#### **Evaluation - Dates**

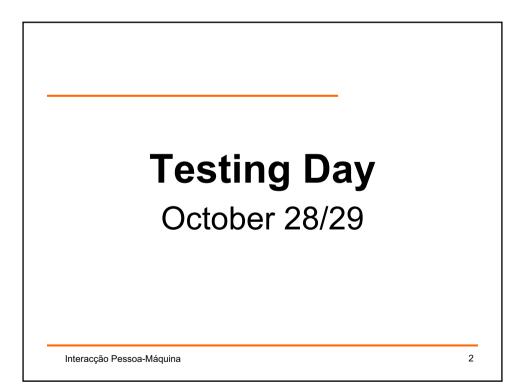
#### Tests:

- T1: November 18, 15h
- T2: January 12, 14h

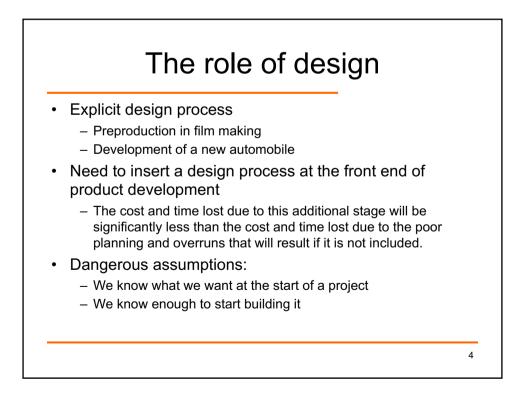
#### Mandatory lab classes:

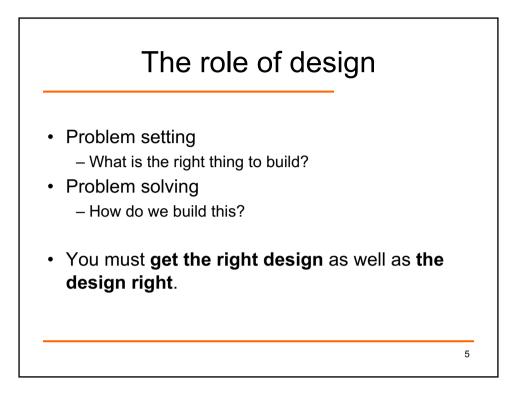
- Prototype testing day: October 28 and 29, 2020
- Heuristic evaluation
- Project presentation

