



Assistive Technology Strategies and Solutions for People with Neurodegenerative Disorders

Carolyn Phillips, Tools for Life

With contributions from Martha Rust, Liz Persaud & Ben Satterfield

www.gatfl.org

AGENDA

- **Accessing Tools for Life - Your AT Act Program**
- **Define & Explore the degenerative neurological disease (DND) process:**
 - **Huntington’s disease (HD)**
 - **Multiple sclerosis (MS)**
 - **Amyotrophic lateral sclerosis (ALS)**
- **Considering AAC & matching individuals with AT**

“Technology gives me
hope & I need a lot of
Hope!”

~ Earnestine





Tools for Life Mission

We're here to help Georgians with disabilities gain access to and acquisition of assistive technology devices and assistive technology services so they can live, learn, work, and play independently in the communities of their choice.





Tools for Life

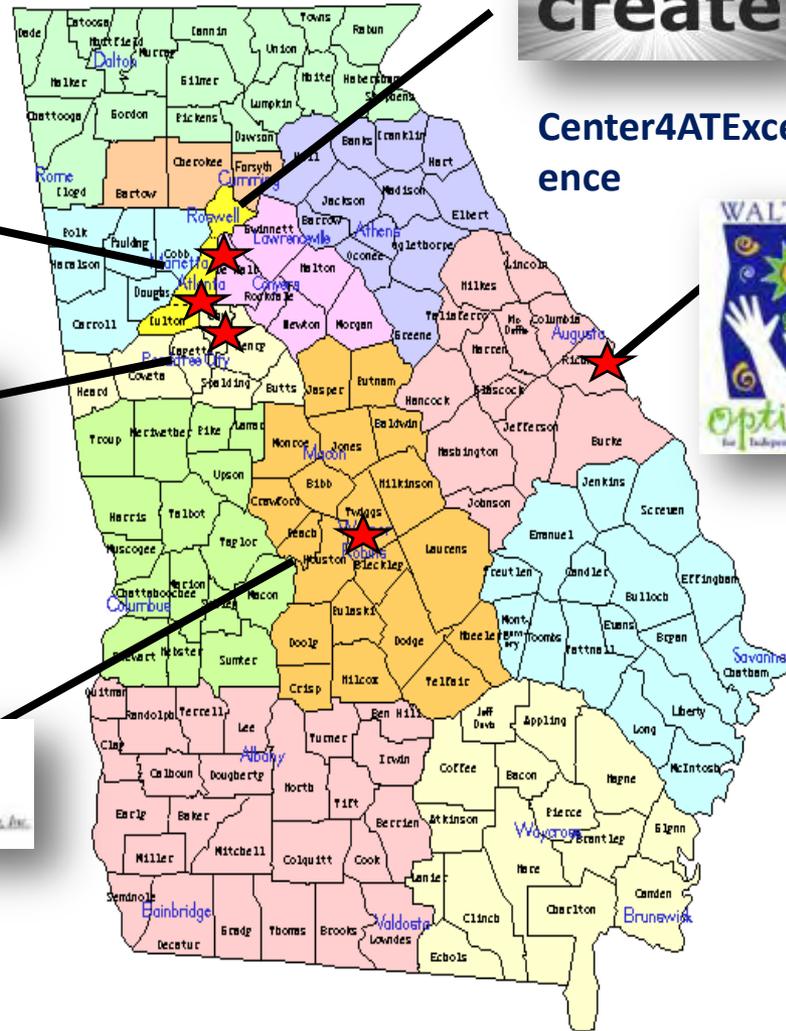
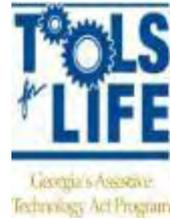
Georgia's Federal AT Act Program

- TFL developed Georgia's Plan for AT
- We serve individuals of all ages & all disabilities in Georgia
 - Over 50,000+ thru various activities throughout the year
- TFL Network
 - Assistive Technology Resource Centers
 - Lending Libraries
 - Training and Demonstrations
 - AT Reuse
 - AT Funding Education/Assistance and Resources
- Online Resources
 - www.gatfl.org - 12,000 unique visitors a month



Tools for Life Network

- AT Lending Library
- AT Evaluations & Training
- AT Demos
- Resource and Assistance
- AT Funding Assistance
- DME Reuse



Center4AT Excellence



Tools for Life AT Demo Lab

- Tablets
- Vision Items
- DME
- Communication
- Games
- Software
- Switches
- Keyboards



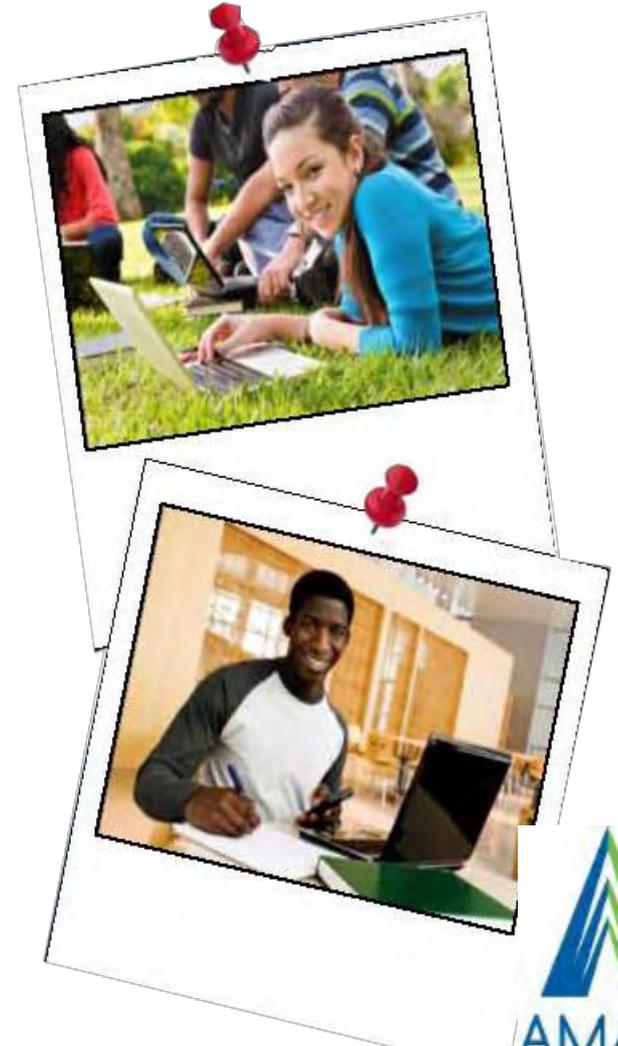
TechMatch/AT Evaluations



- Match the capabilities and needs of an individual to the characteristics of an assistive technology device or service
- Formal written report summarizing aspects of the reports, interaction during the technology consultation and including a personalized and comprehensive list of AT recommendations & resources which provide next steps for AT usage
- Evaluations are fee-based

AMAC Accessibility

AMAC Accessibility is a social change organization on a mission to create affordable services for governmental, private and non-profits organization working with individuals with disabilities. Services include e-text, braille, captioning, assistive technology, office management software and consulting.





Accessibility Made Smart

AMAC creates practical solutions that work, with a focus on utility, ease of use, and high quality.

- **Accessibility Consulting** focuses on organizational accessibility needs with evaluation, technical assistance, customer support, and website accessibility solutions.
- **Braille Services** produces customized projects from both print materials and electronic text including partial books and chapters or graphics only using cutting-edge technology.
- **Captioning Services** makes classrooms, meetings, labs and other audio environments fully accessible for deaf or hard-of-hearing.
- **Professional E-Text Producers** provide high-quality e-text in many formats such as PDF, DOC, DAISY, and HTML.
- **Certified Assistive Technology team** provides on-site and remote assessments, demonstrations, training and technical assistance for education, work, and daily living environments.

For more information, please visit our website at www.amacusg.org



TRAINING

[View Presentations](#)[Request Training](#)

FUNDING

[Resource & Assistance](#)[Dollars & Sense](#)[gTRADE](#)

RESOURCES

[TFL Newsletter](#)

CONTACT US

[Meet the TFL Team](#)[Welcome](#)[AT Services](#)[Try AT](#)[Get AT](#)[AT Guides](#)[Research](#)

Welcome to Tools for Life

Tools for Life, Georgia's Assistive Technology Act Program, is dedicated to increasing awareness and acquisition of assistive technology (AT) devices and services for people of all ages and disabilities so they can live, learn, work and play independently and enjoy greater freedom in communities of their choice.

