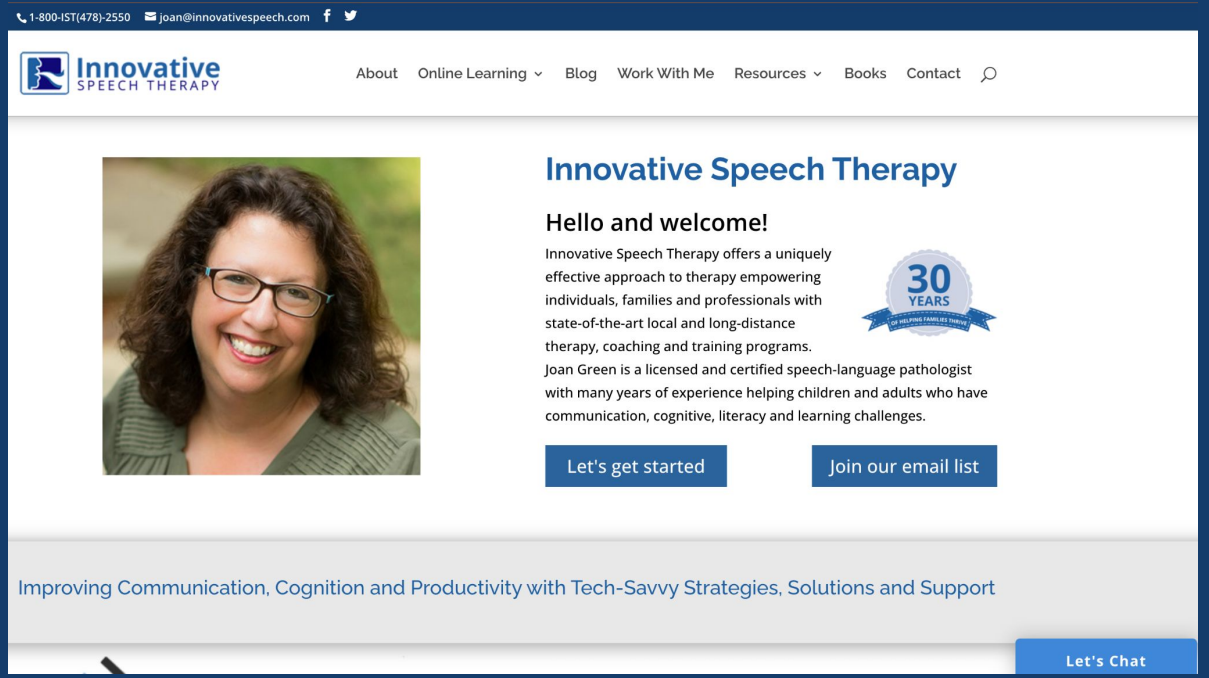
Technology Tools for Students Supports for Communication, Learning and Executive Functioning 3/21/23- SECAC

Innovative SPEECH THERAPY

Joan L. Green

SLP & Tech Advisor/Coach



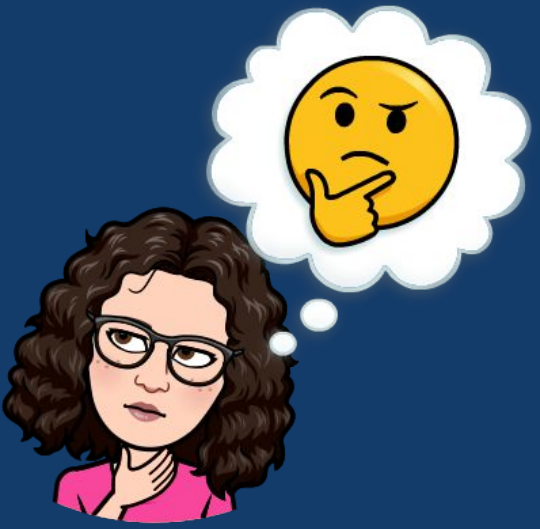
Let’s explore this new generation of tech!

Learn what’s possible ★

Match individual needs with tech features

Give it a try and adapt as needed

New Tech Mindset



"How can tech help my student better access the curriculum and demonstrate knowledge?

SETT Framework-
https://www.joyzabala.com/links-resources

S- **Student**

E- **Environment**

T- **Tasks**

T- **Tools**

T- **Training**

Reading Challenges

Writing Challenges

Comprehension Challenges

Expressive Communication Challenges

Executive Functioning Challenges

Too much to do- Too little time!

Miss deadlines and events?

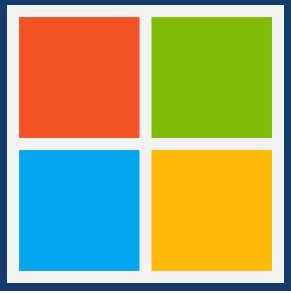
Disorganized?

Trouble planning and finishing?

UDL- Universal Design CAST.org

Great websites

Google- https://www.google.com/accessibility/
Apple- https://www.apple.com/accessibility/
Microsoft- https://www.microsoft.com/en-us/accessibility



Search for Cues to figure out how to do things!

Views change on different devices

Reading Challenges

Tech Features

Listen to text read aloud
& customize the view

All current computers, browsers, and mobile devices can read aloud for free

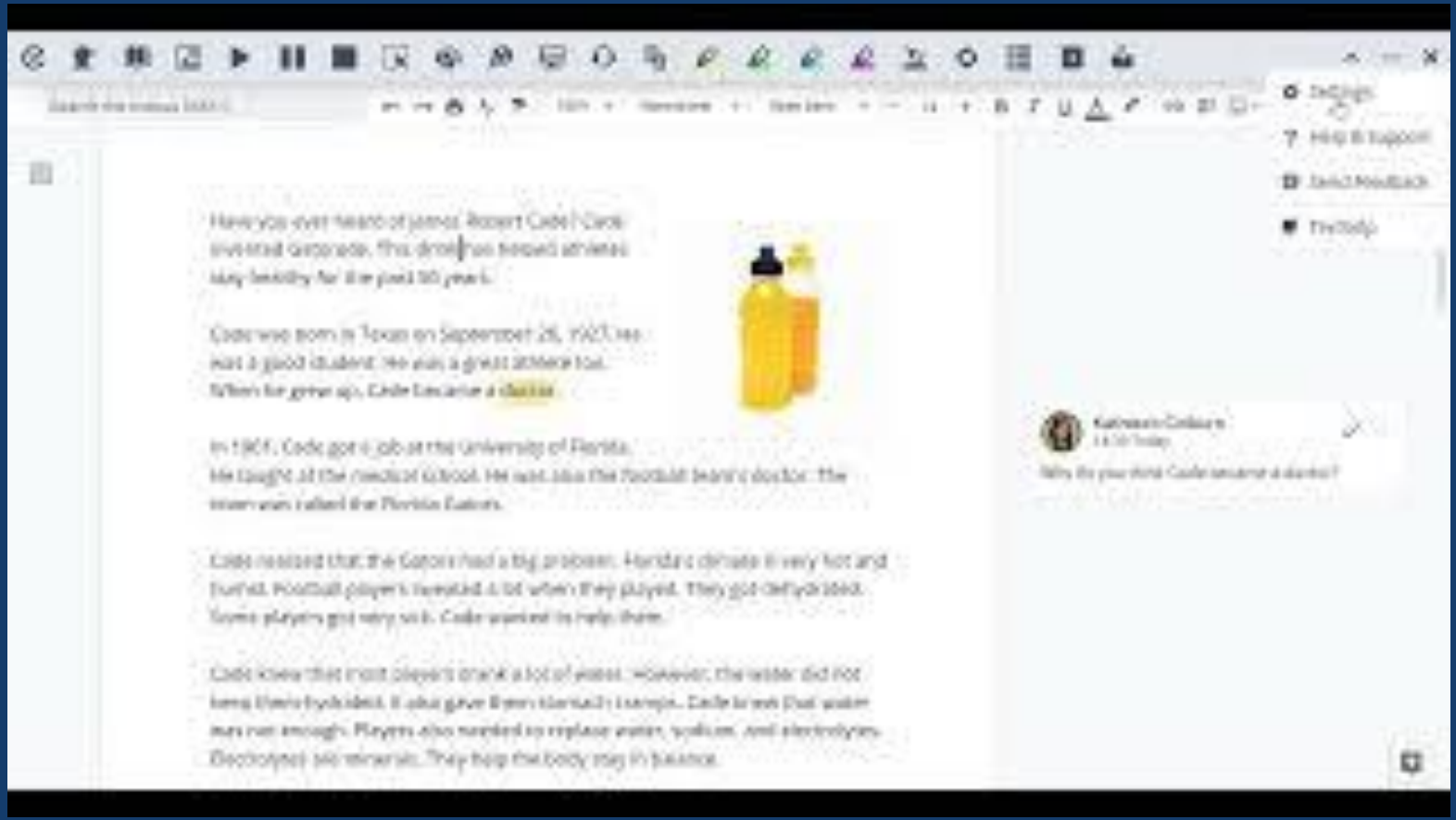
The process depends on the device, operating system and format of the material

