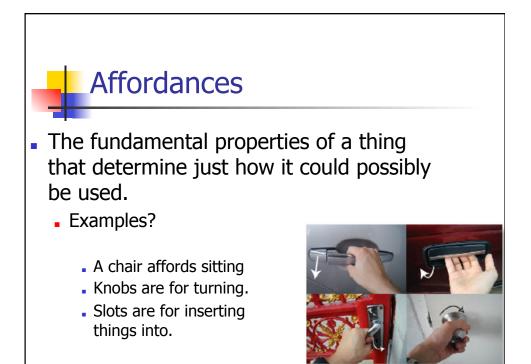


Norman Ch 1

- Affordances
- Visibility
- Conceptual models
- Constraints
- Mappings
- Feedback

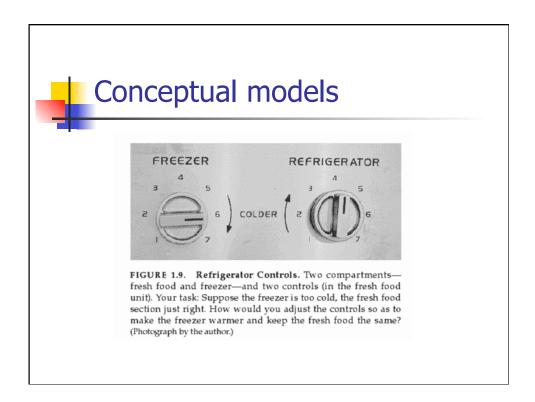


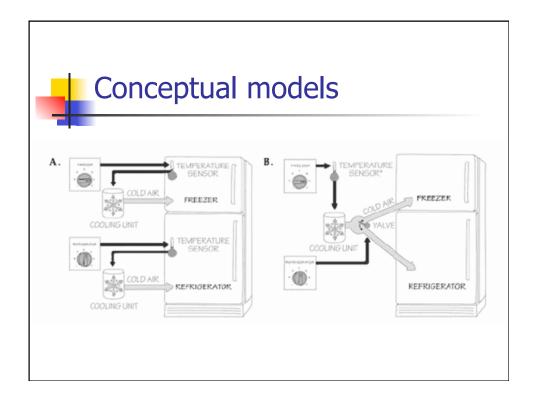
Visibility

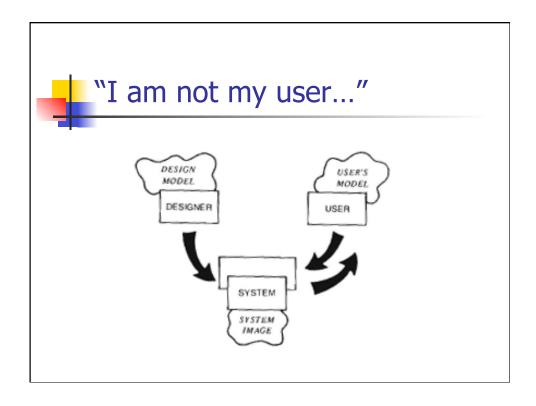
- aka "Obviousness"
- The correct parts must be visible.
- They must convey the correct message.
- Impacts learnability.
- How different from affordance?
- Examples?

