



TheyMayNotKnow.com

WEBINAR SERIES

Using AI as AT
(Artificial Intelligence as Assistive Technology)



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Accessibility Check



- ❖ You are muted
- ❖ We can't see you
- ❖ Close extra tabs and refresh if problems
- ❖ Log out and in again as needed
- ❖ Live captioning enabled
- ❖ Everyone will have access to on-demand recording- 2 weeks



Webinar Series TheyMayNotKnow.com

*Dedicated to the memory of my
wonderful brother Robert (Bob)
Lipman (5/8/61-3/27/20)*


Shout out to my parents, Leah and
Allan Lipman, who inspire me to
keep on offering these webinars.
It's been 6+ years!




Joan Green- Your Tech Advisor and Coach



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 About Online Learning Blog Work With Me Resources Books Contact 🔍




Innovative Speech Therapy

Hello and welcome!

Innovative Speech Therapy offers a uniquely effective approach to therapy empowering individuals, families and professionals with state-of-the-art local and long-distance therapy, coaching and training programs.

Joan Green is a licensed and certified speech-language pathologist with many years of experience helping children and adults who have communication, cognitive, literacy and learning challenges.



[Let's get started](#) [Join our email list](#)

Improving Communication, Cognition and Productivity with Tech-Savvy Strategies, Solutions and Support

[Let's Chat](#)

www.innovativespeech.com

Technology can be used to:

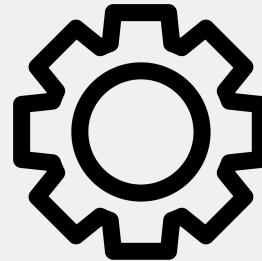
- Overcome obstacles
- Maximize the love of learning
- Prepare students for a successful future
- Help employees succeed at work
- Reduce anxiety, stress & frustration
- Make our own lives easier and more efficient



Universal Design

Help students access the curriculum, show what they know, and be engaged in learning

Help adults overcome barriers to succeed at work

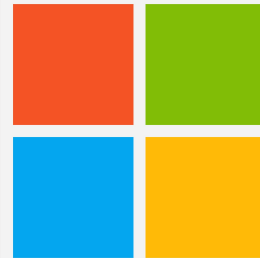


Accessibility options

Google- <https://www.google.com/accessibility/>

Apple- <https://www.apple.com/accessibility/>

Microsoft- <https://www.microsoft.com/en-us/accessibility>



New Tech Mindset



“How can AI and tools such as CHATGPT help me or someone I know overcome barriers to success?”

“How can tech help me save time and do my job better?”

What is AI?

A machine-based system that can, for a given set of human-defined objectives, make predictions, recommendations or decisions influencing real or virtual environments.”

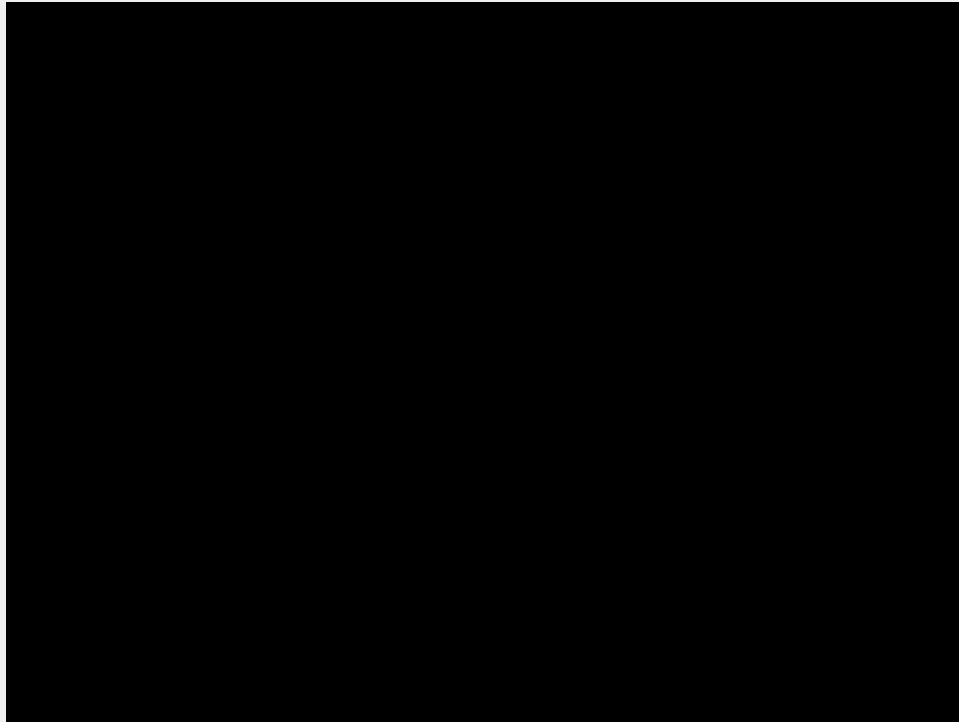
NATIONAL ARTIFICIAL INTELLIGENCE ACT OF 2020

<https://www.state.gov/artificial-intelligence/>

- Mapping technologies
- Voice-assisted smart phones
- Handwriting recognition
- Financial trading
- Spam filtering
- Language translation
- Precision medicine
- Environmental sustainability
- Public welfare
- Education



What is AI?- Common Sense Media



(2 min video) <https://www.common sense.org/education/videos/what-is-ai>

Where are you on this AI journey?