Read and Write by Texthelp- Extension

The text to speech and translate features are free forever.
Works in Chrome and Edge browsers
Read online accessible content and Google Docs

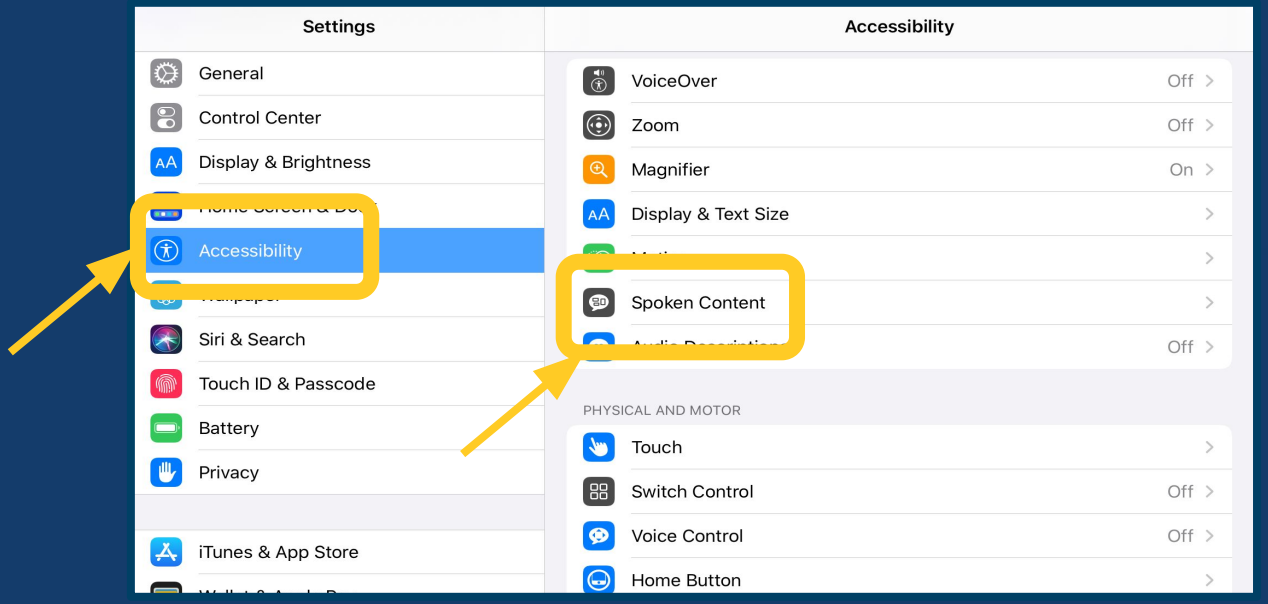
Mac, PC and Chromebooks

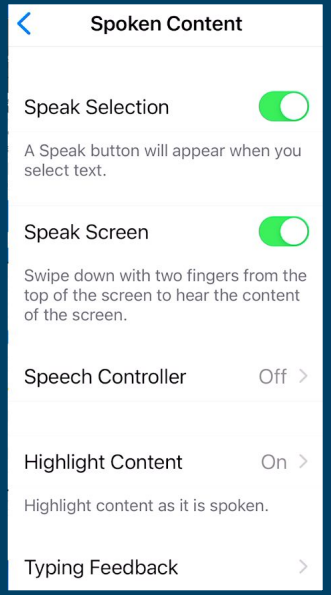
https://chrome.google.com/webstore/detail/readwrite-for-google-chro/inoeonmfapjbbkmdafoankkfajkcphgd



