

Week9

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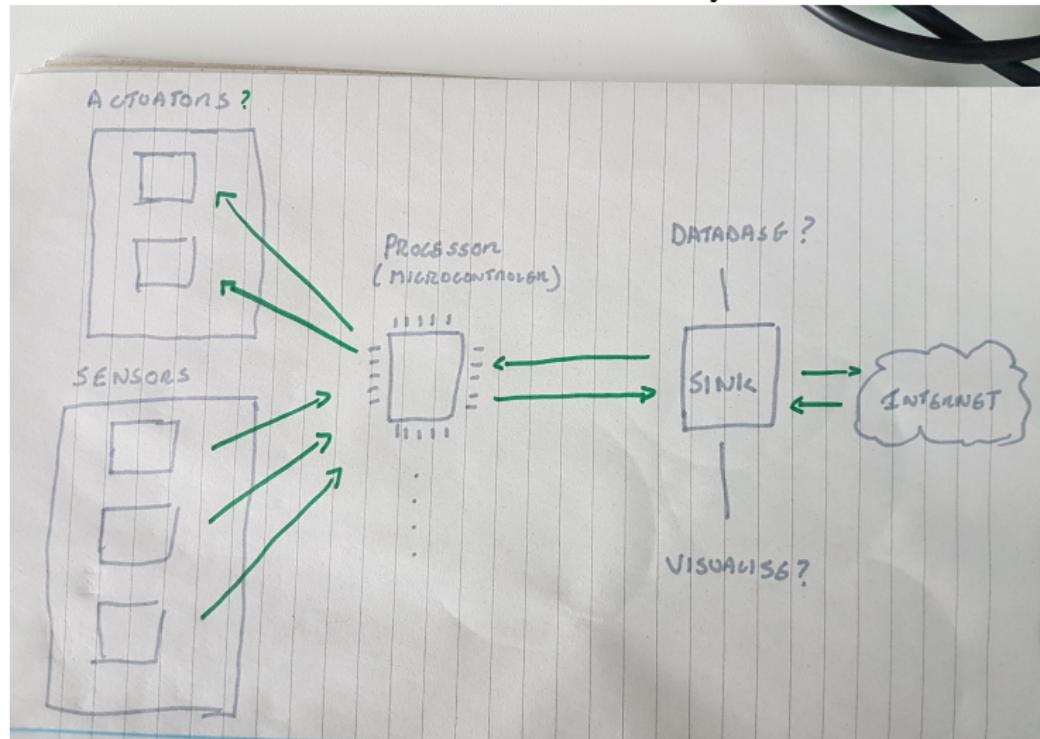
Usability

- Reminder: CW2 Submissions
- Usablity Factors in Pervasive Systems

Disclaimer

Usability

Where do we need to think about usability?



At what stages do usability become a problem?

- Where do we need to think about usability?
 - Actuators / Controllers
 - Visualisation (Device)
 - Visualisation (Web)

Visualisation (Web)

- You should all know this. Standard usability practice applies
- Fonts / Colors etc
- Data Visualisation, The Tufte Club

Visualisation (Web)

The screenshot shows a web-based monitoring interface for Schneider Electric devices. The left sidebar contains a navigation menu with the following categories and sub-items:

- Chneider Systems (admin)** (selected)
- PAROSVIMCLONE (LINUX)
 - Xp test Dev1
 - softspec (SUN)
 - 10.0.0.216 (SIN)
 - clevereye2005 (WINNT)
 - WL Router252
 - capri (WINNT)
 - Log Facilities
 - CapriSEvent
 - Exchange
 - Cpu
 - Disk
 - Dasperf
 - Memory
 - Service
 - Ports
 - CAPRI_FTP
 - CAPRI_SMTP
 - CAPRI_WEB
 - CAPRI_MAP
 - CAPRI_SQLSERVER
 - CC1
 - DRDP
 - Uptime
 - Tests
- NRG7
- Wlan3807 (WIN04)
- SF 37 (WINNT)
- DownTest
- 10.0.0.1
- paros-redu...
- NRG7 (WINNT)
- ben.jc34axic...
- 10.0.0.252
- clevereye2005
- samsung
- NRG7_ALI (WR...
- (WINNT_AGT)
- nrgr78-twan...
- darney
- nrgr50 (WINNT)
- ringules
- nrgr77 (WINNT)
- nrgr89 (WINNT)
- box1
- ff
- ip-216-69-167...
- wane
- 66.102.7.99
- pro9
- capri (MSEXP...)
- chocci9.ng...
- 10.0.0.10 (LINUX)
- paros-redu...

The main area displays a grid of 4 rows by 6 columns of device status icons. Each icon has a green or red circle with a white outline, and the device name below it. The icons are arranged in a grid pattern.

Visualisation (Device)

- Follows much the same rules for the Web:
 - Small form factor devices may need special consideration
 - Restricted display area
 - Lack of Color

Controllers:

- Design of Physical systems
 - Do the buttons make sense in terms of layout
 - Do the controls do what you expect
 - Does the user get relevant feedback.

Controllers:



Controllers:

What about voice activated systems?

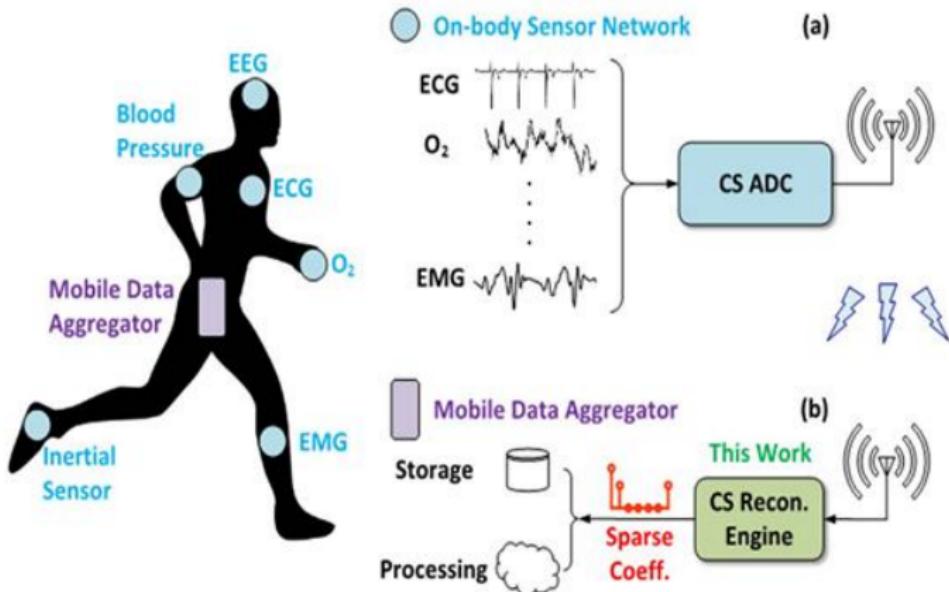
- All the rage at the moment
- What problems do they solve?
- What problems may they cause?

What about wearable systems?

- Ease of Use
- Aesthetics?
 - Comfort
 - Weight?
 - Size

Wearable Systems

What design considerations do we have for this system?



Wearable



Wearable Systems 2

What about this:



Wearable Systems