Tools for Life and the TFL Network work cooperatively together to accomplish our mission through:

- [AT Demonstration](#)
- [AT Evaluations and Assessments](#)
- [AT Funding Options & Education](#)
- [Access to the TFL AT Lending Libraries](#)
- [AT & Durable Medical Equipment Reuse](#)
- [AT Training \(Individual\)](#)
- [AT Training \(Groups\)](#)

Please take our survey to help us gather information that will help better serve the community. The survey can be found at:

[TFL Survey](#)

2013 GATE SEMINAR

2013 Georgia Assistive Technology
in Education (GATE) Seminar
Dec 6, 2013
Atlanta, Georgia

WEBINARS

AUG 14 [The Impact of iPads Upon Student Led IEPs](#)

AUG 29 [Support for Your AT Consideration Process](#)

SEP 10 [Getting and Using Accessible Instructional Materials \(AIMS\): What You Need to Know](#)

[Current Webinar Schedule](#)

[Webinar Archives](#)

TOOLS FOR LIFE APPFINDER



...for Living, Learning, Working, and Playing.

AT ONLINE EXCHANGE

Categories of Acquired Disabilities

Permanent - stable

- Spinal Cord Injuries
- Traumatic Brain Injuries (TBI)
- Cerebrovascular Accidents (CVA/Stroke)

Permanent - degenerative

- Amyotrophic Lateral Sclerosis (ALS)*
- Multiple Sclerosis (MS) *
- Parkinson's Disease
- Alzheimer's Disease
- Huntington's chorea (HD)*
- Acquired Immune Deficiency Syndrome (AIDS)
- Fredrich's Ataxia



What is Huntington's Disease?

- **Huntington's Disease(HD) is a devastating, degenerative brain disorder for which there is, at present, no effective treatment or cure. HD slowly diminishes the affected individual's ability to walk, think, talk and reason.**
- **Eventually, the person with HD becomes totally dependent upon others for his or her care. Huntington's Disease profoundly affects the lives of entire families: emotionally, socially and economically. This hereditary disorder in 1872, HD is now recognized as one of the more common genetic disorders.**
- **More than a quarter of a million Americans have HD (40,000) or are "at risk" of inheriting the disease from an affected parent. HD affects as many people as Hemophilia, Cystic Fibrosis or muscular dystrophy.**
- – info gathered from HDSA



Stages & Symptoms for HD

- **Early Stage - Symptoms of Huntington's Disease may affect cognitive ability or mobility and include depression, mood swings, forgetfulness, clumsiness, involuntary twitching and lack of coordination.**
 - **Mid-Stage - As the disease progresses, concentration and short-term memory diminish and involuntary movements of the head, trunk and limbs increase.** The most common involuntary movement is *chorea**. Walking, speaking and **swallowing abilities deteriorate.**
 - **Late Stage - Eventually the person is unable to care for him or herself. Death follows from complications such as choking, infection or heart failure.**
- – info gathered from HDSA



More info about HD & HOPE!

- **HD typically begins in mid-life, between the ages of 30 and 45, though onset may occur as early as the age of 2. Children who develop the juvenile form of the disease rarely live to adulthood. HD affects males and females equally and crosses all ethnic and racial boundaries. Each child of a person with HD has a 50/50 chance of inheriting the fatal gene. Everyone who carries the gene will develop the disease.**
- **In 1993, the HD gene was isolated and a direct genetic test developed which can accurately determine whether a person carries the HD gene. The test cannot predict when symptoms will begin. However, in the absence of a cure, some individuals "at risk" elect not to take the test.**
- – info gathered from HDSA



What is Multiple Sclerosis (MS)?

- Multiple sclerosis (MS) is a life-long chronic disease diagnosed primarily in young adults. During an MS attack, inflammation occurs in areas of the white matter of the central nervous system (nerve fibers that are the site of MS lesions) in random patches called plaques.
- Physicians use a neurological examination and take a medical history when they suspect MS. Imaging technologies such as MRI, which provides an anatomical picture of lesions, and MRS (magnetic resonance spectroscopy), which yields information about the biochemistry of the brain. No single test unequivocally detects MS. A number of other diseases produce symptoms similar to those seen in MS.
- This and More info found at the MS Society web site.



Symptoms of MS

- Symptoms of MS may be mild or severe and of long duration or short and appear in various combinations. The initial symptom of MS is often blurred or double vision, red-green color distortion, or even blindness in one eye. Most MS patients experience muscle weakness in their extremities and difficulty with coordination and balance. About half of people with MS experience cognitive impairments such as difficulties with concentration, attention, memory, and judgment.
- The cause of MS remains elusive, but most people with MS have a normal life expectancy. The vast majority of MS patients are mildly affected, but in the worst cases, MS can render a person unable to write, speak, or walk.
- This and More info found at the MS Society web site.



More Info about MS & HOPE

- There is as yet no cure for MS.
- Until recently, steroids were the principal medications for MS. While steroids cannot affect the course of MS over time, they can reduce the duration and severity of attacks in some patients.
- The FDA has recently approved new drugs to treat MS. The goals of therapy are threefold: to improve recovery from attacks, to prevent or lessen the number of relapses, and to halt disease progression.
- This and More info found at the MS Society web site.



What is Amyotrophic lateral sclerosis (ALS)

- Amyotrophic lateral sclerosis (ALS) is a fatal, neurodegenerative disease that attacks nerve cells and pathways in the brain and spinal cord. When these cells die, voluntary muscle control and movement dies with them. People with ALS in the later stages of the disease are totally paralyzed, yet in most cases, their minds remain sharp and alert.
- ALS struck Yankee Hall of Famer Lou Gehrig in 1939. He died two years later, but ALS is still commonly known as Lou Gehrig's disease.
- This & more info can be found at www.alsa.org

Home > Help Fight ALS

Share Print

THE ALS ICE BUCKET CHALLENGE

Thank you for the outpouring of support.



WHAT IS ALS?

WHAT WE DO

DONATE



FACT CENTER.....

The ALS Association is incredibly grateful for the outpouring of support from people all over the world. We thank you for participating in the Ice Bucket Challenge and for making donations to support our fight against this disease.

Please visit our [Frequently Asked Questions](#) for important information about our mission, structure and finances. We also want to provide you with information about our plans to put the Ice Bucket Challenge donations to work, supporting our short-term and long-term goals. [Read more here.](#)



More Info about ALS & HOPE

- The facts about ALS are sobering: Every day, an average of **15** people are newly diagnosed with ALS - more than **5,600** people per year. As many as **30,000** Americans may currently be affected by ALS. The average life expectancy of a person with ALS is two to five years from time of diagnosis.
- There is no known cause or cure, but with recent advances in research and improved medical care, many patients are living longer, more productive lives.
- In keeping true to the spirit of the game Gehrig loved best, ALSA seeks to covers *all* the bases - research, patient and community services, public education, and advocacy - in providing help and hope to those facing the disease.
- This & more info can be found at www.alsa.org



Toward Evidence-Based Practice

- Medical students do the wrong things in a clinical setting not because of a deficiency in knowledge, but because they don't make good decisions. They know a lot, but they don't think systematically.

(Arthur Elstein, Ph.D, University of Illinois, presenting a lecture at University of Washington, April 27, 1999).

Staging

- . . . the sequencing of management so that current problems are addressed and future problems anticipated.
- Voice Archiving!

ALS: Stage 1

No Detectable Speech Disorder

. . Diagnosis has been made, but often speakers do not yet exhibit speech symptoms in those with spinal presentation.

ALS: Stage 2

Obvious Speech Disorder with Intelligible Speech

. . both the speaker and listener notice changes in speech - speakers may perceive extra effort needed for speech.

ALS: Stage 3

Reduction in Speech Intelligibility

. . . changes in speaking rate, articulation, and resonance are all evident.

ALS: Stage 4

Natural Speech - Supplemented

. . . natural speech is no longer a functional means of communication in all situations.

