


# Building a More Accessible Future for Everyone

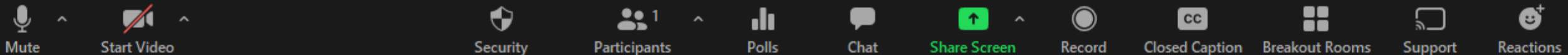
CREATING THE NEXT®



# Live Captions Provided

## Two Options:

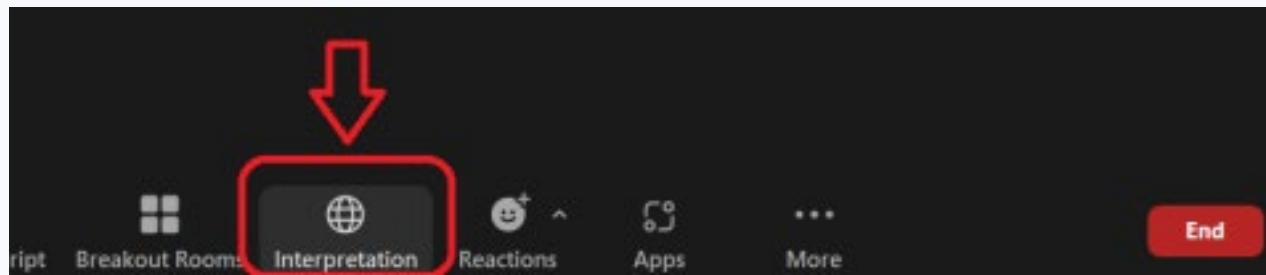
1. Access StreamText link available in the “Chat” (“Chat” control in Zoom toolbar)
2. Access the “Closed Captions” option (“Closed Captions” control with “CC” above it in Zoom toolbar)



# Sign Language Interpretation View

## Interpretation View for Participants

- Sign language interpreters are shown in dedicated video channels
- Participants can resize or relocate the video window as needed.
- Interpretation option on the Zoom toolbar



# Today's Presenters

**Martha Rust, Interim PI for Tools for Life/Edu and Development Manager**

- Oversees Tools for Life, statewide Assistive Technology Program
- Works with individuals, employees, families on finding AT that can assist with being more independent in work/ school/ community
- Creates and train on AT Strategies and Solutions
- Works with all ages and disabilities



**Johan Rempel ICT-UX Quality Assurance Manager CIDI**

- oversees the UX/ICT Accessibility unit within CIDI
- previous experience and training as an AT Specialist, Vision Rehabilitation Therapist, Orientation & Mobility Specialist, and Digital Accessibility Specialist.
- oversees several Information and Communication Technology (ICT) Accessibility initiatives, including the AccessGA Project.



# Center for Inclusive Design and Innovation (CIDI)

# CIDI's Mission and Purpose

CIDI's mission is to improve the human condition through equal access to technology-based and research-driven information, services, and products for individuals with disabilities.



# Products and Services

- **Braille Services:** produces customized projects from both print materials and electronic text including partial books and chapters or graphics only using cutting-edge technology
- **E-Text Department:** provides high-quality e-text in many formats such as PDF, DOC, DAISY, and HTML
- **Captioning and Audio Description Services:** makes classrooms, meetings, labs and other audio environments fully accessible for deaf or hard-of-hearing, including remote captioning and captioned media

# Additional Products, Services & Research

- **Tools for Life (TFL), Georgia's Assistive Technology Act Program:** Offers access to, and acquisition of, assistive technology for Georgians of all ages and disabilities in order to live, learn, work, and play independently in the communities of their choice
- **Accessibility Compliance, Best Practice and User Experience:** We focus on accessibility and usability needs through evaluations, testing, training, technical assistance, and comprehensive website/application accessibility evaluations
- **Research** focuses on accessible environments for people with disabilities including students and aging individuals in the built and virtual environment.



AccessGA is a joint project of the State ADA Coordinator's Office – Georgia State Financing and Investment Commission (GSFIC), Georgia Technology Authority (GTA) and Georgia Tech's Center for Inclusive Design & Innovation (CIDI). AccessGA's purpose is to support State of Georgia agencies with Information and Communication Technology (ICT) accessibility, promoting equal and timely access for employees and customers with a wide range of disabilities.