Accessibility Features

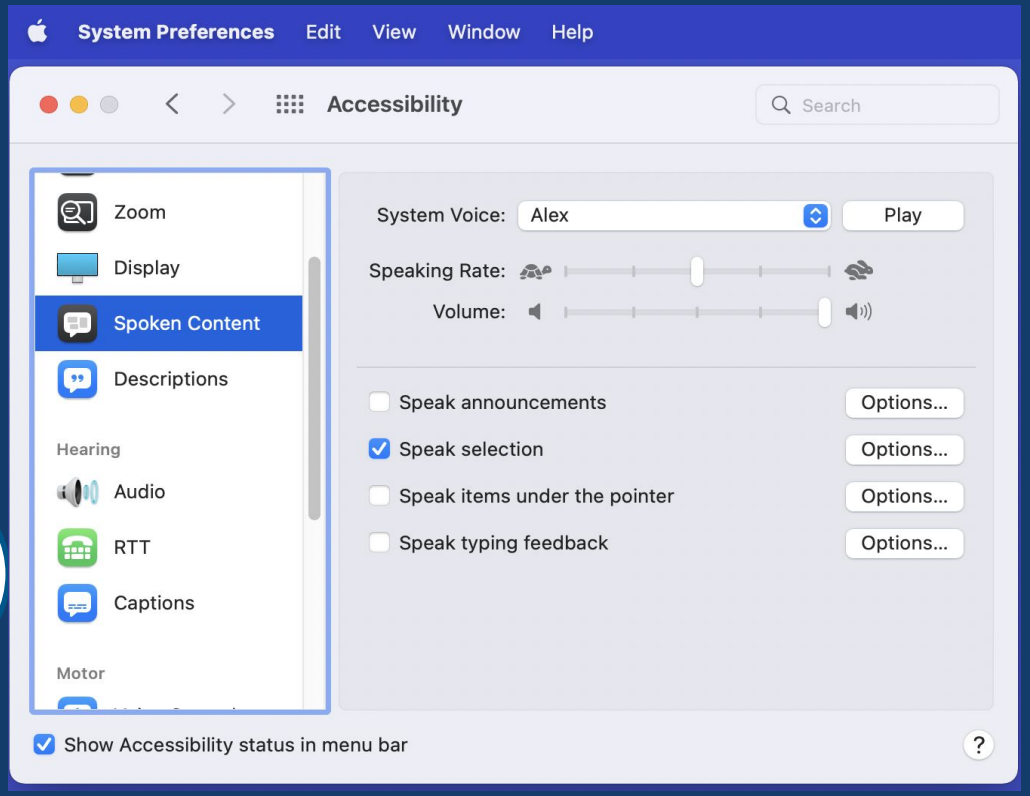
iOS





Read aloud- Mac

1. Apple menu > system preferences> Accessibility> Speak selected text when the key is pressed
2. Option + Esc



Windows-Free

Microsoft Learning Tools

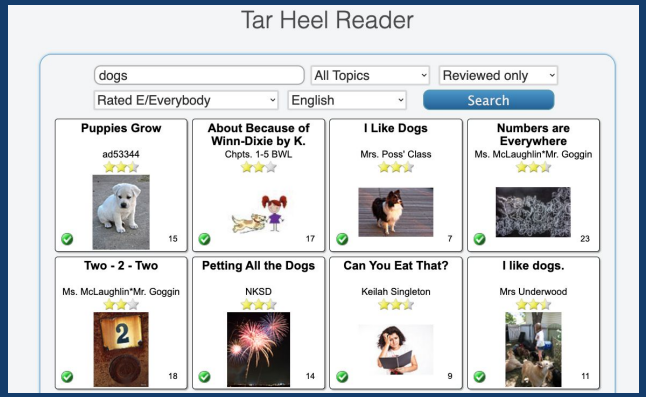
Immersive Reader

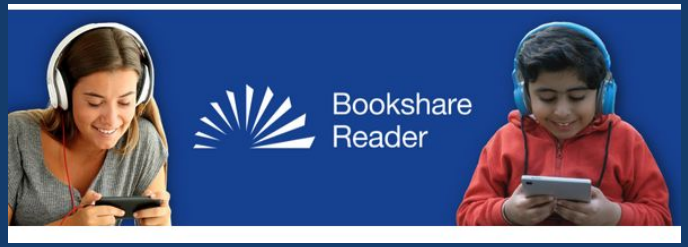
- Reads text aloud with highlighting
- Help with focus and attention
- Use the view menu

Digital Books - Text to Speech

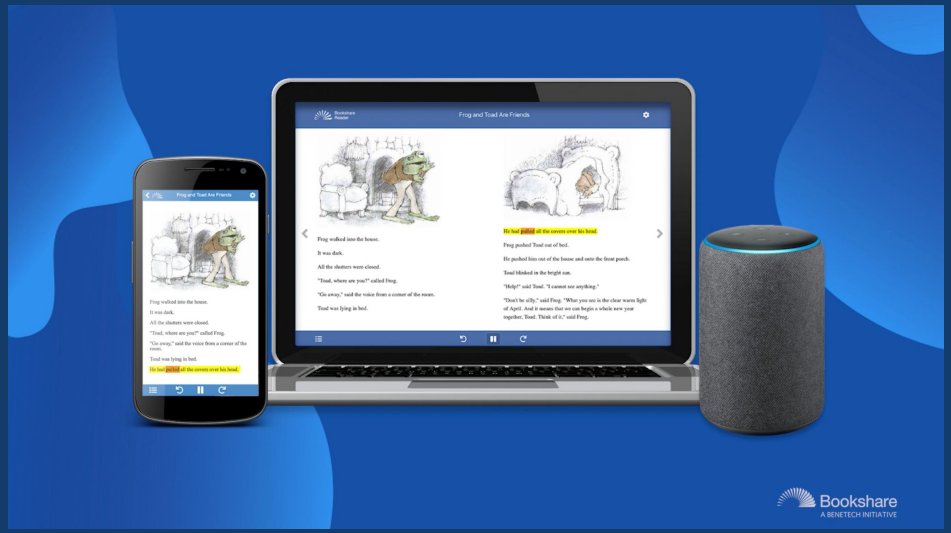
- Tarheelreader.org- books for beginner readers of all ages- https://tarheelreader.org/

- Bookshare.org- free- need documented “print disability”





Bookshare Reader- New and Free



- Listen to books in high quality audio
- Follow along with highlighted text
- Adjust reading speed, font size, and colors
- Navigate by page and chapter
- Bookmark your reading spot
- Stop reading and pick up from your last spot
- On computer- Read MathML
- On Smartphones- can read offline

Digital and Audio Books

Libby- free audiobooks from library

- https://www.overdrive.com/apps/libby

Khan Academy Kids

- https://learn.khanacademy.org/khan-academy-kids/ (ages 2-7)

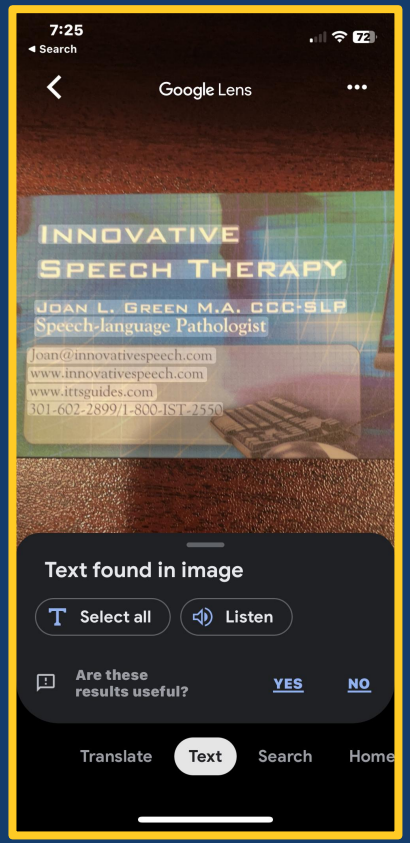
Khan Academy Kids

Google Lens

This app uses the camera on a tablet or smartphone

On iOS use the Google app and tap on the Lens icon.

Take a picture of text and it reads it out loud immediately! It can also translate.



Writing Challenges

Tech Features

Speech- to- text
Synchronize notes and audio

Device Accessibility

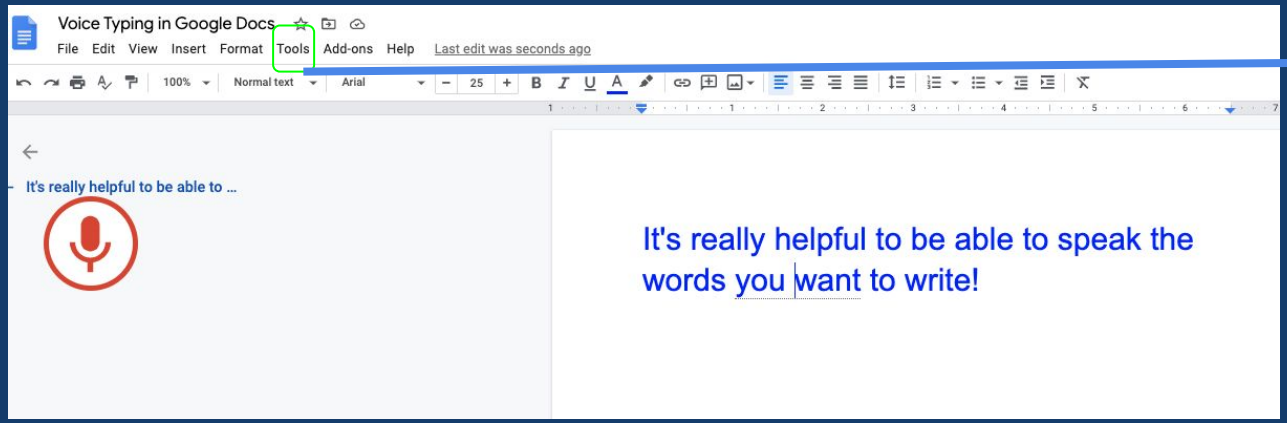
All current computers & mobile devices can turn your speech into text