ALS: Stage 5

No Functional Speech

. . . speakers with advance bulbar ALS
have lost functional speech due to profound
weakness.

Consider:

“I am effective at conversing with:

1. familiar persons in a quiet environment.
2. strangers in a quiet environment.
3. a familiar person over the phone.
4. young children.
5. a stranger over the phone.
6. while traveling in a car.
7. someone at a distance.
8. someone in a noisy environment.
9. before a group.
10. someone in a long conversation (>1 hour).”



Techniques for Improving Comprehensibility (Speaker)

- Provide listener with context
 - Don't shift topics abruptly
 - Use turn-taking signals
 - Get your listener's attention
 - Use complete sentences
 - Use predictable types of sentences
 - Use predictable wording
 - Rephrase you message
- Yorkston, Beukelman, Strand, & Bell



Techniques for Improving Comprehensibility (Speaker)

- Accompany speech with simple gestures
- Take advantage of situational cues
- Make environment as friendly as possible
- Avoid communication over long distances
- Use alphabet board supplementation
- Have a handy backup system



Techniques for Improving Comprehensibility: (Listener)

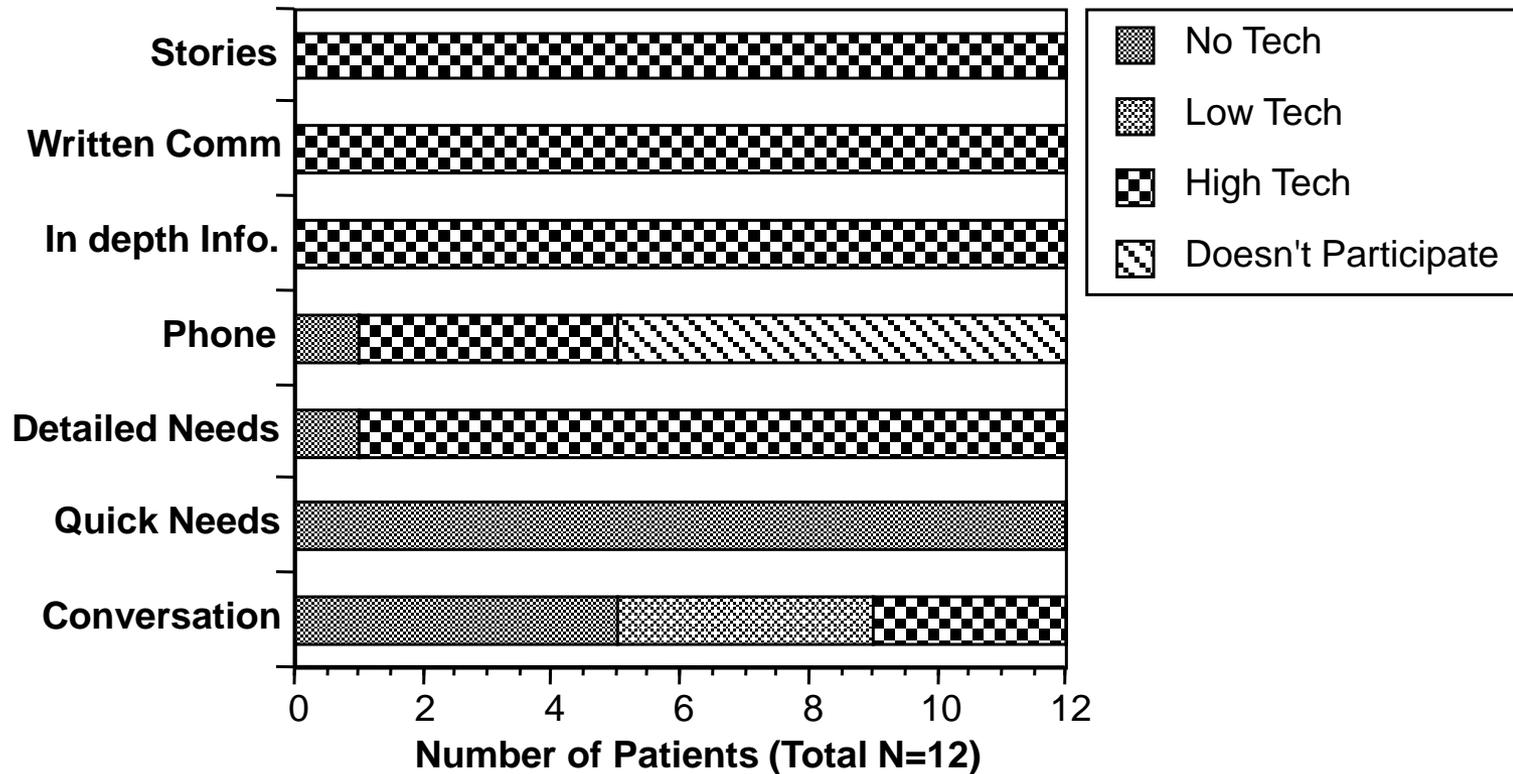
- Know topic of conversation
- Watch for turn-taking signals
- Give your undivided attention
- Choose time and place to talk
- Watch the speaker
- Piecing together the cues
- Make the environment work for you
- Avoid communicating over long distances



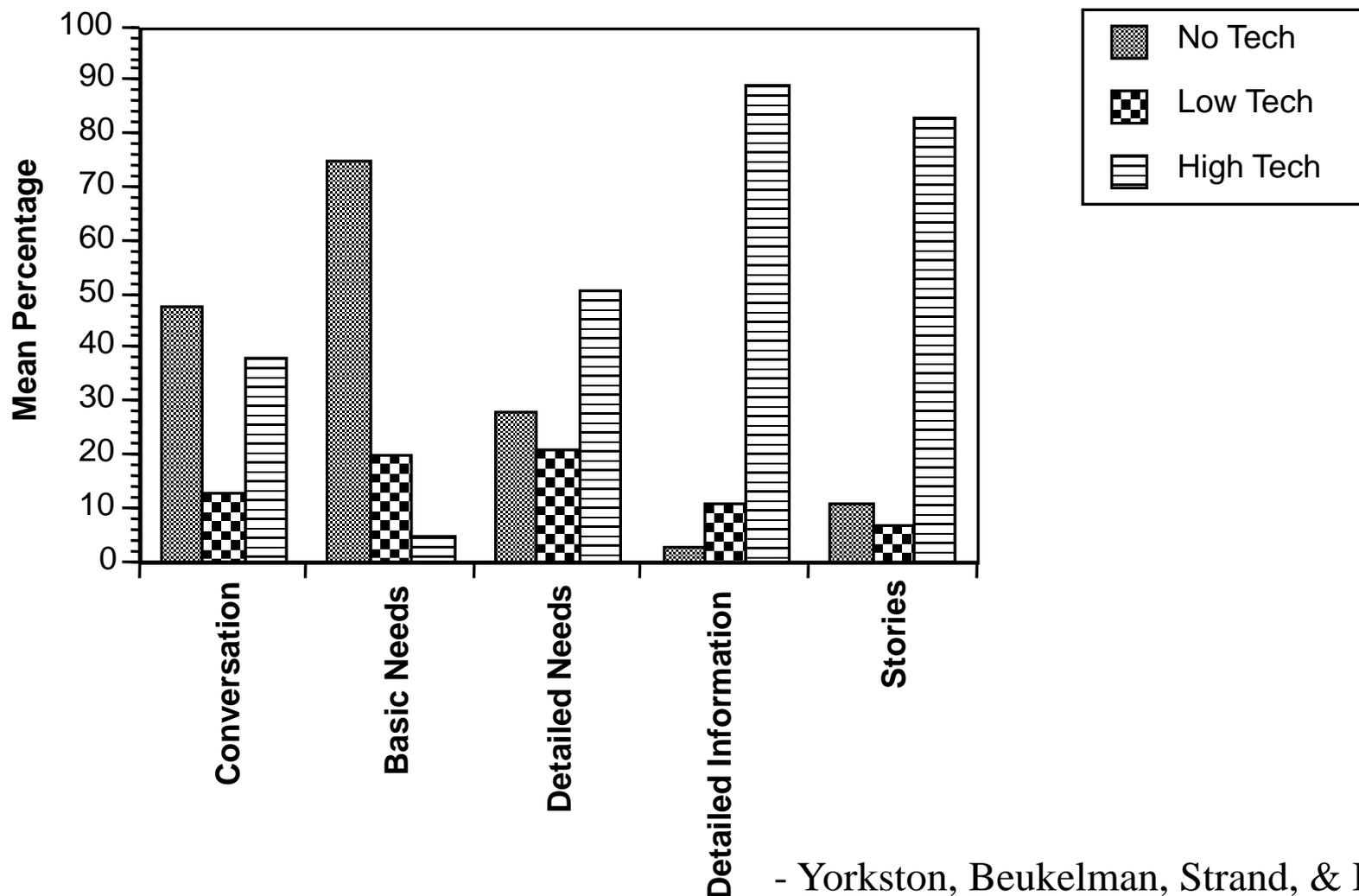
Techniques for Improving Comprehensibility (Listener)