# Georgia Agencies Served Under AccessGA

More than 35 state agencies and  
Higher Ed Institutions Served

AOC	DPH	GDCS	GTA
DBHDD	DPS	GA Dept. of Law	GVRA
DDS	EPD	GA Public Libraries	Jekyll Isl. Park Serv.
Dept. of Juv. Justice	GBA	GGG	ODSO
DNR	GCDD	GPB	Office of the AG of GA
DOAS	GDC	GSFC	Sec. of State's Office
DOL	GEMA	GSFIC	Univ. System of GA

# Finding YOUR Assistive Technology Program

# What is the AT Act?

- Legislation in 1988 to help increase awareness, access, and acquisition of assistive technology.
- The law was reauthorized in 2004 with significant changes converting it from a competitive grant program to a formula grant program for State AT Programs.
- The 2004 reauthorization also authorized and described a set of state level and state leadership activities for State AT Programs to implement. Begins June 1<sup>st</sup> as the 21<sup>st</sup> Century Act.



# Tools for Life

Tools for Life (TFL), Georgia's Assistive Technology Act Program, increases access to and acquisition of assistive technology devices and services so Georgians of all ages can live, learn, work, and play in the communities of their choice.

The screenshot shows the homepage of the Georgia Tech Tools for Life website. At the top, the Georgia Tech logo is on the left, and the 'TOOLS for LIFE' logo is on the right, with the text 'Georgia's Assistive Technology Act Program' below it. A navigation bar contains links for HOME, ASSISTIVE TECHNOLOGY, TFL NETWORK, CALENDAR OF EVENTS, and social media icons for YouTube, Facebook, and Twitter. A search bar is on the right. On the left side, there is a vertical menu with links: TRAINING, FUNDING, PUBLICATIONS, TFL WIKI, MEET THE TFL TEAM, MEET THE ADVISORY COUNCIL, DIRECTIONS/MAP, JOIN OUR MAILING LIST, HOW CAN WE HELP?, AT REFERRALS, and DAS/CARES ACT REFERRALS 2021. The main content area features a large banner with the text 'Tools for Life and COVID-19' over a background of colorful virus particles. Below the banner is a 'Welcome to Tools for Life' section with a paragraph: 'Tools for Life, Georgia's Assistive Technology Act Program, is dedicated to increasing access to and acquisition of assistive technology (AT) devices and services for Georgians of all ages and disabilities so they can live, learn, work and play independently and with greater freedom in communities of their choice.' To the right of the banner, there are several featured sections: 'EDTRADE - GEORGIA'S K-12 ASSISTIVE TECHNOLOGY REUSE PROGRAM' with the EdTRADE logo; 'COVID-19 RESOURCES FOR PEOPLE WITH DISABILITIES'; 'WEBINARS' with dates 'NOV 10' and 'DEC 8' and links to 'Wired Wednesday: AT Bits & Bytes with TFL and WATAP'; 'TOOLS FOR LIFE APPFINDER' with an image of a smartphone and the tagline '...for Living, Learning, Working, and Playing.'; and 'AT ONLINE EXCHANGE' with the gTRADE logo.

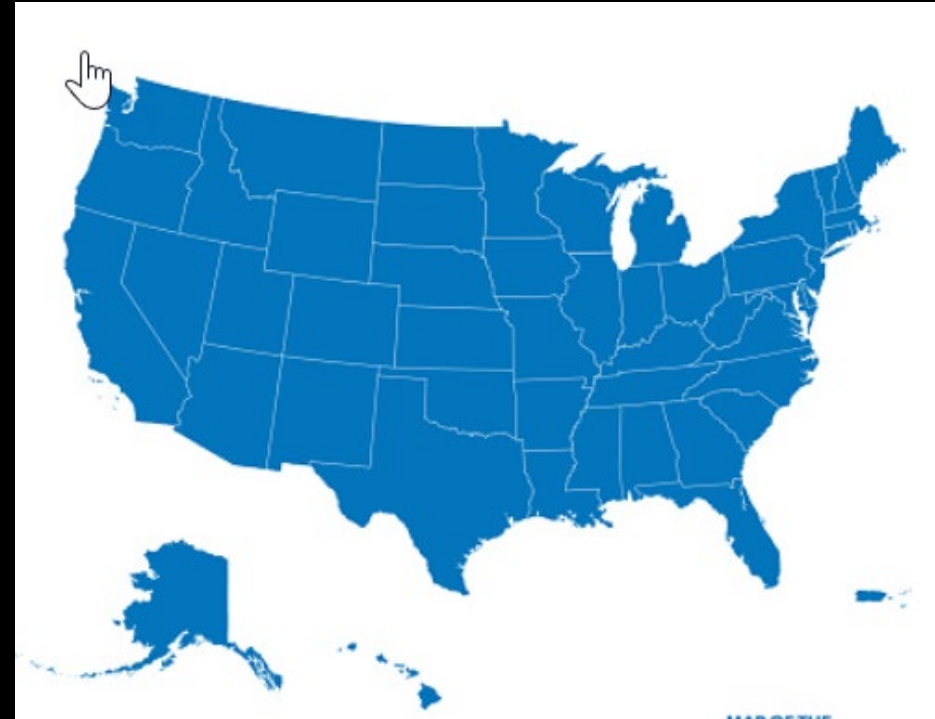
# What is Assistive Technology?

