DESIGN PRINCIPLES FOR CONNECTED DEVICES



UNIT 1 CHAPTER 2



Here comes the Internet of Things

- The Internet will connect billions of people through mobile and embedded smart devices.
- Real-time communication and the accessibility to any information on-line will enrich people and machines; ...
- The Internet will connect everyday things integrated into people's every day lives. More equipment will be connected to the Internet than people by a factor of 8 to 1.
- IoT will integrate many industry verticals (e.g., healthcare, energy, transportations) into smart */city/building/home environments.
- IoT will be centric to people's needs and every day existence.



- ubicomp is often also referred to as ambient computing.
- the term "ambient" is not something to which we actively pay attention and in some cases as something which we seek to remove (e.g., ambient noise in a sound recording).
- the term calm technology—systems which don't compete for attention yet are ready to provide utility or useful information when we decide to give them some attention.



- In addition to the technology becoming capable of a particular action, we often need society, to be ready to accept it.
- There are many examples when the main difference between a failed technology and a wildly successful one is that the successful one arrived a few years later, when people were more receptive to what was offered.





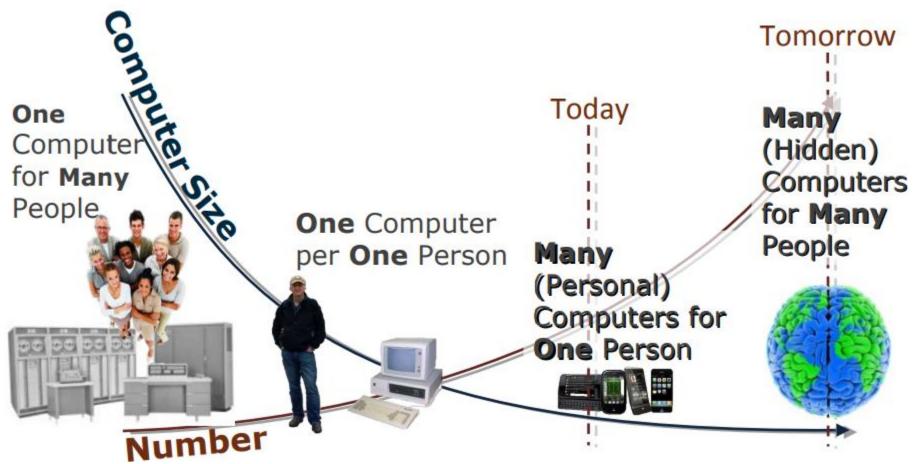
AFFORDANCES:

- Donald Norman defines affordances as follows:
- Affordances provide strong clues to the operations of things.
- Knobs are for turning.
- Balls are for throwing or bouncing.
- When affordances are taken advantage of, the user knows what to do just by looking:
- no picture, label, or instruction is required.
- Complex things may require explanation, but simple things should not.
- When simple things need pictures, labels, or instructions, the design has failed.

Personalization, Socialization, and Real-world

Awareness of the Internet

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CASE STUDY: The WhereDial





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It is developed by John McKerrell