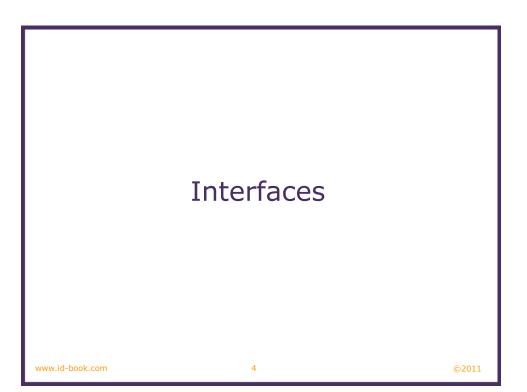
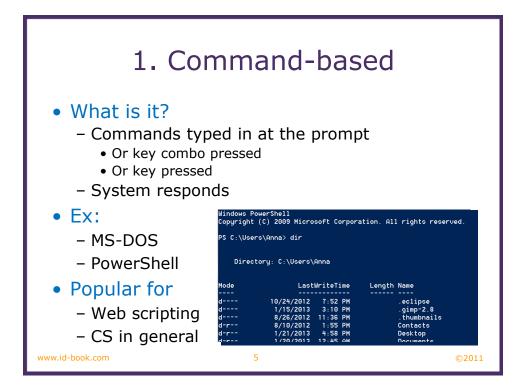
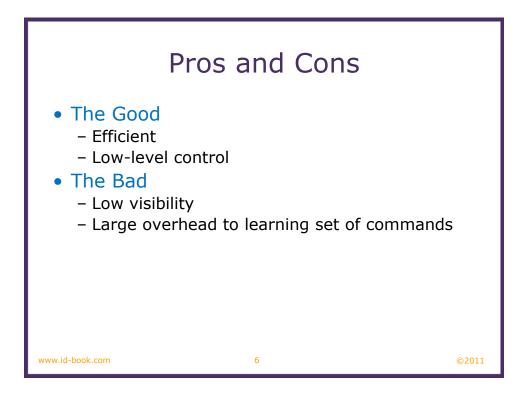
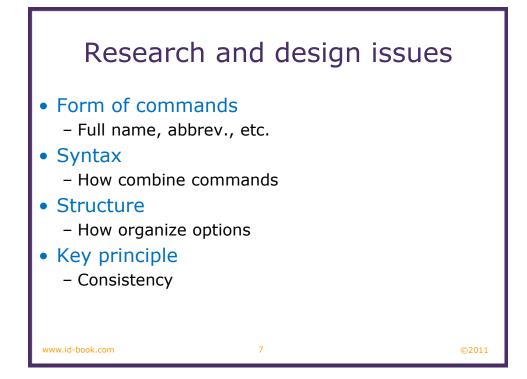


Interface type	See also
1. Command-based	
2. WIMP and GUI	
3. Multimedia	WIMP and web
4. Virtual reality	Augmented and mixed reality
5. Information visualization	Multimedia
6. Web	Mobile and multimedia
7. Consumer electronics and appliances	Mobile
8. Mobile	Augmented and mixed reality
9. Speech	
10. Pen	Shareable, touch
11. Touch	Shareable, air-based gesture
12. Air-based gesture	Tangible
13. Haptic	Multimodal
14. Multimodal	Speech, pen, touch, gesture, and haptic
15. Shareable	Touch
16. Tangible	
17. Augmented and mixed reality	Virtual reality
18. Wearable	
19. Robotic	
20. Brain-computer	

