

What Is Thoughtless Design?

- ♦ Violate any of my 9 principles of good design.
- ◆ Could have been designed better without much effort.
- **♦ Some terms:**
 - obvious
 - intuitive
 - easy to use



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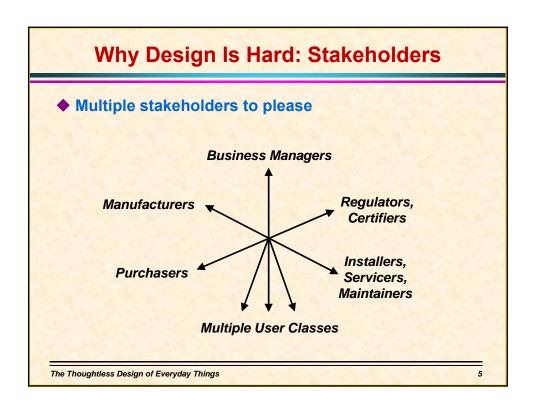
Why Design Is Hard: Requirements

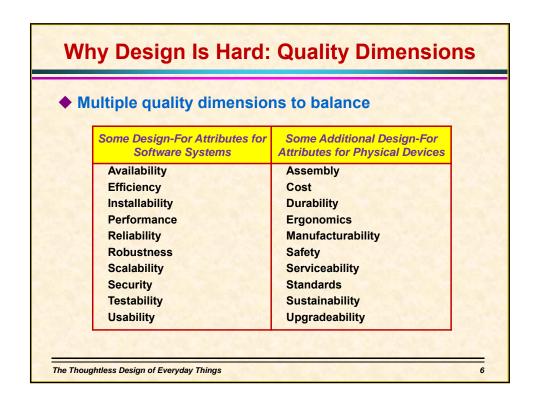
- ◆ Design is based on requirements
 - could be incomplete, inaccurate, or obsolete
 - could come from the wrong people
 - could focus on solutions, not needs
 - could focus on features, not usage
 - could overlook nonfunctional requirements
 - could be poorly recorded and communicated

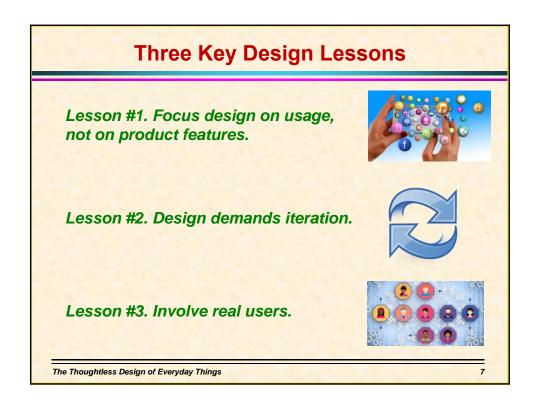


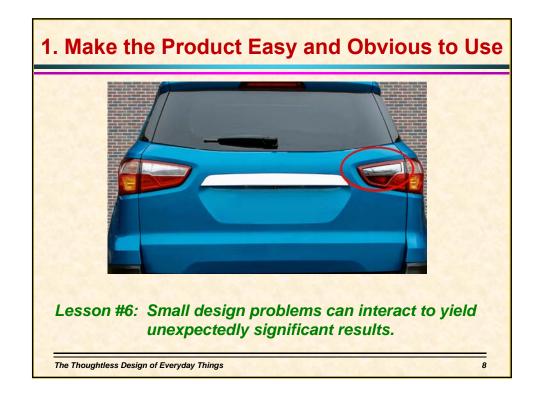
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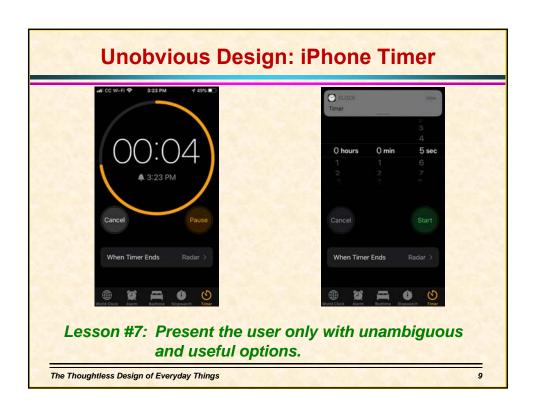
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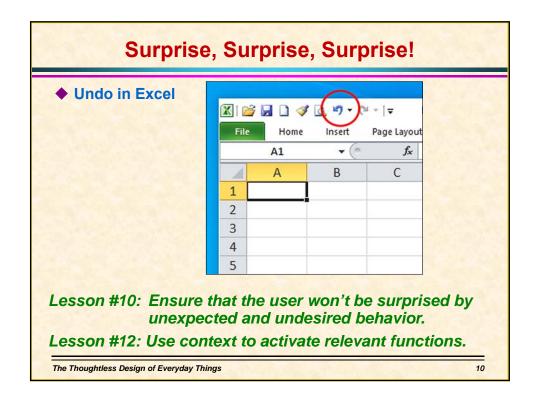