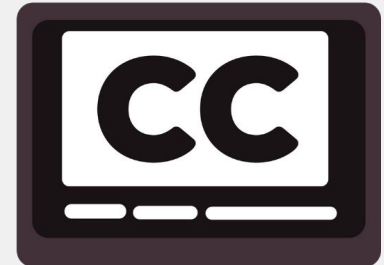
Where are you on this your AI journey?

- I enjoy trying out all the new cool tools!
- I don't know what all the fuss is about!
- It's probably another fad that will pass.
- I'm afraid that it will take over and I will be out of a job!
- I'll let others deal with it and I want to just keep doing things as I've been doing them.
- I'm scared of it's impact.
- I'm excited about the opportunities it offers!
- I find it totally overwhelming and don't know where to start.
- I'll let Joan figure it out then learn from her!

AI- Profound Impact on Accessibility- Assistive Technology

It's already in many of the tech tools we use

- Captioning
- Translation
- Summarization
- Online searching
- Word prediction
- Contextual spell checkers
- Speech recognition
- Read text aloud
- Adaptive learning platforms



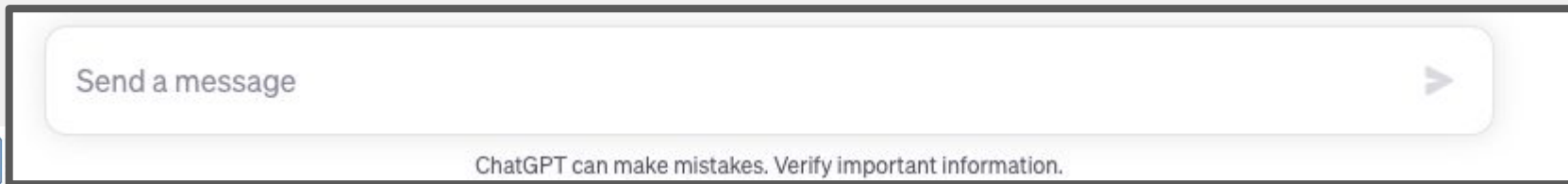
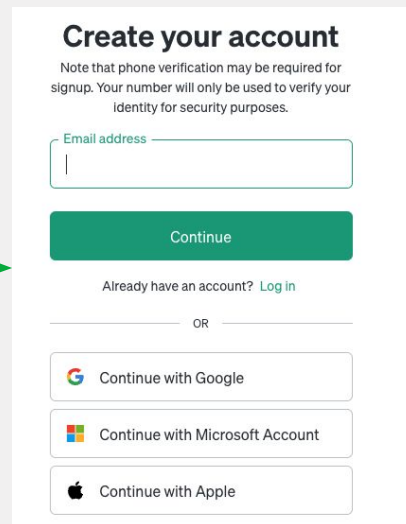
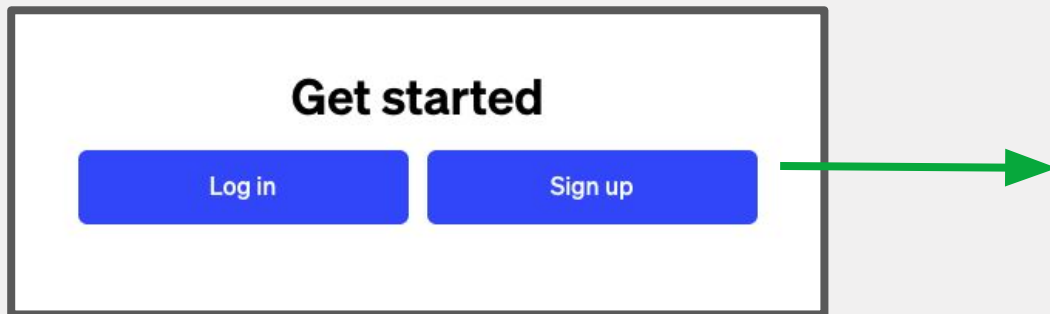
Generative AI- Large Language Models

- Generative Artificial Intelligence is a type of AI that is capable of generating text, images, or other media, using generative models.
- Generative AI models learn the patterns and structure of their input training data and then generate new data with similar characteristics.
https://en.wikipedia.org/wiki/Generative_artificial_intelligence
- We offer a **prompt**- then it searches the info it has access to and **predicts text** to offer based on feedback from the user.



Getting started with ChatGPT

- Go to <https://chat.openai.com/>



A little humor from ChatGPT:)

Why did the computer keep freezing?