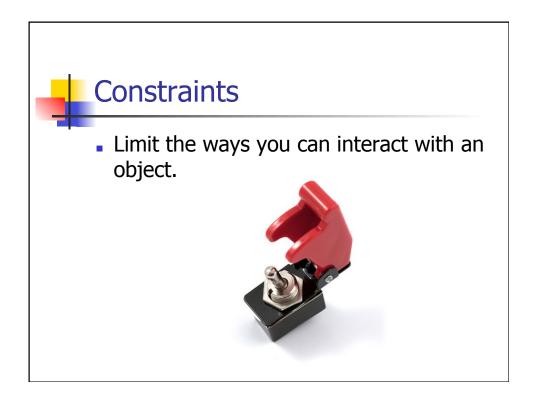


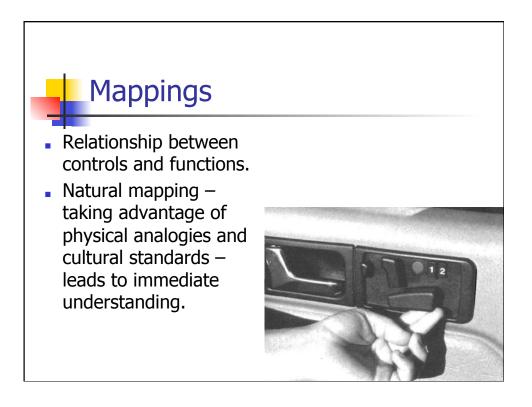


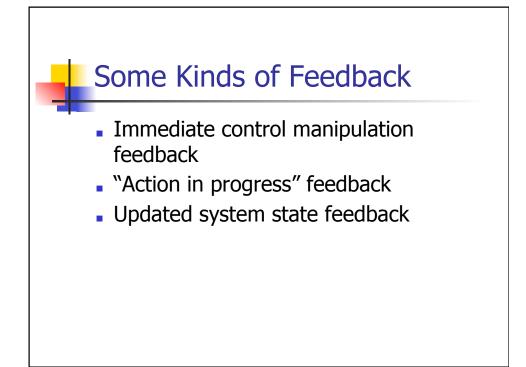


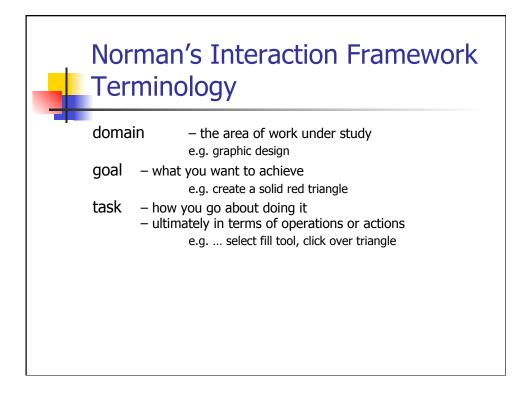


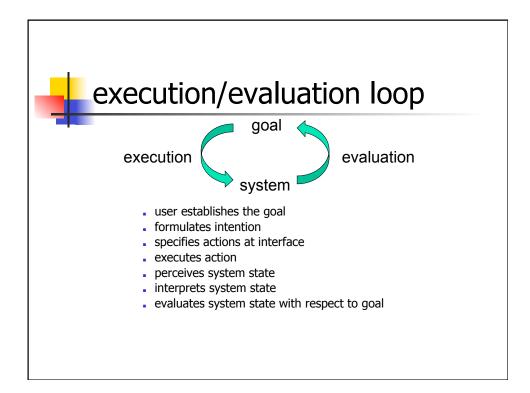


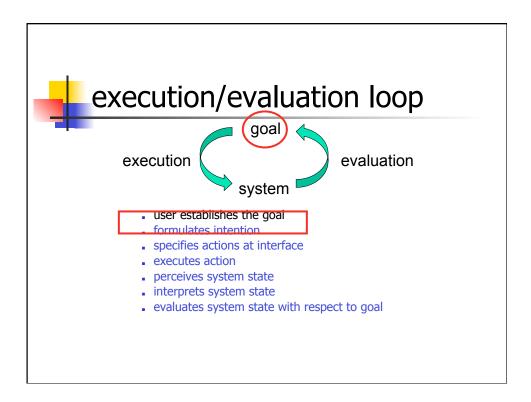


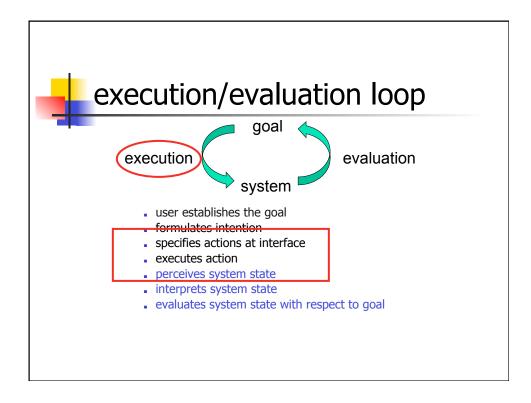


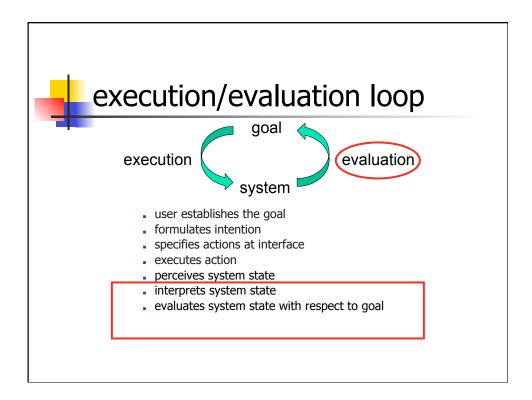


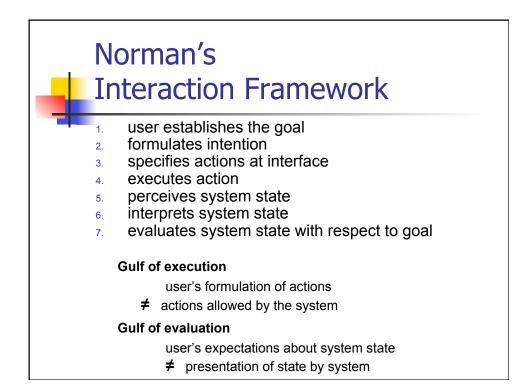


