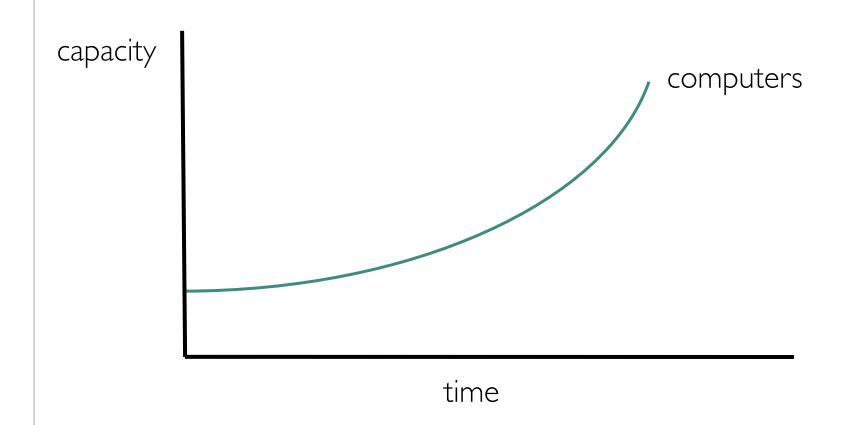
Fundamentals of Situated Interaction

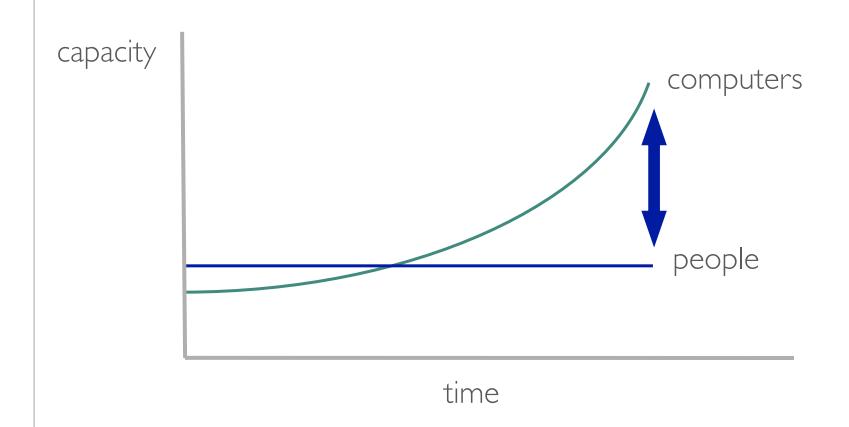
Wendy Mackay & Michel Beaudouin-Lafon 16 September 2016

If computer capacity and functionality are increasing

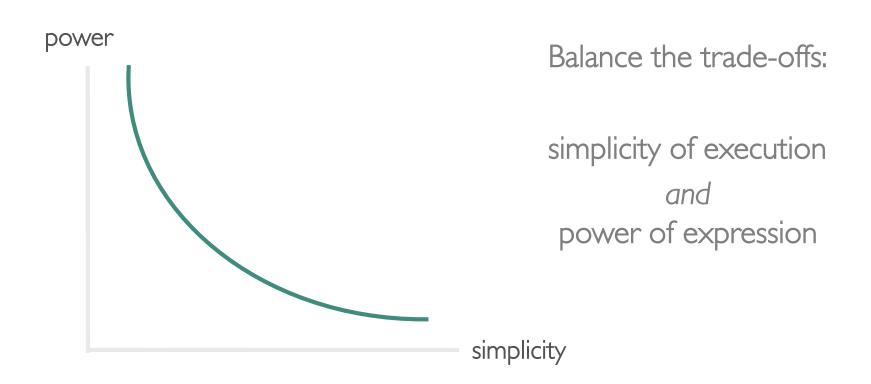


If computer capacity and functionality are increasing

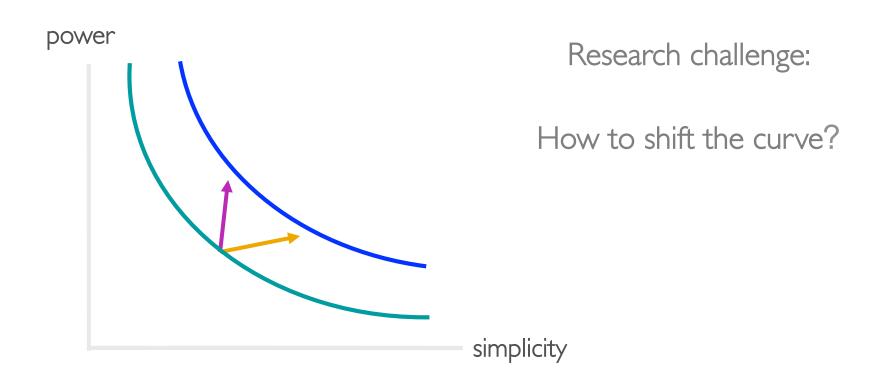
... human capabilities are not



Power vs. Simplicity



Power vs. Simplicity



Three interaction paradigms

Computer as tool

First person interfaces

Empower users

Computer as servant
Second person interfaces
Delegate tasks

Computer as medium
Third person interfaces
Communicate







Human-Computer Interaction

Artificial Intelligence

Social media Multimedia



Next Week 13h30!!

Read:

Beaudouin-Lafon, M. (2000). Instrumental Interaction: an Interaction Model for Designing Post-WIMP User Interfaces. *Proc. ACM Human Factors in Computing Systems*, CHI 2000, The Hague (The Netherlands), CHI Letters 2(1):446-453, ACM Press.

Beaudouin-Lafon, M. & Mackay, W. (2000). Reification, Polymorphism and Reuse: Three Principles for Designing Visual Interfaces. *Proc. Advanced Visual Interfaces*, AVI 2000, Palermo (Italie), ACM Press, pp 102-109.

Key phenomenon: Co-adaptation

Users adapt to a new system they learn to use it

Users adapt the new system to their own needs they appropriate and change it

Creative activities require both especially when integrating physical and digital information

Create digital tools that are as intuitive, and learnable, as physical tools

Reciprocal Co-adaptation

People adapt their behavior to technology

... they learn it

People adapt the technology for their own purposes

... they appropriate it

Computers adapt their behavior to people

... machine learning

Computers adapt human behavior

... training