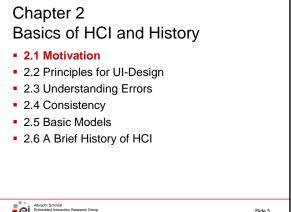


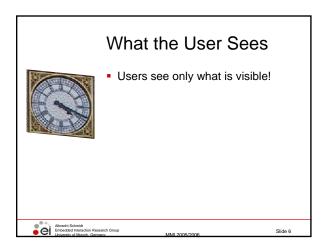
Slide 3

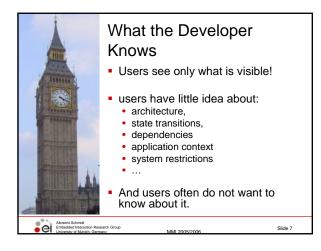


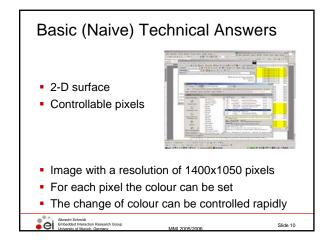
Outline of the course

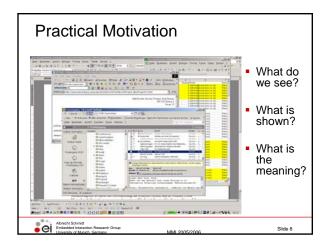
- Introduction
- 2 Basics of HCI and History
- 3 Designing Systems for Humans
- 4 Analysis
- 5 Designing Interactive Systems
- 6 Implementing Interactive Systems
- 7 Evaluation

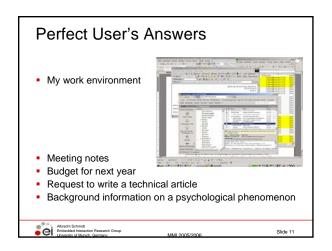
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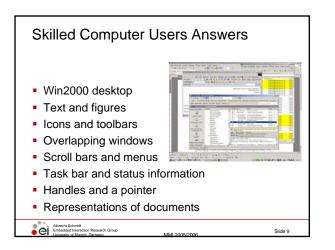


