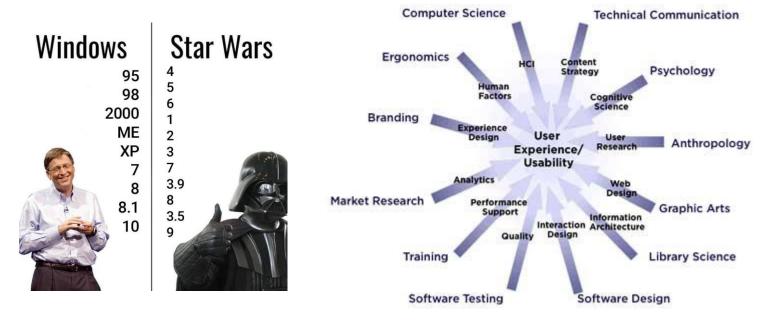
HCI Human Computer Interaction

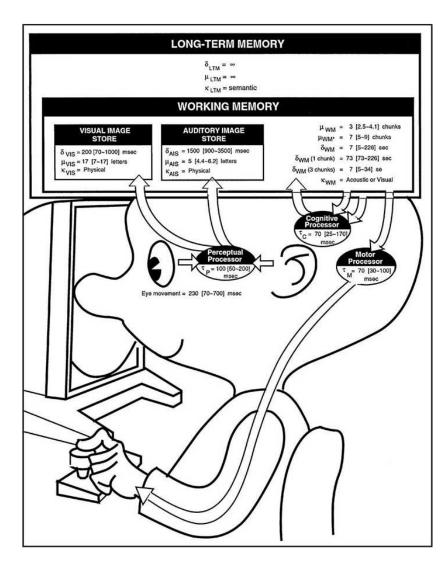
Bi9100

Ergonomics and Applied Anthropology

Concept of HCI

- 1980's
- Specialty area in computer science; cognitive science/human factors
- Usability for non-specialists personal computers

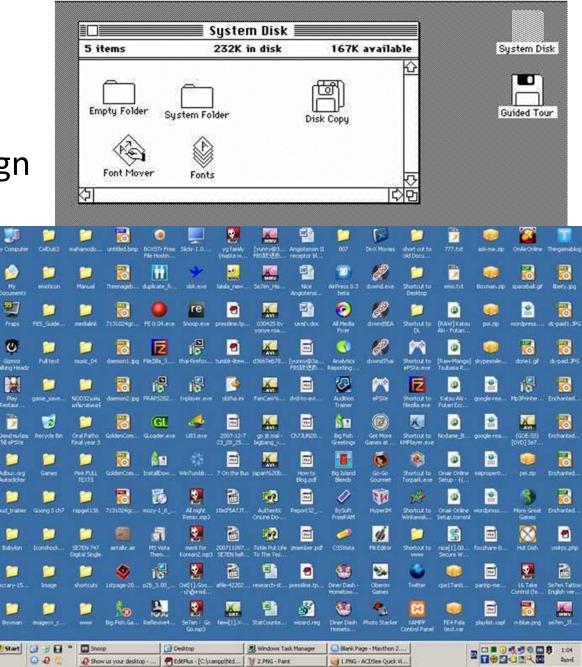




- Graphical interface control design
- E-mails, social networks communication *through* computers
- Diversification and ubiquity –
 notebooks, handheld devices







€ File Edit View Special



Adoption, appropriation, use

Tasks Artifacts

Requirements and design ideas











- Communication
- Perception
- Organization



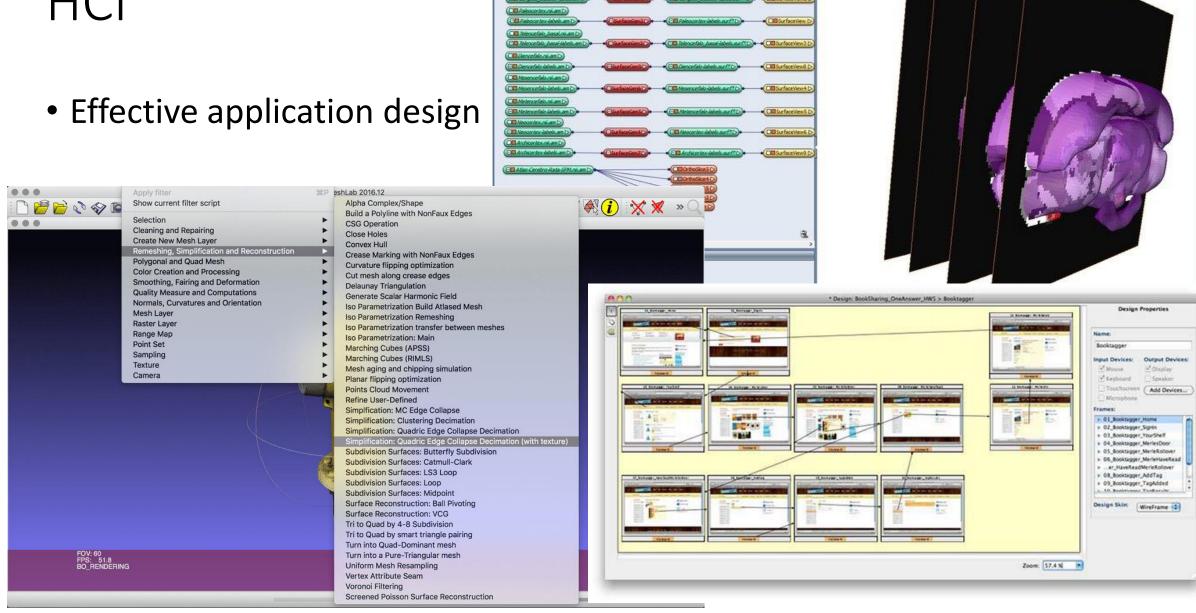








Speak now



2 12 18 8 E

• User requirements

- Questionnaire
- Interview (structured, semistructured)

Questionnaire method

- Preferences
- Behaviors
- Facts
- Question types
- Dichotomous two options
- Polytomous more than two (ordered or unordered options)
- Continuous scale (Likert scale Strongly agree---Strongly disagree)
- Open ended questions (incl. sentence completion)
- Face to face (more like a structured interview)
- Paper and pencil/computerized

Questionnaire construction

 Statements used should be clear, concise and interpreted in the same way by members of the sample of interest

- After a list of possible answers include an open answer
- One aspect of the construct per item
- Positive stetements, no double negatives
- Only one question per item
- Avoid bias, leading questions

Questionnaire construction

- Question flow from leat to most sensitive, general to specific, factual/behavioral to attitudinal
- Logical sequence

Screens

Warm-ups

Transitions

Skips

Difficult

Classification

Standardized interview

- Structured interview
- Often fixed choice of answers
- Semi-structured interview
- Open, allowing new ideas
- Framework of themes
- Pre-arranged design interview guide
- Time consuming analysis