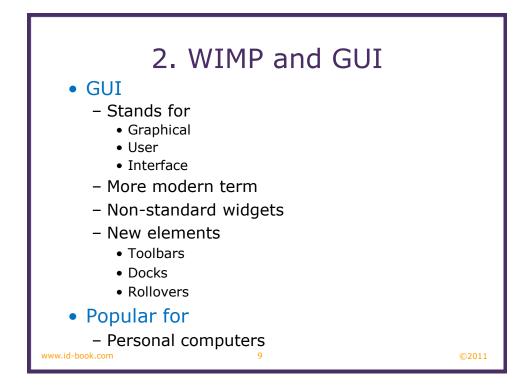


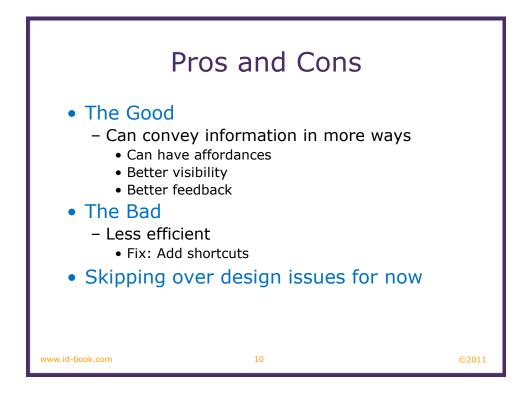


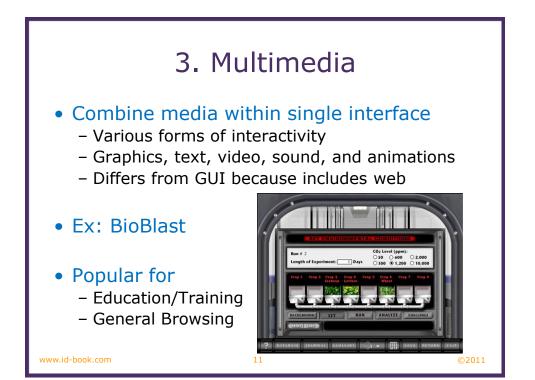


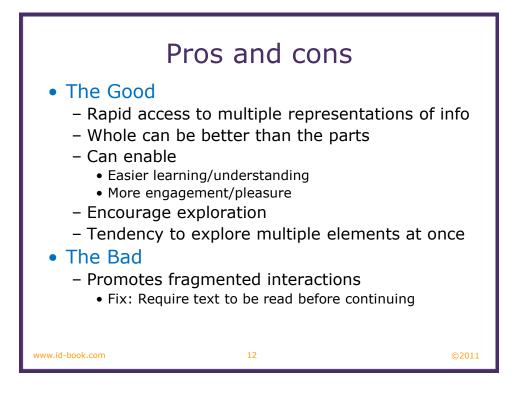


2. WIMP and GUI	
<ul> <li>WIMP</li> <li>Stands for <ul> <li>Windows</li> <li>Icons</li> <li>Menus</li> <li>Pointing device</li> </ul> </li> <li>Boxy</li> <li>Limited by standard widgets</li> </ul>	
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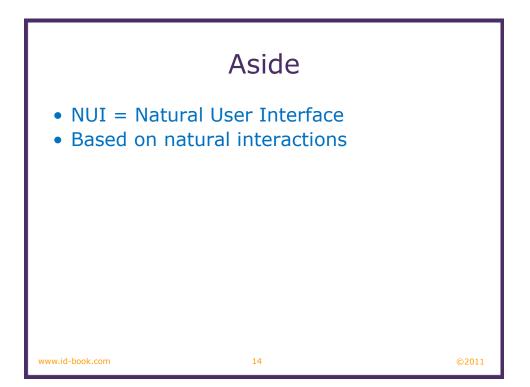