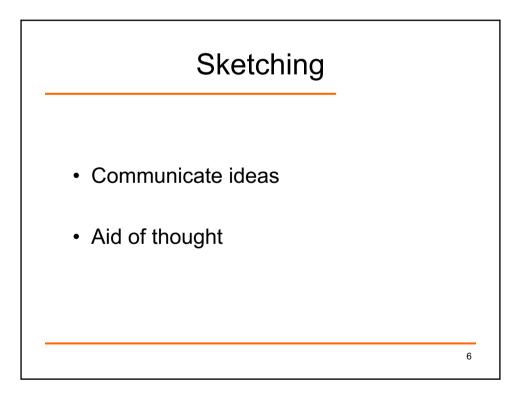
Interacção Pessoa-Máquina







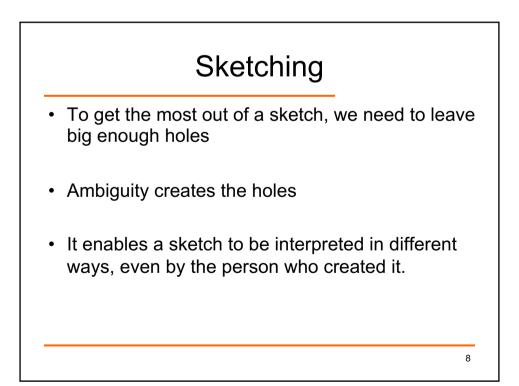


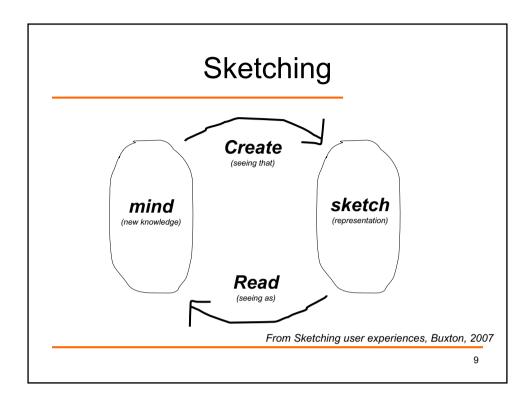


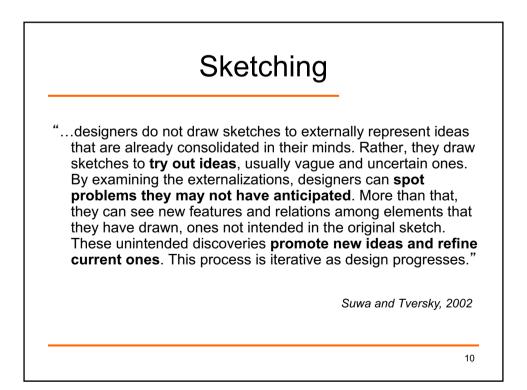
## Sketching

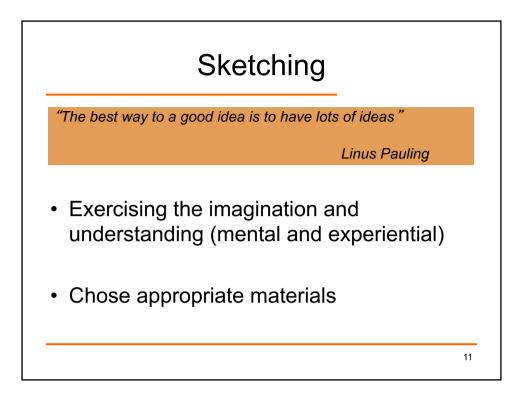
Attributes of sketches:

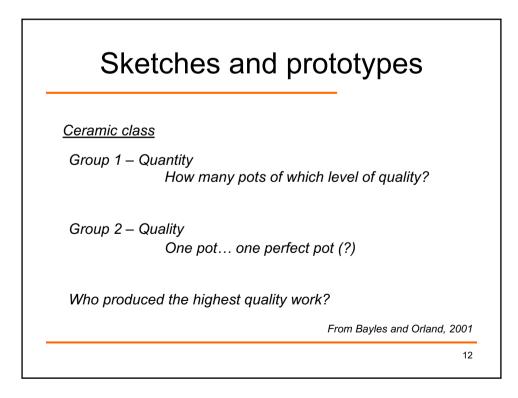
- Quickly / Timely
- Inexpensive / Disposable
- Plentiful
- Clear vocabulary
- Minimal detail
- Appropriate degree of refinement
- Suggests and explore rather than confirm
- Ambiguity





