

# Trends in K-12 Assistive Technology - Part 2



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# Covered in Trends... Part 1:

- Trends in AT
  - Instructional Technology vs Assistive Technology
  - Accessible Digital Text
  - Universal Design for Learning
  - Common Assistive Technology Tools and Terms
    - Text to Speech
    - Speech to Text
    - Word Prediction
- Built in Assistive technology on the PC and Mac computers

# Overview of Trends... Part 2

- Built in Assistive Technology Tools for the Chromebook and Google Work Space
  - Docs
  - Extensions
- Built in Assistive Technology for the iPad
  - Accessibility features
  - Apps
- Online accessible digital text resources



# **Built in Assistive Technology Tools for Chromebooks and Google Workspace**



# Chromebook Accessibility

## Features include:

- Text-to-Speech
- Screen reader
- High contrast and magnifier
- [On-screen keyboard with word prediction](#)



# Tools for Google Docs

## Accessibility Tools

- Voice Typing
- Spelling and Grammar check
- Smart Compose
- Define
- Translate Document



## Other Tools

- Explore (search Google and your Drive all at once)
- Word Count
- Keep Notepad
- Preferences - automatic substitutions
- Compare Documents - new

# Chrome Extensions

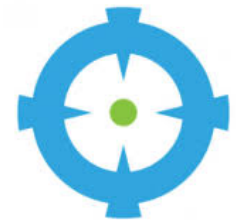
## Don Johnston

### Co:Writer Universal

- Cloud-based, cross-platform functionality
- Word prediction
- Text-to-Speech
- Speech to Text

### Snap and Read

- Read aloud (TTS) accessible and inaccessible text (OCR), simplify difficult vocabulary, and translate.



# Chrome Extensions

## Text Help

### Read and Write

- Cloud-based, cross-platform functionality
- Word prediction
- Text-to-speech and speech-to-text
- Vocabulary and study skills supports
- Screen Mask
- ScreenShot Reader (OCR)
- PDF Reader (OCR)





# Chrome Extensions

## Speechify

- Highlight text and read
- Limited user control but offers good reading voices



# Chrome Extensions

## Grammarly

- **Grammar and spell checker extension**
- **Now works within Google Docs**
- **Basic Free version or paid**



# Chrome Extensions

## Screencastify



- Instantly record your browser window with this extension
- Can be used for trainings and saved to Google Drive or YouTube
- Can be used to demo lessons, for example working out math problems

# **Built in Assistive Technology Tools for the iPad Settings and installed Apps**



# What can my iOS device do?

***Phones and iPads have different functionality***

- Vision, hearing and touch accessibility
- Word Prediction
- Siri (STT)
- Guided Access
- Accessibility Shortcut
- Speak, Cut, Copy, Paste
- Keyboards options
- Languages include prediction



# Features of NOTES app

- **Annotate on a picture or picture of document**
- **Mark Up Tools**
  - **Pencil**
  - **Text Boxes/Onscreen Keyboard**
  - **Highlight**



# Apple Clips

- **Free App for iPad and iPhone**
- **Live captioning**
- **Benefits of captioned videos:**
  - **Accessible for D/HH**
  - **Captions promote literacy**
  - **Increases comprehension, and memory particularly for English language learners**



(Gernsbacher, 2015)

# Notable iOS Apps

- **CoWriter**
- **Read&Write**
- **Doodle Buddy**
- **SnapType**
- **Adobe Fill & Sign**
- **Claro PDF**
- **Kidspiration & Inspiration**
- **Panther Math Paper**
- **Speechify**
- **Google & Apple Suite**
- **AAC apps**





# Accessible Text Resources

## Accessible Text:

- Learning Ally
  - Learning Ally Audiobooks App
- Bookshare
  - Dolphin EasyReader App
  - Capti Voice App
- Texas State Library Talking Books Program
  - BARD Mobile App



# Austin ISD Assistive Technology



Questions?

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# References and Resources

- [National Center on AEM](#)
- [CAST](#)
- [About Universal Design for Learning](#)
- [Chrome Accessibility](#)
- [Apple Accessibility](#)
- [Windows Accessibility](#)
- [TextHelp](#)
- [Don Johnston, INC](#)