Assistive Technology (AT) is any item or piece of equipment that is used to increase, maintain, or improve the functional capabilities of individuals with disabilities in all aspects of life, including at school, at work, at home, and in the community.



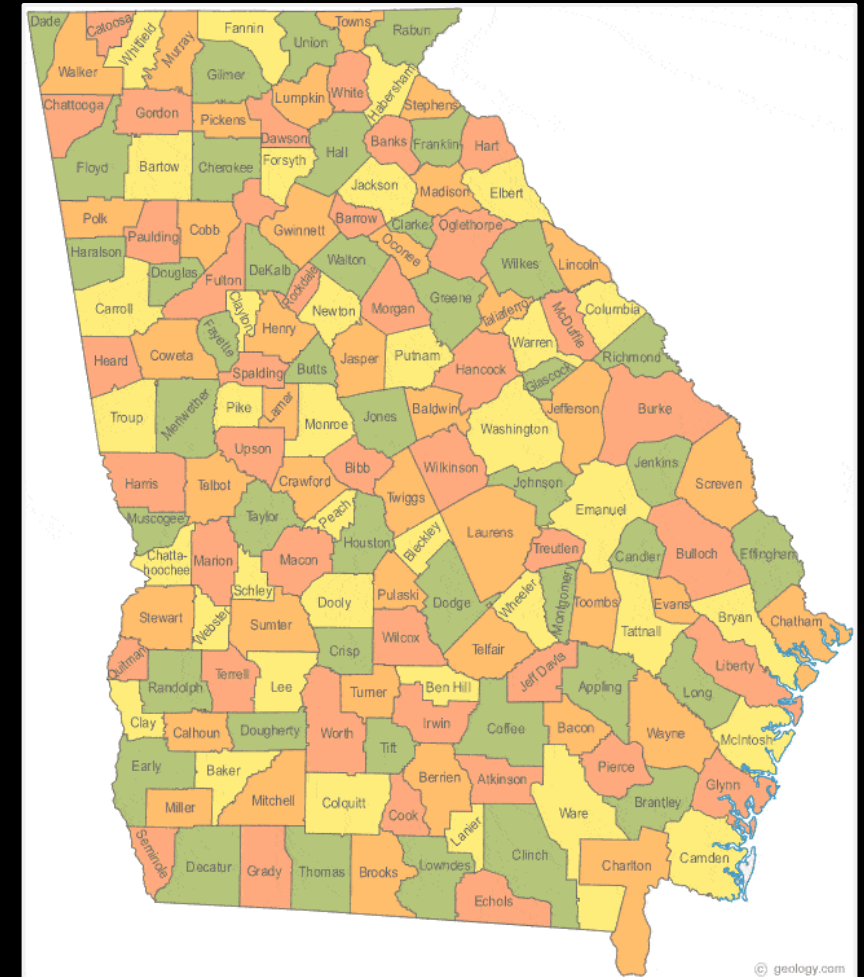
# Who has an AT Act Program?

- All 50 States
- 4 U.S. Territories
  - American Samoa
  - Guam
  - Northern Mariana Islands
  - U.S. Virgin Islands
- District of Columbia
- Puerto Rico



# Tools for Life Network

- Assistive Technology Resource Centers
- Outreach Centers
- Centers for Independent Living
- Aging and Disability Resource Centers





# Core Services of AT Programs

As the Assistive Technology Program, we are charged with core activities:

1. Information & Assistance
2. AT Demonstrations
3. AT Equipment Lending
4. Training
5. Funding Education & Solutions
6. AT Reuse



# AT Services Flow

## ASSISTIVE TECHNOLOGY (AT) SERVICES FLOW

How do you access information about and acquire assistive technology devices for yourself, family members, or clients to enhance life, work, and play?

