PWC G8 Gals@Technology

Adaptive/Assistive Technology

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- 40+ years in the IT field, 26 years at Purdue
- Wrote his first program (FORTRAN) when he was in 5th grade. Purdue degree in Computer Science.
- Areas of interest – systems development, networking, security
- In retirement, Scott writes a technology column for the Purdue Retirees Newsletter and does presentations for the Purdue Women's Club
- Scott and Peggy enjoy life with their kids and grandkids – especially on trips to DisneyWorld (next trip June '23. Planning in full swing.)
- Scott grew up in Chicago and Peggy grew up in Fish Lake, Indiana (city boy meets farm girl at Purdue story – and the adventure continues …)

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Current Topics

- EVERYTHING AI
  - Fear of the unknown
  - Possibly needs regulations?
  - Academic dishonestly
  - Microsoft announces "Copilot"
    - ChatGPT in Microsoft Office 365
    - Adding to Powertoys (direct access in Windows 11)
  - Google working on "Bard" (conversational AI service)

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Badger

- Badger is a closed captioning smart badge that is used to convert speech to text in real time in more than 50 languages.

- The wearable badge first captures the speaker's voice and transmits it to a smartphone. Next, the smartphone converts the audio to text and transmits it to the smart badge. The smart badge then displays the text like closed captions.

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Ara

- Ara is a wearable, hands-free device with sensors that transcribe the environment, providing blind or visually impaired users with support to move faster and safer throughout their everyday lives.

- Ara's sensors gather real-time information from the wearer's surroundings (head, chest, and below the waist), warning them about potential hazards via haptic feedback. Ara's main features (obstacle detection and straight-line navigation) communicate to the user through haptic feedback. It has a sequence of vibrations specific for each situation.

- The assistive device cleverly adapts to the wearer's walking speed; if the user is walking quickly, the technology will detect potential obstacles from further away.

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Xander Glasses

our glasses for the first time.

You will never guess what happened next!

- Xander Glasses are smart glasses that provide real-time captions for conversations in real-time to help individuals with hearing loss.

- The lightweight smart glasses show captions unobtrusively, allowing the wearer to follow conversations while looking directly at the speaker and surroundings.

- Xander Glasses allow people who are hard of hearing to clearly understand who is speaking to them, whether at home, work, or in a noisy public venue. This helps people feel more confident and relaxed during conversations.

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Orcam MyEye2

- This small device simply attaches to any pair of eyeglasses. It's a wearable artificial vision device for people who are blind or have limited vision and reading or learning disabilities or dyslexia, including seniors with low vision as well as slow readers at school or in the workplace.
- Read Text
- Recognize Faces
- Identify Products
- Identify Money

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Windows Tools

- https://www.microsoft.com/en-us/windows/accessibility-features?r=1
- Narrator – screen reader
- Display and Vision settings
- Color Filters
- Live captioning

  Captions let you read the words spoken in the audio portion of a video, TV show, or movie. To define how the captions appear in Windows and some Windows apps, you can select one of the predefined caption options or customize an option to better suit your needs.

  Select (Start)
  > **Settings** > **Accessibility** > **Captions**.

Subtitles
○ Off
● English [TXT]

outside the meeting today, hugging.
Cheering.

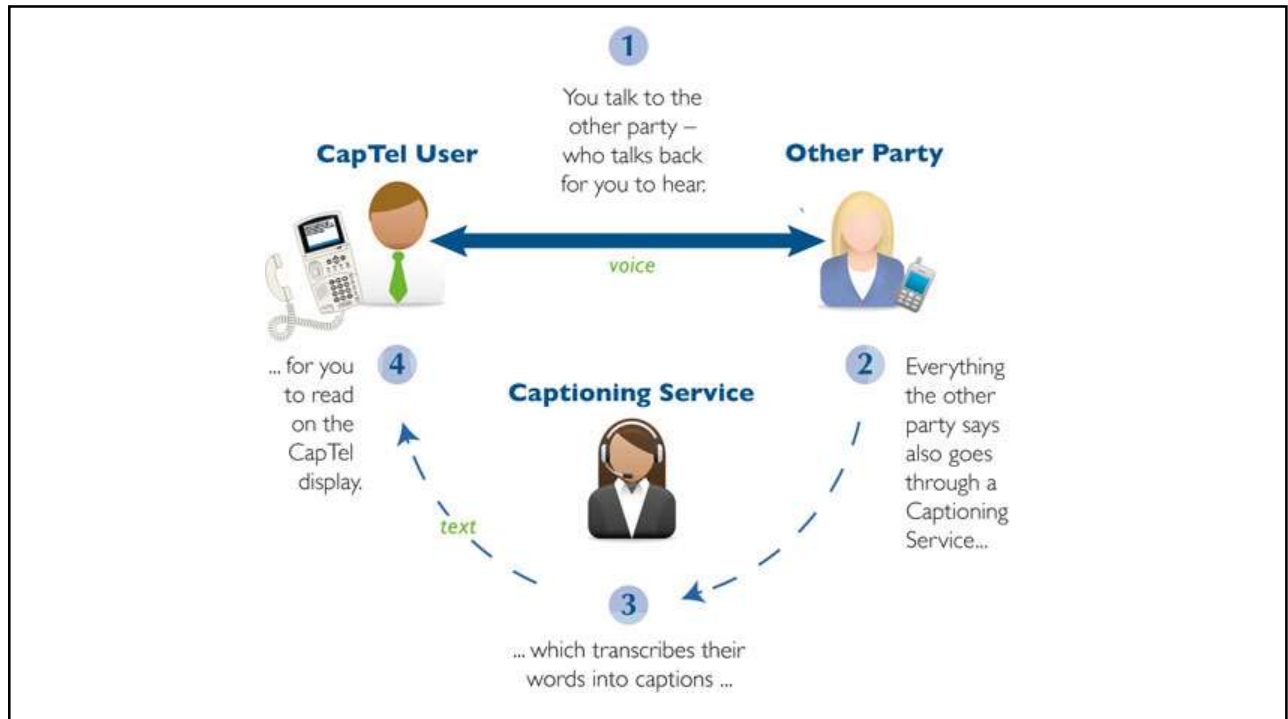...ice are investigating the deaths of a woman and child in Glenelg North