- It had too many windows open!

Why was the math book sad?

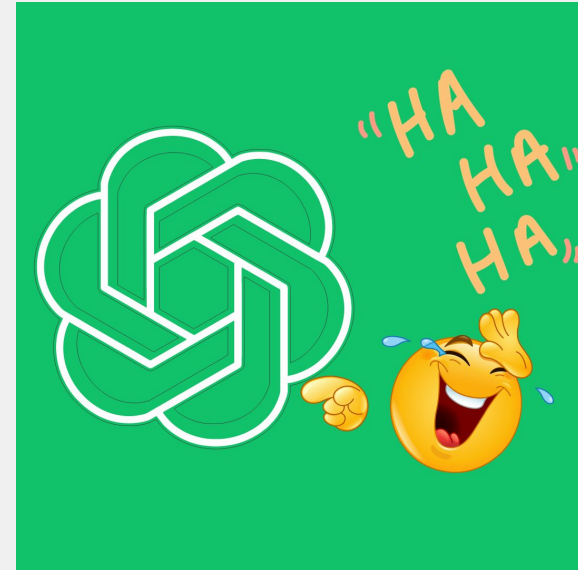
- It had too many problems... just like my code!

Why did the robot go on a diet?

- It had too many bytes!

Why do programmers prefer dark mode?

- The light attracts bugs!



A few statistics...

- ChatGPT had 1 million users within the first five days of being available
- 400 million workers could be displaced because of AI
- Research estimates AI will create 97 million jobs
- A quarter of companies are adopting AI because of labor shortages
- Half of U.S. mobile users use voice search every day
- 97% of business owners believe ChatGPT will help their business
- Over 60% of business owners say AI will increase productivity
- Over 75% of consumers are concerned about misinformation from AI

Generative AI can:


- Write a poem or an entire book!
- List reasons to do or not do something
- Complete an assignment
- Create a song or produce computer code
- Assist with teaching, working and getting things done
- Help people learn to help themselves
- Assist with creativity- unblock people who are “stuck”




Generative AI


- **Open.ai- Chat Generative Pre-trained Transformer"- ChatGPT**
 - Jasper, Copy.ai and most AI text generators.
 - Microsoft Edge- **Bing- Free ChatGPT 4**
- **Google's AI model- PaLM2- Bard**
- **Meta- Llama 2**

Chat GPT
iOS & Android Apps
chat.openai.com





Bing (Microsoft Edge)



Bard
(Google Chrome)

Claude 2 AI Chatbot

Claude 2- <https://claude.ai>

Has more recent data- up to 2023

Can input longer content and multiple documents

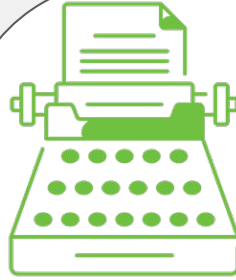
summarizing, searching, writing, and coding.

A competitor to CHATGPT



Societal disruptors

Typewriters



Calculators



Laptops



Email



Mobile phones



Search Engines



Wikipedia

Google Translate



Video Meetings and Calls



ChatGPT

AI Resource Lists- There are hundreds of thousands of AI programs available!

- **AI Educator Tools-** <https://aieducator.tools/>- A repository of AI Tools for teachers from Dan Fitzpatrick- The AI Educator
- **Supertools** - <https://supertools.therundown.ai/>
- **Future Tools-** - <https://www.futuretools.io/>

44% of the labor force will be affected by AI in the near term.

https://bnn.network/world/ai-impact-over-40-of-labor-force-could-be-affected-in-next-three-years-says-morgan-stanley/?utm_source=aitoolreport.beehiiv.com&utm_medium=newsletter&utm_campaign=44-of-labor-force-affected-by-ai-in-next-3-years

- Let's empower ourselves, students and everyone we support with wise and strategic use of AI Tech Tools
- We are future-proofing ourselves and others
- This is just the beginning!

Take Home Message



Take Home Message

- Tech tools can either help or hinder productivity and learning
- We need to stay informed and understand the pros and cons as therapists, educators, parents & advocates.
- Schools and employers need to establish clear rules
- Parents should become familiar with the tech
- The future of education and work are changing!

We need strategize how to minimize harm with AI

Equal Access to AI

- Literacy is a prerequisite- need precise language
- Access to tech and quality instruction varies greatly

Biased and incorrect info from Generative AI-
“hallucinations”- verify info-- 80/20 rule

Cheating and plagiarism- establish rules

Data privacy concerns- Don't use personal, proprietary or sensitive info



Using AI as AT- what does a person need? Features?

- **Read text aloud-** help with **reading and vision challenges**
- **Transcription & captions-** help with **hearing issues, ADHD, auditory processing/comprehension**
- **Declutter web pages-** reader view- help with **ADHD, reading, cognition**
- **Summarize and simplify written content-** help with **new learning**
- **Speech recognition-** use smart assistants- Echo Show, Siri, Hey, Google- **access info and control environment**

Using AI as AT- what does a person need? Features?