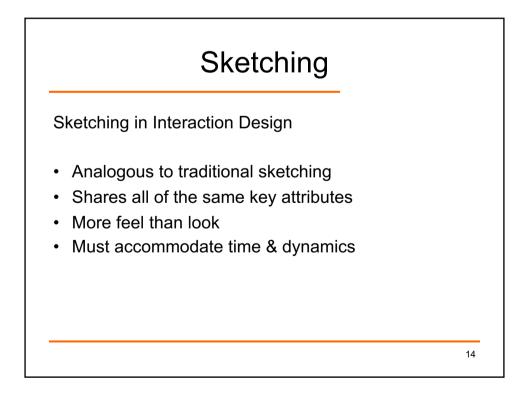




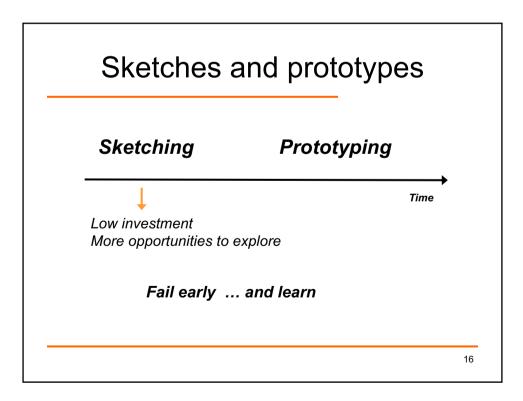


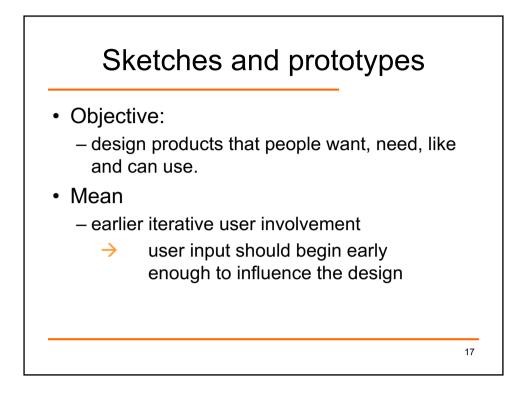
## Sketching

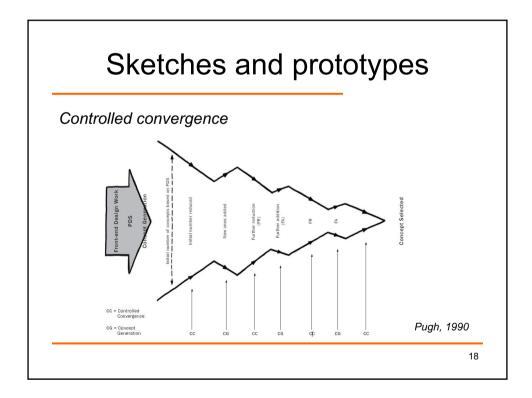
IF AND THEN	Sketching is Fundamental to Design We are Designing Interactive Systems How do you sketch interaction? What are the fundamental skills? What is the fundamental process?
traditional sk	interaction design can be though of analogous to etching. Sketches need to be able to capture the esign concepts around transitions, dynamics, feel,

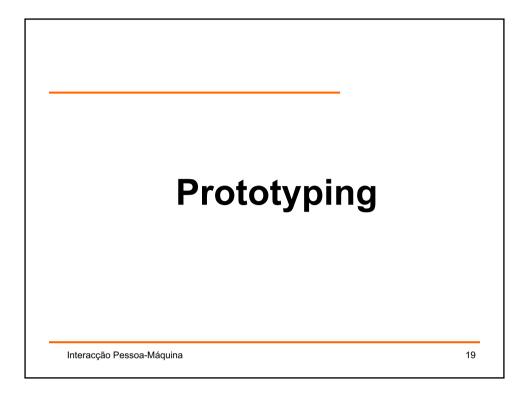


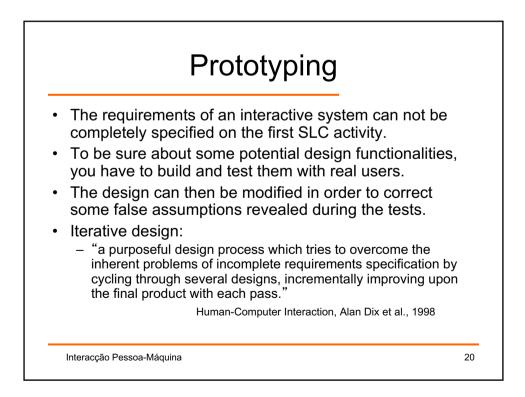
Sketching	Prototyping	1	
		Time	
Suggest			
Explore ——	Refine		
Question ——	→ Answer → Test		
Propose Provoke	Resolve		