### Access

### Information & Assistance

Contact your State Assistive Technology Program for more information on AT devices and usage.



### Device Demonstration

AT professionals will demonstrate different devices according to your particular needs.



### Device Loan

You can borrow devices to try at home, school, work, or play.



### Reutilization

### Acquisition

You can acquire the desired device. Some gently used devices may be acquired at little or no cost.



### State Financing

Other financing options are also available. Contact your state AT program to learn about all your options.



**ATAP**

Find your local AT program

<https://www.at3center.net/stateprogram>

# Find YOUR Assistive Technology Program – at3center.net

The screenshot shows a web browser window with the URL at3center.net. The navigation bar includes links for HOME, BLOG, and CONTACT US, along with a search icon. A dropdown menu is open, showing 'State/Territory AT Programs' (highlighted with a yellow box), AT Act Grantees, Explore AT, Events, Publications, Resources, and About. Below the navigation is a blue banner with the text 'National Assistive Technology Act Technical Assistance and Training (AT3) Center'. The main content area features a video player with a play button and a 2:57 duration. The video shows a smiling woman with glasses. To the left of the video, there is text describing the AT3 Center's services: 'AT3 Center provides training and technical assistance for all AT ACT Section 4 State and Territory Assistive Technology Programs'. Below this, there are two columns of text: 'Digital Accessibility Courses' and 'Assistive Technology'. The 'Digital Accessibility Courses' section mentions 'Find out about new self-directed Digital Accessibility Courses'. The 'Assistive Technology' section mentions 'Find out about the Assistive Technology Act and the resources available to you through our website.'

# Why is Digital Accessibility Important?

- World Wide Web
  - Information at our fingertips
- Applications
  - Employment
  - School
- Daily Life Items
  - Tickets
  - Banking
  - Medical
  - Calendars