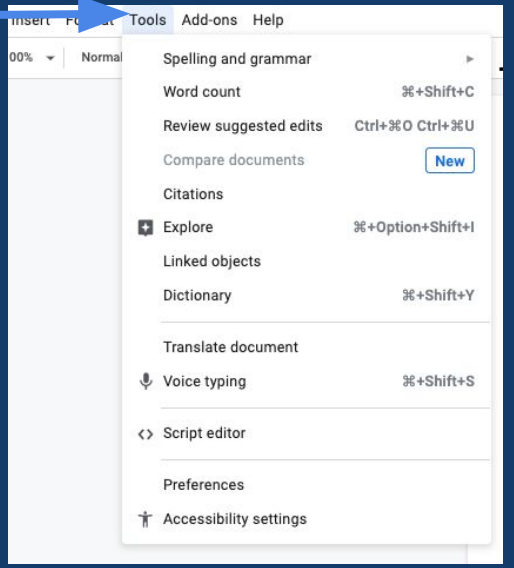
Windows logo + H

Mac- Fn Fn

Microphone icon or
Search + d

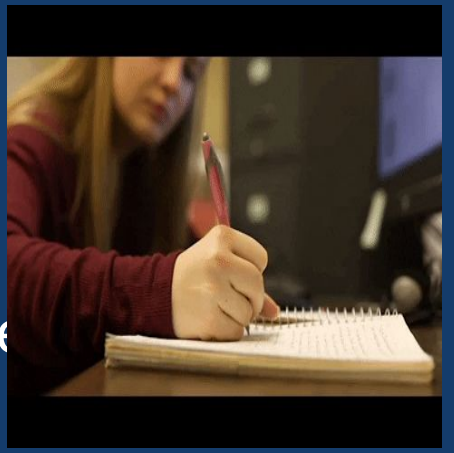
Voice typing in Google Docs





docs.google.com

We take notes to…

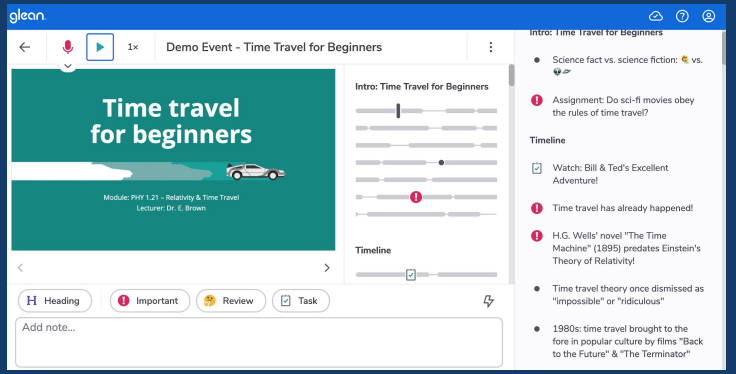


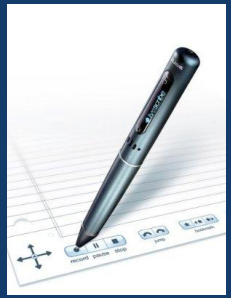
via Roanoke College on GIPHY

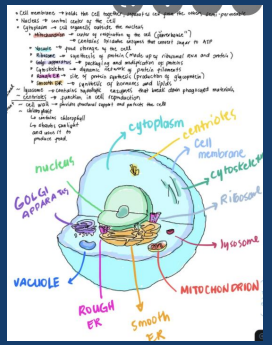
- Record information to refer to or study from late
- Help process the material
- Stay engaged and focus
- Remember to do things and meet deadlines
- Share information with others

Synchronize notes and audio

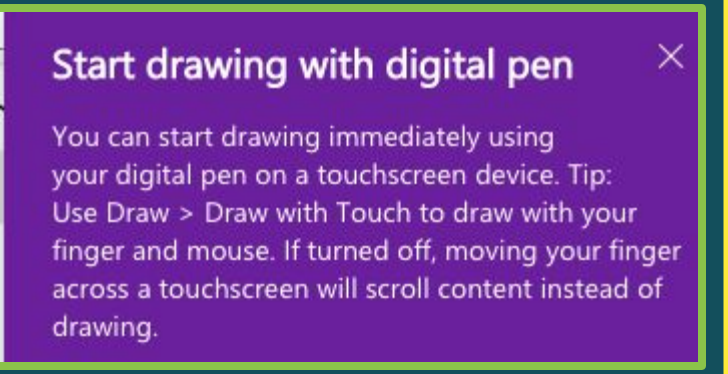
- Need permission to record
- Options for handwriting, typing, transcription and just making minimal marks
- Give yourself clues so you can review, add to notes and review most important info