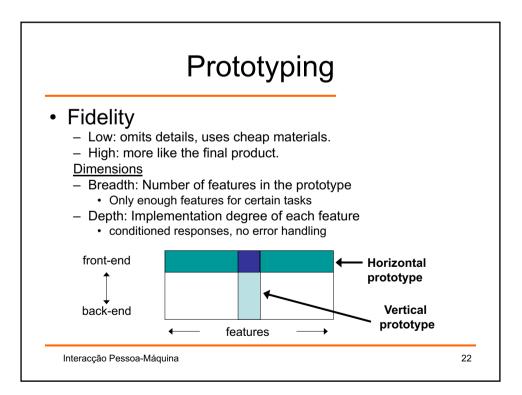


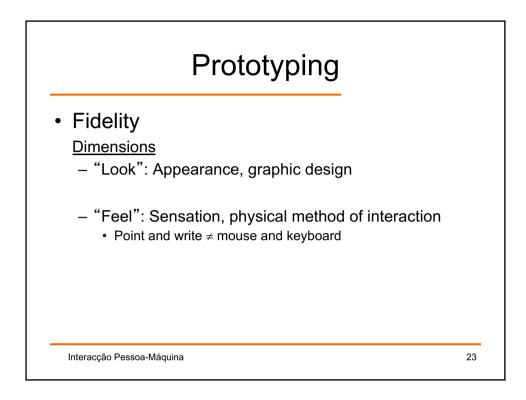
#### Prototyping

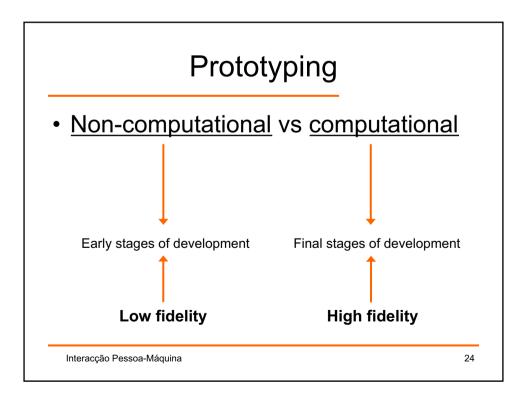
- Why?
  - Faster development, earlier feedback
  - Cheap
  - Makes parallel design easier
  - Easy to modify and throw away
  - The activity of building prototypes encourages reflection in design
  - User-centered design
    - "Experience shows that it is not possible to involve the users in the design process by showing them abstract specification documents, since they do not understand them nearly as well as concrete prototypes".

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Interacção Pessoa-Máquina





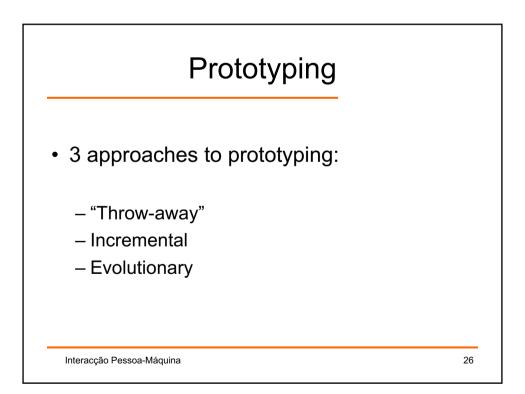


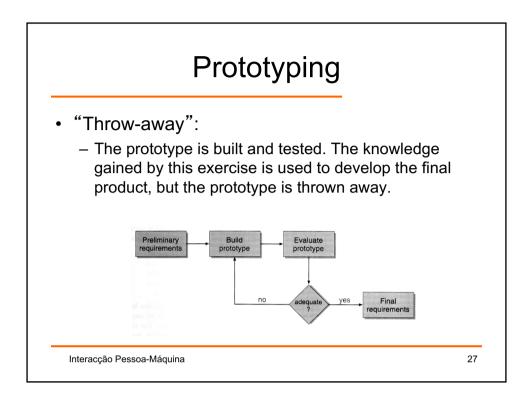
## Prototyping

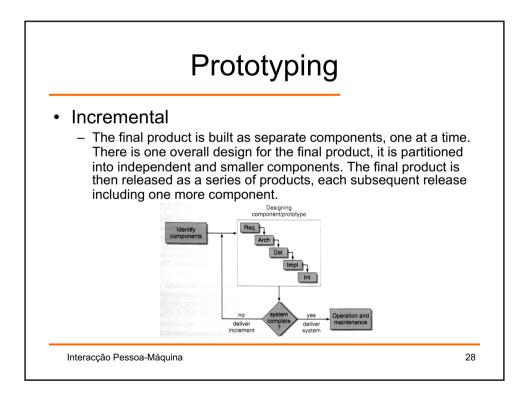
- Prototypes can be produced faster by:
  - placing less emphasis on the efficiency of the implementation
  - accepting less reliable or poor quality code
  - using simplified algorithms
  - wizard of Oz approach
  - using low-fidelity media
  - using fake data and other content
  - using paper mock-ups instead of a running computer system