- **Speech-to-text-** support **writing**
- **Text-to-image-** help with **memory and learning**
- **Image-to-text-** help with **word retrieval, communication**
- **AI powered tutoring-** support **new learning**
- Get help **brainstorming solutions-** figure out next steps- get feedback
- **Break down** projects into smaller steps- help with **executive functioning**
- **Learn new skills with the help of apps that change based on responses.**

Support for Reading

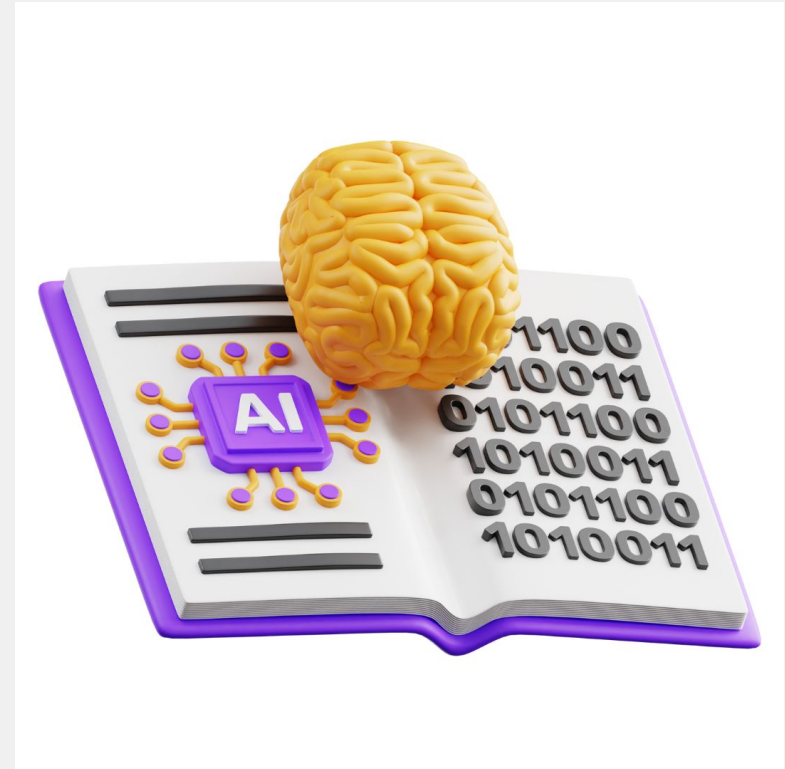
Low vision

Dyslexia

ADHD

English isn't primary language

Reduced memory



All devices can read aloud for free!

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



Use Text-to-Speech

It's a feature on all computers, phones and tablets!

It's also available for browsers- Edge, Chrome and Safari!

It's available for Word and Google Docs

Immersive Reader



Read Aloud- while highlighted

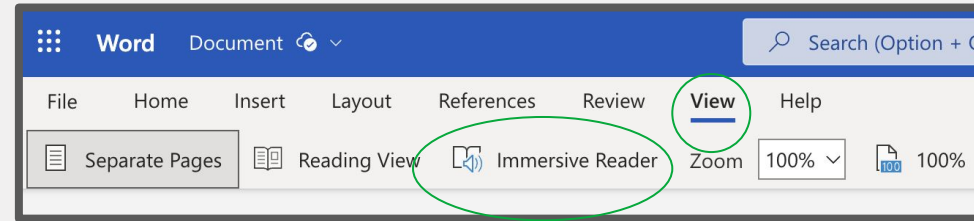
Change the voice and speed

Change text preferences

Grammar Tools- parts of speech and syllables

Reading Preferences- line focus

Reading Coach



1. Select View
2. Select immersive Reader

iDevices

Speak Selection Speak Screen




- **Settings** > Accessibility > Spoken Content
- **Speak selection-** select text then touch “speak”
- **Speak screen-** swipe down with two fingers from the top of the screen and then press play (use assistive touch)

Enhance Readability- Declutter the screen

- Remove ads
- Adjust font size and type
- Customize color



Unlock the Power of Tech for Reading- TMNK Webinar



**Unlocking the Power of Tech
for Reading**
WEBINAR

Reading is an essential skill we use every day, and this webinar will demonstrate technologies that can be used to help those with learning disabilities or visual impairments overcome reading challenges.