- Make sure
- your hearing is as good as possible
- Decide on and incorporate strategies for resolving communication breakdowns
- Establish some rules of the game
- Facilitate communication with others

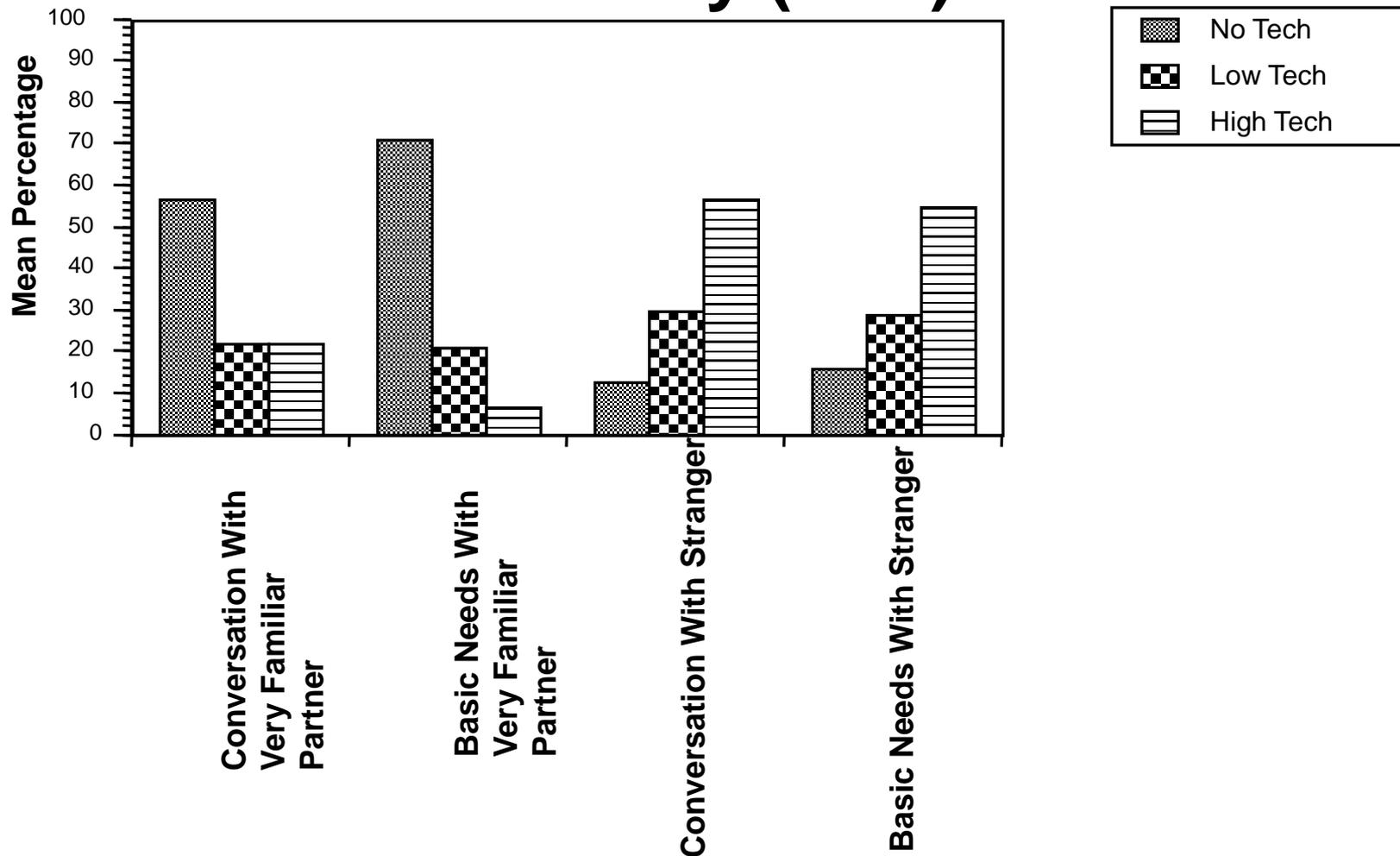
Category of AAC Method(s) Used “Most of the Time” by Communicative Activity



Overall AAC Method Use Breakdown by Communicative Activity (N=6)



Use of AAC Methods by Partner Familiarity (N=6)



Considering Assistive Technology: What Works for the Individual

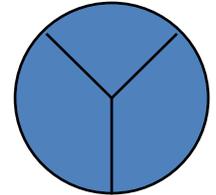




Assistive Technology Matching: A TEAM APPROACH

- The Person with the disAbility
- Circle of Support – Family of Choice
- “Case” Managers
- Speech & Language Pathologist
- Occupational Therapist
- Physical Therapist
- Engineers

Human Activity Technology (HAAT) Model



- Human: represents the skills and abilities of the person with a disability
- Activity: a set of tasks to be performed by the person with a disability
- Context: the setting or social, cultural and physical contexts that surround the environment in which the activity must be completed
- Assistive Technology: devices or strategies used to bridge the gap between the person's abilities and the demands of the environment



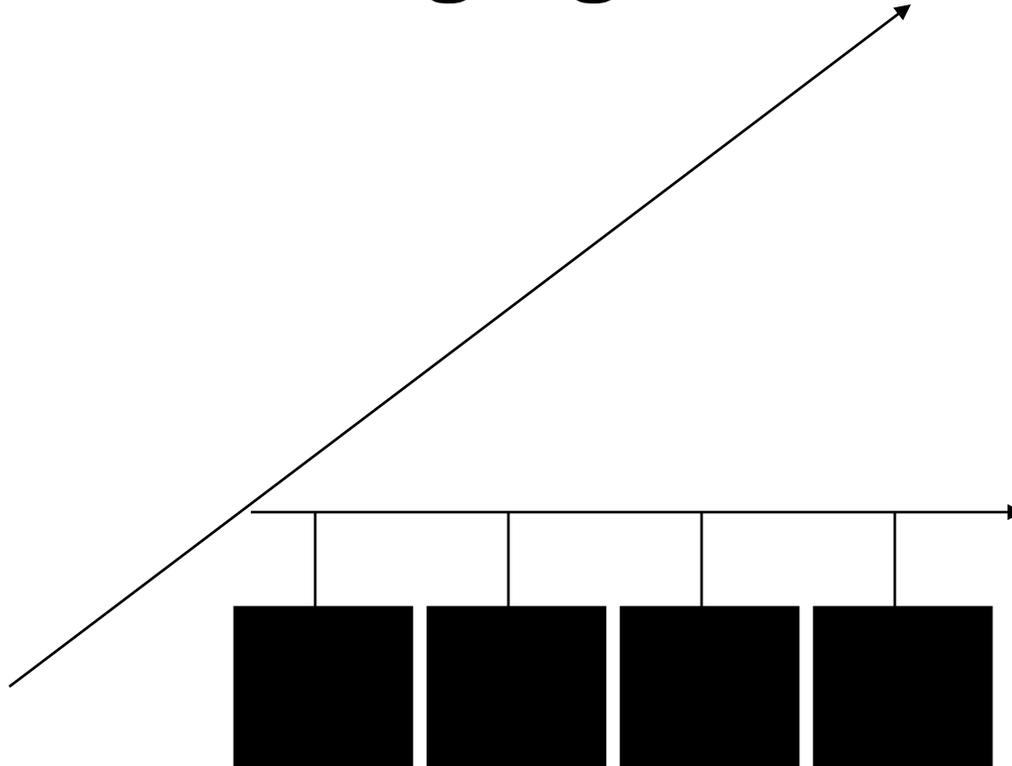
AAC evaluation – Educate the Individual

- Needs and environmental assessment
 - Communication partners
 - Communication locations
 - Communication modes
 - Message needs
- Hangout with intent

