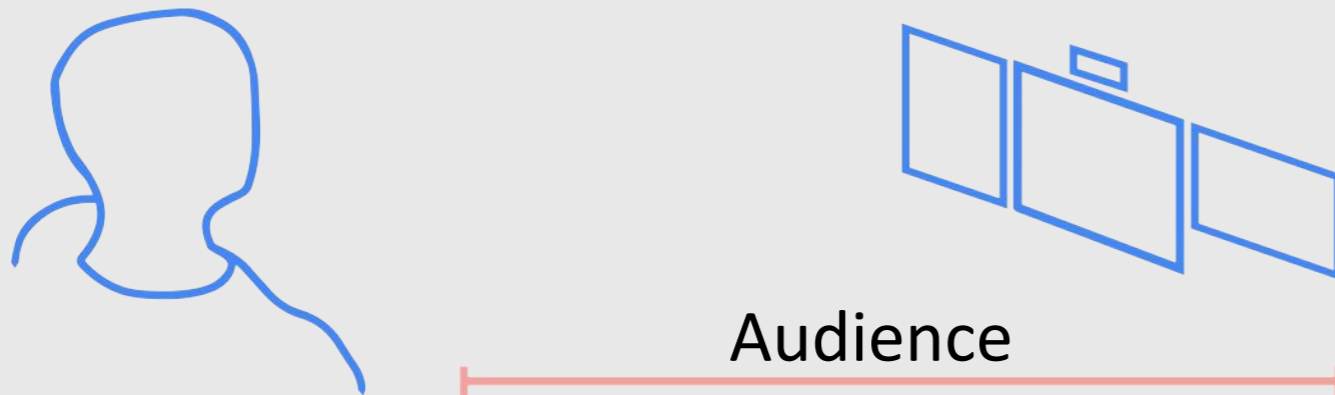
Current slide



Next slide

Concept Layout Variation 1

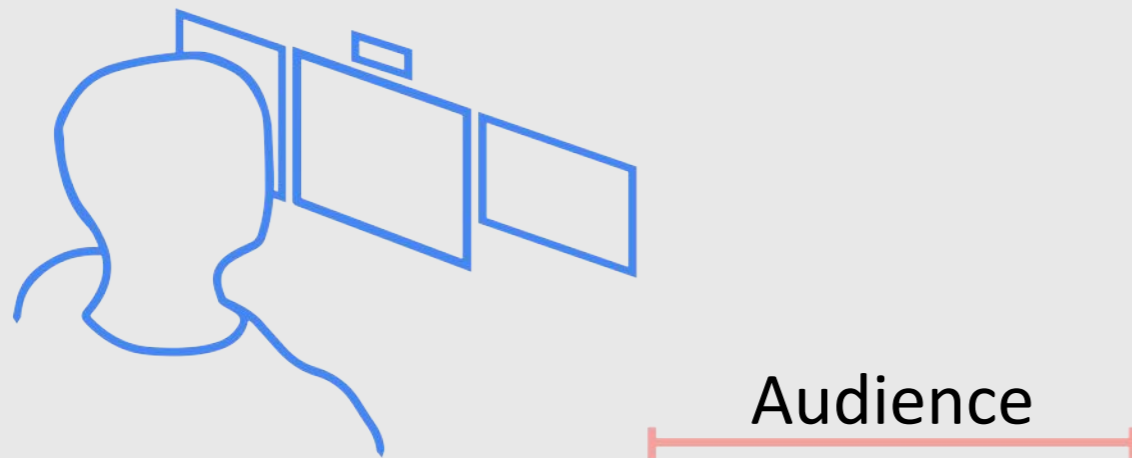
Spatial



- Elements fixed in space
- Located in depth of the room
- Elements can be emphasized