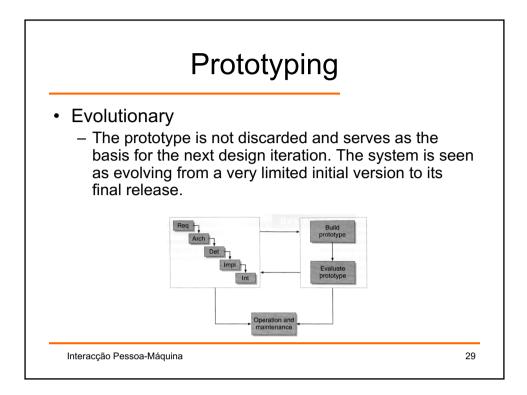
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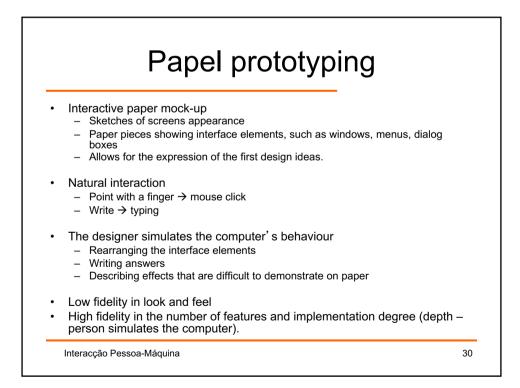
Interacção Pessoa-Máquina

