

## App Smackdown for Curriculum and School Access

Jan Rogers, MS, OTR/L, ATP  
Heather Bridgman, MS, ATP  
Mary Jo Wendling, OTR/L



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[https://www.ocali.org/project/document\\_archive](https://www.ocali.org/project/document_archive)



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### Learning Objectives

1. Identify apps and/or exts to support curriculum access and school participation
2. Identify features of the various apps/exts presented that could be matched to student needs
3. Develop a better understanding of how to select apps/exts to meet the needs of students with disabilities
4. Understand the difference between educational, therapeutic and assistive technologies



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General AT Assessment Process




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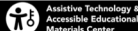
AT Services in IDEA  
[IDEA 2004 - Definition of AT Service](#)

Regulations: Part 300 / A / 300.6

**Sec. 300.6 Assistive technology service.**

Assistive technology service means any service that directly assists a child with a disability in the selection, acquisition, or use of an assistive technology device. The term includes--

(a) The evaluation of the needs of a child with a disability, including a functional evaluation of the child in the child's customary environment;




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SETT Framework


-  Student
-  Environment
-  Tasks
-  Tools

[www.joyzabala.com](http://www.joyzabala.com)

HAAT



Cook & Hussey




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### Steps of the AT Assessment Process

1. Initiate the AT decision-making process
2. Identify the team
3. Gather information: Identify student needs and abilities, environments and tasks



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### Steps of the AT Assessment Process (Cont.)

4. Solution generation & selection: Feature-matching
5. Equipment trials & acquisition
6. Implementation & ongoing assessment



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### Assistive Technology Internet Modules (ATIM)

- AT Assessment Process in the School Environment
- AT Assessment Tools
- An Overview of Using the WATI Assessment Process

<http://atinternetmodules.org>



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### WATI Updated Documents

<http://www.wati.org/free-publications/assistive-technology-consideration-to-assessment/>

The screenshot shows the WATI website with a navigation menu (HOME, CLASSROOM MATERIALS, PUBLICATIONS, RESOURCES, ABOUT, CONTACT) and a search bar. The main content area is titled 'Assistive Technology Consideration to Assessment' and features several download buttons for documents: 'Assistive Technology Decision Making Guide', 'Assistive Technology That Use Summary', 'Assistive Technology That Use Summary', 'AT Certificates', 'Classroom Observation Guide', 'Consideration Guide Form', 'Procedure Guide for Assessment', and 'Procedure Guide for Consideration'. The footer includes the WATI logo and the text 'Assistive Technology & Accessible Educational Materials Center'.

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### Device Specific AT Assessment Resources

This block contains a large orange rectangular area intended for 'Device Specific AT Assessment Resources'. The footer features the WATI logo and the text 'Assistive Technology & Accessible Educational Materials Center'.

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### Assistive Technology Internet Modules (ATIM)

- Computer Access - WATI - Part 1
- Computer Access - WATI - Part 2
- Mobile Device Access - WATI - Part 1
- Mobile Device Access - WATI - Part 2

ASSISTIVE TECHNOLOGY INTERNET MODULES  
<http://atinternetmodules.org>

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Feature-Ma



Student Inventory for Technology Supports  
[www.atfeaturematching.org](http://www.atfeaturematching.org)




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SIFTS

**ADD A STUDENT**

Student 6

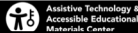
**CREATE PROFILE**

- Select a Domain
- Communication
- Writing
- Organization and Planning
- Physical Access: Computers
- Behavior Domain
- Physical Access: Mobile Devices

**Student Dashboard**

Student 6	Student 5
Added: December 18, 2017	Added: April 28, 2016
Profiles: 1	Profiles: 6
<a href="#">View History</a>	<a href="#">View History</a>
<a href="#">Archive this Student</a>	<a href="#">Archive this Student</a>

[www.atfeaturematching.org](http://www.atfeaturematching.org)




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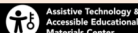
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Device Selection Resources




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## Devices & Operating Systems



