Why?

- Vision may be the most important sense
- 39 million blind people; 246m low vis.
- Cameras and computers are cheap

For the "praktikum":
Wide range of topics
General

● Who?
  ○ Boris Schauerte: CVHCI, Vision
  ○ Manel Martinez (baby; may join later on)
  ○ Angela Constantinescu: SZS, Sonification
  ○ Rainer Stiefelhagen: CVHCI & SZS

● Group meeting once a week
  ○ Initial kick-off meetings (getting a task and started)
  ○ People report about their problems and solutions
  ○ (Doodle)

● Work packages / Tasks
● In the End: Demos!
Questions

- Attended lectures?
- Programming experience?
- Why are you interested in the praktikum?
- What do you expect from the praktikum?
- What do you expect from us?

What we think our task is …

- supervise/advise/guide your work
- share our (practical) experience(s), i.e. what Prof's won't tell you in lectures
Tasks

● Scenarios, e.g.
  ○ Help people communicate with other people
  ○ Help people navigate
  ○ Help people recognize objects in the environment

● Some suggestions:
  ○ "Guiding the focus of attention of blind people"
  ○ "Video-based localization without mapping"
  ○ "Detecting important signs and landmarks", e.g. Zebra crossings, warning signs, traffic lights, ...

● Homework:
  Think and read about your topic of choice!
How to approach CV

1. choose a topic
2. read about it (more on the next slide)
3. choose a (set of) method(s)
4. record a data set
5. implement the method
6. test the method
   a. it works! Create a live system/demo
   b. fail! Find out why (otherwise you completely wasted your time ... and mine) - go back to (3)

Sometimes (especially for HCI):
direct live (prototype) system (kill 4; merge 5/6)
How to read a paper, faster

1. read the abstract
2. have a look at the graphics/captions
3. read the conclusion (skip if copy-paste abstract)
4. check the results/evaluations (scenario? too simple? convincing? sanity check!)
5. if still interested (i.e., not disappointed), read the rest

Always: Do not blindly trust the authors! It helps to think of it as if buying a used car ...
Never forget: Have fun!

"Choose a job you love and you will never have to work a day in your life"

- Confucius