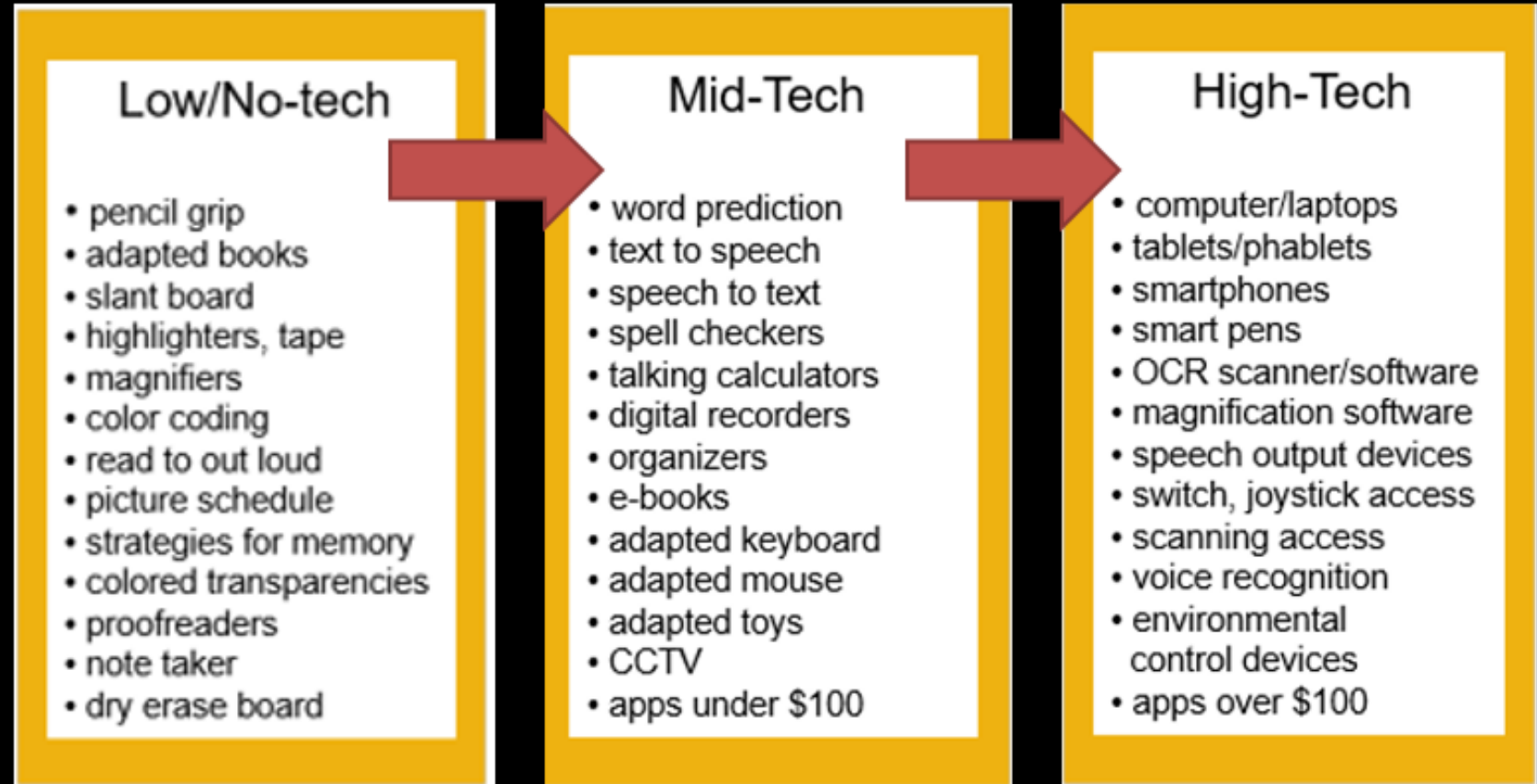
# Finding the Right Solution



# Assistive Technology Continuum

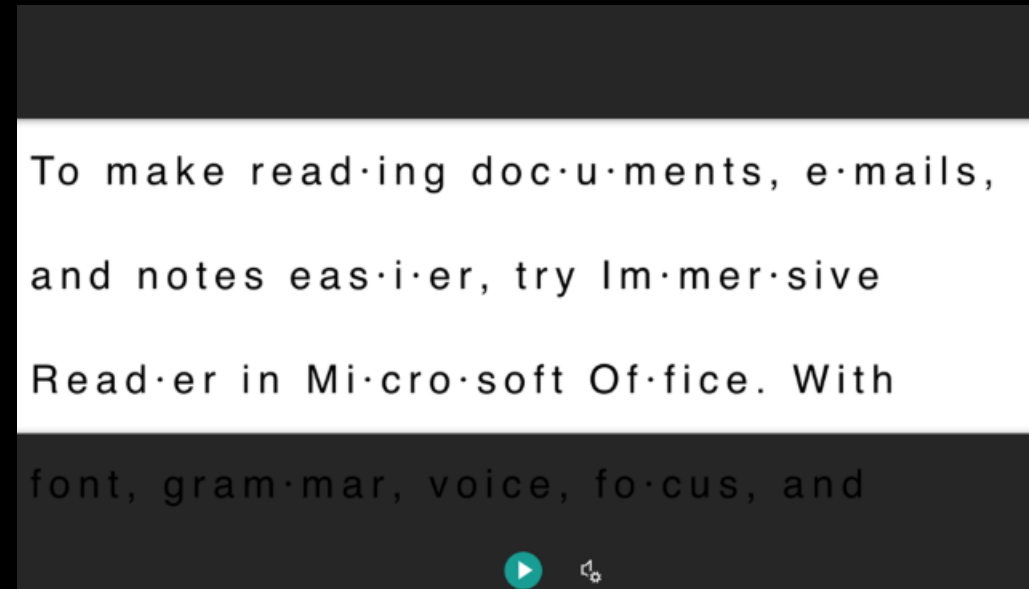
## Observations and “Hanging out with Intent”

Assistive Technology is a *continuum of tools, strategies, and services* that match a person’s needs, abilities, and tasks.