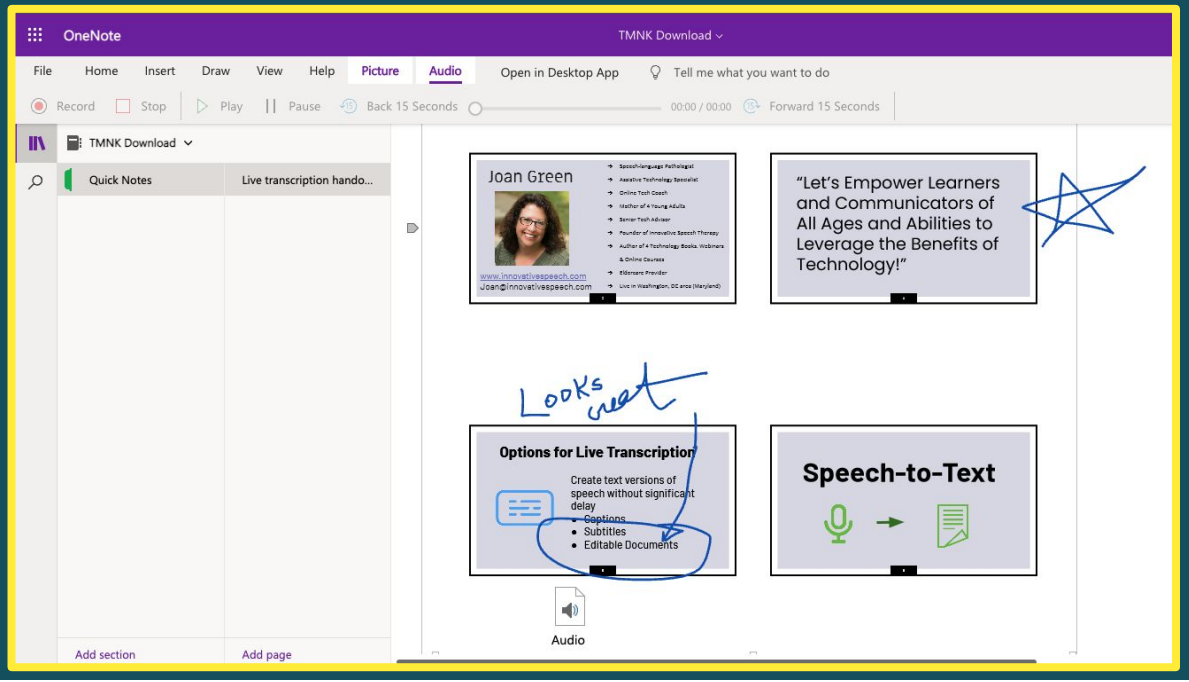






Microsoft OneNote- annotate PDFs and record audio





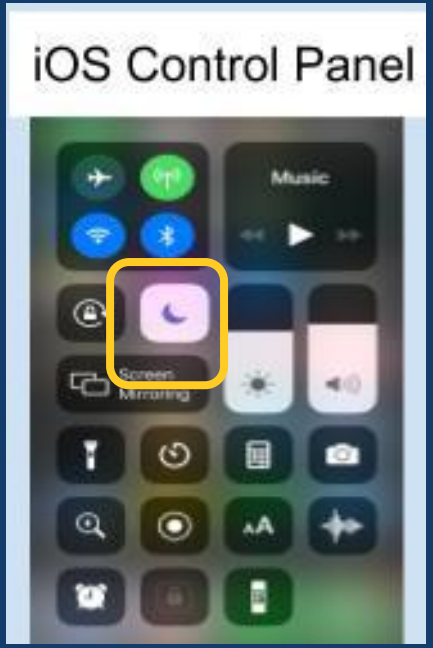
Executive Functioning Challenges

Tech Features

Minimize distractions, get organized and maximize productivity

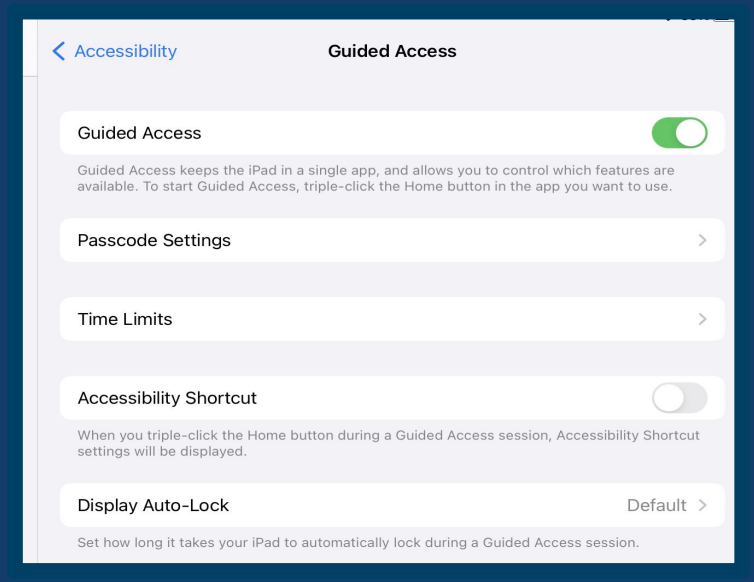
Reduce distractions- Do not disturb

“Is this how I choose to prioritize my attention?”

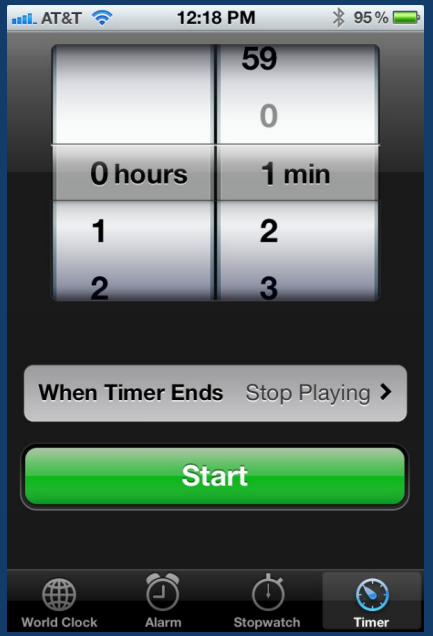


Guided access on iOS devices- Lock in app

Settings > Accessibility > Guided Access



Use Timers and Alarms

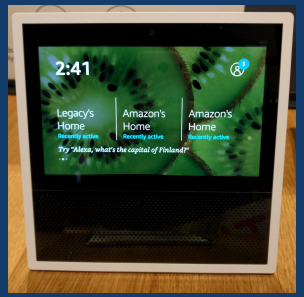


Alarm
Timer

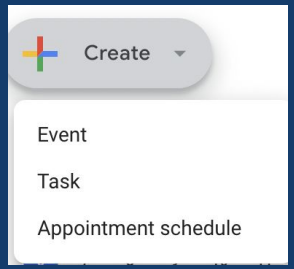
Smart Assistants- Alexa and Echo devices

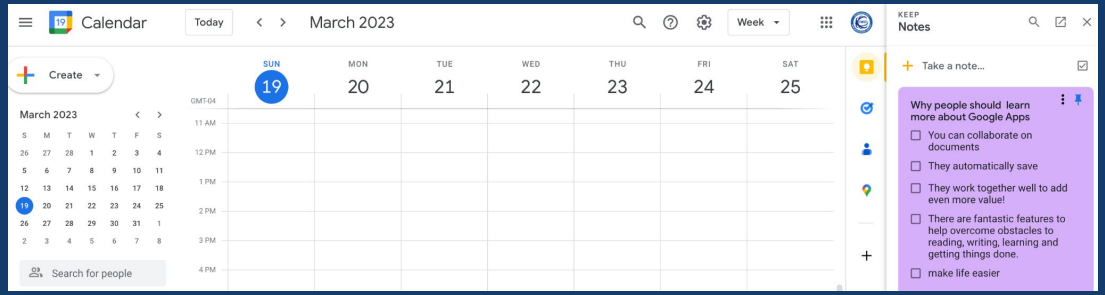
“Alexa, Remind me to leave in 20 minutes”

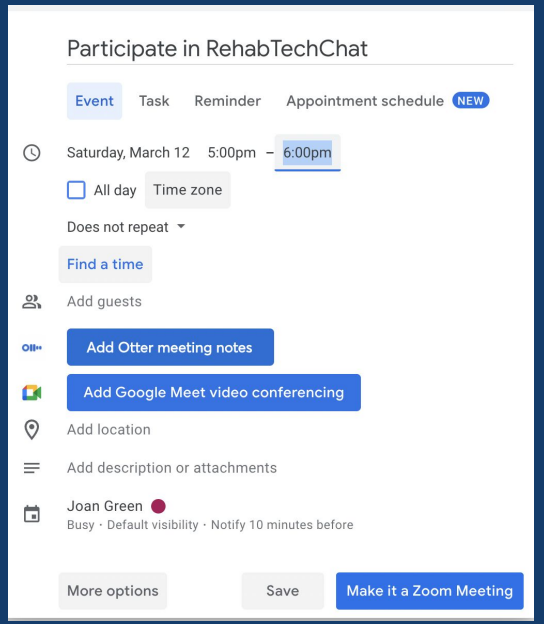
“Echo, Set the study timer for 45 minutes”