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### Apple iOS

- Created and developed by Apple Inc. in 2007
- Powers iPhone, iPad, and iPod Touch
- 2nd most popular mobile OS globally after Android
- 2.2 million iOS apps, 1 million native for iPads
- Known for extensive built in accessibility features



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### Android

- Developed by Google, modified Linux Kernel
- Primarily for touchscreen mobile devices
- Variants for game consoles, digital cameras, PCs and other electronics
- Open source so OS features may be slightly different in various devices



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### Chrome OS

- Google designed based on the Linux Kernel.
- Google Chrome web browser is the principal user interface.
- Primarily supports web applications
- Connection to other devices via cloud or in some cases Bluetooth (e.g. Keyboards, Mice, Speakers, Headphones, Headsets (audio only)).
- File sharing through cloud only




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### SNOW: Features to Consider for Mobile Devices

<https://snow.drc.ocadu.ca/node/190>

HOME ABOUT CONTACT SITE MAP

SEARCH Follow us on

**SNOW Resources**

- Technology for Accessibility
- Technology for Teaching
- Technology for Learning
- Assistive Devices
- SNOW Workshops
- Accessibility for Educators with Disabilities Act (ODA)
- Personal Assistive
- Content
- Contact Us
- About Us
- Our Partners
- File Accessibility

**Features to Consider**

View Single

Mobile Display

Mobile Input

Mobile Output

Mobile Storage

Mobile Network and Software Features

Mobile Cost

Mobile Usability

Mobile Support

Mobile Security

Mobile Performance




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### iPad Feature Chart

<http://www.qiat.org/docs/resourcebank/QIAT-iPad%20FeaturesChart-9-7-12.pdf>

For iPad 2 using iOS 5

**iPad Features**  
Compiled by Gary Brewer and Michelle Lakota  
September 7, 2013

The following list of iPad Features was developed with contributions from the Quality Indicators for Assistive Technology (QIAT) Community's members and list. Thanks to all who contributed for your timely interest and high quality information.

Feature Category	Description
<b>Physical Features</b>	
• Integrated technologies (speakers, headphones jack, microphone)	• Easy to learn/understand
• No or no-need precision	• No previous technology experience needed
• Lightweight/ Portable	• One Touch Operation
• Compact	• Few steps to operate
• Long battery life (e.g. 6-8 hours)	• Multiple uses
• Touch safe	• Ability to multi-task
• Affordable (less than \$1000)	• Easy replacement between tasks
• Built to specifications	• Easy to start/stop/restart - instant on
<b>Social Aspects</b>	
• Generally available to the public	• Generally access for information via well established IP
• Widely used and meeting	• Bluetooth capabilities
• Lack of stigma	• Synchronization options with other devices
• Available in different languages	• R. cloud
• Built in alarms / reminders	• Easy to use personal restrictions (Internet, downloading, printing, content rating, etc)
• Options for wireless communication with visual display	• Easy sharing of email, text messages, internet content, facebook, etc
	• Easy replacement (e.g. screen, screen protector)
<b>Usability/Disabilities</b>	
• Difficult to create extensive or complicated files (e.g. term papers, spread sheets)	
• Can be fragile	
• Limited technical support for apps	
• Less customization	
• Not qualified for insurance funding	
• Can only print to printers that allow wireless printing	
• Limited memory for large files	
• No USB or memory card slot	




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App/Ext Assessment Resources




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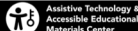
**Assistive Technology Internet Modules (ATIM)**

Using the WATI AT Assessment Process (a few examples)

- Reading
- Writing
- Organization
- Math



<http://atinternetmodules.org>




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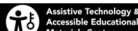
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**Feature Matching**



Student Inventory for Technology Supports  
[www.atfeaturematching.org](http://www.atfeaturematching.org)




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App/Ext Selection Resources

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What's the difference between plugins, extensions, and apps?

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### Plugins

- provide some additional functionality to a web browser
- phased out due to development of apps and extensions
- function of some plugins being incorporated into the settings of browsers.