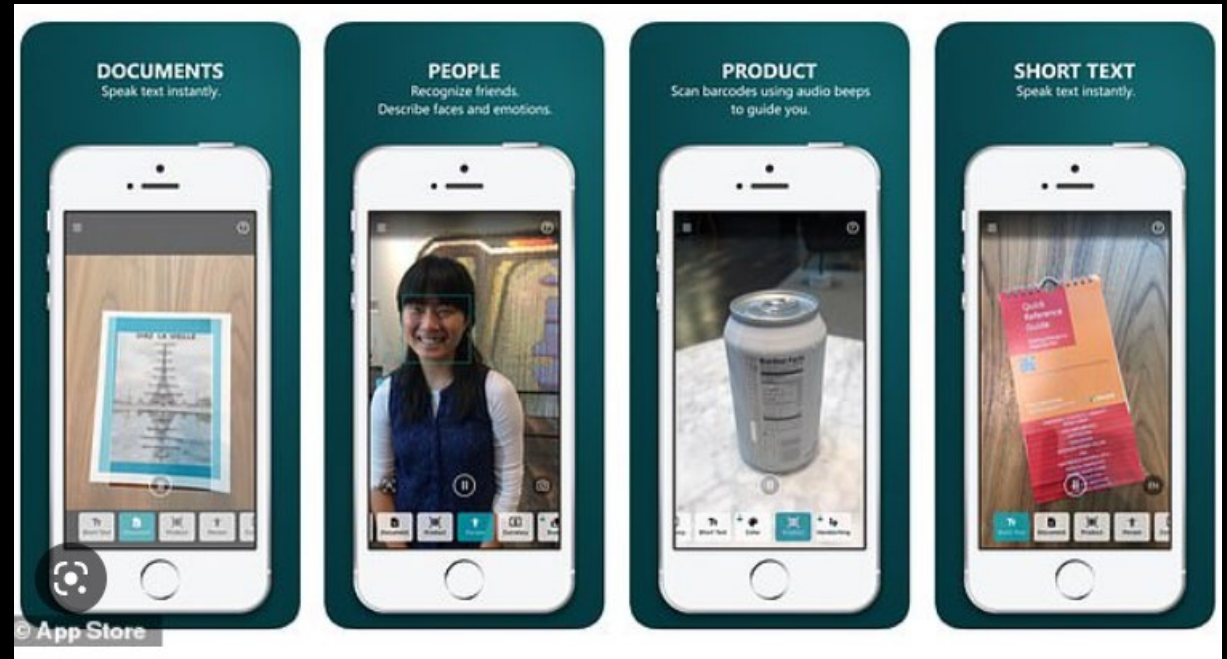
# Built-In Solutions

- PCs
  - Ease of Access Center- Narrator
  - Microsoft- Read Aloud; Immersive Reader
- Mac
  - VoiceOver
- Microsoft Edge and Chrome
  - Extension-some are free
    - Helperbird
- Software
  - Texthelp Read & Write
  - ClaroRead



# Smart Phones/Apps

- Built-in Accessibility
  - VoiceOver and Spoken Content
- Seeing AI
- Speechify
- VoiceDream Reader
- Speech Central
- OneStep Reader
- CaptiVoice





# AudioBook – BOOM!

## Growing Fast

- In 2022 \$5.4 Billion
- Estimated by 2030 \$35 Billion
- Amazon reported that Audiobooks was most popular format of 50% of books that hit #1

## Reasons:

- Accessibility- several free
  - Project Gutenberg/ Lit2Go/ Bookshare/ BARD
- Apps
  - Audible/ Overdrive/ Libby/Kindle/
- Read Anywhere
  - Exercising/Work/Driving / Riding/ Cleaning/ etc.
- Ease of Reading on the Go
  - Phone
  - Tablet
  - Headphone



# The Essential Relationship Between AT & Digital Accessibility

# Access to AT Alone DOES NOT Automatically Assure Full Access

It is essential that the correct AT solution is in place, and for the digital environment to be accessible, in order to ensure full access to the end user.

An individual using AT does not automatically get the same information from a website or engage with the same services on a mobile app just because they are using AT.



## Section 504 and the ADA



# Section 504 Celebrating 50 Years!

Civil Rights Law Impacting Education Programs  
and Activities

Section 504 was historic because for the first time people with disabilities were viewed as a class – a minority group. Previously, public policy had been characterized by addressing the needs of particular disabilities by category based on diagnosis.



**Section 504**

of the Rehabilitation Act of  
1973

# Kitty Cone, Disability Rights Activist, on the Impact of Section 504

“If I thought about why I couldn’t attend a university that was inaccessible, I would have said it was because I couldn’t walk, my own personal problem. Before section 504, responsibility for the consequences of disability rested only on the shoulders of the person with a disability rather than being understood as a societal responsibility. Section 504 dramatically changed that societal and legal perception.”