Google Calendar- Views, Reminders & Color



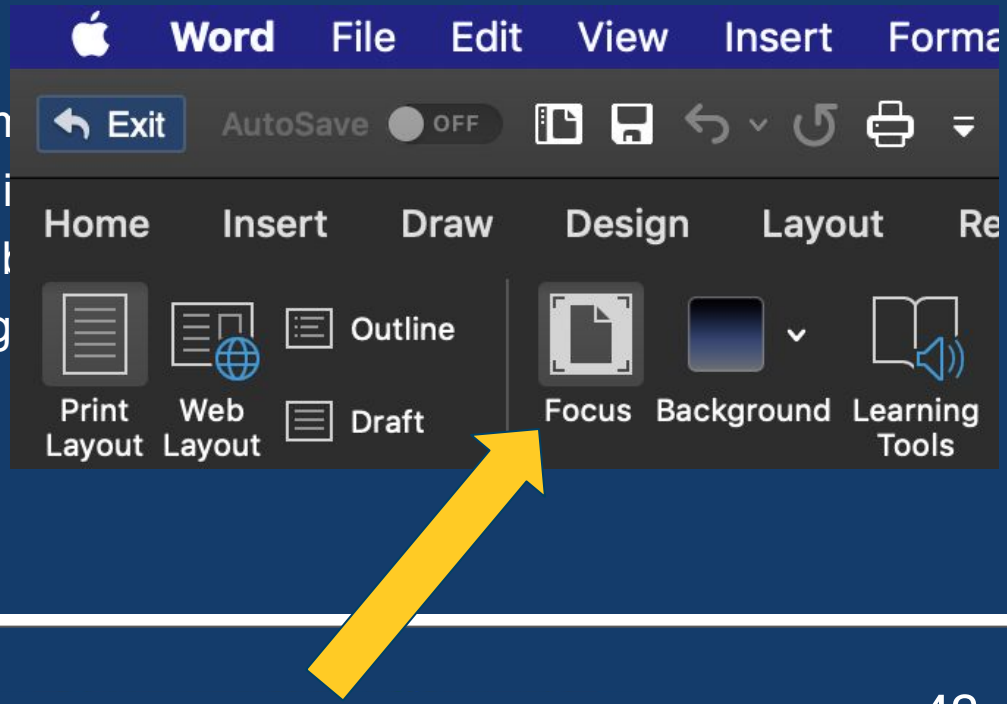




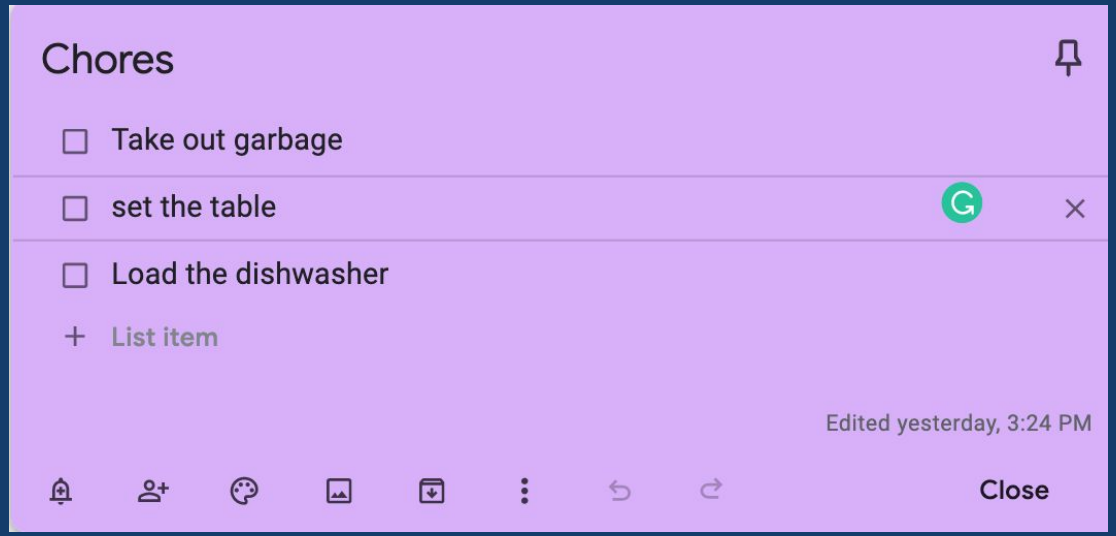
Microsoft- Focus Assist

Windows 11

- Focus assist stops notifications fron
- Type “Clock” into taskbar’s Search i
- Set up length of time for focus and b
- Determine which notifications can g

