

Wearable Computing

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Recap Context

Context

Sensors

- Sensors
 - Integration into wearables
 - Sensor Types
 - Details: position

What do we know so far?

- History, Terminology
- Hardware: input, output,...
- Methods, Usability, Differences to Desktop
- Now we can get started!

What makes the wearable different?

- Supporting a primary task!
- ▶ How do we do this?
- Context

Context

- ▶ Task Context
- User Context
- Environmental Context

Context sources

- ▶ Prior knowledge
- Asking the user
- Sensors
- Other systems

Handling Context

- Context is knowledge
- Context has both a qualitative and quantitative nature
- Sensors give only quantitative information
- Problem: Making qualitative from quantitative information
- One solution: Supervised machine learning
- Better methods?

Using Context

- Query-based
- Event-based
- Context specification
- Learning context while using it?

Summary

- Context
 - Sources
 - Handling Context
 - Using Context