Tools within Windows 7, Windows 8 and other software

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Introduction

- Worked in the disability field for over 20 years in various non-profits in Cleveland
- Much of that time has been with vocational programs working with adults seeking employment
- Focused on computer-related Assistive Technology for 15 years



• Became self-employed four years ago as Better Abilities.

Better Abilities

Accessibility in the Operating System (OS)

• Microsoft Windows – Ease of Access



• Macintosh (Apple) - Accessibility



I'm focusing on Windows, but similar items should be found in Macintosh.

Computer	OS ≠	Mohile	OS
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iPhone, iPad, Android, and all of their Apps are a different presentation.



Windows Phone? I just haven't worked with enough of them to know.

Computer Presents Challenges



History



- Early 1980's Trace Center created StickyKeys, FilterKeys, MouseKeys
- Late 1980's Dragon Dictate, ZoomText, JAWS created as third-party software
- Mid 1990's both Microsoft and Apple begin incorporating accessibility features within their operating systems





How do you use a computer?	
Input Keyboard – enter text, navigate through arrow and tab keys Mouse – click a button, move the pointer to an insert point, drag	
- Wouse – cick a succoi, move the pointer to anniser point, drag	
Charles the first	
E Hanney Control	
How do you use a computer?	
Output Monitor – Lets you see information presented	
Speakers – Lets you hear information and sounds	
/SLS	
Apologies for being basic,	
but we always return to the basics	
"Mike, come help. She can't use the mouse."	

She can't use the mouse because she can't SEE!



How to find these adaptations

Whether it's Windows 7 or Windows 8, the keyboard shortcut is the same.

Press the Windows Key
Type your search term



Windows 7 Search



Windows 8 Search



Keyboard Problems

- Can't physically use write or use the keyboard
- Can't see the keyboard
- Can't understand the keyboard

 Can use keyboard but not well, too slow (30wpm a good benchmark)



Speech Recognition

- Both Windows and Macintosh have their own speech recognition
- Dragon NaturallySpeaking still considered the best





On-Screen Keyboard

- Have good mouse skills
- Be able to see the screen



Ease of Access Center - Keyboard

- MouseKeys
- StickyKeys
- ToggleKeys
- FilterKeys



• Underline Keyboard Shortcuts and Access Keys

Other Keyboard Layouts

- need add ZoomCap stickers to keyboard

Dvorak most popular alternative layout.

Found under Ease of Access – Keyboard and also under Language Settings

Dvorak also has one-handed layouts



Third-Party Keyboards, Touch Dots



Mouse Problems?

- Can't physically move the mouse
- Can't physically click the mouse
- Can't see the mouse pointer



Keyboard Shortcuts / Navigation

To Do This	Do This	
Move from one window to another window	Press ⊞+Tab or Alt+Tab	
Maximize your current window	Press I⊞+Up Arrow	
Minimize your current window	Press ⊞+Down Arrow	
Send current window to screen's left	Press ⊞+Left Arrow	
Send current window to screen's right	Press ⊞+Right Arrow	
Show or hide the Desktop	Press IB+D	
Access your laptop's main settings	Press IB+X	
Launch Windows Explorer	Press ##E	
Lock your PC	Press IB+L	

Ease of Access – Mouse

- Mouse Pointer size & color
- MouseKeys
- Settings
 - Flip Mouse Buttons
 Speed

 - Pointer Trails
 - Control-Key "Ping"



Third-Party Mice / Trackballs





Which tasks require keyboard vs. mouse

- Keyboard report-writing, data entry
- Mouse telephone surveys, internet tasks





Seeing or vision problems?	
Bigger Monitor?	
The provided to statute of the manufacture.	
Changing Display Settings / Color & Transparency	
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and the second	

Ease of Access - Display

- NarratorMagnifier
- Magnifier
 Focus box

	Make the computer easier to see		- 1	-
⊕ ⊕ + † 🚳 + Control Par	nel > Ease of Access > Ease of Access Center > Make the computer easier to use	v 6	Search Control Panel	ρ
	Make the computer easier to see When you select these teels, they will externelically start each time you sign in			Î
	Figh Contrast			
	Choose a High Contract theme			
	SPT unn on or off High Contract when Jeft ALT + Jeft SHET + PRINT SCREEN is pressed			
	When using keyloand shortcuts to turn Ease of Access settings are			
	☑ Display a warning message when turning a setting on			
	Make a sound when turning a setting on or off			
	fear text and descriptions read aloud			
	Tyrn on Nerrator			
	Narrator reads aloud any test on the screen. You will need speakers.			
	☐ Turn on Audio Description			
	Hear descriptions of what's happening in videos (when available).			
	falsethings on the screen larger			
	Change the sign of test and icons			
	☐ Turn on Maggifler			
	Magnifier zooms in anywhere on the screen, and makes everything in that area larger. You can re	ove		

Hearing Trouble? Only Sound Sentry



Windows 10 – Closed Captioning



Windows vs. Third-Part	У	
I will look first at Windows OS adapta		
	especially if disability is mild.	
Most third-party software much bett • Dragon NaturallySpeaking	ter for more significant adaptations:	
• JAWS • ZoomText	JAWS' forWindows'	
DRAGON NATURALIY SPEAKING		
TATIONALE SI ENGINO		
00 4 11111 1111	10 .	
OS Accessibility = Unive	ersai Design	
Eventually, third-party software wor included within the Windows Opera	n't be needed because it will all be iting System.	
iPhone already accessible to people	who are totally blind using ONLY	
iOS software like VoiceOver.	The same of the sa	
Questions?		

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