Concept Layout Variation 2

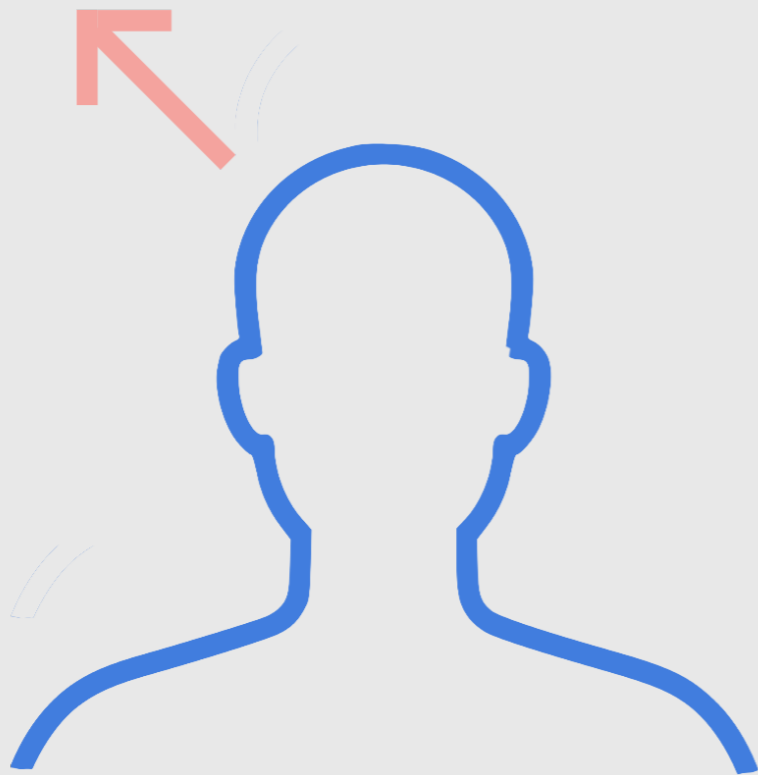
Head-Up-Display (HUD)



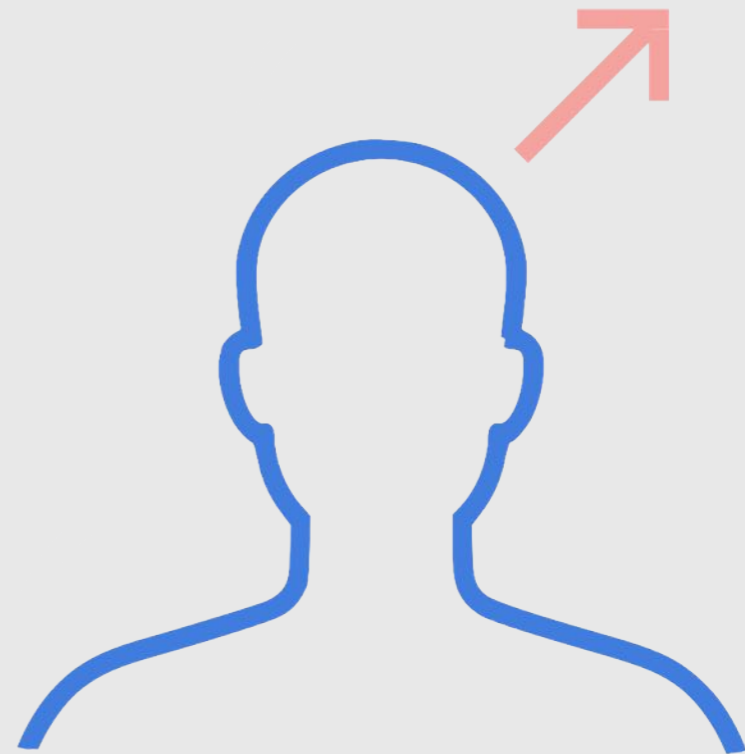
- Elements linked to user
- Moved alongside sight of user
- Elements can't be emphasized