Watch Now

<https://learn.innovativespeech.com/techforreading-> \$18.00

Google Lens

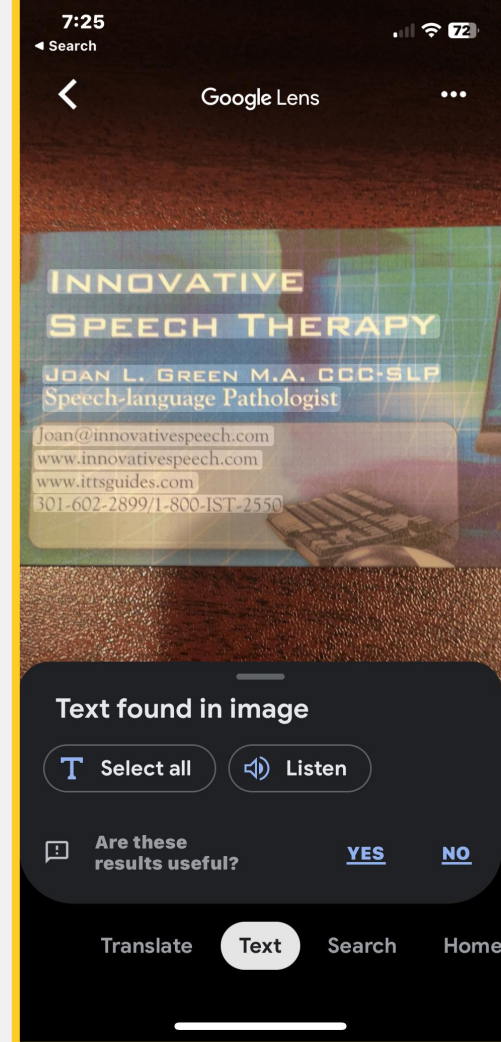


This app uses the camera on a tablet or smartphone

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

Take a picture of text in environment (a sign, book, handout) and it reads it out loud immediately! It can also translate.

Free



Generative AI- ie Chat GPT- to support reading

- <https://chat.openai.com/>
- Summarize and/ or simplify content being read
- Get the gist and framework for help deciding if you want to read the entire article.
- Supports text-based input

Chat GPT Prompts

- “Please summarize this article and simplify the content so a 5th grade student can understand it.”
- “Please create an outline of this article and create 5 bullets for key ideas.”
- “Summarize the following text in 500 words.”
- “Provide a concise summary of the book..... In an easily understandable format highlighting the themes.
- “Please suggest a few books I might like to read that are similar to
- “Create a list of books to read to help me learn about...”
- “Can you suggest an image I could use to help me remember a main lesson in this book?”

Summarization in Bard



How can I use you to help me generate summaries of websites, PDFs and documents?



View other drafts



You can use me to help you generate summaries of websites, PDFs, and documents in a few different ways:

Google Search

When you search for a website, PDF, or document on Google, you will often see a summary of the content in the search results. This summary is generated by me, and it is designed to give you a quick overview of the content so that you can decide if it is worth clicking on.

To use me to generate summaries of websites, PDFs, and documents in Google Search, simply search for the content that you want to summarize. If the content is available online, and it is in a format that I can understand, then I will generate a summary for you.

Google Docs

If you are using Google Docs to create or edit a document, you can use me to generate a summary of the document. To do this, simply select the text that you want to summarize, and then click on the "Summarize" button in the toolbar. I will then generate a summary of the selected text and insert it into the document.

Google Assistant

You can also use me to generate summaries of websites, PDFs, and documents using Google Assistant. To do this, simply open the Google Assistant app on your phone or tablet, and then say "Summarize this." Google Assistant will then ask you for the URL of the website or the file path of the PDF or document that you want to summarize. Once you have provided this information, Google Assistant will generate a summary for you and read it aloud.

<https://bard.google.com/>

Summary tools that use AI

TLDR This- <https://tldrthis.com/>



Quillbot-
<https://quillbot.com/summarize>, also
paraphrases



<https://sourceforge.net/software/ai-summarizers/>

Recast AI: Summary Podcasts- <https://www.letsrecast.ai/>

- Converts long articles into easy to digest conversations
- Go through your “read later” list with informative summaries to save time- appear in inbox
- iOS app, chrome ext, web app
- Free - top publishers
- Pro version that can provide personal feed in your podcast app with any publisher- 7 day trial version- \$99.99/year
- Social component