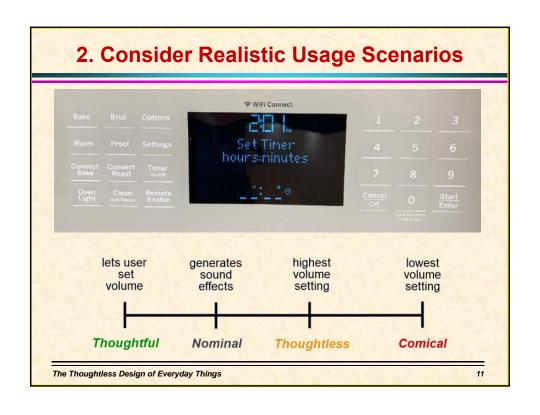


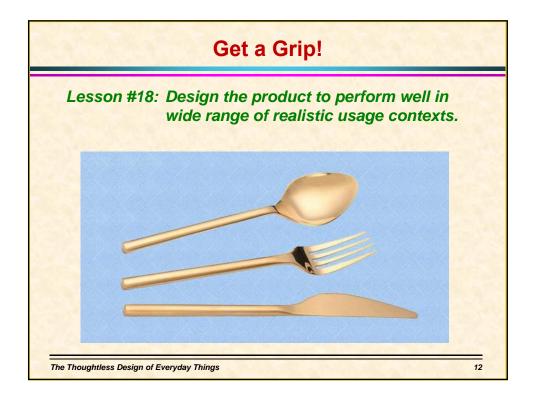




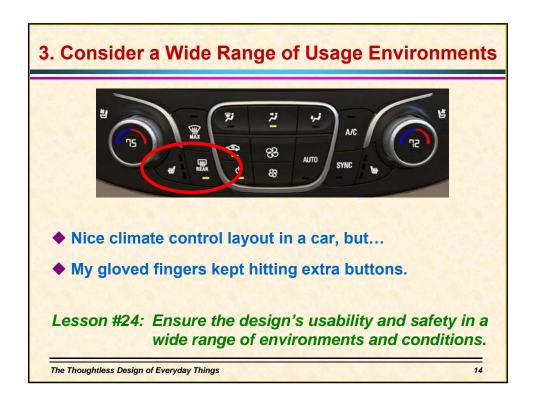






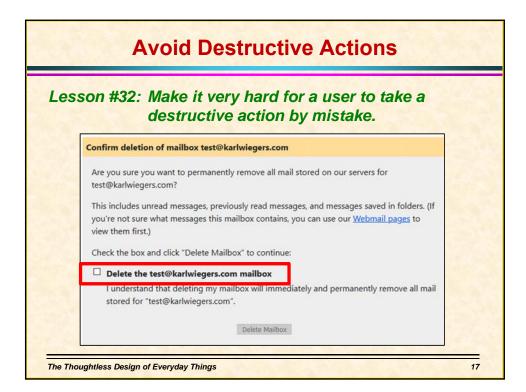






Usage Environments: Computer Systems ◆ Are outdoor systems usable under expected lighting and weather conditions? ◆ Can the product be used under expected noise conditions? ■ speech recognition ■ synthesized speech The Thoughtless Design of Everyday Things 15



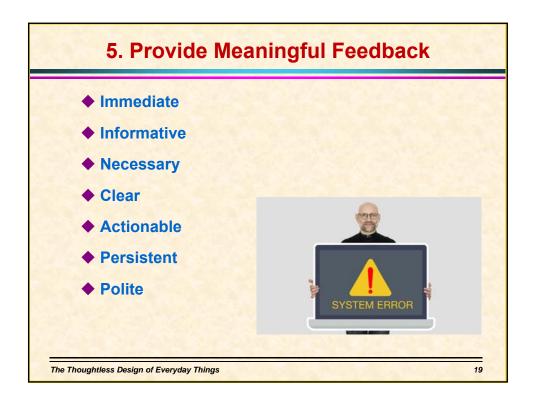


Some Tips to Help Users Avoid Mistakes

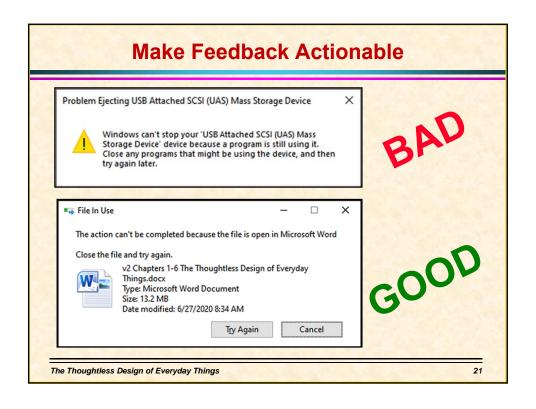
- ♦ Make mistakes impossible
 - physical objects: exploit asymmetry to fit things together
 - software: don't offer logically impossible options
- Make mistakes difficult
 - Provide input controls and processing to minimize the need to report errors.
- ◆ Make it easy to recover
 - provide correction assistance, not just error messages
- Just let it happen
 - no tips necessary!