# Judy Heumann

## “Mother of the Disability Rights Movement”

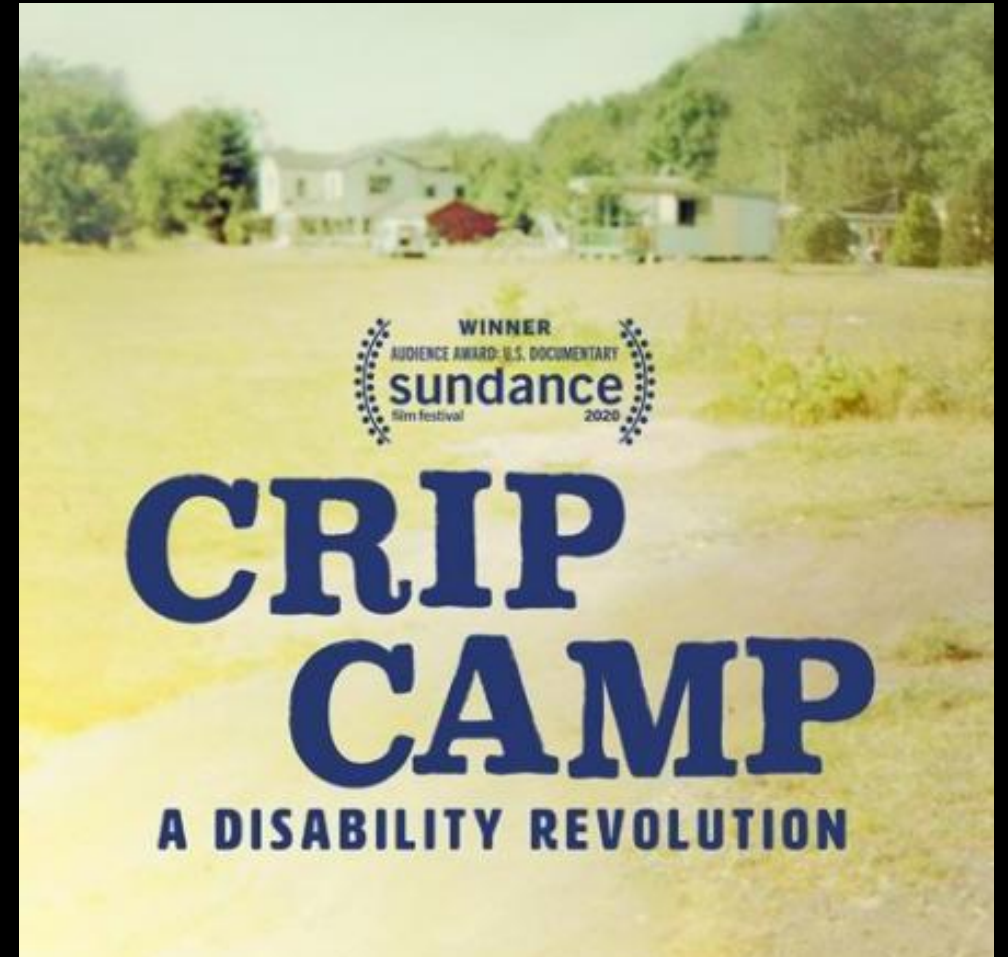
In 1977, she helped lead a 26-day occupation of a federal government building in San Francisco – the celebrated “504 Sit-in” – as part of nationwide action that forced the Carter administration to sign the section 504 regulations that finally enacted the same legislation, ultimately providing the basis of the widely respected 1990 Americans With Disabilities Act.



## Judy Heumann (1947-2023)

"Disability only becomes a tragedy when society fails to provide the things we need to lead our lives — job opportunities or barrier-free buildings, for example. It is not a tragedy to me that I'm living in a wheelchair."

— Judy Heumann



Crip Camp Trailer: <https://www.youtube.com/watch?v=XRrls22plz0>



# ICT Refresh (Section 508 Refresh)

- U.S. Access Board Final Rule published Jan. 18, 2017, harmonized with WCAG 2.0 (Level AA)
- Applies to federal government agencies
- Many state and local governments have adopted the ICT Refresh and/or the WCAG standards as statutes, regulations, or policies