<https://www.youtube.com/watch?v=zGVn8Nh4Rks>- 47 sec



Support for Writing

Low vision

Dysgraphia

Arthritis

English isn't primary language

Poor spelling and grammar





Device Accessibility



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



Windows logo + H



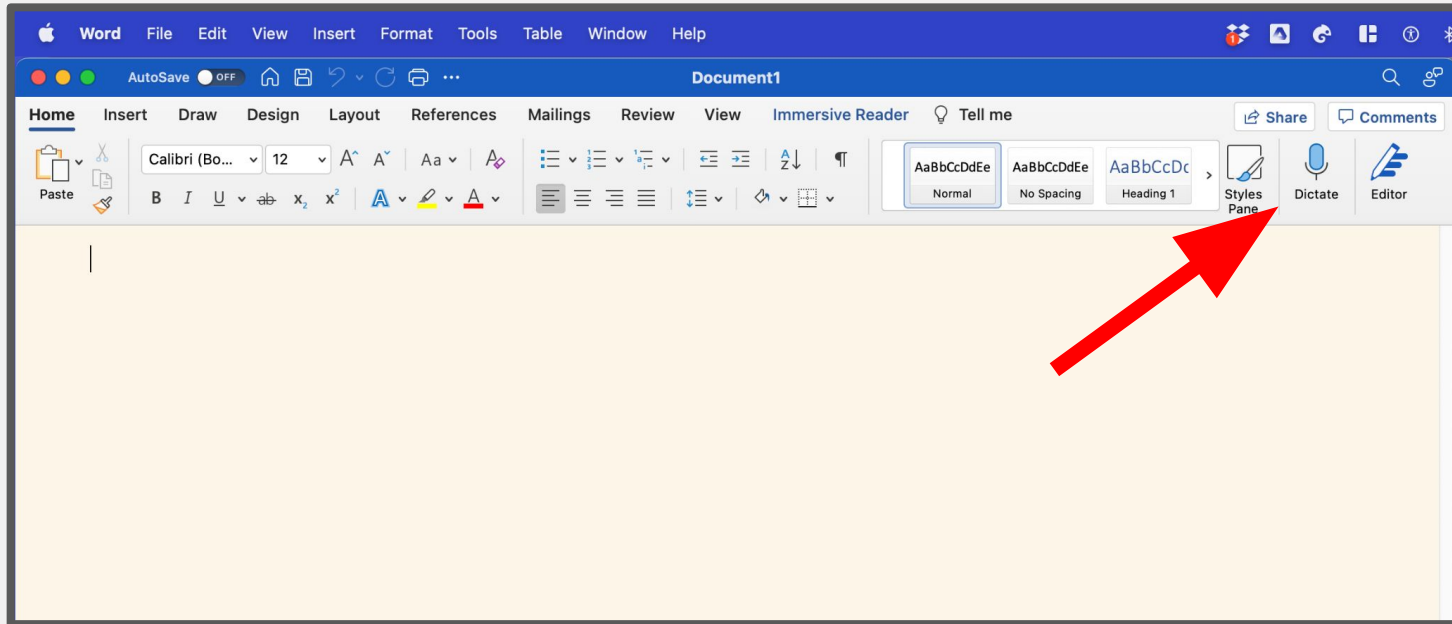
Mac- Fn Fn



Microphone icon or
Search + d

Shortcuts for dictation on
computers

Dictation in MS Word 365 and Word for Web



Potential Ways Generative AI can help with writing

Brainstorm Ideas

Check spelling and grammar

Help write an outline

Help writing an email for a job

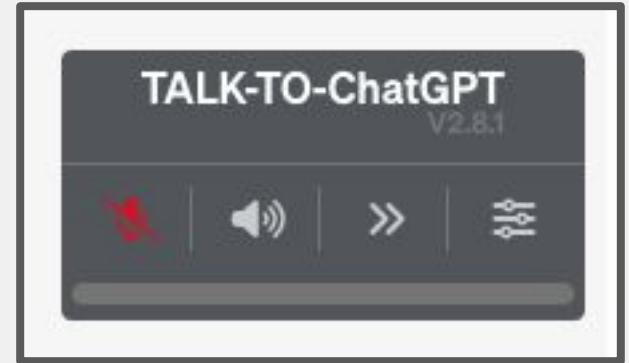
Provide feedback to improve writing

Help find informational Sources

“Prompt” - I am a high school student with anxiety. List 10 strategies that I can use to stay calm and regulate my emotions so I can focus and be productive when something upsets me.

Using ChatGPT with your voice

- Talk To ChatGPT Chrome Extension or Edge Add-ons
- Allows you to interact with ChatGPT using just your voice.
- Responds with text as well as speech
- Only works in Edge or Chrome desktop browser
- Free
- Works in multiple languages
- Start from ChatGPT homepage and log in- then click “start” to start talking.