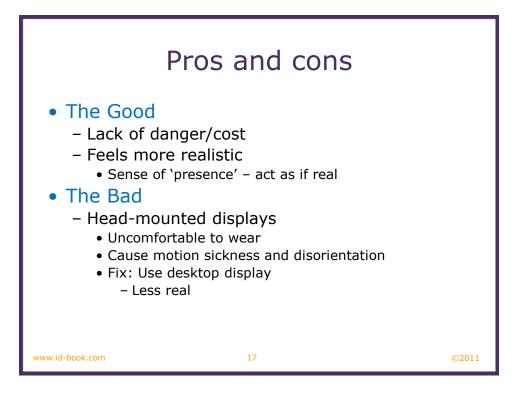








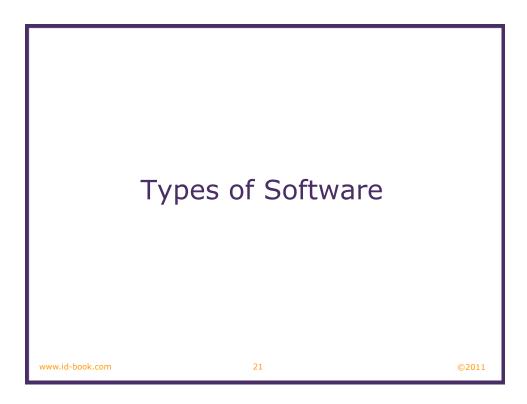
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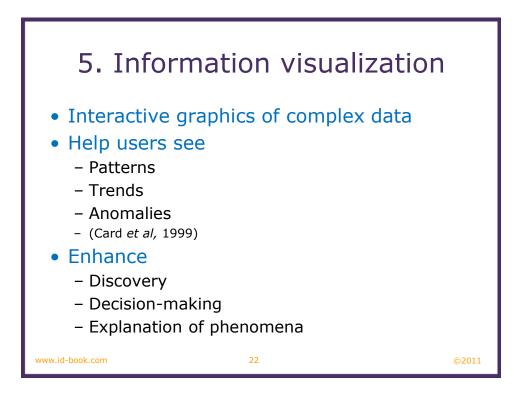


