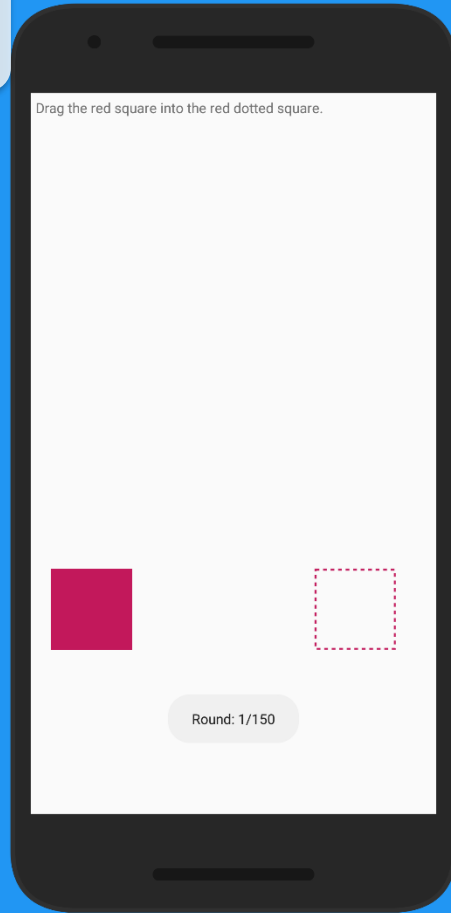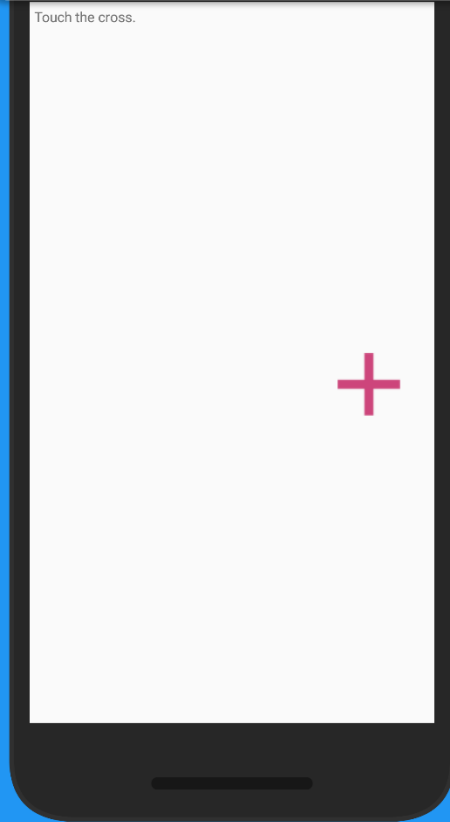# Simple Touch Prediction With Built-In IMUs

Intermediate Presentation
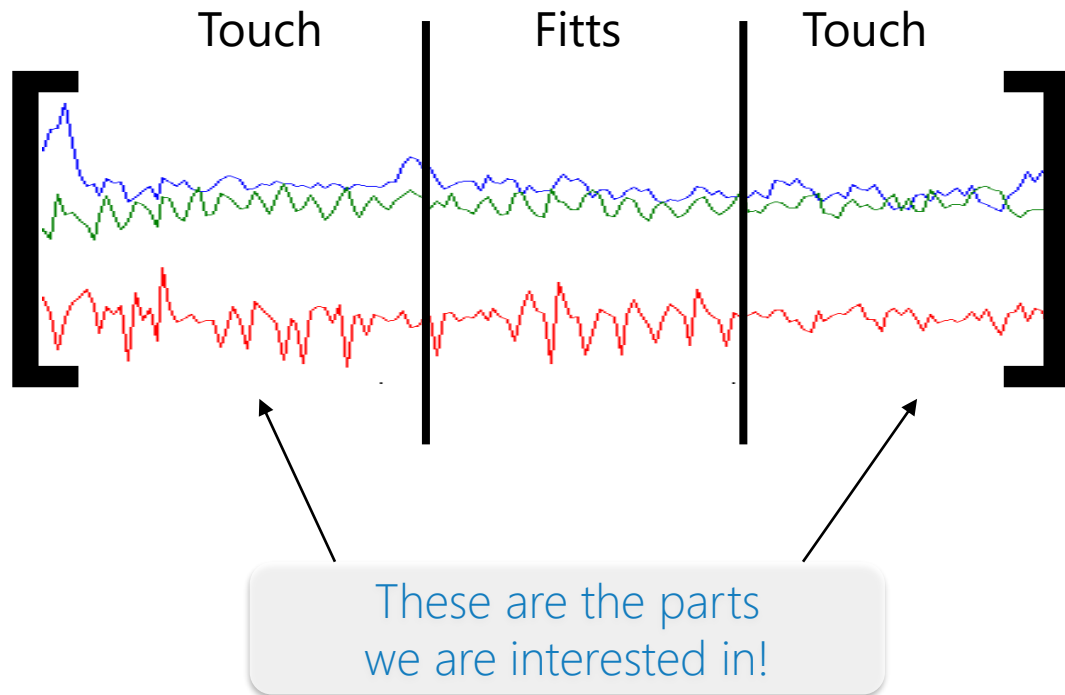
Felix Bühler, Benedict Steuerlein