4 Purposes of Communication

- Express needs and wants
- Information exchange
- Social closeness
- Social etiquette

Promoting Strengths & Managing Weaknesses





The AAC Evaluation

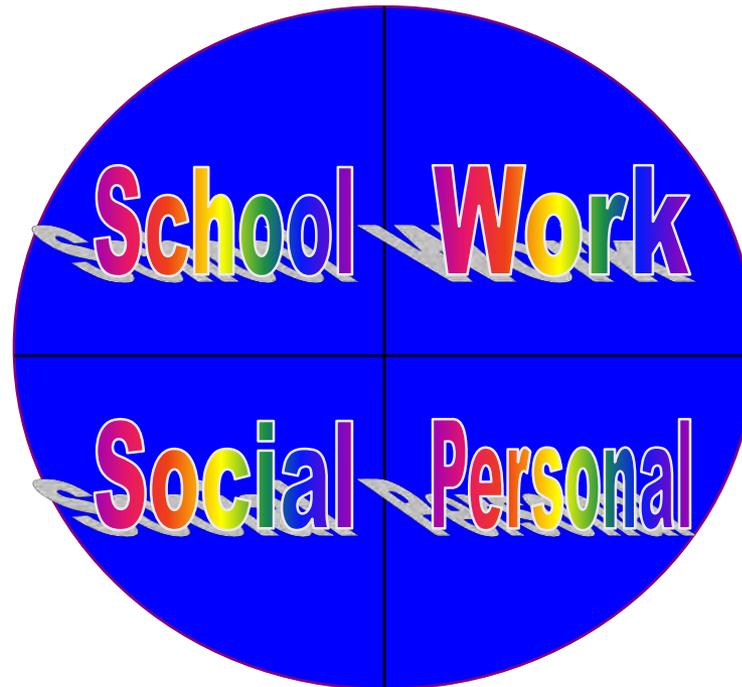
- Language abilities
 - Language comprehension
 - Language production (vocabulary, grammar, morphology)
 - Spelling and writing abilities
 - Mechanics of writing
 - Speech function
- Speech function



Factors influencing AAC strategies

- Word retrieval/semantic breakdowns
- Auditory comprehension difficulty
- Reading comprehension difficulty
- Reduced ideational skills
- Memory impairment
- Spelling/phonological processing impairment

A Holistic Approach





Selection of an AT Device

Depends on an analysis of the following conditions:

- Prior experience or knowledge, and interests;
- The individual's specific strengths, weaknesses;
- The specific device (reliability, ease of operation, technical support, cost)
- Usefulness across settings
- **Usefulness over time as symptoms manifest!**



Most Effective Technological Products

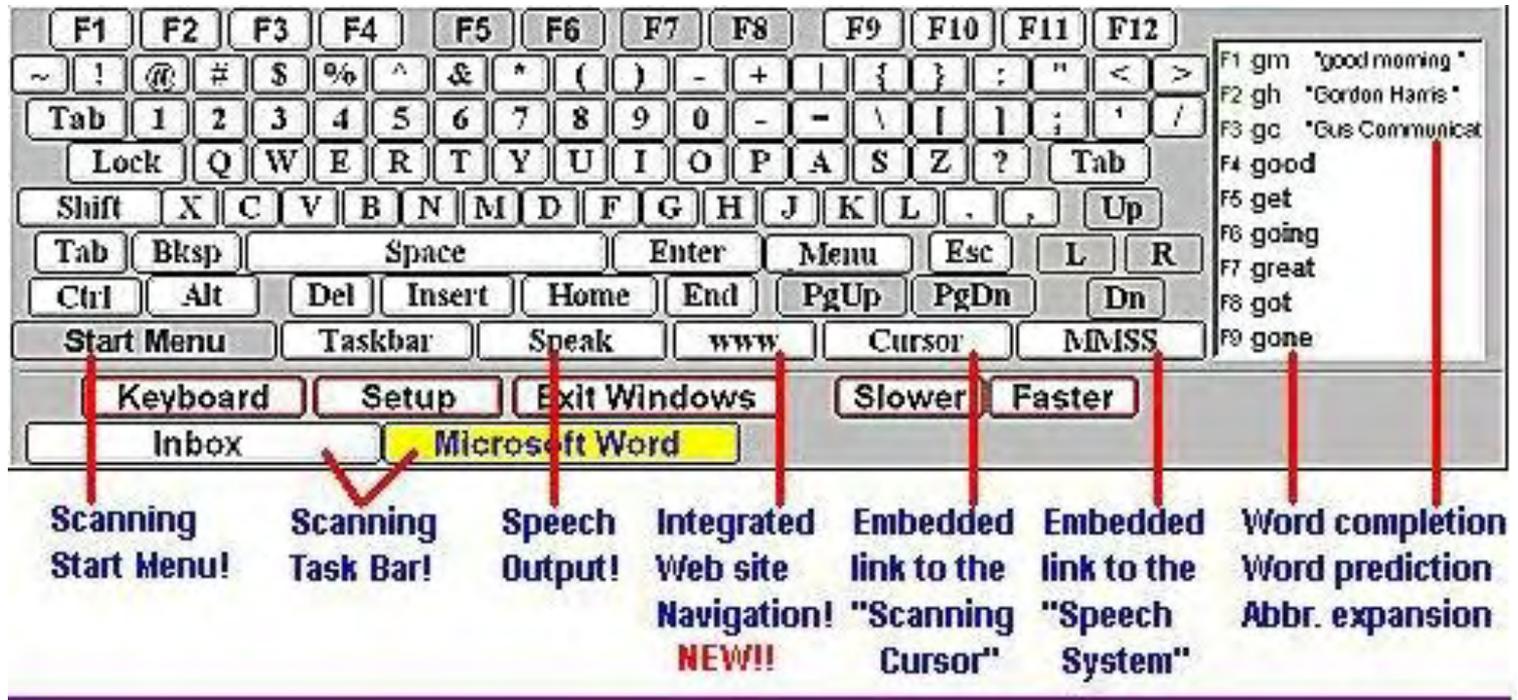
- Able to level out the playing field
- Work in cross-settings
- Portable
- Easy to maintain
- Affordable to replace and/or maintain
- Good and reliable technological support
- Accessible training format



Alphabet + Semantic Topic Board

Small Talk	Food	Church	Health	Schedule
Family	A B C D E F G H I J K L M N O P Q R S T U V W X Y Z		Yes	Wait
Personal			No	Not done
Transportation				Please stop
Trips			Start over	Not finished
Weather			Forget it	
Sports	Will spell words	Please repeat words	Maybe	
Shopping	Point to first letter		Don't know	

On screen keyboards



The image shows a virtual keyboard interface with various accessibility features. A list on the right side shows word predictions for function keys F1 through F9. Red lines connect these function keys to their corresponding predictions. Below the keyboard, several buttons are annotated with red lines pointing to descriptive text.

Function Key	Word Prediction
F1	gm "good morning"
F2	gh "Gordon Harris"
F3	gc "Gus Communicat"
F4	good
F5	get
F6	going
F7	great
F8	got
F9	gone

Button	Description
Keyboard	Scanning Start Menu!
Setup	Scanning Task Bar!
Exit Windows	Speech Output!
www	Integrated Web site Navigation! NEW!!
Cursor	Embedded link to the "Scanning Cursor"
Slower	Embedded link to the "Speech System"
Faster	Embedded link to the "Speech System"
Inbox	Word completion
Microsoft Word	Word prediction Abbr. expansion

Morse Code

- 2 switch option

INTERNATIONAL MORSE CODE
TIME OF DASH EQUALS THREE DOTS

A . —	N — .	1 . — — — —
B — . . .	O — — — —	2 . . — — —
C — . — .	P . — — .	3 . . . — —
D — . .	Q — — . —	4 —
E .	R . — .	5
F . . — .	S . . .	6 —
G — — .	T —	7 — — . . .
H	U . . —	8 — — — . .
I . .	V . . . —	9 — — — — .
J . — — —	W . — —	0 — — — — —
K — . —	X — . . .	
L . — . .	Y — . — —	
M — —	Z — — . .	