Support for Challenges with Speaking and Hearing

Aphasia

Voice disorders

Autism

Hearing Impairment

Speech Challenges



Mobile phones- instant captioning and live speech

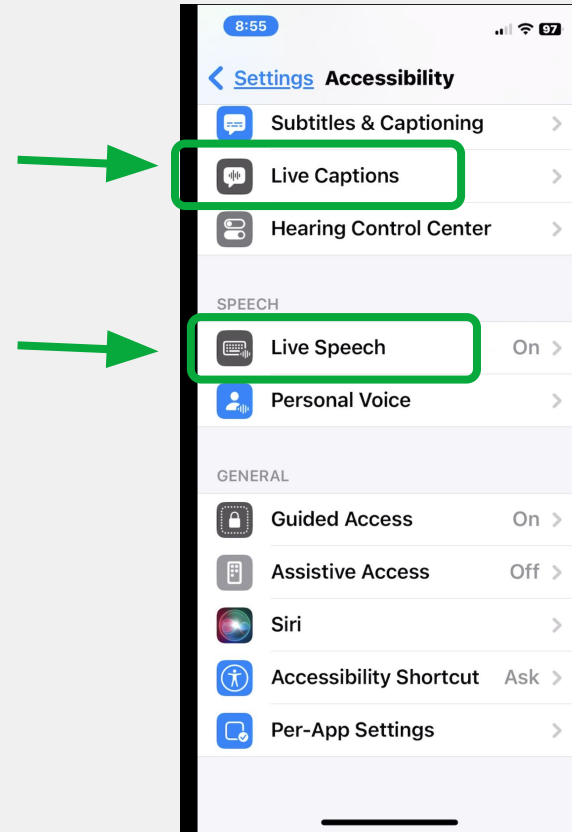
iPhone iOS 17 -

Live speech

- Triple click the side button then type and have words said aloud

Live Captions (beta)-

- spoken dialogue is turned into text and displayed in real time on the screen
- Captions can be shown to help follow the audio in any app such as facetime and when listening to podcasts.
- Use in live conversations



VoiceItt

<https://www.voiceitt.com/>

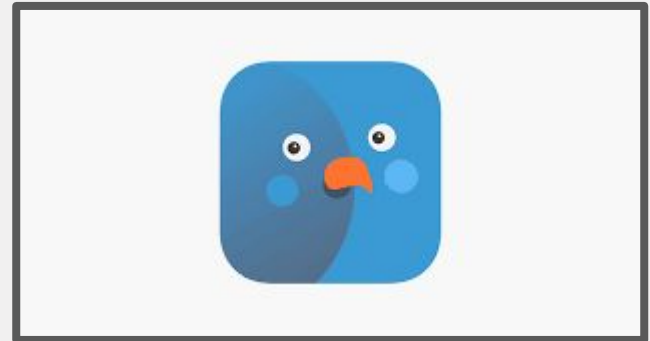
Speech recognition for non-standard speech

Integrates with Alexa

<https://help.voiceitt.com/video-how-to-use-voiceitt-with-alexa>

iOS app

Free



Support for Executive Functioning

Overwhelmed with too much to do

Missed appts

Executive Dysfunction

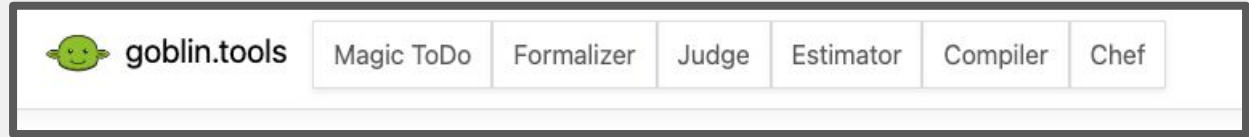
Procrastination

Stress and anxiety prevent task
initiation



Task management

- Stay digitally organized and plan ahead
- Break projects into small tasks
- Predict time tasks will take
- Check them off when complete



<https://goblin.tools/>- a collection of small, simple, single-task tools, mostly designed to help neurodivergent people with tasks they find overwhelming or difficult. Free online. Apps have in-app purchases.

Magic To do

Compiler

“The AI models used are general purpose models, and so the accuracy of their output can vary. Nothing returned by any of the tools should be taken as a statement of truth, only guesswork. Please use your own knowledge and experience to judge whether the result you get is valid.”

Support for Learning

ADHD

Learning Disabilities

Memory Challenges

Teacher shortages

Brain Injuries



Learning Assistant

KhanMigo-

<https://blog.khanacademy.org/teacher-khanmigo/>

<https://www.youtube.com/watch?v=9JreE4HmtNA>



Khan Migo In-depth video

<https://www.youtube.com/watch?v=rnlgnS8Susg>

The screenshot shows a split-screen interface. On the left is a Khan Academy problem page for 'Equations with parentheses'. The problem asks to solve for m in the equation $3 - 2(9 + 2m) = m$. Below the equation is an input field for m . On the right is the Khanmigo chat interface. The chat header shows 'Khanmigo beta' and 'AI power'. A message from the AI says: 'Oh, I see you're eager to find the answer! 😊 But remember, I'm here to help you learn how to solve it on your own. Let's start by looking at the equation: $3 - 2(9 + 2m) = m$. What do you think the first step should be?'. The chat input field contains the text 'Type message (do NOT share any personal data)'. At the bottom of the chat, a note says 'Khanmigo makes mistakes sometimes. Here's why.'

Equations with parentheses

CCSS.Math: 8.EE.C.7, 8.EE.C.7b

Solve for m .

$$3 - 2(9 + 2m) = m$$

$m =$

Stuck? [Review related articles/videos or use a hint.](#)

Khanmigo beta
AI power

This conversation is recorded and viewable by your teacher.

[Leave feedback](#) Rate this response

Tell me the answer!

Oh, I see you're eager to find the answer! 😊 But remember, I'm here to help you learn how to solve it on your own. Let's start by looking at the equation:

$$3 - 2(9 + 2m) = m$$

What do you think the first step should be?