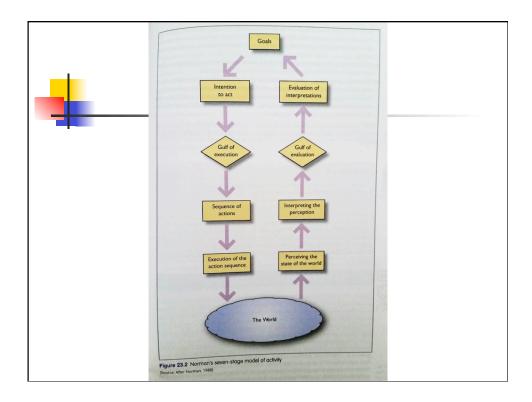






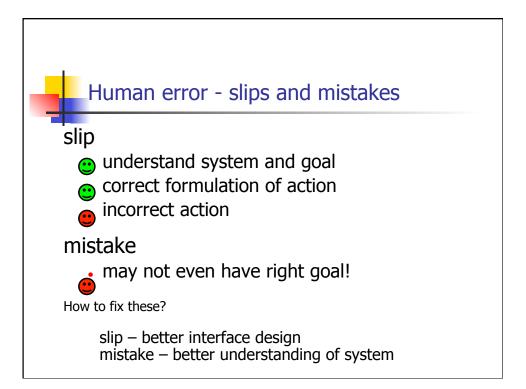






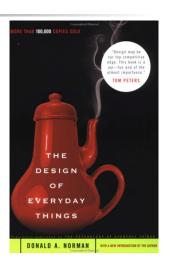


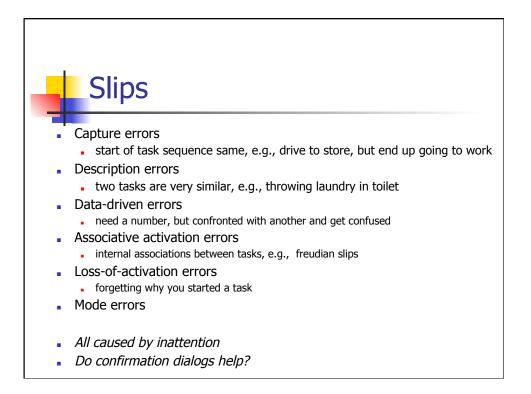
- Slip
 - Error in executing action
- Mistake
 - Error in formulating intention & action



Norman Ch 5 Design for Errors

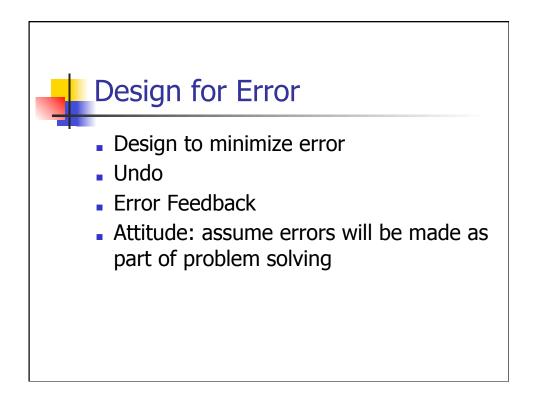
- Slips
- Mistakes
- Modes
- Preventing Errors
- Error Recovery