| **Concept** Interactions

Slide changing



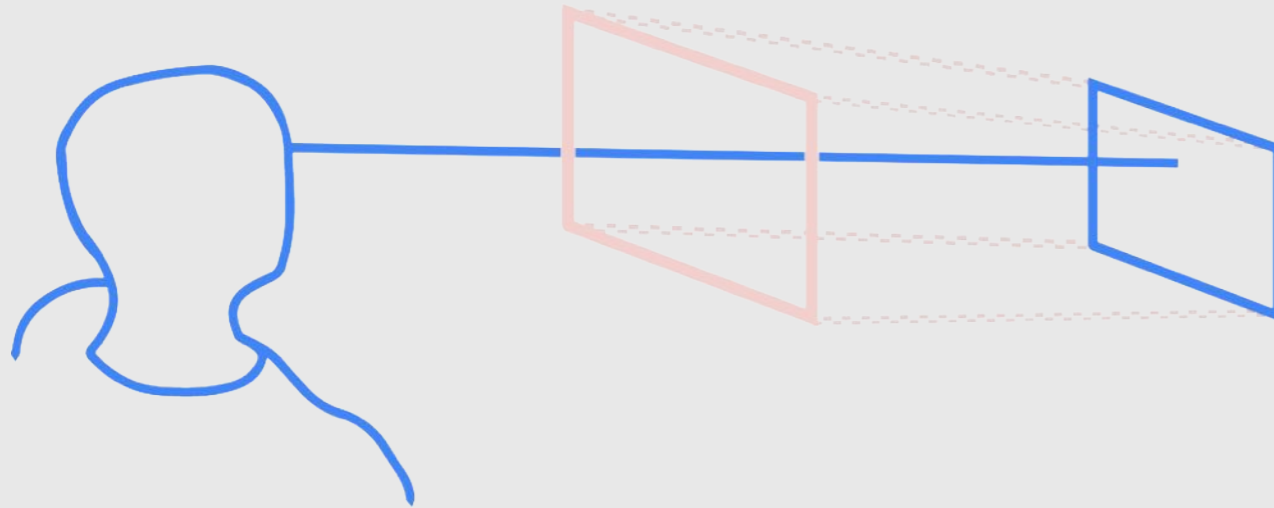
Previous Slide



Next Slide

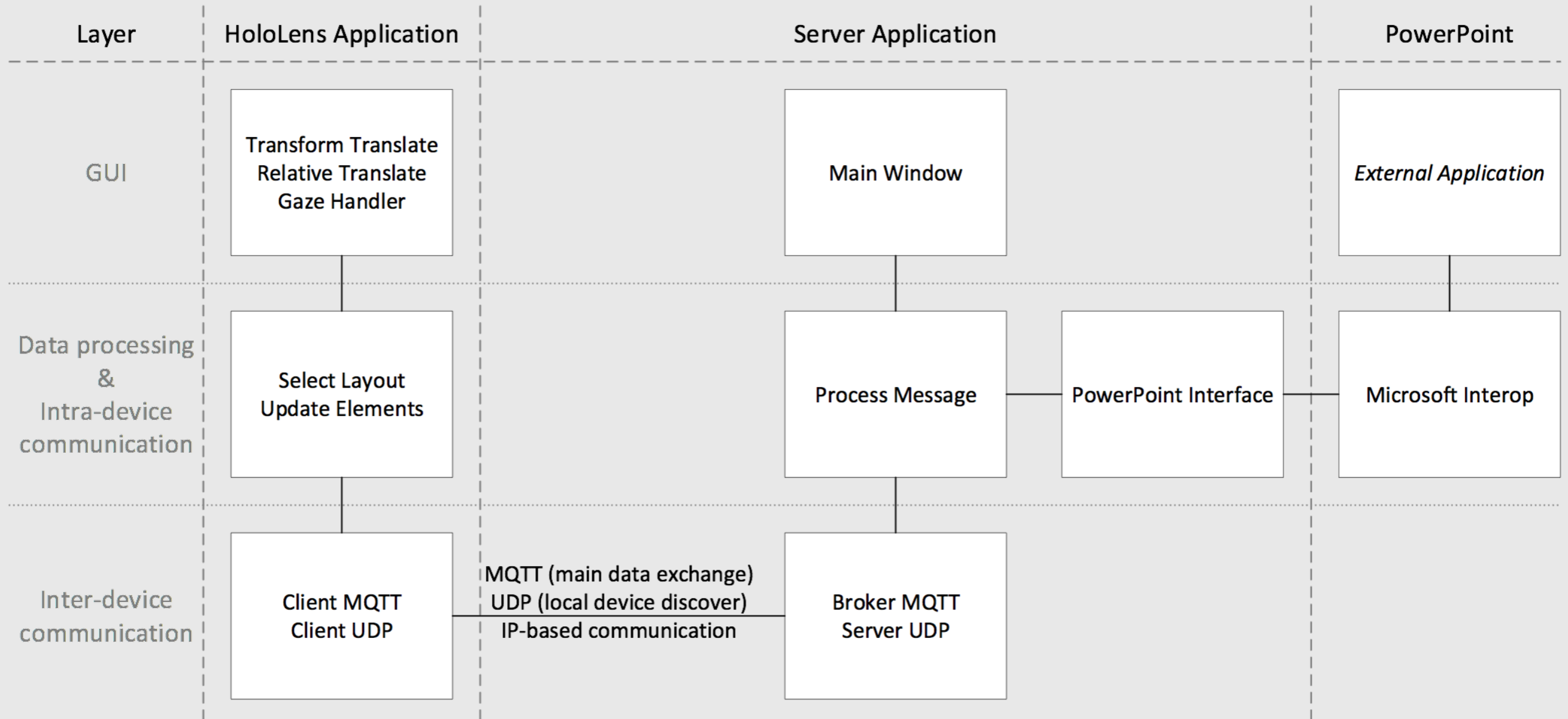
Concept Interactions

Emphasizing (Spatial layout)