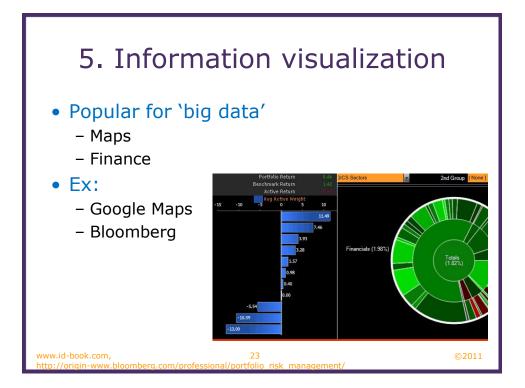


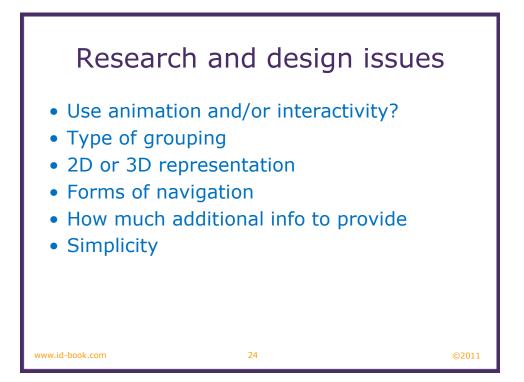


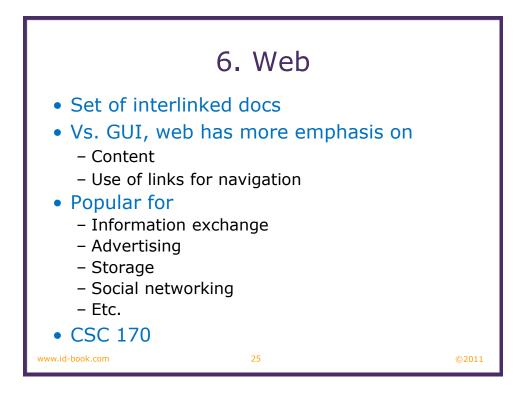


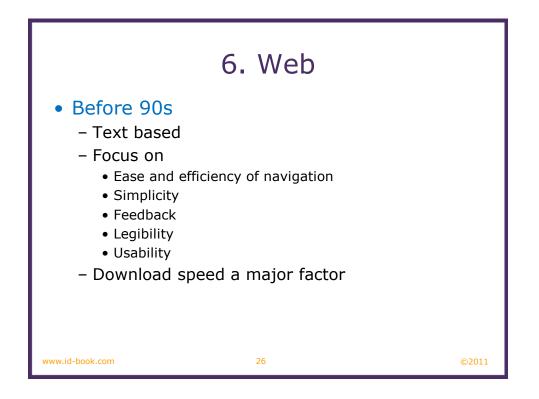


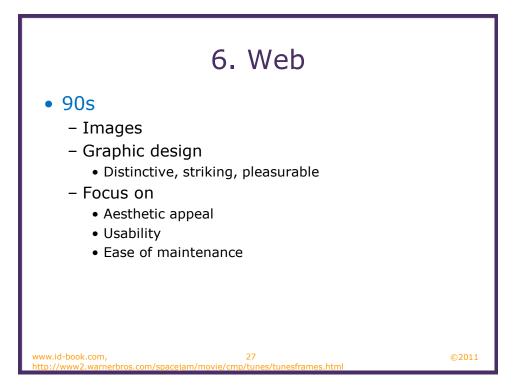




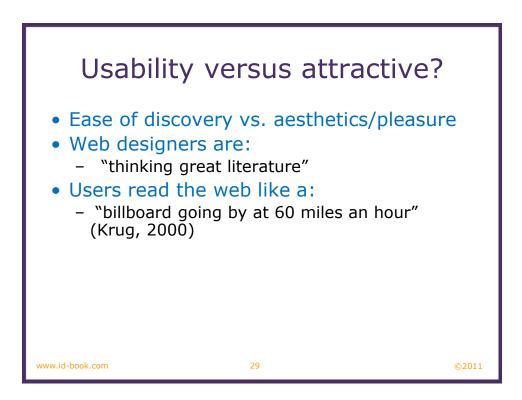


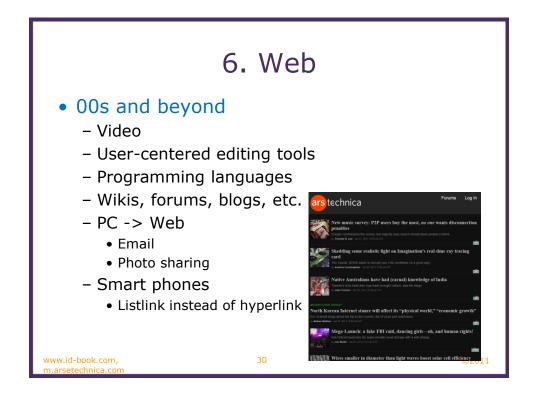












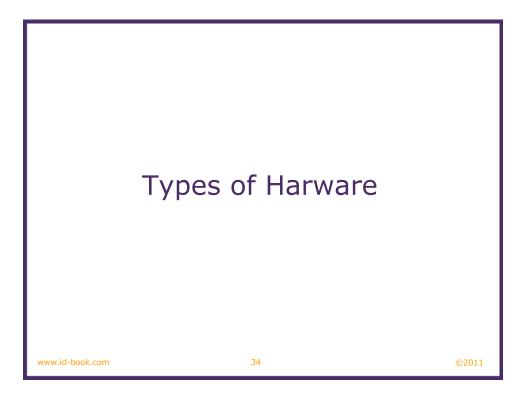




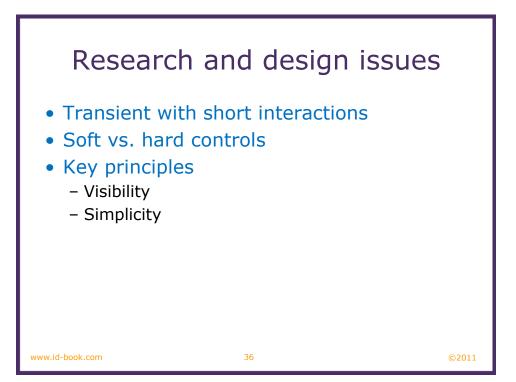