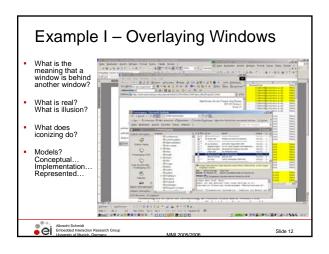


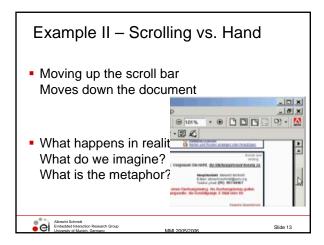


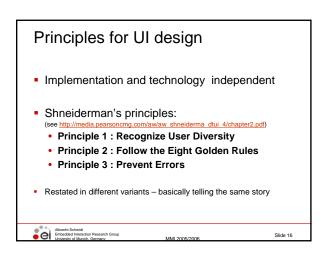


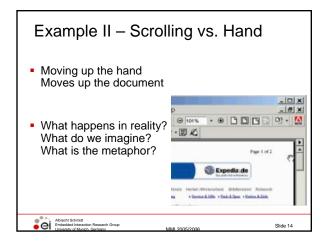


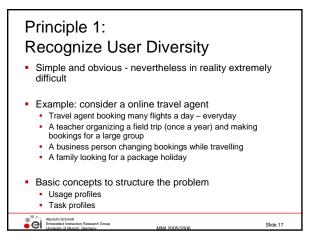


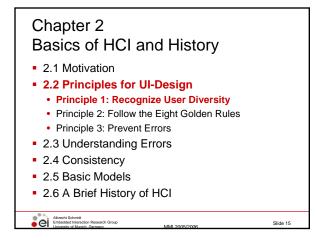


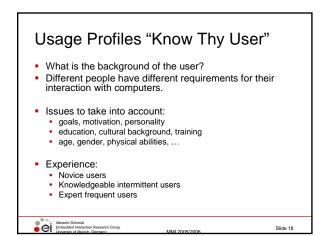


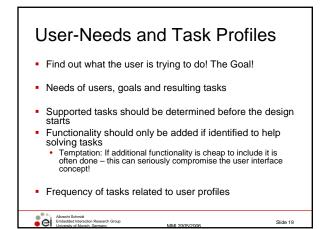


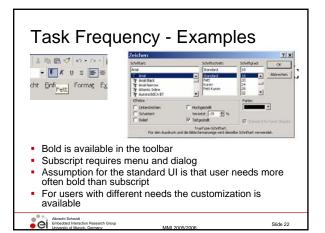






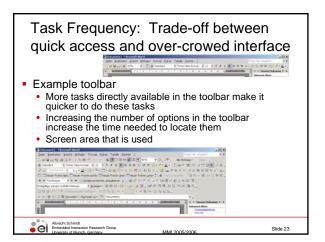






Hypothetical Frequency of Tasks (Example of a booking system for travel)

Task	Group reservation	Change of itinerary	Booking child care	Comparing sales agent performance
Position				penomance
Sales agent	0.2	0.1	0.1	0
Manager	0	0	0	0.3
Family	0.05	0.05	0.3	0
Business traveler	0.01	0.2	0.01	0
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Task Frequency

- Helps to shape a menu structure
 - Frequent action should be simple and quick to carry out
 Infrequent action may take longer
- Example
 - · Frequent actions: Toolbar or special key
 - Intermediate frequent actions: Pull-down menu, key combination (Ctrl+S)
 - Infrequent actions: Sequence of menus or dialogs
- Problem if many (all) actions occur with very similar relative frequency...

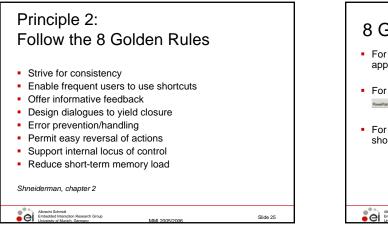
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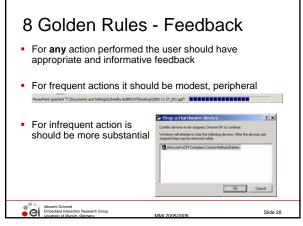
Abrecht Schmidt Embedded Interaction Research Group Chapter 2 Basics of HCI and History

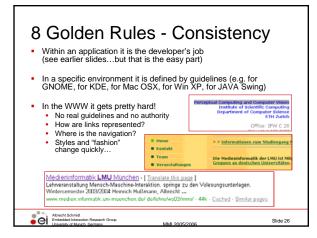
- 2.1 Motivation
- 2.2 Principles for UI-Design
 - Principle 1: Recognize User Diversity
 - Principle 2: Follow the Eight Golden Rules
 - Principle 3: Prevent Errors
- 2.3 Understanding Errors
- 2.4 Consistency
- 2.5 Basic Models
- 2.6 A Brief History of HCI

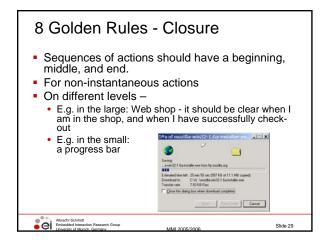
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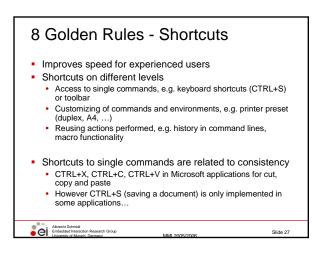
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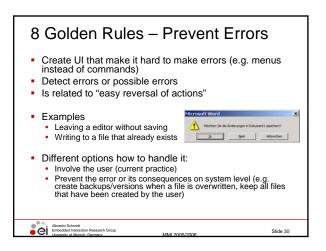