- Moves elements towards user
- Triggered by dwell-based focus onto green area
- Reset if focus outside element


Technical Realisation




| User Tests Setting

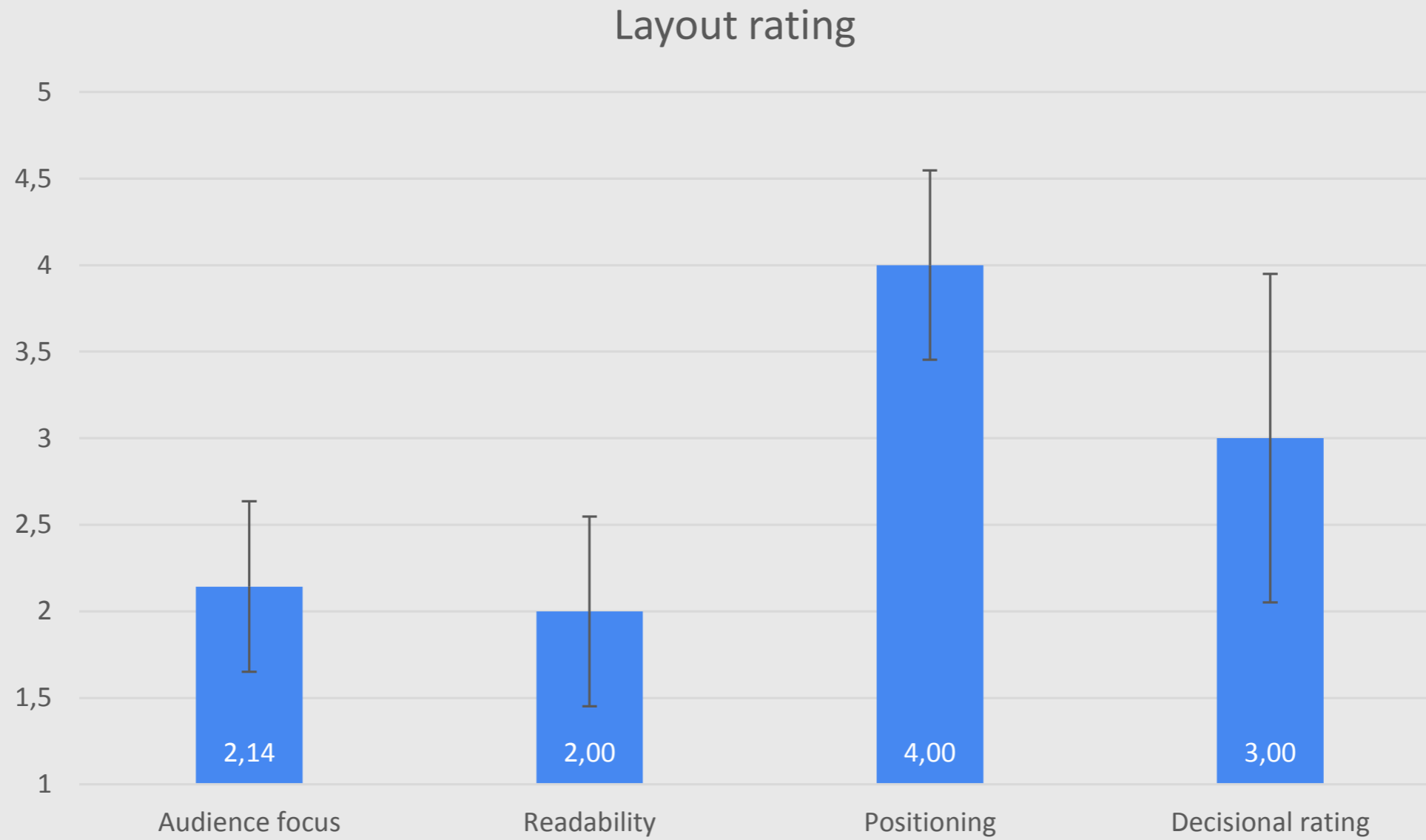
 7 Participants (20 - 30 yo)

