

# CMSC 838G

## People, Paper and Computers



François Guimbretière  
CSI 2120 Tue-Thu 3:30-4:45

# Projects

- Topics
  - Implementation (hardware or/and software)
  - Empirical study (quantitative or qualitative)
- Deliverables
  - Conference quality paper (CHI or UIST)
- Schedule
  - Proposal: Feb 13
  - Check points every 3 week

# Literature review

- New technologies (Feb 18)
  - Ink and paper strokes capturing technologies...
  - Digital strokes capturing technologies...
- Annotations system (Feb 20)
  - FreeStyle, MATE, Xlibris...
- Paper as input mechanisms (Feb 25)
  - Dataglyph system, Xax, Paper PDA, Anoto system,...
- Mixed paper/computer interfaces (Feb 27)
  - Digital Desk, Ariel, A-Book,

# Affordances

Paper

Electronic documents

# Affordances

## Paper

- Inexpensive
- Lightweight
- Thinking tool
  - Problem solving, proofreading...
- Visualization tool
  - Large format, high resolution...
- Collaboration tool
  - Easy to share, easy to control...
- Document exploration tool
  - Scan over, flip through a book...
- Flexible navigation tool
  - Tactile feedback...
- No encoding

## Electronic documents

- Easy to share and distribute
  - Distant setting
- Dynamic
  - Movies, animations,...
- Easy to copy
- Easy to store
- Easy to retrieve?
- Easy to search?

# Cost structure

Paper

Digital documents



But...

# Cost structure

## Paper

- Inexpensive to create (print)
- Expensive to adapt
- Expensive to distribute
- Expensive to capture
- Expensive to store
- Expensive to retrieve

## Digital documents

- Expensive to create
- Inexpensive to adapt
- Inexpensive to distribute
- Inexpensive to capture
- Inexpensive to store
- Inexpensive to retrieve

But...

- Expensive infrastructure
- Obsolescence

# Reading for next class

- MPO: Chap 3-4