Hello, my name is John Paul Harris and I am the Wyoming AIM Clearinghouse project coordinator at the Wyoming Institute for Disabilities. I work with educators and individuals across the state of Wyoming to enhance the accessibility of devices, services, and education curriculum. Today, we are going to talk about the iPad, accessibility features of the iPad, and apps.

Let's get started.

The overview for today is:

1. iPad built-in accessibility features available for free!
   a. Zoom
   b. Large text
   c. Inverted colors
   d. VoiceOver (text-to-speech)
   e. Assistive Touch
2. 10 Apps for AIM and accessibility

Learning outcomes. When you finish this module I want you to be able to:

1. Identify the available built-in accessibility features of the iPad.
2. Identify useful features of apps and then be able to match to an AIM type.
3. Be able to locate additional resources.

iPad built-in accessibility features. There is a lot you can do with the iPad out-of-the-box to support accessible instructional materials. To find these useful features, we will go to the Accessibility menu.

DEMO

I will select the Settings icon from the iPad home screen and then select the General button from the left-hand list. Now, on the right-hand side of the screen select the Accessibility button.

First, we will turn on Zoom. Select the Zoom setting from the right-side menu. Then, swipe to turn on Zoom.

You will notice the Zoom tool has magnified the top-right of my screen and the rest of the screen is out-of-view. I can move around the screen by dragging three fingers. I can also double-tap three fingers and drag to change zoom.

Notice the instructions below the Zoom setting:

• Double-tap three fingers to zoom
Let’s go back to the Accessibility settings page and turn on Large Text. I will click the Accessibility back button at the top of the page. Now, I will select the Large Text button. I am going to set the font size to 40 pt.

The Zoom and Large Text features are a great match for students with low vision and in need of large print instructional materials.

In settings where students will use a hard copy textbook or workbook, the Wyoming Institute for Disabilities can provide digital accessible instructional materials, such as a Word document or PDF, to allow the student access to the instructional materials on the iPad. These digital materials can be displayed with Large Text or viewed with the Magnifier feature.

I am going to use the Zoom and Large Text features to read a science textbook.

__DEMO

Let’s go back to the Accessibility settings page, again, to turn on the Invert Colors feature. I will swipe the Invert Colors button to turn the feature on. This is the only color option for the Invert Colors feature.

__DEMO

Now, I can use all three of these features to read the science textbook. The Invert Colors feature provides more contrast to the science figures and graphs. This increased contrast can also be helpful for reading text on the iPad. The Invert Colors feature benefits many iPad users, not just students with print disabilities. The Invert Colors feature is popular with people who read in dark environments, such as night time reading.

__[BACK TO ACCESSIBILITY MENU]

I want you to notice all of the accessibility features available from the Accessibility menu.

We have:

1. Zoom
2. Large Text
3. Invert Colors
4. VoiceOver
5. Guided Access
6. AssistiveTouch

We have reviewed the first three accessibility features and now we will cover some more.
Next, we will review **VoiceOver**. I will enable **VoiceOver** from the **Accessibility** menu. I will select the **VoiceOver** menu button and then swipe to turn on. Notice the instructions below the **VoiceOver** button:

- Tap once to select an item
- Double-tap to activate the selected item
- Swipe three fingers to scroll

Before we begin to use VoiceOver I want to show you the VoiceOver Practice feature, just below the VoiceOver button. We can use this to practice different swipe gestures and identify the action of swipe gestures.

**VoiceOver Practice**

Did you notice when I swiped up or down the associated action was “Move to previous item using rotor settings”?

**VoiceOver Rotor**

The rotor feature is useful when navigating a website, itunes, or any well structured document. We can use the rotor feature to navigate by headings, form fields, etc.

To use the rotor feature, use two fingers and turn clockwise or counterclockwise.

**DEMO ROTOR WITH VOICEOVER PRACTICE**

Next, I will demonstrate **Guided Access**. **Guided Access** is a feature every educator should know. **Guided Access** locks the iPad to one app. For example, a student who needs to use only one app to complete an in-class assignment, such as a calculator app.

**DEMO**

To turn on **Guided Access** go to **Settings, General, Accessibility** and select **Guided Access**. We will need to set a passcode that only the educator knows. I will use “1-2-3-4” as the passcode. Now, I will return to the home screen and open the app I want the student to use for the classroom assignment. To activate **Guided Access** in the desired app, triple-click the **Home** button, select **Guided Access** from the pop-up list, then select “Start” in the top right corner.

To unlock the app, triple-click the home button, enter passcode, and then select “end” in the top left corner.

**PowerPoint**

Next, we will review **AssistiveTouch**. Consider all the interactions most people have with the iPad:

- Swiping
- Shaking
Double-tapping
Triple-tapping
Adjusting the volume

All require precise movements of our fingers and arms. AssistiveTouch gives students with physical disabilities the same interaction with a very simple gesture: a tap.

__DEMO__

To enable **AssistiveTouch** go to **Settings, General, Accessibility** and then select **AssistiveTouch**.

__PowerPoint__

Before we review apps to support accessible instructional materials, I want to briefly mention Voice dictation on the iPad.

To use Voice Dictation, tap the microphone button on the on-screen keyboard.
You need a valid Internet connection to use Voice Dictation.
The iPad will record your voice.
Tap the Done button to stop dictating. After a few seconds, the iPad will turn your speech into text.

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Voice Dictation is useful for short comments or notes. The user cannot see the rendered text, until dictation is complete and Voice Dictation is not perfect and a few adjustments may be needed using the keyboard.

I do not recommend the use of Voice Dictation to support students with print disabilities or accessible instructional materials. Voice Dictation requires the user to frequently

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Next, we will review apps to support accessible instructional materials. We will briefly review apps that assist with:

1. DAISY audio
2. Digital text
3. Large print
4. Braille