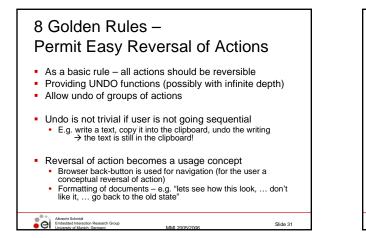


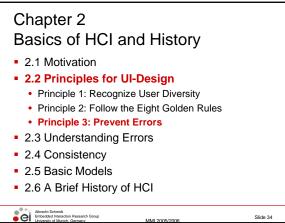




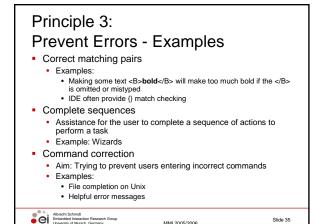












8 Golden Rules -Reduce Short-term Memory Load

- 7 +/- 2 chunks of information
- The system should remember, not the user
- Examples that create problems
 - · Multi-page forms where the user has to know at form N what she filled in in form N-1
 - · Abbreviations introduced in one step and used in the following (e.g. user selects a
- destination as the name of a city and the 33

Chapter 2 Basics of HCI and History

- 2.1 Motivation
- 2.2 Principles for UI-Design
- 2.3 Understanding Errors
- 2.4 Consistency
- 2.5 Basic Models

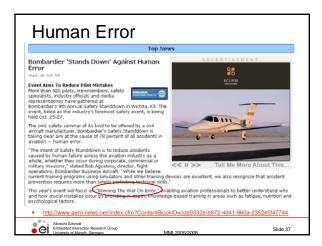
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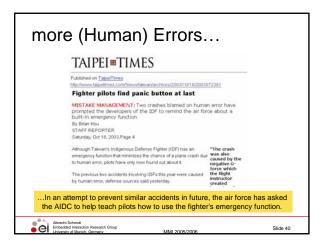
2.6 A Brief History of HCI

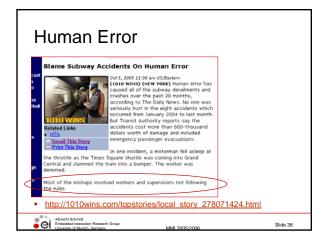
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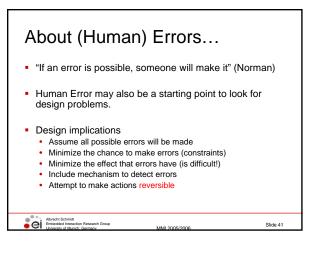
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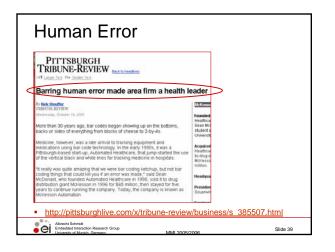
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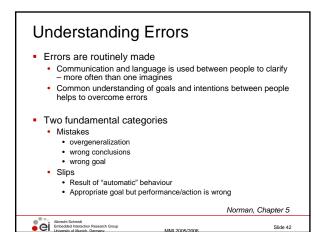












Understanding the types of S Users Make	Slips
Capture errors Two actions with common start point, the more familiar one cap (driving to work on Saturday instead of the supermarket) Description errors	
 Performing an action that is close to the action that one wanted (putting the cutlery in the bin instead of the sink) Data driven errors Using data that is visible in a particular moment instead of the of the single size of the siz	data that is well-
 known (calling the room number you see instead of the phone is by heart) Associate action errors You think of something and that influences your action. (e.g. satisfies the source of th	
 For a minimum of an animal and that infinitences your action. (e.g. se picking up the phone) Loss-of-Activation error ~ forgetting In a given environment you decided to do something but when 	
forgot what you wanted to do. Going back to the start place you Mode error You forcet that you are in a mode that does not allow a certain	u remember.
action has a different effect Nor.	man, Chapter 5
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