#### Gesture-based interaction via finger tracking for mobile augmented reality

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## Augmented reality

 real world view being augmented with virtual data, like computer generated 3D visuals

#### **Gesture-based interaction**

- finger used to select object
  menus based on object selected
- "pushing" objects

## **Experiments**

 manipulating objects in midair • compare interfaces board game • types of interactions measures • time and accuracy engagement Ο

#### Results

traditional touch screen was fastest
gesture-based was most engaging

# **Problems with finger-based controls**

- holding phone in the air was uncomfortable
- lack of accuracy
- finger being too close to the camera cause detection problems
- unintuitive translation of objects

## **Works Cited**

Hürst, Wolfgang, and Casper Van Wezel. "Gesture-based interaction via finger tracking for mobile augmented reality." Multimedia Tools and Applications 62.1 (2013): 233-258.