

<u>Use and context of computers</u>

Problems of fitting computers, their uses, and the context of use together

Social organization and work

- humans are interacting social beings
- considers models of human activity:
 small groups, organizations, socio-technical systems
- quality of work life...

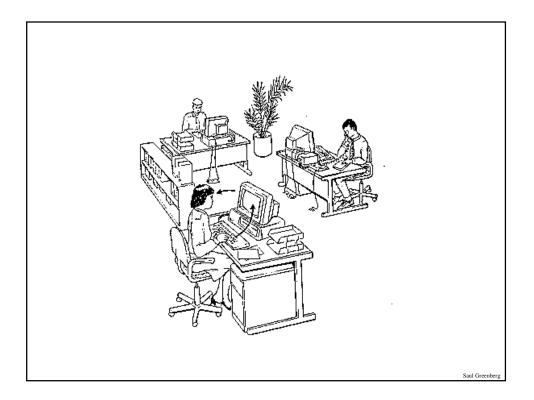
Application areas

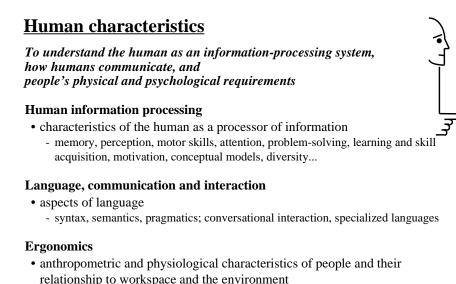
- characteristics of application domains, e.g. individual vs group work
- popular styles

- document production, communications, design, tutorials and help, multi-media information kiosks, continuous control (cockpits, process control), embedded systems (copiers, home appliances)

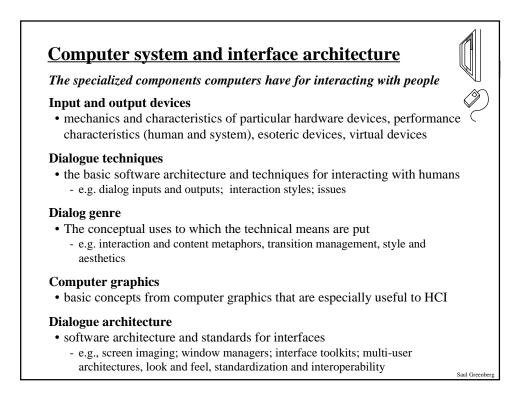
Human-machine fit and adaptation

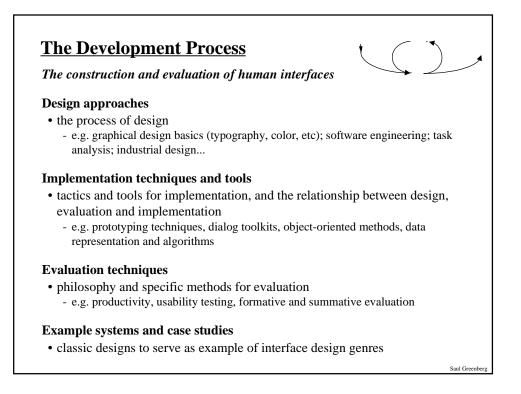
- improve the fit between the designed object and its use
 - how systems are selected and adopted; how users improvise routine systems; how systems adapt to the user (customization); how users adapt to the system (training, ease of learning); user guidance (help, documentation, error-handling)

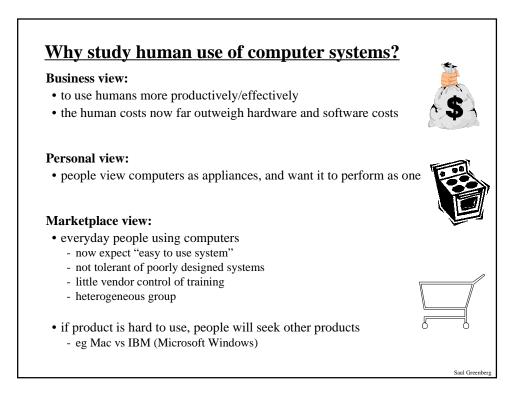


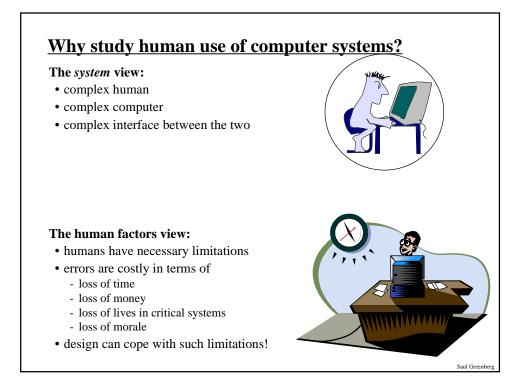


 arrangement of displays and controls; cognitive and sensory limits; effects of display technology; fatigue and health; furniture and lighting; design for stressful and hazardous environments; design for the disabled...









Why study human use of computer systems? The social view: Computers contribute to critical parts of our society, and cannot be ignored • educate our children • take medical histories and provide expert advice · keep track of our credit worthiness • play(?) war games (and help form policies) • control air and ground traffic flow • book travel • control chemical/oil/nuclear plants • control space missions • assist humans with their everyday tasks (office automation) • control complex machines (aircraft, space shuttles, super tankers) • help control consumer equipment (cars, washing machines) • entertainment (games, intellectual stimulation).... In all these views, economics and human best interests are aligned

You know now

The HCI discipline includes the study of:

- the use and context of computers
- human characteristics
- computer system and interface architecture
- the development process

HCI is worth studying because it aligns both human interests and economic interests