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### Extensions

- Little or no user interface (UI) component.
- Extends the functionality of browsers and the websites
  - Adds a new button to the address bar (e.g. ever-present currency converter, pinterest button)
  - Adds buttons on any web page viewed within the browser (e.g. "Mail It" or "BrowseAloud")




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### Apps

- work within a browser or stand alone within an operating system (Chrome vs Apple & Android)
- typically have a dedicated user interface and, rich user interaction
- more rich and interactive than a website
- less cumbersome than a desktop application on a computer operating system but less feature rich




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Assistive Technology - Accessible Educational Materials - Professional Development

## App Search Tools

<https://ataem.org/at-tools>

AT Tools (Apps, Software, Hardware)

AT Selection

Once the feature matching process has concluded (see AT Assessment), a list of potential features of assistive technology (AT) devices is generated. These links provide information on AT tools for learn as they match features to specific devices that can be installed.

<p><b>LINK</b></p> <p><b>Abilities</b></p> <p>Provides objective information about AT and rehabilitation equipment including a database of 40,000 products with descriptions and contact information.</p>	<p><b>LINK</b></p> <p><b>TechMatrix</b></p> <p>Search over 400 AT products by content area, grade level, IDEA disability category, instructional support categories, or keywords.</p>	<p><b>LEARN</b></p> <p><b>Apps Selection Tools</b></p> <p>A collection of apps selection tools to help determine appropriate apps once the features have been identified.</p>
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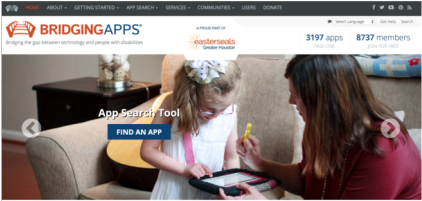
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## Bridging Apps



BRIDGINGAPPS

3197 apps 8737 members

App Search Tool

FIND AN APP

We believe that it is more important to focus on the person who will be using the technology, rather than the device itself.

<http://bridgingapps.org/>

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## Understood Tech Finder



Understood

Tech Finder

Expert-approved apps & games for your child

Find Apps

Search

<https://www.understood.org/en/tools/tech-finder>

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## Smart Apps for Kids

<http://www.smartappsforkids.com>

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## Apps for Children with Special Needs

1000 Recommended Apps for children with special needs.

<http://a4cwsn.com/>

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## iEvaluate App Rubric

<https://static.squarespace.com/static/50eca855e4b0939ae8bb12d9/50ecb58ee4b0b16f176a9e7d/50ecb593e4b0b16f176aa97b/1330388174777/JeanetteVanHoutenRubric.pdf>

Name of App	Content / Type	Age/Grade Level	Language	Platform	Cost	Engagement	Accessibility	Alternative Access

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**Quick Feature Matching Checklist**

<https://proactivespeech.wordpress.com/2012/07/24/quick-feature-matching-checklist-for-ipad-apps/>

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**App/Ext Smackdown**

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<http://bit.ly/AppSmackSPS2018>

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### Rules of Engagement

- Showcase no more than 3 apps/extends at a time
- Provide name of app/extend
- Describe the app/extend and features
- Describe the app/extend use (AT, educational, therapeutic)




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### Rules of Engagement

- Indicate who benefits from the app/extend
- Provide the app/extend cost
- Provide app/extend link
- Indicate the app/extend platform/s




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### App/Extend Use - Educational

- Technology used to **support learning and teaching.**
- Sometimes educational technology can be assistive technology if it is needed by a student to perform in the education setting




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### App/Ext Use - Therapeutic

- Used to develop **the skills** needed to improve, increase, maintain, the functional capabilities of an individual



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### App/Ext Use - Assistive Technology

- Used to increase, maintain, or improve the **functional capabilities** of an individual.
- Often times provides access during skill development.
- Is defined by need.



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Let the fun begin!!!!



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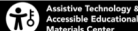
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Thank you for learning with the  
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