Type message (do NOT share any personal data)

Clear chat

Khanmigo makes mistakes sometimes. [Here's why.](#)

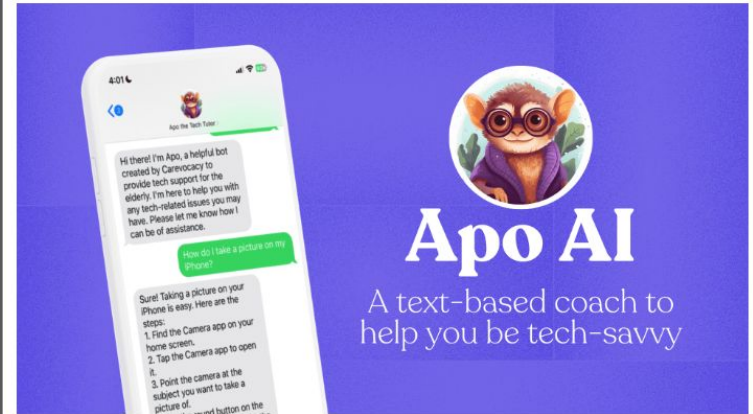
Need tech support? Apo AI may help

Apo AI: Artificial Intelligence for Older Adult Learners

(sign up for early access- still in beta mode)

<https://apotutor.com/>

Apo AI: The Digital Literacy Coach



A text-based coach to help you be tech-savvy.

Sign up for free. No credit card required.

Phone Number * Email Address *

[Receive Your First Text →](#)

Learning Assistants

<https://mindgrasp.ai/>











- Creates notes, summaries, flashcards, and quizzes
- Answers questions from PDFs, YouTube Videos, Zoom meetings, webinar recordings, podcasts and more



Learning Assistant

<https://cactus.ai/>



 Essay Writer	 Conclusion Writer
 Paragraph Generator	 Linkedin Summary Generator
 Hook Generator	 Question Solver
 Sentence Expander	 Math Word Problem Solver
 Sentence Rewriter	
 Story Generator	

Apps to improve specific skills

[Lumosity](#)

[Duolingo](#)

[Anki flashcards](#)



Please share in chat:

What did I miss?

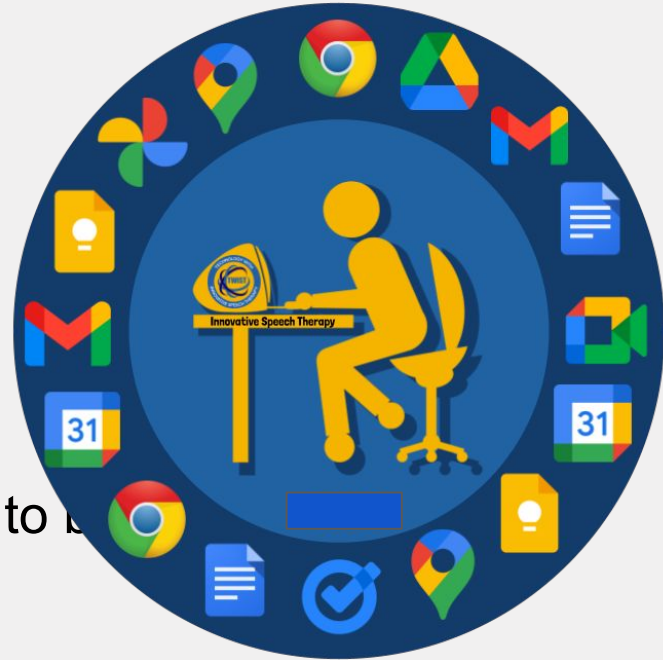
What piqued your interested?

Pick one new AI tool to pursue
and let us know why you chose
it and how it may help you.



Google Course- Coming in 2024!

- Google Docs
- Google Drive
- Google Calendar and Tasks
- Google Keep
- Google Bard
- Google Chrome
- Chrome Extensions
- Email Joan@innovativespeech.com to learn more



Elder/Ageless Tech Advisor Course

Self-paced course with all recordings from live events available at a discount until the end of 2023. Email Joan@innovativespeech.com for \$50 discount code until end of 2023.

Next cohort planned for March, 2024



Free Private Facebook Group - IST Tech Savvy Solutions



Innovative SPEECH THERAPY Presents:

IST TECH SAVVY SOLUTIONS

JOIN US

Connect. Inspire. Thrive.

Let's help each other.
Everyone is welcome to
join!!

Just answer a few questions

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



Innovative Speech Therapy

Hello and welcome!

Innovative Speech Therapy offers a uniquely effective approach to therapy empowering individuals, families and professionals with state-of-the-art local and long-distance therapy, coaching and training programs.

Joan Green is a licensed and certified speech-language pathologist with many years of experience helping children and adults who have communication, cognitive, literacy and learning challenges.

[Let's get started](#)[Join our email list](#)

Improving Communication, Cognition and Productivity with Tech-Savvy Strategies, Solutions and Support

[Let's Chat](#)

www.innovativespeech.com

Pick a time for Joan to call you to figure out your next steps toward becoming more tech savvy!