BUREAU OF NAVAL PERSONNEL — TRAINING AIDS NAV. PER. 40,638
PATENT PENDING

Rate enhancement techniques

Generating text with these techniques is

- S...L...O...W...

Two techniques to enhance rate of production:

- Word prediction
- Abbreviated expansion

Document2 - Microsoft Word

Tom.wdq - WordQ

Options Words Speech Read

Topic: <none>

File Edit View Insert Format Tools Translate Table Window

WordQ is easy to u

- 1 use
- 2 us
- 3 understand
- 4 uncle
- 5 uncover

Page 1 Sec 1 1/1 At Ln Col 19 REC TRK EXT OVR English (U.S)

The image shows a screenshot of a Microsoft Word window titled 'Document2 - Microsoft Word'. A secondary window titled 'Tom.wdq - WordQ' is overlaid on the right side of the Word window. The WordQ window has a toolbar with icons for 'Options', 'Words', 'Speech', and 'Read', and a dropdown menu for 'Topic' set to '<none>'. In the Word document, the text 'WordQ is easy to u' is visible, with a cursor at the end of the word 'u'. A yellow suggestion box appears below the cursor, listing five options: '1 use', '2 us', '3 understand', '4 uncle', and '5 uncover'. The '1 use' option is highlighted with a blue background. The Word window's ribbon is visible at the top, showing the 'Format' tab with options for font (Normal + 16 pt, Times New Roman, 16) and paragraph alignment. The status bar at the bottom of the Word window shows 'Page 1', 'Sec 1', '1/1', 'At', 'Ln', 'Col 19', and 'English (U.S)'. A small image of a hammer and a metal tool is visible on the left edge of the screen.



Document1 - Microsoft Word

File Edit View Insert Format Tools Translate Table Window Help

Normal + 18 pt Times New Roman 18 B I U

1 2 3 4 5 6 7

WiViK is an on-screen keyboard that enables people with physical disabilities to access an

Page 1 Sec 1 1/1 LP Col 35 REC TRV EXT CWL English (U.S)

WiViK - (USENGLSH_TOP.KBP)

File Customize Select Tools Help

and	an	any	another	anything	anyone														
Esc	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	PSc						
'	1	2	3	4	5	6	7	8	9	0	-	=	←	Ins	Hm	PUp			
↵	q	w	e	r	t	y	u	i	o	p	[]	\	Del	End	PDn			
Caps	a	s	d	f	g	h	j	k	l	;	'	↵	W	🔊	💬				
↕	z	x	c	v	b	n	m	,	.	/	↕	📁	↑	☰					
Ctrl	🇬🇧	Alt	Space										Alt	🇬🇧	☰	Ctrl	←	↓	→



Abbreviated expansions (macros)

- AAC = Augmentative and Alternative Communication
- 3S = 3 spades
- 3C = 3 clubs
- 3H = 3 hearts
- 3D = 3 diamonds

Attention Getting Devices

- Bicycle horns



- Cow Bells



DrumBum.com

- Battery Powered Doorbell



Voice Amplification Options



ChatterVox voice amplifier



Voicette and Mini-Vox
from Luminaud



Headset
Mic



Transdermal
Mic



Collar Mic



Pencil Mic

Microphone
attachments

Keyboard modifications



Keyboard labels



Access



Mouse Devices

- Smaller mouse options can help with control
- May need device that is switch accessible
- Or device that requires no hand or wrist movement & light touch



Tiny Mouse; <http://www.chestercreek.com/TinyMouseOptical.html>; \$15



Cruise Adapted Trackpad
www.infogrip.com; \$400



Big Track; www.infogrip.com; \$80

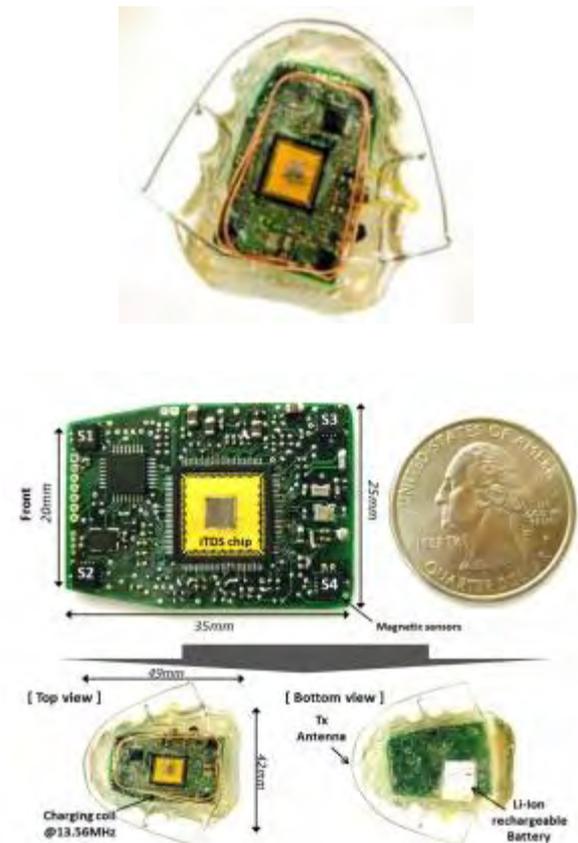
DXT Fingertip Vertical Wireless Mouse

- Ergonomic Relaxed Neutral Wrist and Hand Position
- Precision Grip for Accurate Navigation
 - Small muscles and joints of the fingers have higher processing abilities
- Instantly Switches Between Right and Left Hand
- [Video](#)



Tongue Drive System

- Wireless device that enables people with high-level spinal cord injuries to operate a computer and maneuver an electrically powered wheelchair simply by moving their tongues
- dental retainer embedded with sensors
- detect movement of a tiny magnet attached to the tongue
- Testing with iPods and iPhones
- *GA Tech*
- *Shepherd Center and Rehab Institute of Chicago*





Products / New Products

ASL brings innovative products to our clients! We are here to help each client reach their full potential – our team creates products and designs as a direct result of the needs of those we serve. Our goal has always been independence and equal rights for those we work with....

Driver Control Packages

ASL 138 Extremity Control Joystick



100 Series

Specialty Products & Adaptors

Electronic Switches

ASL 215 Round Proximity Sensor with Mono Port and 24 Volt Connector



200 Series

Specialty Products & Adaptors

Electronic Switches

ASL 215 Round Proximity Sensor 3 Pin



200 Series

Specialty Products & Adaptors

Ergonomics

Writing Solutions:



- “The Penagain takes a novel ergonomic approach to ink pen design. The body of the pen is shaped like a "Y" creating a cradle for the index finger to rest in.”

<http://ergonomics.about.com/od/buyingguide/fr/frpenagain.htm>



- Wide barrel pens can make it easier for some people to write due to their contoured shape. With a Fat Ergonomic Pen there's more surface area to grip which makes it easier to write.