 2 Presentations (Augsburg + University)

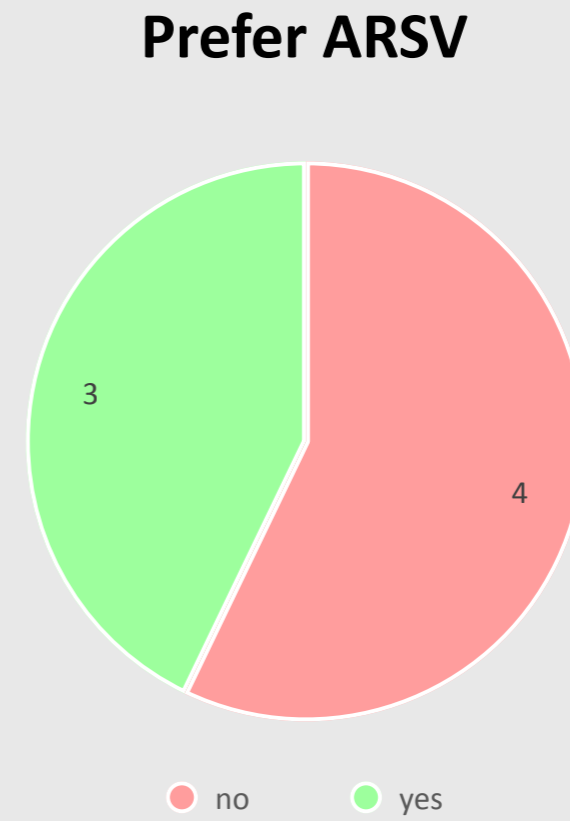
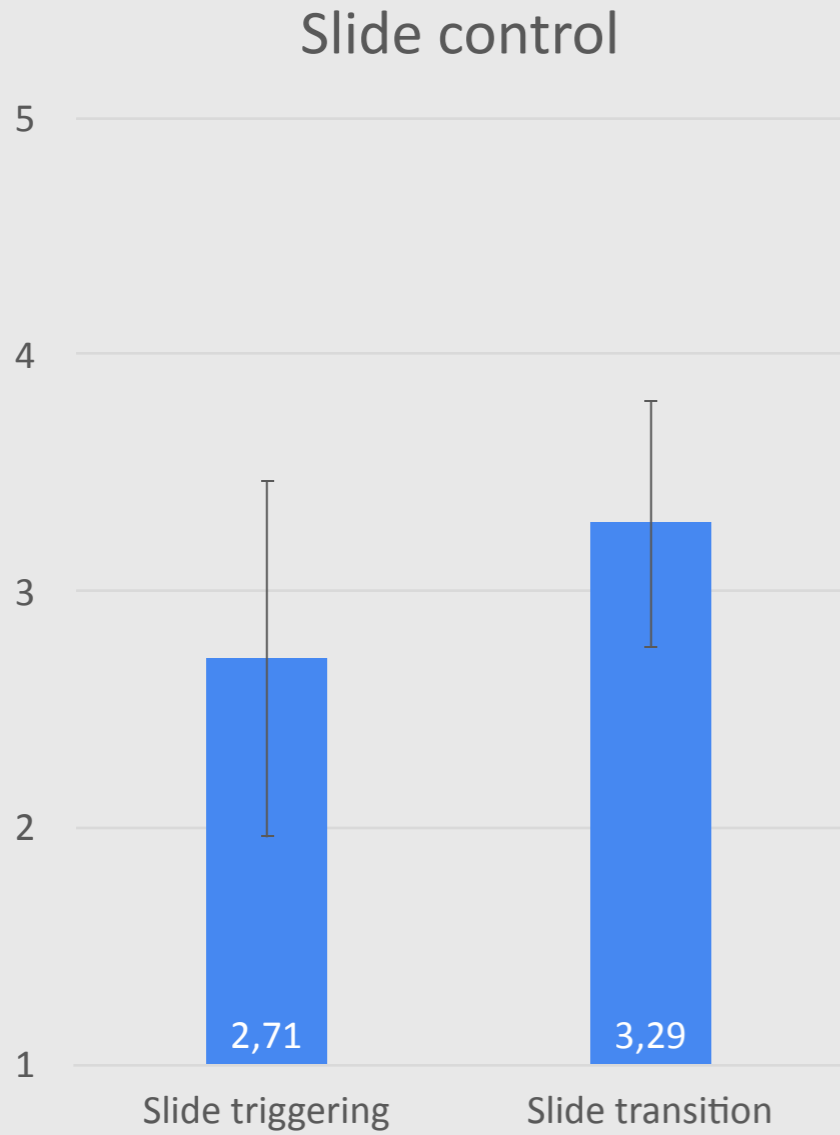
 2 Layouts

