



# Problem

access to  
computers



access to  
electronic  
resources



# Solution

adaptive  
technology

universal  
design  
principles





# Computers assist people with:

- low vision
- blindness
- hearing impairments
- speech impairments
- specific learning disabilities
- mobility impairments
- health impairments



## Low Vision

- large print signs, handouts, labels
- good lighting
- large print key labels
- large monitors
- software to enlarge screen images
- software to adjust screen colors



# Blindness

- Braille & taped materials
- Braille labels
- Computers with voice output
- Braille screen displays
- Scanners & optical character recognition
- Braille printers
- Internet accessible services/resources



# Hearing/Speech Impairments

- computers with visual output
- electronic mail
- speech synthesizers



# Specific Learning Disabilities

- staff assistance
- quiet work areas
- computers with voice output
- spelling/grammar checkers, thesauruses
- word prediction software
- software to enlarge screen images
- large monitors



# Mobility Impairments

- adjustable tables
- keyboard modifications
- keyboard guards & layouts
- alternative keyboards & mice
- Internet services/resources



# Health Impairments

- electronic mail
- Internet accessible services/resources



# Adaptive Technology

- hardware/software
- easy/difficult to implement
- easy/difficult to use
- inexpensive/expensive
- generic/unique
- stand alone/networked



# Getting Started!

- adjustable tables
- large print key labels
- screen enlargement software
- large monitors
- speech output
- Braille conversion software & printer
- trackballs, wristrests, keyguards



# Resources

- Closing The Gap  
<http://www.closingthegap.com/>
- DO-IT  
<http://weber.u.washington.edu/~doit/>
- EASI  
<http://www.isc.rit.edu/~easi/>
- Tech Act programs  
<http://www.resna.org/resna/abstract.htm>