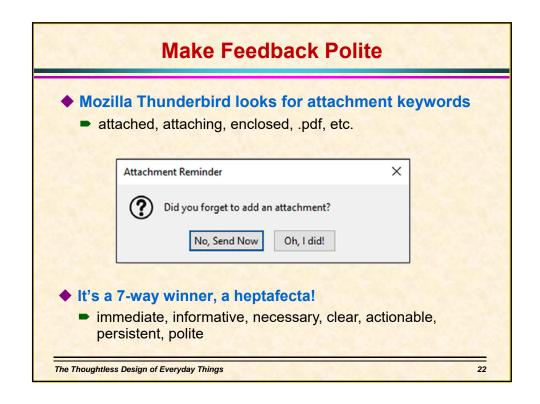
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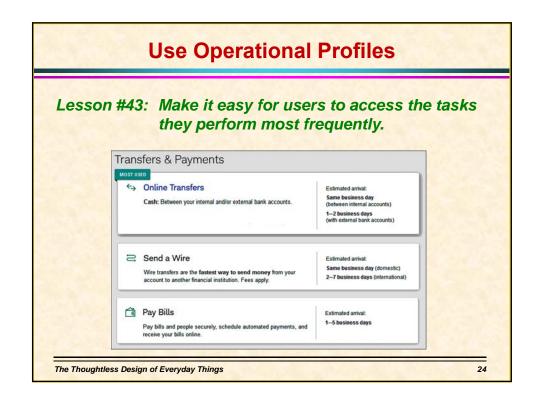












7. Design for the User's Convenience



Lesson #55: Design products to tolerate both technical faults and unexpected, imprecise human behavior.

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Designing for the User's Convenience

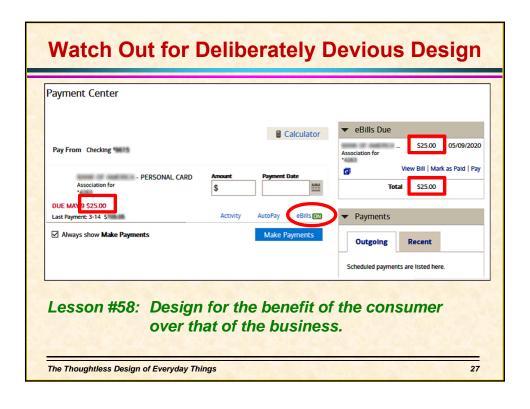
Lesson #51: Let the user customize as much of the product's behavior as they wish.

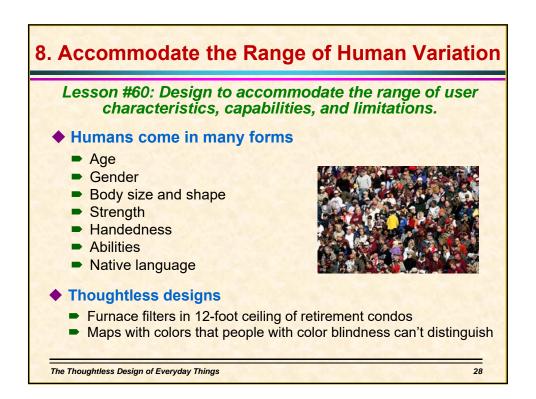
Lesson #52: Have the computer do as much work as possible to enhance the user's convenience.

Lesson #57: Design packaging that customers can open easily and safely.

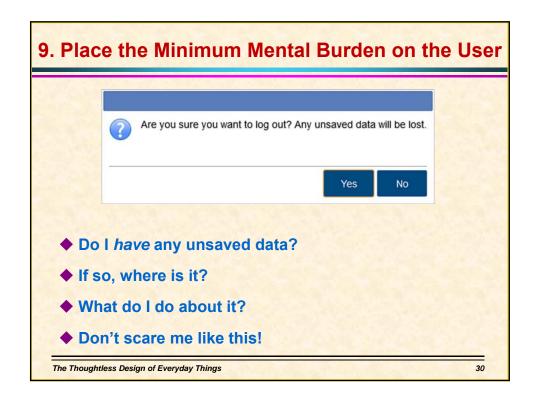
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Inconsistences Drive Me Nuts!

Lesson #66: Make functionality shared by members of a product family consistent.

- ♦ Deleting objects on iPhone
 - text, mail, contact, note, photo, alarm, voice memo, saved map location, voicemail, multiples of these...
- ♦ Shortcut keys in Microsoft Office

| Action | Result | Word | PowerPoint | Excel |
|--------------|------------------|------|------------|-------|
| CTRL-E | center text | Υ | Υ | N |
| Shift+CTRL+C | copy formatting | Υ | Y | N |
| Shift+CTRL+V | paste formatting | Υ | Υ | N |

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Stakeholder analysis and product champions Stakeholder analysis and product champions Stakeholder analysis and product champions The Thoughtless Design of Everyday Things 32