 2 Questionnaires (Speaker + Audience)

User Tests Results

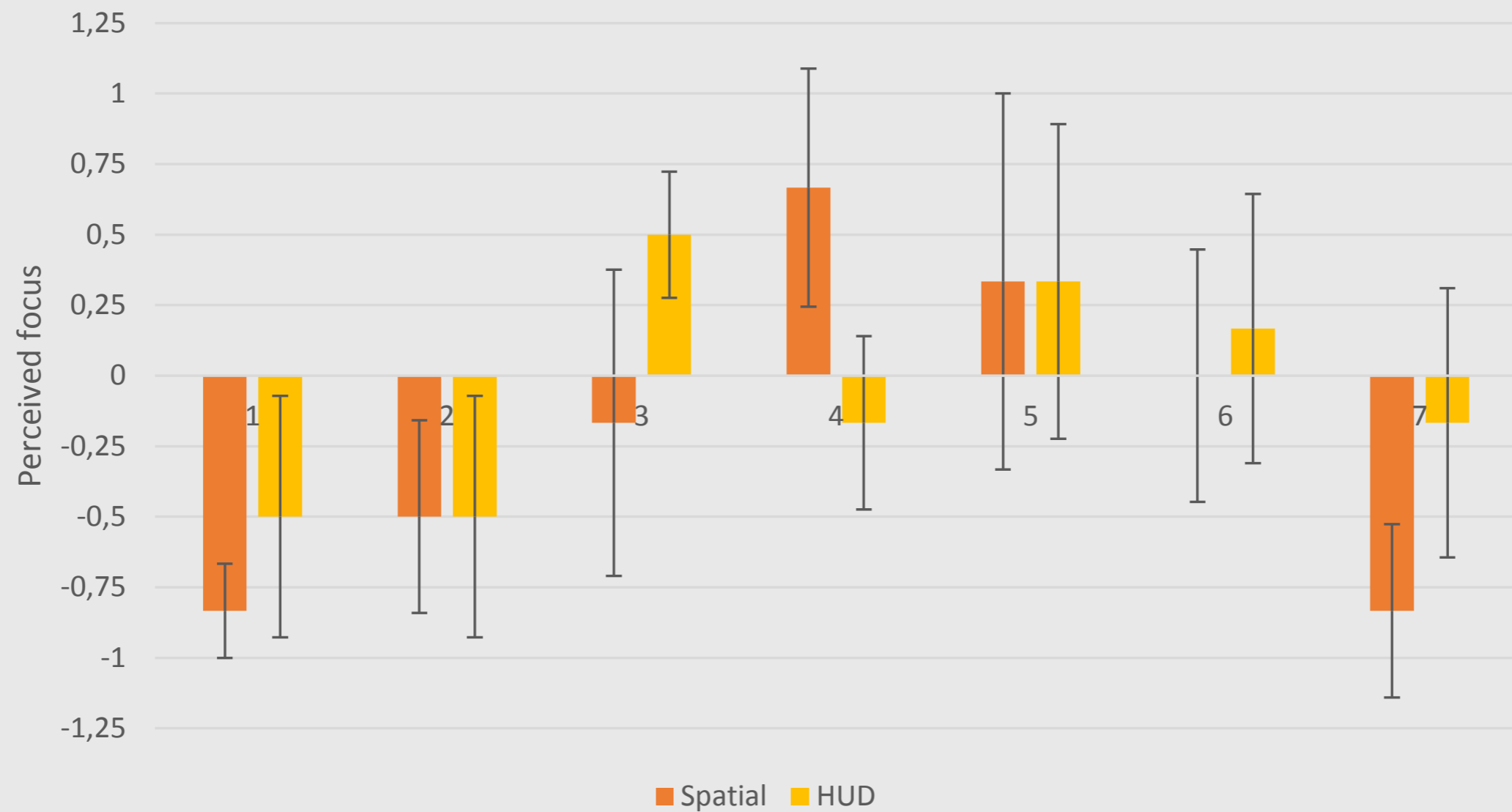


User Tests Results



User Tests Results

Perceived focus onto audience per speaker



| **Conclusion** Summary

- + Positioning of elements
- Readability and focus on audience
- Slide control

| **Conclusion** Future work

HoloLens 2

- Wider field of view
- Gaze Tracking

Merge of Layouts

- Avoiding overlay of the main focal point
- Combination of perceiving slide transitions while performing head-driven control gestures and emphasizing elements (Notes)

Live Demo