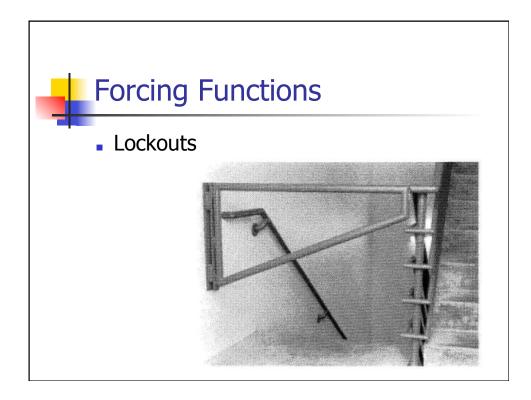


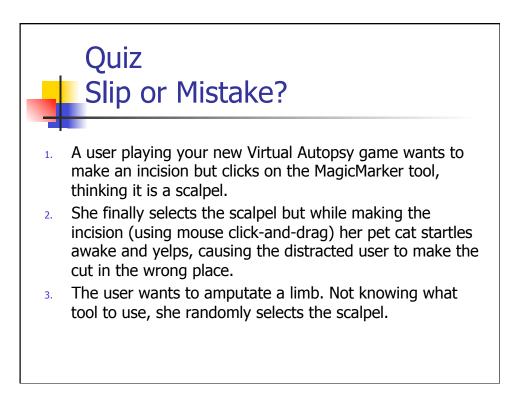


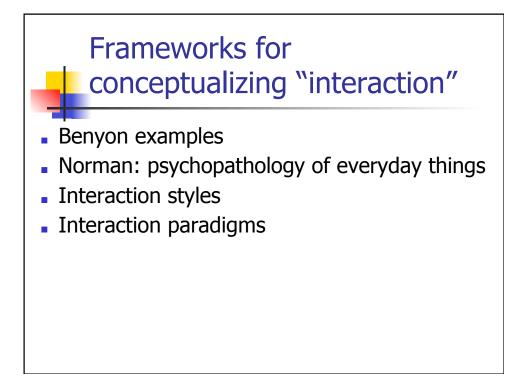
Mistakes

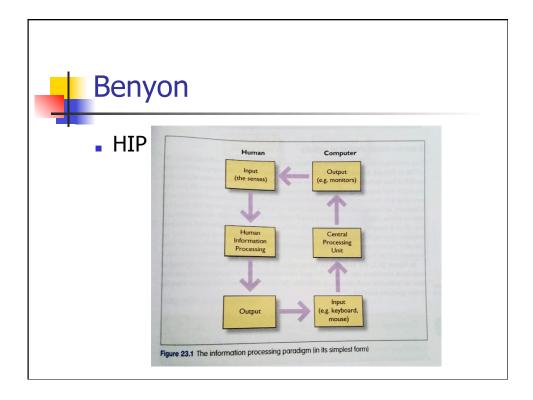
- "Wide" vs. "Deep" tasks
 - Many options, but few steps (e.g. ordering)
 - Many steps (driving to work)
 - examples ?
- Most everyday tasks are Wide or Deep
- Most computer tasks are BOTH
- Do confirmation dialogs help?

