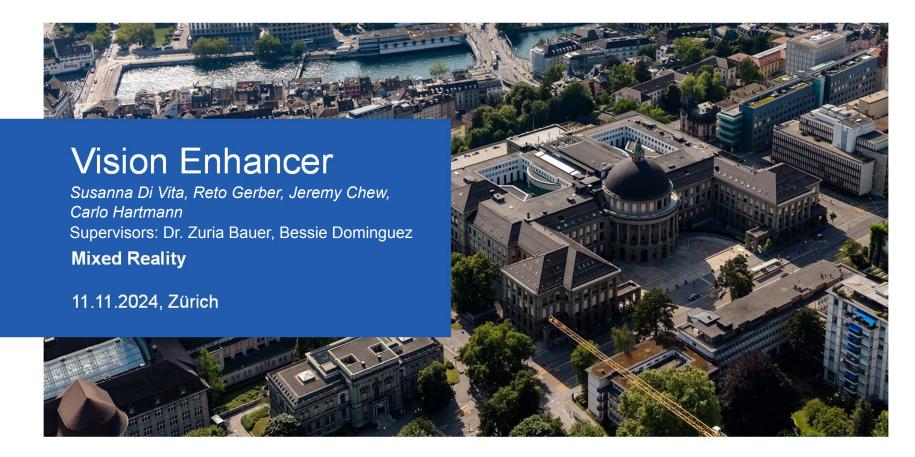
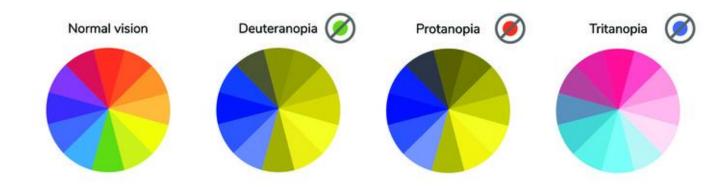
## **ETH** zürich



# Empowering vision for everyone

Over 1.4 billion people live with color blindness or low vision, facing daily challenges.





#### Our solution

MR Hololens application

- Dynamic color correction
- Adaptive zooming



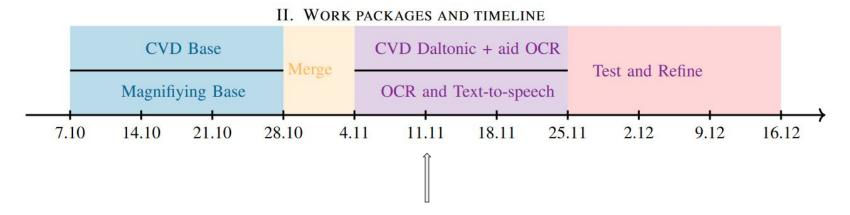




Reimagining vision, enhancing lives—making the world **accessible** again!



### Where we are



HoloLens app that enhances vision for the color blind, offering personalized color correction filters and seamless magnification

# Demo video





#### Current issues

- UI
  - Hand menu appears too close to the user, making button presses challenging.
- Translucency
  - While wearing the headset, the projected webcam image can appear too translucent, making it difficult to distinguish between the "enhanced view" and the default view.
- Blurred zoom
  - Unsure how to solve this, as issue likely stems from webcam resolution limitations.
- Color correction might be too minor
  - Currently works on a per-pixel basis, other algorithms might work on a more global scale.

## Outlook



- Implement OCR + Read out functionality
  - Potential Obstacles: Connection dependent and On-Device processing
- Improve UX
  - Voice commands
- Improved zoom/color correction
- Integrate current base Flask backend for optimized API calls
- Allow direct note taking