FaPra Machine Learning and Computer Vision for HCI | Pfaffenwaldring 5a | 11.12.18

Current Status

- Working study app

- Align crosses in a 16 x 9 grid

- Fitts Task inbetween

- Meanwhile record IMU
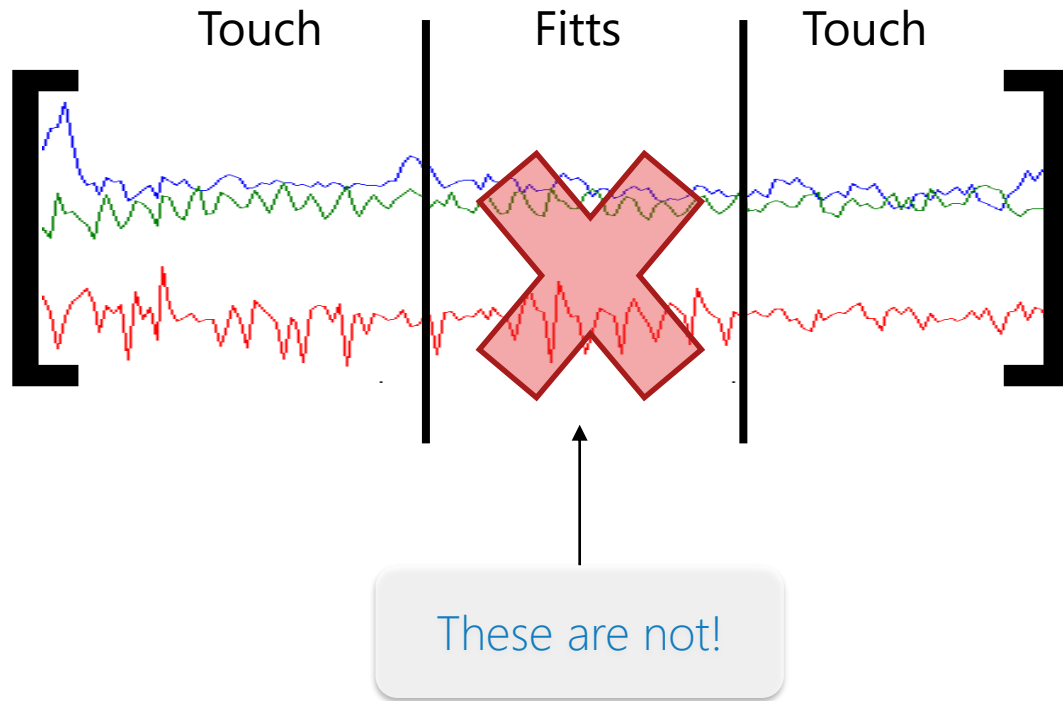
- Carried out study with first participants

Touch the cross.

Drag the red square into the red dotted square.

Round: 1/150

Current Status

Touch Fitts Touch

These are the parts
we are interested in!

Preprocessing

☐ Segmentation

☐ Remove duplicates

☐ Sensor data alignment

Visualization and
Interactive Systems Institute

Current Status

Touch   Fitts   Touch

These are not!
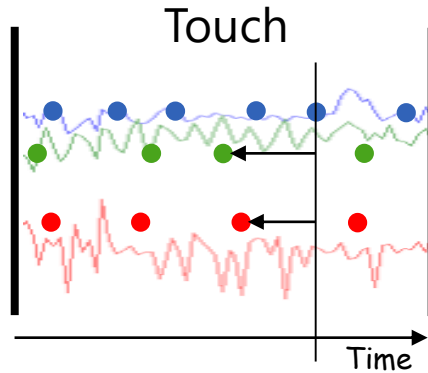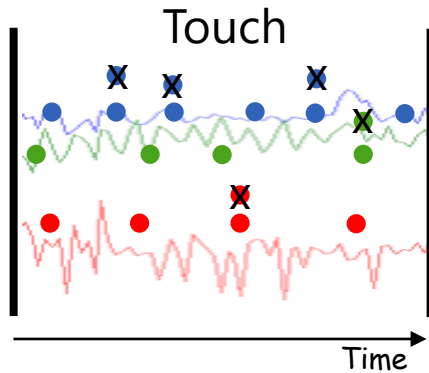
Preprocessing

✓ Segmentation

❑ Remove duplicates

❑ Sensor data alignment

Current Status

Preprocessing

✓ Segmentation

✓ Remove duplicates

✓ Sensor data alignment

Visualization and
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Agenda