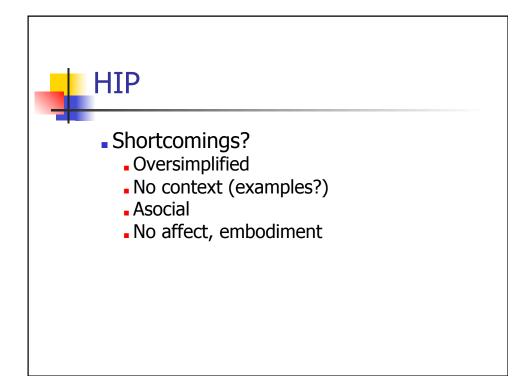


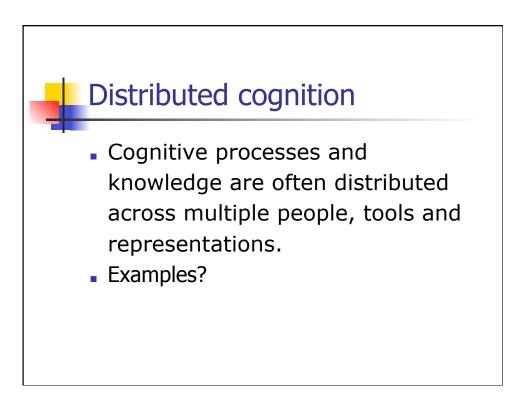






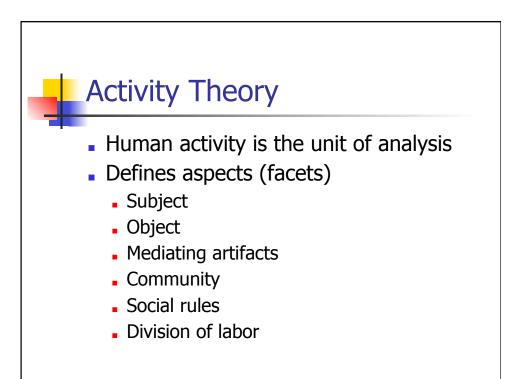








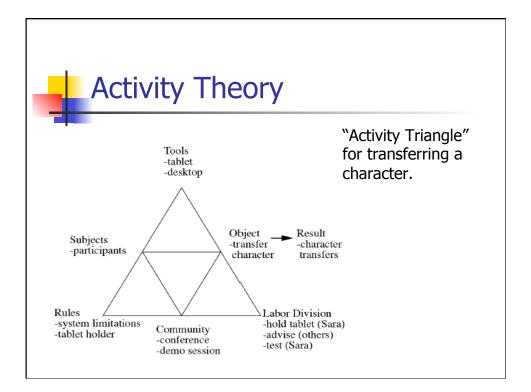
- Internal representation
- External representation



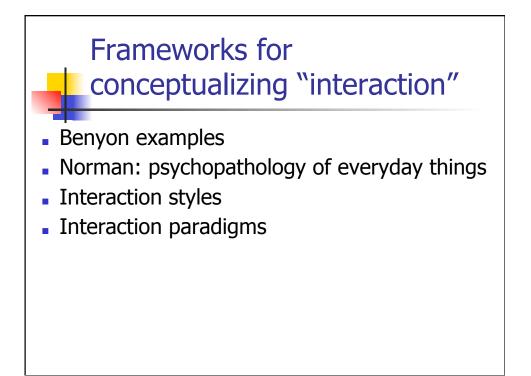
Activity Theory & Distributed Cognition shootout