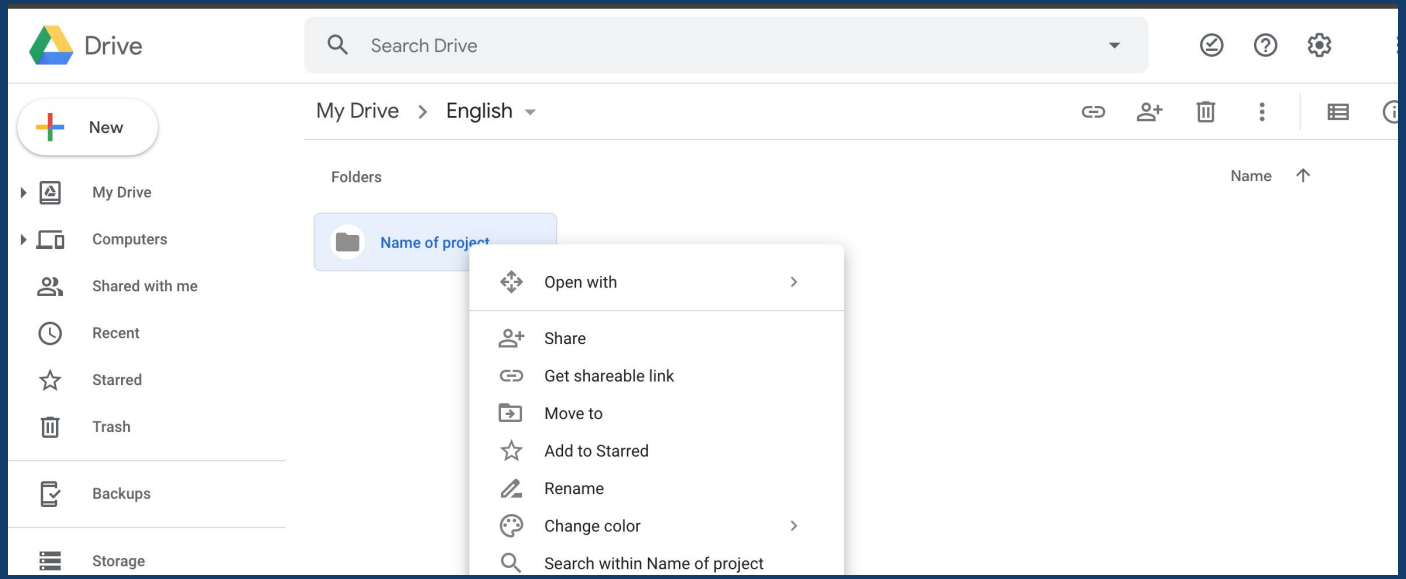


Google Keep- task manager- keep.google.com

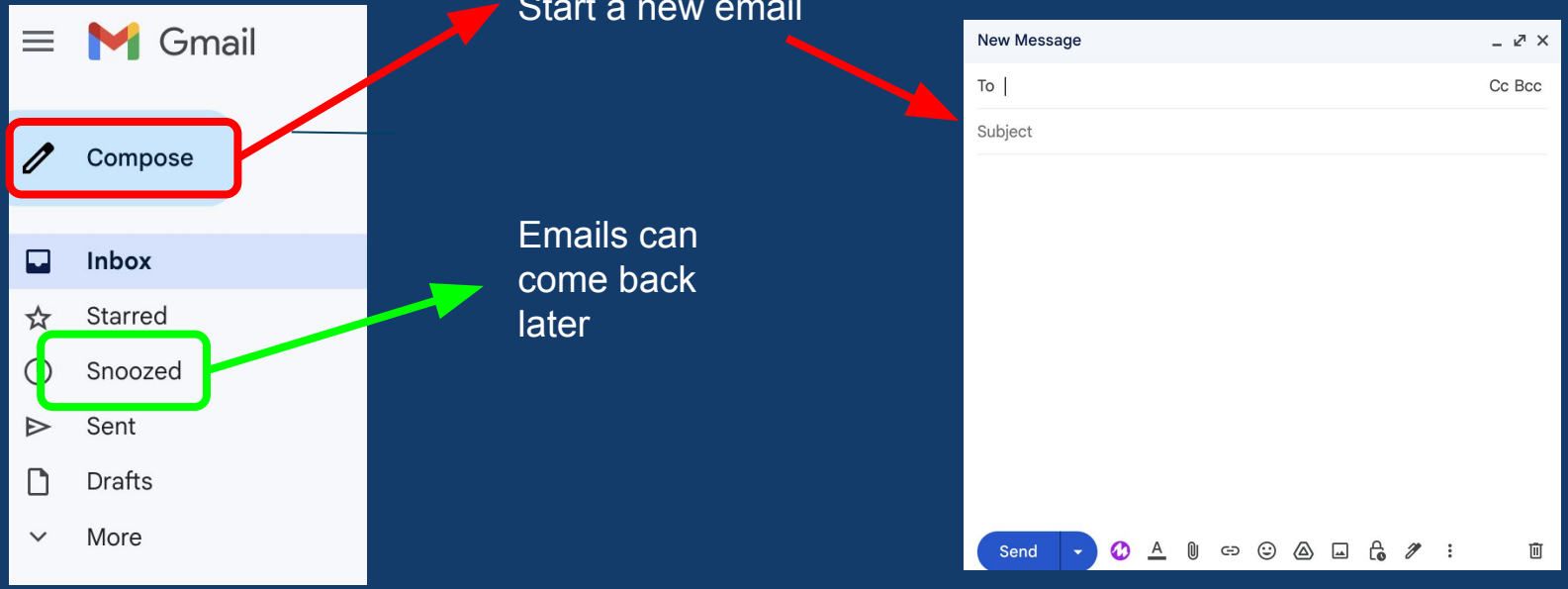


- Use color
- Reminders
- Share lists
- Searchable

Google Drive or OneDrive- Organize folders



Gmail mail.google.com

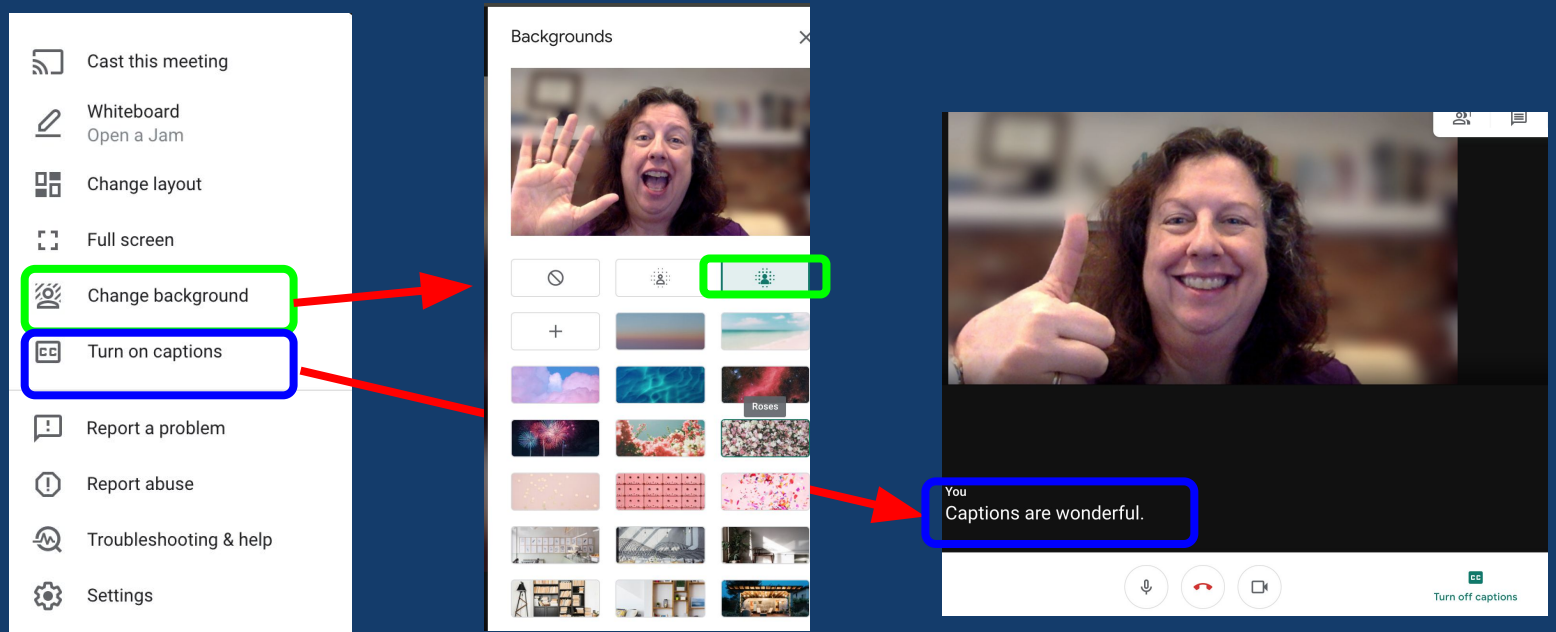


Comprehension Challenges

Tech Features

Captions

Google Meet- Settings and options



Zoom – Automatic closed captioning

Live Captioning is available on all accounts

Need to set up in advance

Chrome Browser- Live Caption on Desktop

Chrome Settings > Advanced Settings > Accessibility > Toggle on Live Caption

Instantly captions audio and video

Appears in a small moveable black box

Communication Challenges

AAC Apps

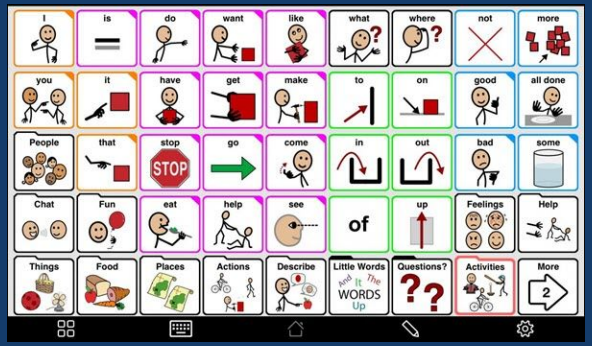
- Augmentative and Alternative Communication
- Match features to needs of user- motor, vision, language
- Students who are unable to say what they want to say when they needs to say it may benefit from tech features and dedicated communication apps
- Refer to SLP for an evaluation

AAC- Augmentative and Alternative Communication

[LAMP Words for Life]

[Touch Chat]

[Proloquo2go]

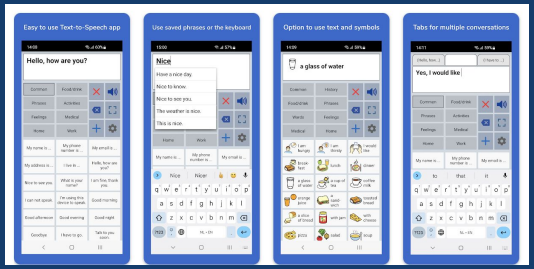


Visual support for communication

Bridge Communication

Speech Assistant AAC

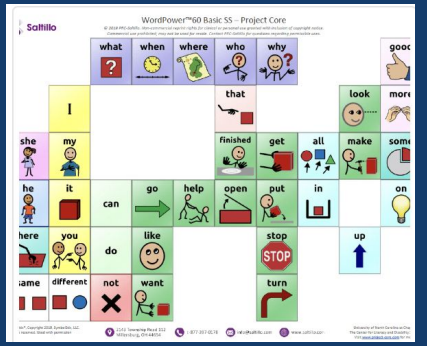
Our mobile devices- maps, contacts, calendar, photos