## Research and design issues

• Sometimes want user to get lost

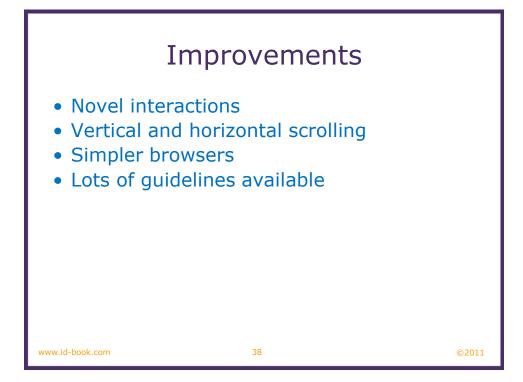


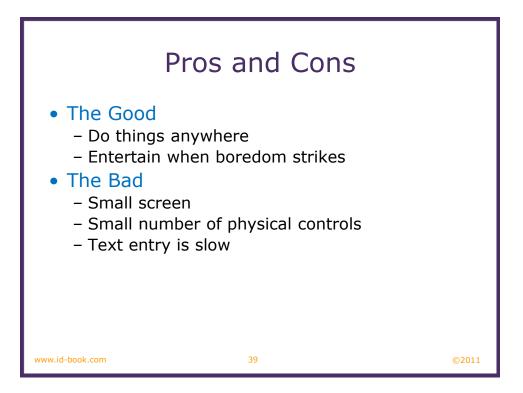






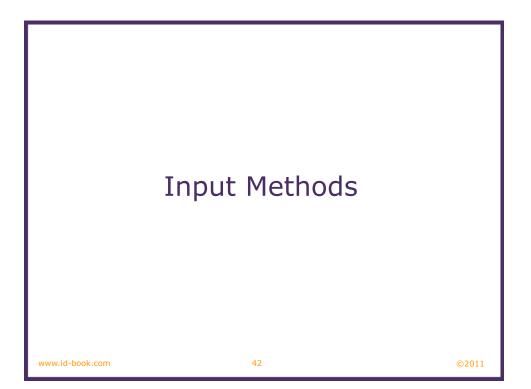


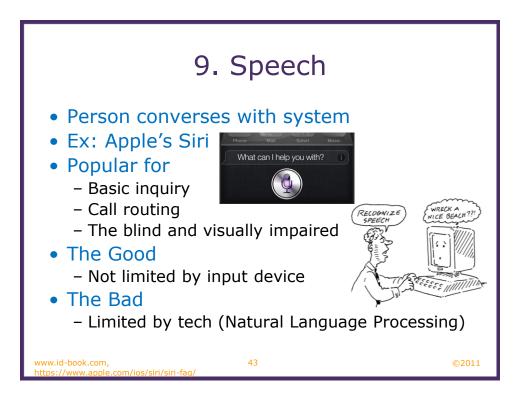




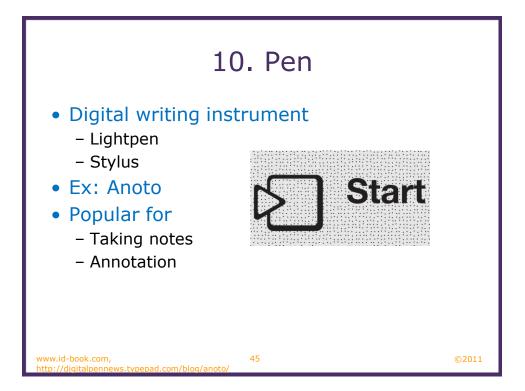




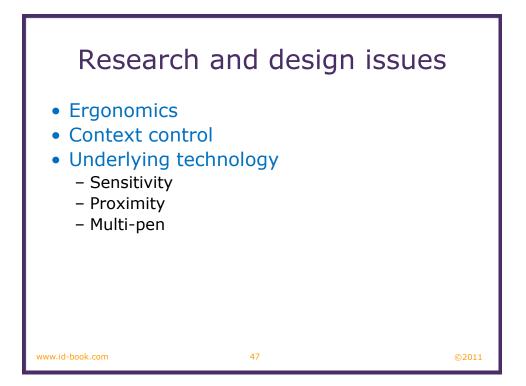




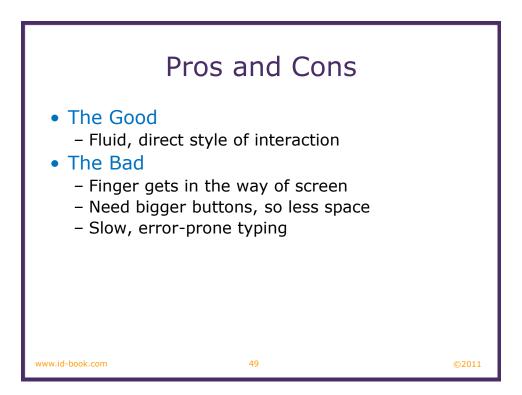


