

Assistive Technology Feature Charts

Input: How the system is activated. Determined by the motor, sensory, and cognitive abilities and needs of the user.

Direct Selection Input Method	The Human Interface	The Technology Feature
Keyboard Assisted Keyboard	Hand(s)/Digit(s) Foot/Toe Headstick/Chinstick Mouthstick	Standard Keyboard Adjustable Keyboard Ergonomic Keyboard Rearranged Keys
Alternate Keyboard	Hand(s)/Digit(s)/Fist Foot/Toe Headstick/Chinstick Mouthstick Tongue	Enlarged Keyboard Miniature Keyboard Condensed Keyboard Chordic Keyboard
OnScreen Keyboard	Mouse or mouse emulator activated via Hand/Foot/Head	Keyboard on Monitor Display
Pen Controlled	Handwriting Hand (body) held pointer	Handwriting Recognition SWIPE
Mouse Emulation	Hand/Digit/Fist/Elbow Foot Head/Chin	Mouse/Trackball Tracpad/Tablet Mouse Stick Head Movement Sensitive Unit
Light Pointing	Light source mounted on head or other part of the body	Light Panel Photosensitive Cell
Voice Recognition	Speech Sound Noise (ie. Clapping)	Discrete Speech Continuous Speech Sound Activated Cell
Eye Gaze	Eye movements Eye pointing	Etran Eye Gaze System
Mind Control	Brain wave Activity	Mind band/Helmet Electrodes
Switch	Single Switch Activation via pressure, pneumatic, motion, physioelectric, photosensitivity, sound, proximity	Connected to: Battery Device Electronic Appliance Computer Interface Box Communication System Morse Code

Indirect Selection				
Switch Types	Switch Activation	Scanning Displays	Types of Scanning	Ways to Operate the Scan
Single	Pressure	Light Diodes	Linear	1 Switch Step
Dual	Pneumatic (air)	Light Panel	Circular	1 Switch Sequence
Multiple	Motion	OnScreen Display	Row/Column	2 Switch Step
Directional	Physioelectric	Dynamic	Column/Row	Automatic
Proportional	Photosensitive		Group/Block	Continuous
	Sound		Directed	Inverse
	Proximity		Auditory	

Assistive Technology Feature Charts

Processing: The organization of the system. Includes the layout, software type, language representation, and rate enhancement techniques. Determined by the cognitive, receptive and expressive abilities and needs of the user.

Keyboard Layouts	Full Keyboard Displays	Standard	QWERTY, ABC, AEIOU	
		Ergonomic	CHUBON, DVORAK, Center Space	
	Half Keyboard Displays		Half Qwerty Chordic	
Cognitive Supports	Grammar	Grammar Checker, Active Grammar Check, Language-based Word Prediction		
	Spelling	Spell Checker Active Spelling Cue		
	Menu	Auditory menu Picture menu		
Language Supports		The strategy of how the target item is stored	Form that the target item is stored	
	Single Key Activated (one selection)	Tape Recorded Digital Recording Text to Speech	Single Word Partial Message/Phrase Whole Sentence/Message	
	Multiple Keys Activated (multiple selections)			
	Encoded Strategies (single display set = multiple messages)	Orthography (alphabet layout)	Spelling	
		Abbreviation Expansion	Single Word Partial Message/Phrase Whole Sentence/Message	
		Logical Letter Codes	Single Word Partial Message/Phrase Whole Sentence/Message	
		Number Coding	Single Word Partial Message/Phrase Whole Sentence/Message	
		Alpha/Numeric Coding	Single Word Partial Message/Phrase Whole Sentence/Message	
		Semantic Compaction	Single Word Partial Message/Phrase Whole Sentence/Message	
		KeyLinking	Single Word Partial Message/Phrase Whole Sentence/Message	
		Morse Code	Single Word Partial Message/Phrase Whole Sentence/Message	
	Branching Strategies (multiple display sets = multiple messages)	Levels & Locations	Single Word Partial Message/Phrase Whole Sentence/Message	
		Dynamic Displays	Single Word Partial Message/Phrase Whole Sentence/Message	
		Auditory Scans	Single Word Partial Message/Phrase Whole Sentence/Message	
Rate Enhancement Strategies	Strategy Type		Processing strategy used with...	
	Word Prediction		Orthography	
	Symbol/Icon Prediction		Semantic Compaction, Key Linking, Dynamic Displays	
	Pop Up/Sort Dialog Windows		Dynamic Displays	
Frequency Averaging		Encoded and Branching strategies		

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Output: The result of activating the system. Determined by the sensory, cognitive, receptive and expressive abilities, needs and expectations of the user.

Type of Output	Resulting Output Needed/Expected	The Technology Feature	
Auditory	Key Activation Feedback	Key Beep Key Echo	
	Synthesized Speech (Text-to-Speech)	Nuance DECTalk Eloquence InfoVox Macintalk Via Voice SAPI	
	Recorded Speech Recorded Sound	Digitized Speech Digitized Sound	
Visual	Contrast: Color Monochrome Reverse Polarity Backlighting/Side-lighting	Display Type: Desktop Monitor Portable Display Built-in Display	
	Size: Enlarged Display Enlarged Picture Enlarged Font	CCTV/camera Large Screen Monitor Screen Enlarger Text Enlargement	
	Hard Copy: Regular Print Enlarged Print Color Print	Printer Type: Desktop Portable Built-In	Print Methods: Dot Matrix InkJet/Bubble Jet Thermal Laser Jet
Tactual	Tactual Alert (shaking)	Vibration	
	Brailled Text	Text to Braille Conversion Braille Embosser	
	Refreshable Braille	Text to Braille Conversion Single Character Display Single Line (40/80) Display	
	Tactual Map Tactual Graphic	Thermoform Raised Graphic Paper	
Interface Capabilities	Connect to: Internet/WWW Electronic Mail Server Listserv/Bulletin Board	Type of Connection: Serial Parallel SCSI PCMCIA Ethernet USB	
	Electronic Imaging: Scanner Camera/Video	Serial Parallel USB	
	Computer Emulator	ASCII	

Assistive Technology Feature Charts

General Features: Physical and other properties that impact system selection.

Portability	
	Weight
	Size, Dimensions
	Handle/Carry Strap/Belt
	Mounting Options
	Carry Case
	Battery Life

Company Policy	
	Initial Setup and Training
	Loaner availability
	Service/Repair Record
	Rent to Purchase Program
	Financing Assistance
	Local Representative
	Site Licensing

Other	
	Cost
	Ease of Use
	Transparency
	Memory/Storage Capacity
	Customizability
	Upgradeable/Expandable
	Back-up Capability
	Aesthetics
	Durability