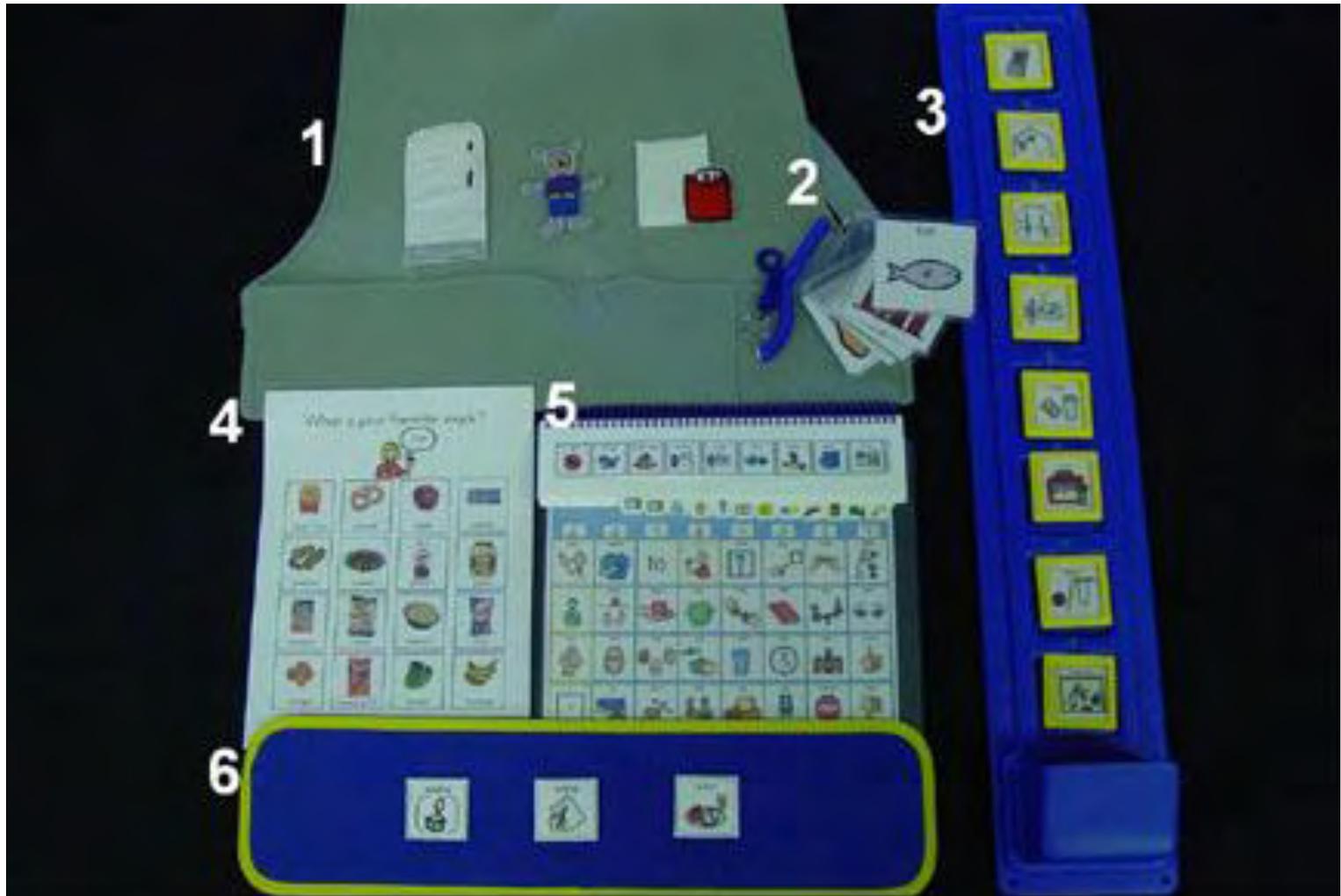


Live Scribe Pen

- Records what it hears and what you write
- Uses specific paper for playback
- Connects to computer by USB for saving
- Tap on note and playback from there
- Jump forward and back in notes
- Dictionary
- Translation Apps
- Purchase Apps online
- [Demo](#)



Light-Tech AAC Options



Mid-Tech AAC Devices





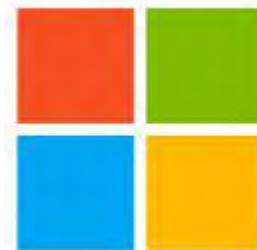
Android & Apple



Which One???



LET'S TAKE A LOOK AT SOME OPTIONS



Microsoft Surface

- Windows 8
- Slim and has a USB port
- Moveable Tiles
- Built-in Accessibility
 - Speech-to-text
 - Narrator
- Thin pressure sensitive cover that doubles as a keyboard
- Starts at \$349



Samsung Galaxy Tab 3



- Android System
- 7, 8, or 10 in screen
- Camera
- Micro card
- Wi-Fi
- USB for computer
- Some built-in accessibility app
 - Download others
- Starts at \$199.99

Apple iPad/ mini iPad

- Multi- touch screen
- New iOS 6
- Millions of apps
- Surf web
- iTunes
- Videos
- Organization
- Accessibility
- Books
- Photos
- Speakers
- New iPad had 5.0 megapixel camera
- Starts at \$499/\$399 and mini \$329





Comparing Tablets

Property	Android	iOS	MS Windows	Amazon Kindle	Barnes and Noble Nook
Number and variety of Tablets	Over 11,000	iPad and iPad mini	Several	Kindle Fire and Fire HD	Nook HD
Operating System	Android (Jelly bean)	ios7 (Sept 18, 2013)	Microsoft Windows 8	Modified version of Android ICS	Modified version of Android- Microsoft bought 2013
Apps	860,815 (AppBrain.com updated 9/13/13)	900,000 with 375,00 optimized for iPad/mini (mobileburn.com updated June 2013)	104,917 (winbeta.org updated July 4, 2013)	50,000 in Amazon App store also shop in Google Play Store (theverge.com updated August 2013)	10,000 in Barnes and Noble and have access to Google Play store (barnesandnoble.com updated August 2013)
Software Updates	As it becomes available on Google	Apple releases updates	MS releases updates	Amazon releases updates	Barnes and Noble releases updates
Interface	As designed by manufacturer	Icons and widgets designed by Apple	Metro style designed by Microsoft	Modified version of regular Android	Modified version of regular Android

Layout of the iPad



IOS 7 is here: A whole new iPhone experience



By Adrian Covert @CNNMoneyTech September 18, 2013: 8:31 AM ET

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Most Popular

- No thanks, Obamacare. I'll pay the penalty
- BlackBerry slashes staff, warns of \$1 billion loss
- Dow down nearly 200 points as uncertainty returns
- iPhone 5C doesn't wow Apple faithful
- iPhone owners have problems installing iOS 7

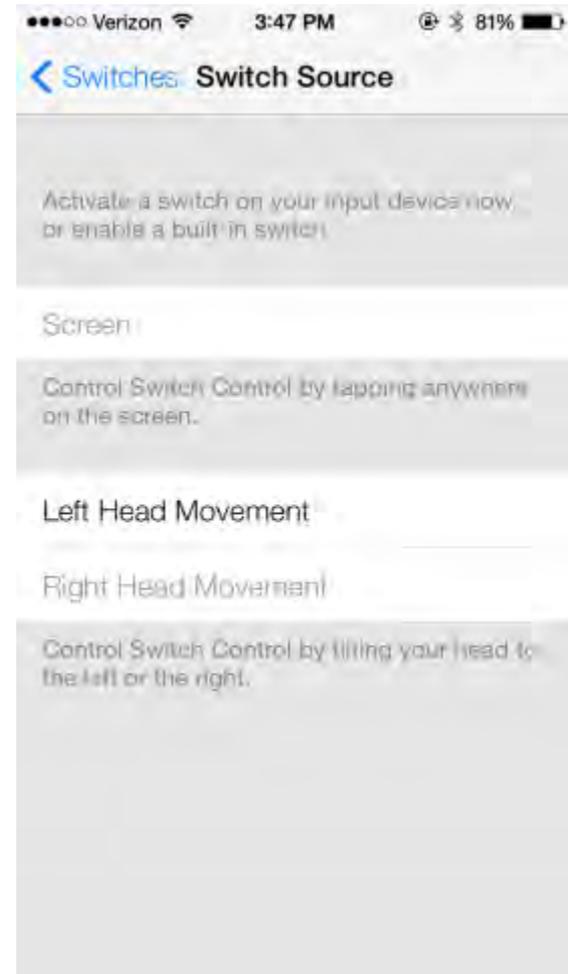
IBM FOR MIDSIZE BUSINESS

IBM Business Analytics Software

The Cincinnati Zoo started small with business analytics. See what it can do for you ▶

New iOS 7 Features

- September 2013
- Automatically turn on captioning and subtitles
- Switch Source under Accessibility
 - Allows user to control devices by head movement





VoiceOver

- Standard feature on iPhones, iPads, and iTouches
 - World's first gesture-based screen reader
 - **DOES NOT WORK WITH ALL APPS**
 - Does not work with many eBooks or textbooks
 - Works with built-in apps
 - Built-in voices that speak 36 languages
- Adjustable speaking rate
 - Echoes each character as you touch it when typing or can speak completed word instead.
 - Speak Auto-text
 - Has the rotor
 - Works with all built-in applications