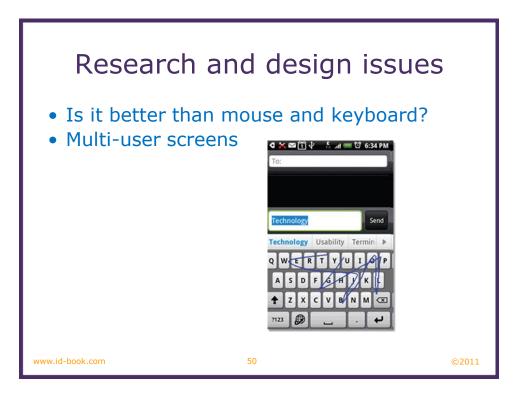


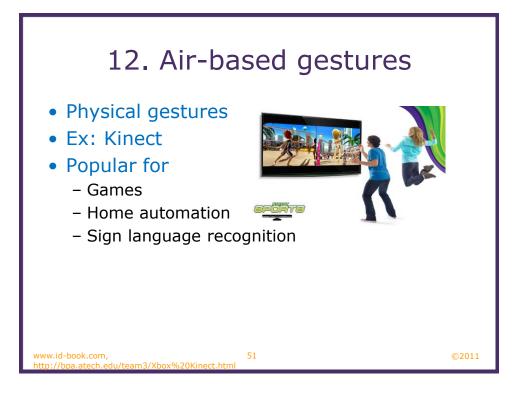
Р	ros and cons	
<ul> <li>The Good         <ul> <li>Users alread</li> <li>Intuitive, di</li> </ul> </li> </ul>	dy skilled rect interaction	
Have to mo	ides Ay o reach certain elements	
– Can have la	g and feel clunky	
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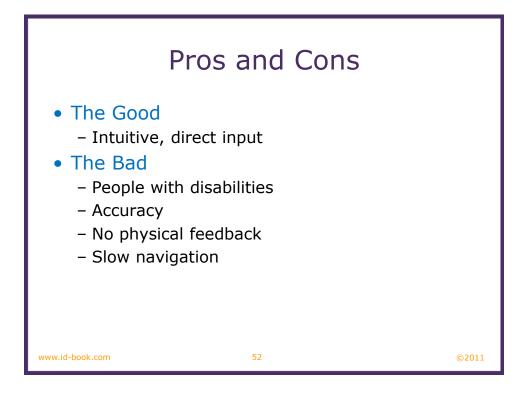