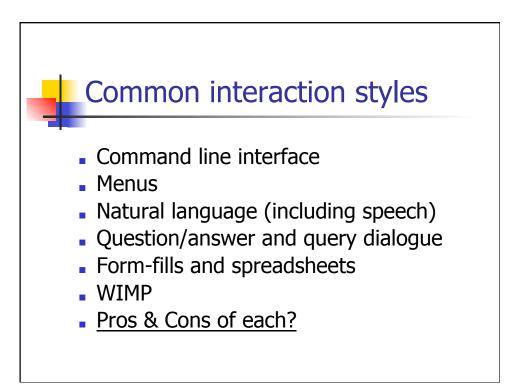
Baumer & Tomlinson, CHI'11

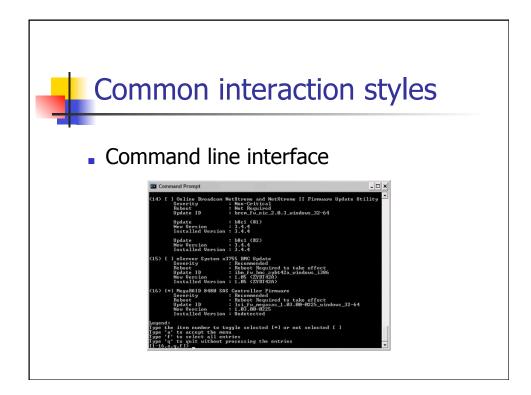


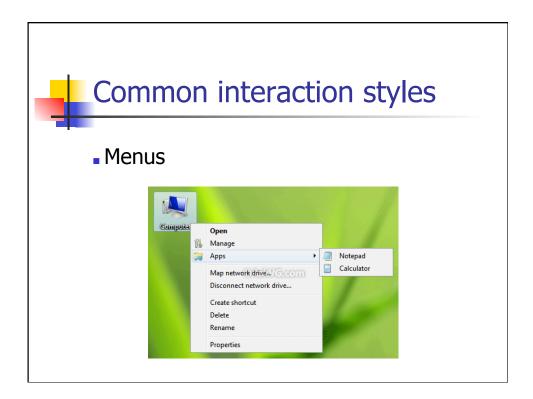
Distributed Cognition									
	Event (time)	Sara	Blake	Tony	Tablet	LCD	Desktop	Character	
rep state	First event: tilting	hold/tilt tablet	speech, tilt tablet	speech, gesture	orientation	raft moving	fire crackling	on raft	
medium	demonstration (3:03)	body, tablet	voice, body	voice, body	tablet	LCD	speakers	program	
processing / type		propagate / motor, aural	create / verbal, motor	create / verbal, motor	propagate / physical	propagate/ physical to graphical	propagate / physical to audio	create / virtual	
rep state	Second event: how to transfer (3:19)	speech		speech	orientation	character on raft	fire crackling	on raft	
medium		voice		voice	tablet	LCD	speakers	program	
processing / type		create / aural		create / aural	propagate / physical	propagate / virtual to graphical	propagate/ physical to audio	create / virtual	
rep state	Third event: character leaves tablet (3:23)	speech			position	character jumps	creaking sound	in transit	
medium		voice			tablet	LCD	speakers	program	
processing / type		propagate / visual to verbal			propagate / physical	propagate / virtual to graphical	propagate / physical to audio	create / virtual	



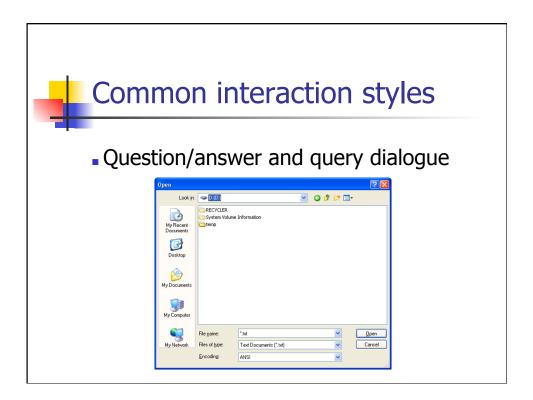




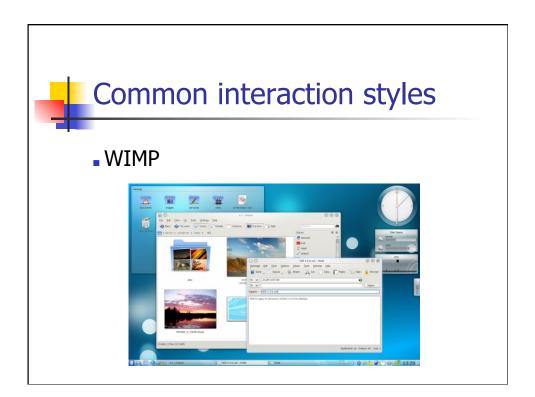








Comr	mon interaction styles	
Form-	-fills and spreadsheets	
	ROCKET SALES LTD. LEAVE APPLICATION	
	(To be filled in by Applicant)	
	Employee Name:	
	Department	
	Designation	
	Leave applied for From To Days.	
	Type of leave 1) SL 3) PL	
	Reasons for leave	
	Address while on leave	
	Contact tel. No.	
	Signature of the applicant	
	(For office use only)	
	Leave sanctioned by:- YIS NO C	
	HR Department: VES NO Signature: Date	



Initiative

- who has the initiative?
 Wizard computer
 WIMP interface user
- WIMP exceptions ... pre-emptive parts of the interface
- modal dialog boxes
 - Come and won't go away!
 - Good for errors, essential steps
 - But use with care

