It probably won a prize

- Aim
 - To be able to analyse and compare the designer and the user models of devices

Technological aspects of Donald Norman: The Design of Everyday Things by Jens Kaasbøll

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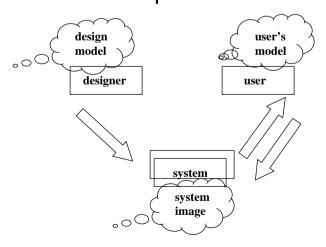
Qualities of devices

- Aesthetic
 - Pleasing to look at and sense in general
- Technologic
 - Adhering to accepted principles of good technical solutions
 - Simple manufacturing
- Usability
 - Causing desirable effects
- · Durability and Robustness
 - Tolerates long term intended use and also improper use
- Safety
 - Not causing undesireable effects



3

Conceptual models



When simple things need instruction, it is a certain sign of poor design

- Visibility
 - The shape of the device signals its proper use
 - What about blind people?
- Mapping
 - Immediately understandable relation between symbols and operation
 - Iconic symbols
 - Visual similarity
 - Conventional symbols
 - · Learned system of representation
 - · Arbitrary letters and shapes
- Feedback
 - The device signals the result of the operation

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Mappings should be unambiguous



Changing gears

Describe the design model and the user model





Faucet 2

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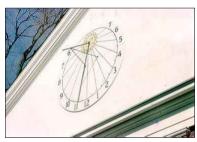
Faucet 3



Faucet 4

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Mappings (clockwise)









Preventing the user from making mistakes

- Lockin
 - Keeping a process going
 - Preventing prematurely closure
- Lockout
 - Prevents an event from occurring



Interlock Forcing a sequence

- · Open cover
- Unscrew lid
- · Insert nozzle in tank opening
- Hang up nozzle
- Insert lid
- Close cover
- · Start engine and drive away

No interlock

- Unscrew lid
 - Put tank lid on car roof
 - Insert nozzle in tank opening
- · Hang up nozzle
- Close cover

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Start engine and drive away

How does an ATM guard against user errors?