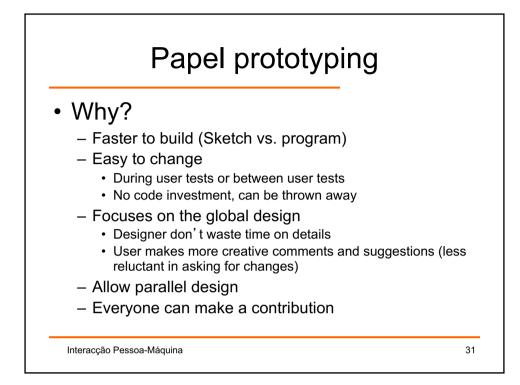


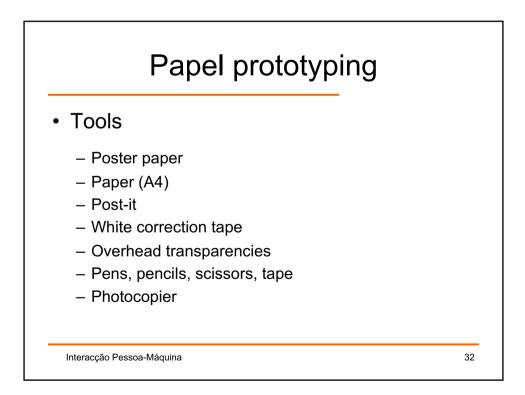


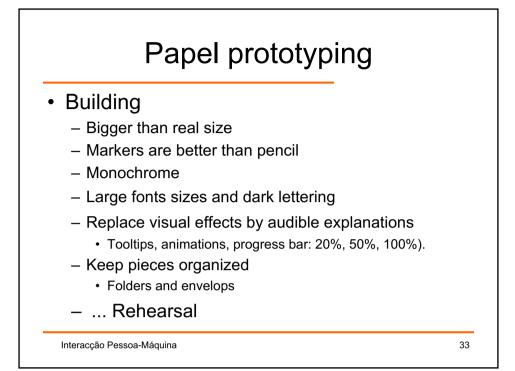


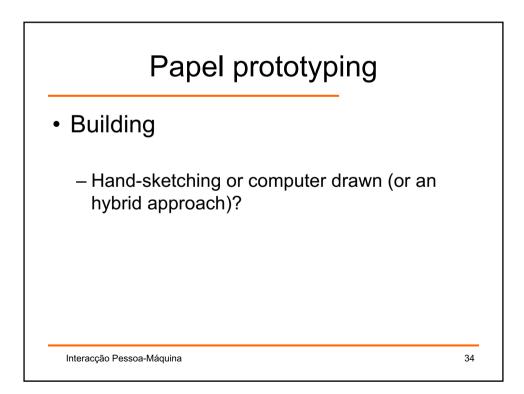


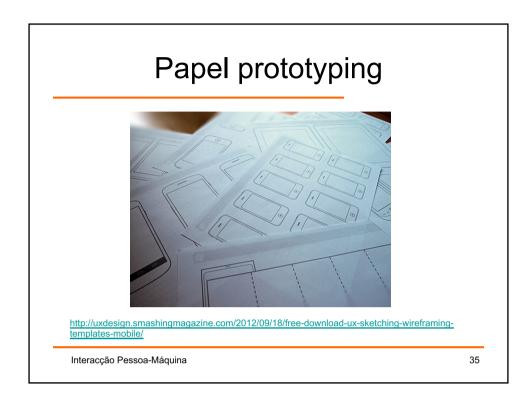


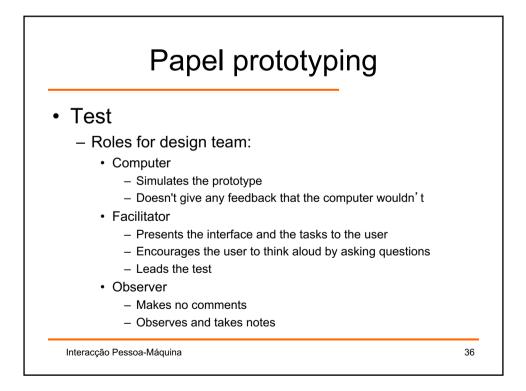


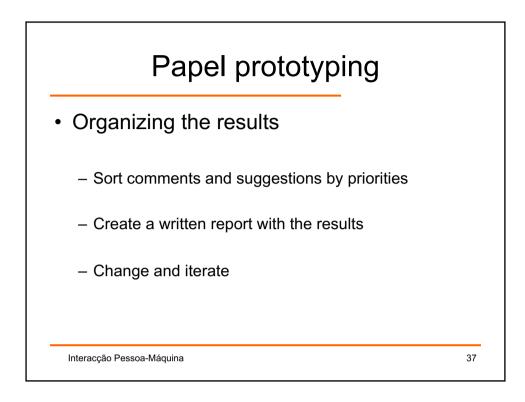


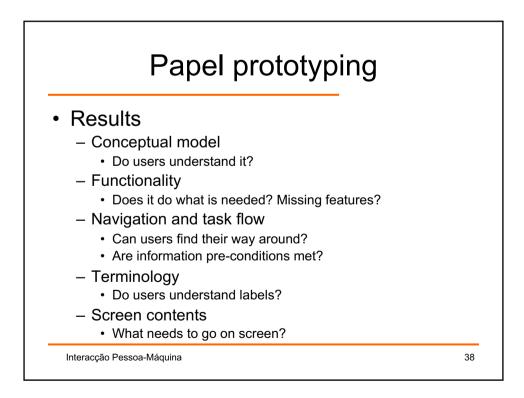












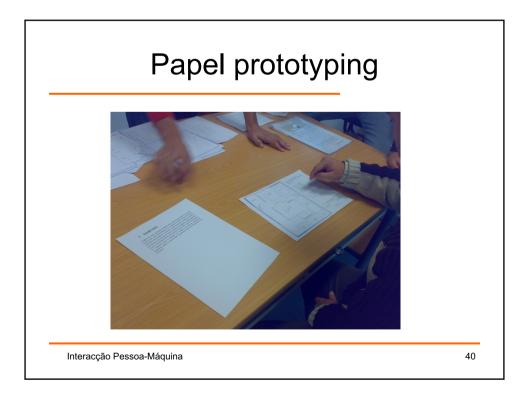
#### Papel prototyping

- Limitations
  - Look: colour, font, ...
  - Feel: Fitt's law issues
  - Response time
  - Dynamic feedback: animations, progress bar, mouseover events,...
  - Context of use
  - Slight changes (subtle feedback)
    - Even the more subtle change in a paper prototype is noticed by the users.

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 Users tend to think much more before acting when interacting with a paper prototype.

Interacção Pessoa-Máquina



# Papel prototyping