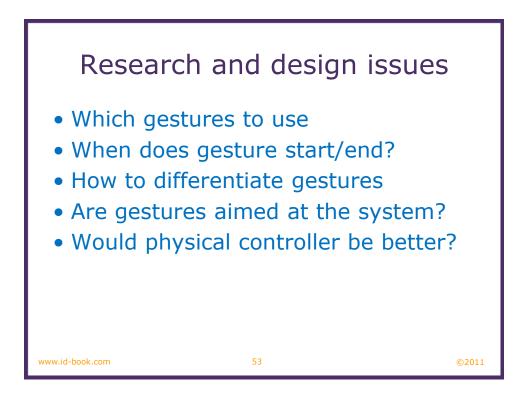


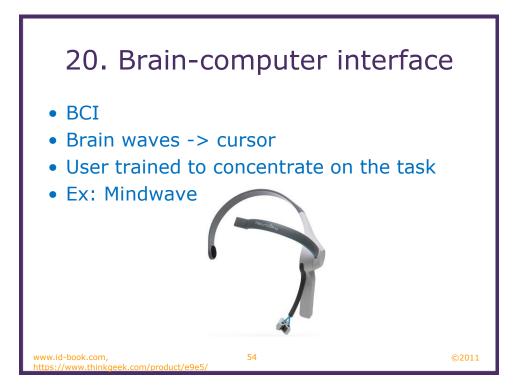


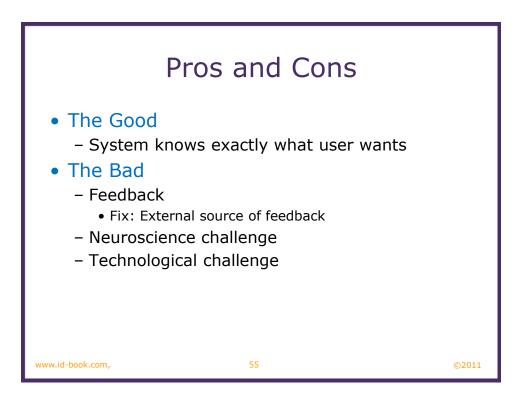




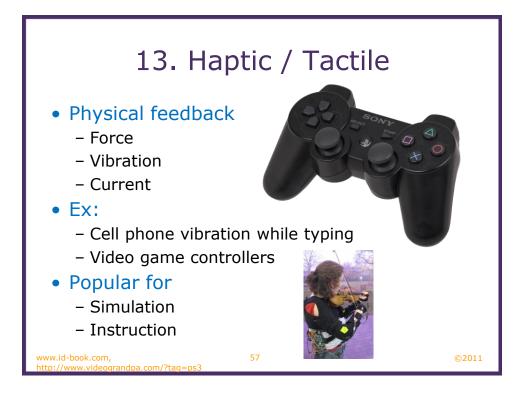


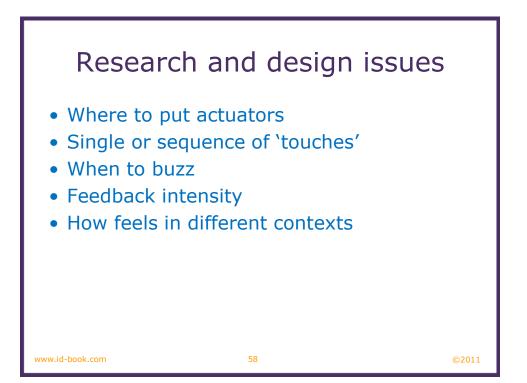


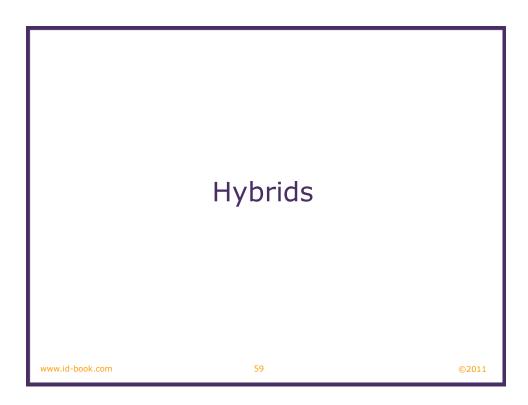


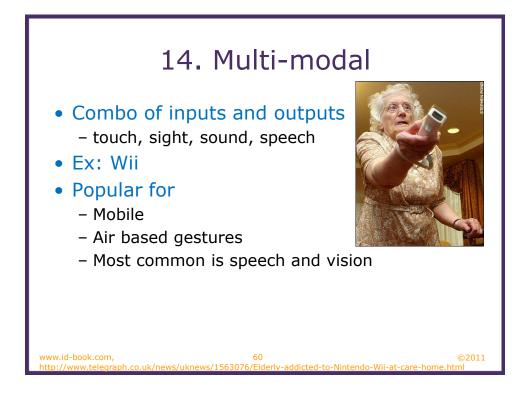


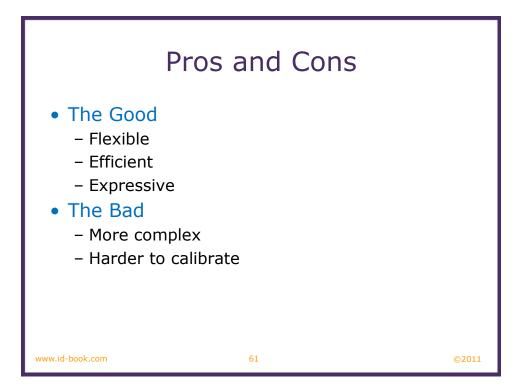


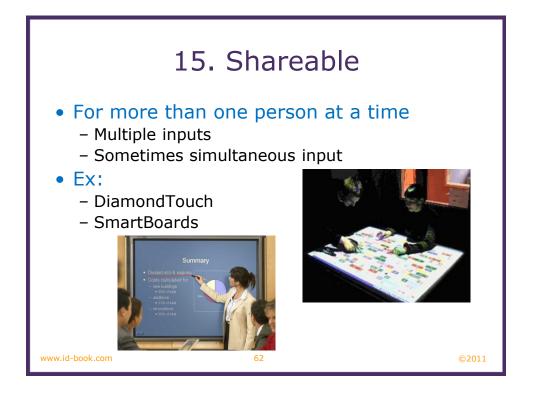


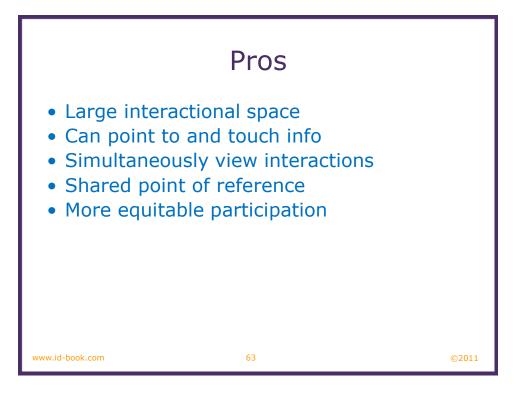




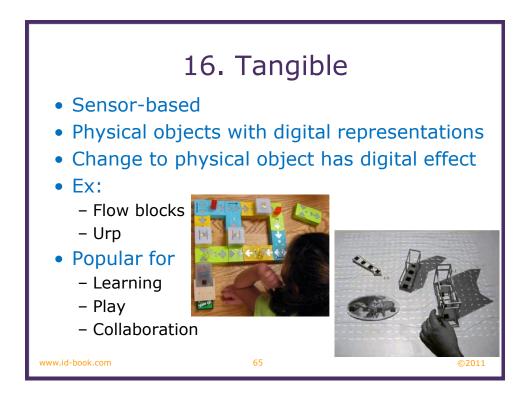












Pros and Cons	
<ul> <li>The Good <ul> <li>Multi-user</li> <li>Diverse object interactions</li> <li>Facilitates creativity</li> </ul> </li> <li>The Bad <ul> <li>Downsides to physical component</li> <li>User may lose</li> <li>Takes up space</li> </ul> </li> <li>Technological challenge</li> </ul>	
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