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Captel Phone

- CapTel captioning service is part of a federally-funded program, so there is no charge to people with hearing loss to use this service. Whether you receive a CapTel phone through a program or purchase a CapTel phone directly, there are no ongoing costs beyond what you already pay for your current telephone service.
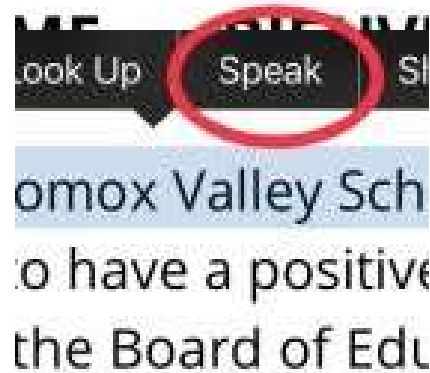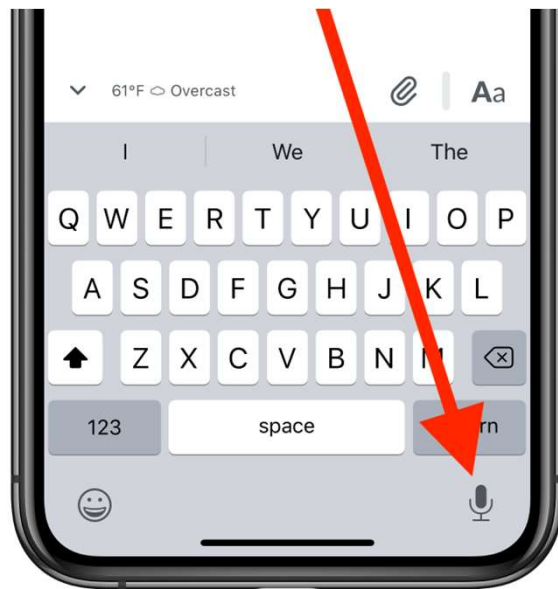- Internet access required

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iOS Features

- iOS has **text-to-speech** (TTS) options that are useful with reading issues. Speak Selection lets you select blocks of text to be read aloud. And Speak Screen reads entire pages of text.

- For both TTS options, you can choose to have the words highlighted as they are spoken.

- The voice and reading speed for the TTS can also be changed. If a word isn't read correctly, the way it's said can be adjusted using the Pronunciations feature.

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iOS Features

- There are several iOS tools that can help with writing. The first is the built-in **Dictation (speech-to-text)** feature. You can activate it by pressing the microphone button on the bottom-left of the onscreen keyboard. This feature lets you **write with their voices** instead of typing.

- There's also built-in word prediction called QuickType in the onscreen keyboard. As you type, it suggests words to use in their writing.

- Both Dictation and QuickType are active by default. They can be turned on and off by going to General > Keyboard.

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Chrome Add On Extensions

- Available in Chrome Webstore
- ClaroRead - This tool is not only a reader that includes word prediction and spelling, it includes Speech to Text.
- Text Help – works with Chrome, Windows, Mac, iPad and Android Tablets, and Microsoft Edge. A discreet toolbar offers dyslexic users a range of intuitive support tools
- Bookshare WebReader - the world's largest online library of copyrighted content for people with qualified print disabilities. Installing this Chrome extension enables text-to-speech and word-level highlighting.

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Handshoe Mouse

- Ambidextrous, can be used by the left or right hand, switching between hands is easy
- Dual connections, can be used as a wired mouse or wirelessly via Bluetooth
- Available in three sizes to accommodate a wide range of hand sizes and users
- Improved ergonomic shape and enhanced thumb joint support
- Internal rechargeable battery
- Two buttons and scroll wheel
- Compatible with Windows and Mac

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"Breed? He's a Pointer...and a Clicker."

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