Assistive Touch

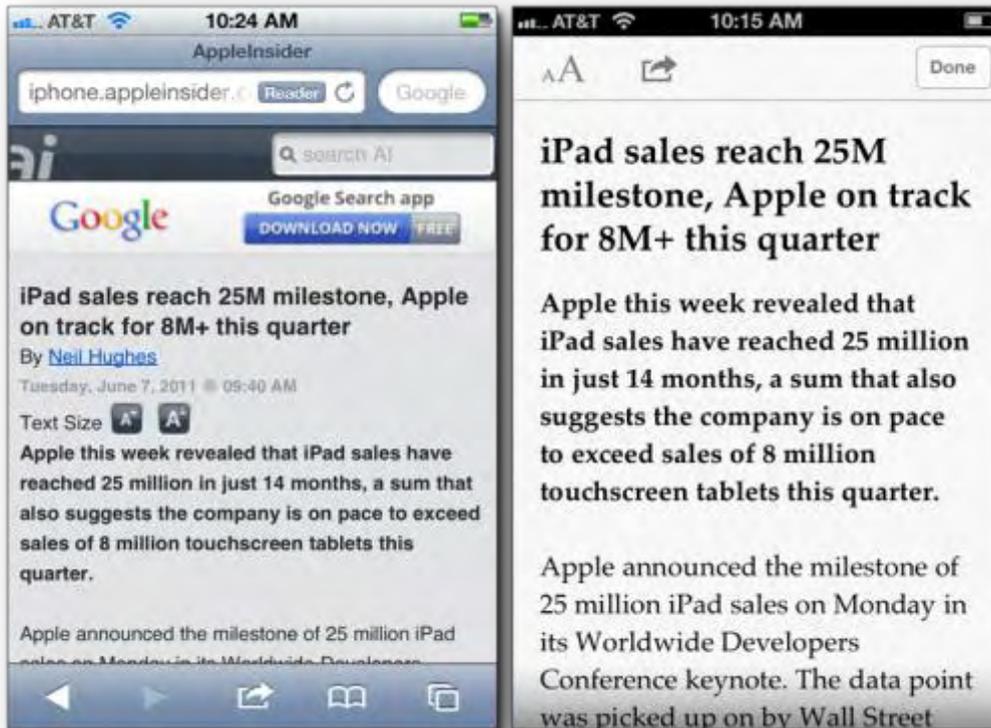
- Lets you enter Multi-Touch gestures using one finger or stylus
 - Create custom gestures
- Supports the use of adaptive input devices
 - Headsets and switches
- Change Tracking Speed



Creating Keyboard Shortcuts

- Go to General => Keyboard and make sure Shortcut is turned on
- Go to Add New Shortcut
- Put in your Phrase
- Create Short Cut
- Example:
 - Phrase : Martha E. Rust, MS CRC ATP
 - Shortcut is: MER
 - So when MER is typed it will put in the above Phrase
 - OMW => On My Way!

Reader for Websites



- Read articles and web pages without distractions
- Clutter disappears
- Add link into Reading List and finish later

iOS 6 NEW: Guided Access

- Helps remain on task and focus
- Limit to one app / turn off home button
- Restrict touch input on certain areas of the screen



Surface



- 2 types
 - RT
 - PRO
- RT
 - Cannot download software
 - Does not support digital pen
 - Built in MS Office
 - Word, Powerpoint, Excel
- Pro
 - 30 day trial of MS Office
 - Ability to download software
- Open 3 Windows
- Tiles
 - Start screen
- Charms
 - Right hand side

Layout of Surface

- Power Button
- Camera
- Speaker
- Micro USB
- USB
- Charger
- On Left Side
 - Speaker
 - Headphone Jack
 - Volume control



Accessibility of Surface

- Uses Windows 8
 - Ease of Access
- Narrator
- Magnifier
- On-Screen Keyboard
- Windows Speech Recognition



TFL AppFinder



Search by:

- ✓ **App Name**
- ✓ **Categories**
 - Book
 - Education
 - Environmental Adaptations
 - Hearing
 - Cognition, Learning, Developmental
 - Navigation
 - Personal Care and Safety
 - Productivity
 - Communication
 - Therapeutic Aids
 - Vision



ProloQuo2Go

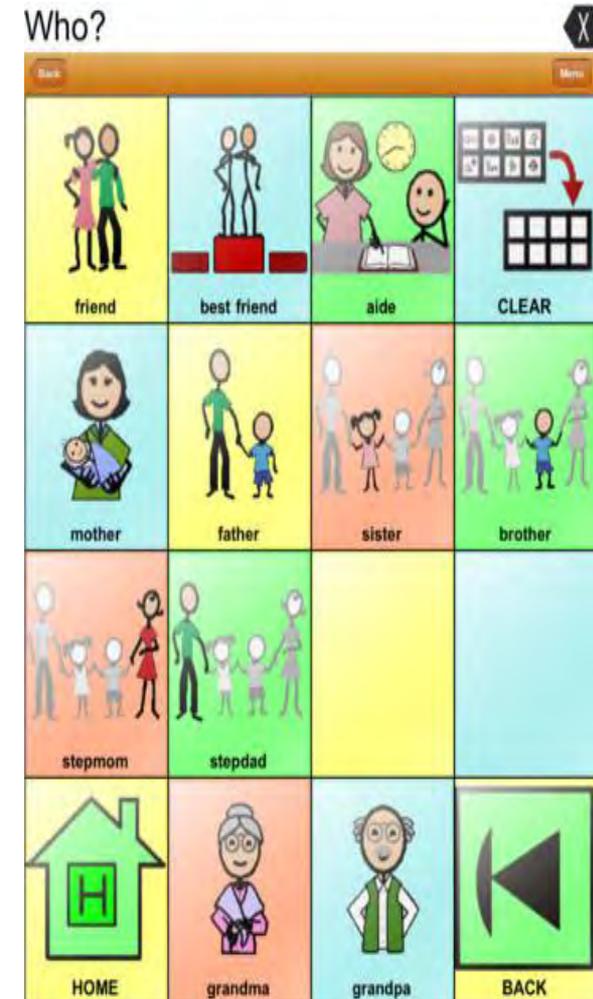


- 24 location max
- SymbolStix (default)
- Scrolling possible
- Side navigation remain constant
- Intuitive editing and creating
- Keyboard with picture/word prediction
- Price now \$79.99

TouchChat



- 24 location max
- SymbolStix (default)
- Scrolling possible
- Side navigation remain constant
- Intuitive editing and creating
- Keyboard with picture/word prediction
- Price now \$79.99





Tobii SonoFlex



- Available for the iPhone, iPad, Android, Kindle Fire, PCs and SGDs
- Combines core, quick-hits & situational vocab.
- 50 pre-made context packages
- Intuitive programming
- Structure w/ flexibility
- Full App: \$99.99
- Lite vers.: Free

Tap to Talk

- For emergent communicators
- For Android, Kindle & Nook
- Library of 2K symbols
- Player: Free (comes w/ sample albums)
- Designer: \$99/yr or \$179 lifetime
- Create/ modify w/ Designer



Speak it!



- Copy emails, documents, web pages, PDF files, and more; paste them into Speak it!, and have the text spoken back to you.
- Email text to speech files
- Make announcements over PA system
- Endless phrases and possible uses
- \$1.99

Apps for Relaxation



Breathe2Relax



- Portable stress management tool
- Detailed information on the effects of stress on the body
- Instructions and practice exercises to learn the stress management skill called diaphragmatic breathing



Pandora



- Free internet radio
- Create custom stations based on genre, song, artist



iZen Garden



- Choose from 100s of objects, plants and creatures to place in your garden
- Rake the sand and share your creations
- Helps you to center your mind, relax your psyche and relieve your stress

VGo Telepresence Robot

- Enables a person to replicate themselves in a distant location and have the freedom to move around as if they were physically there
- Reduces travel costs
- School
- Hospital
- Work from home



Talk with Us!

What are Your Favorite Apps?



**Our Question to You:
What have You Learned today?**



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Disclaimer

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