AAC resources

Project Core - free modules

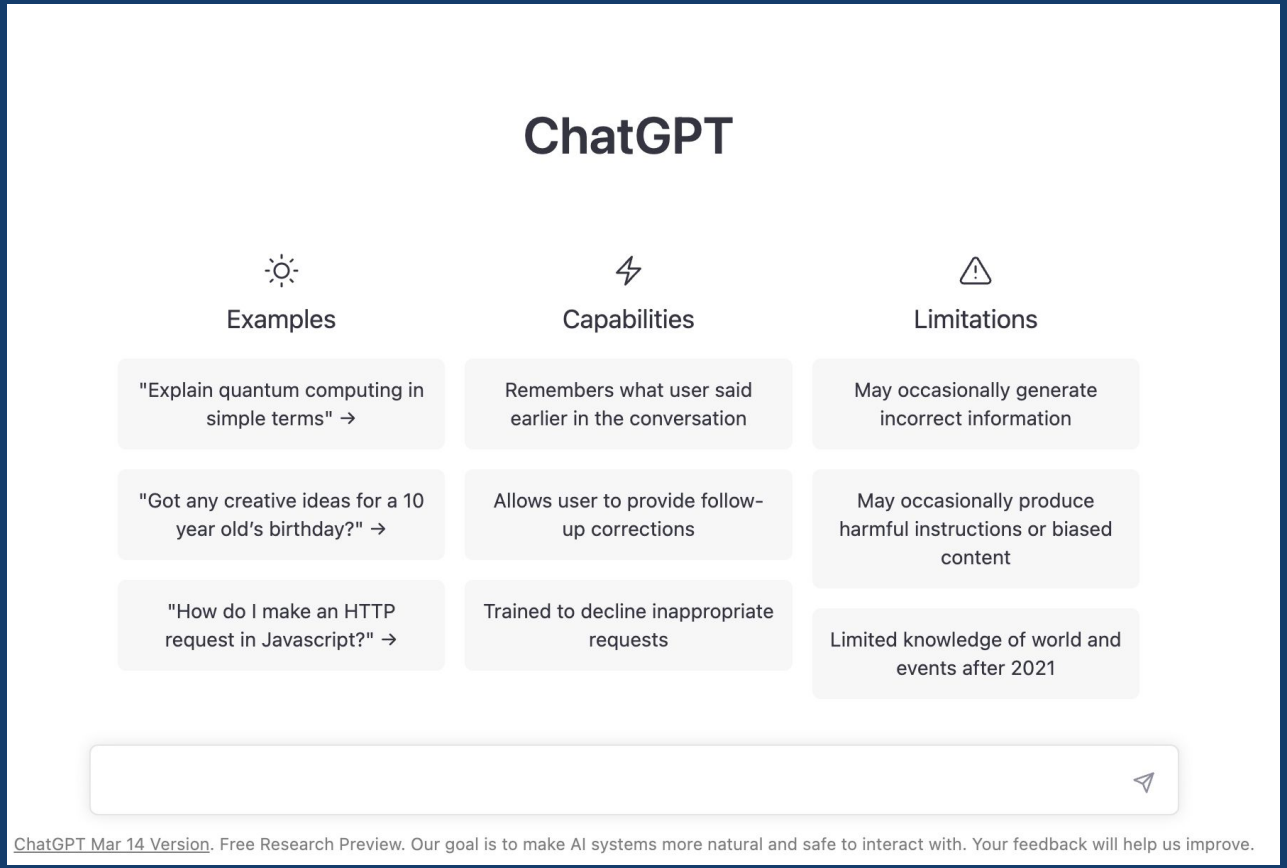
PRAACTCALAAC.ORG



AI- Artificial Intelligence

Emerging AI is evolving to be another type of assistive technology

CHATGPT- How can we leverage its benefits and minimize harm?

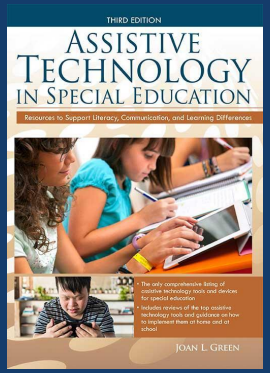

ChatGPT
Examples
"Explain quantum computing in simple terms" →
"Got any creative ideas for a 10 year old's birthday?" →
"How do I make an HTTP request in Javascript?" →
Capabilities
Remembers what user said earlier in the conversation
Allows user to provide follow-up corrections
Trained to decline inappropriate requests
Limitations
May occasionally generate incorrect information
May occasionally produce harmful instructions or biased content
Limited knowledge of world and events after 2021
ChatGPT Mar 14 Version. Free Research Preview. Our goal is to make AI systems more natural and safe to interact with. Your feedback will help us improve.

How can these tools help you and your client/student?

Assistive Technology Book, 3rd edition by Joan Green

Resources to support literacy, communication and learning differences

Available on Amazon and many other online bookstores- 2018

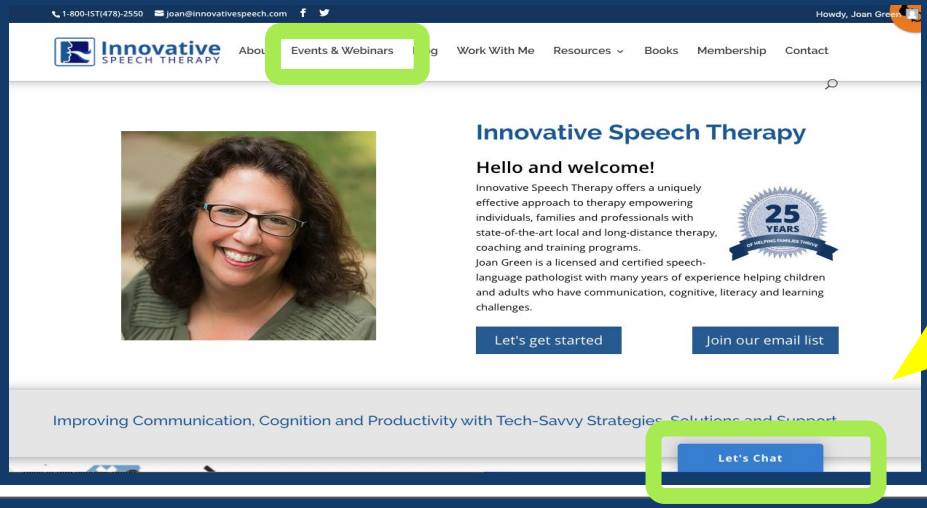


IST Tech Savvy Solutions Facebook Group

https://www.facebook.com/groups/ISTTechSavvySolutions/

Let's Chat! www.innovativespeech.com

I offer free 15 minute phone consultations to help you figure out your next steps...



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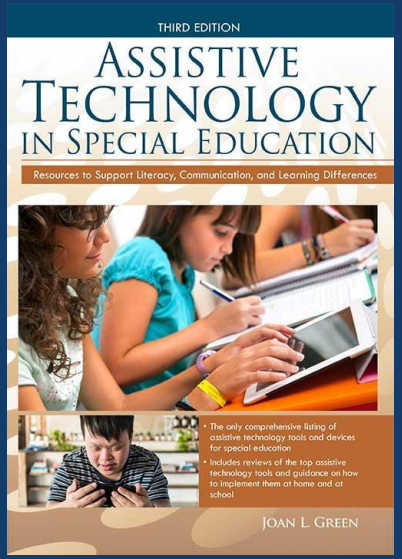
2018



Let’s stay in touch!

Joan Lipman Green

www.innovativespeech.com

Joan@innovativespeech.com

Facebook- Innovative.Speech.Therapy

FB Group- IST Tech Savvy Solutions

LinkedIn- Joan Lipman Green

Twitter- @jgreenslp

Instagram- joanlipmangreen