# The Birth of the ADA



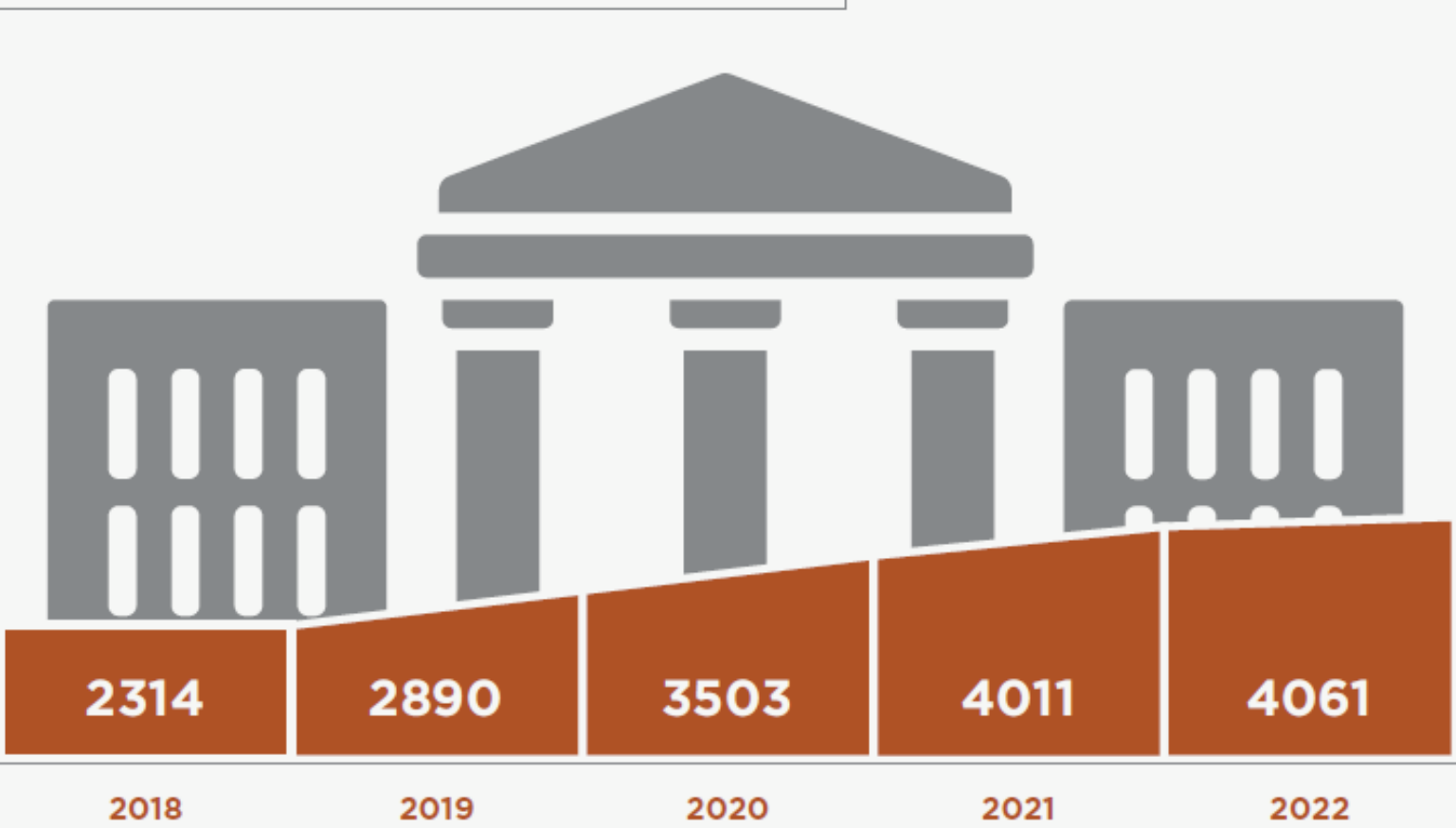
The ADA is a civil rights law that prohibits discrimination against individuals with disabilities in all areas of public life, including:

- Jobs
- Schools
- Transportation
- All public and private places that are open to the general public

Emphasis placed on the ‘spirit’ of the law, not just the ‘letter’ of the law

# ADA Digital Accessibility Lawsuits

Number of cases between 2018 and 2022



- 2018: 2314 cases
- 2019: 2890 cases
- 2020: 3503 cases
- 2021: 4011 cases
- 2022: 4061 cases

Source: UsableNet

# S.4998 - Websites and Software Applications Accessibility Act

- Proposed legislation introduced in the US Congress in September of 2022
- Its purpose is to establish uniform accessibility standards for websites and applications of employers, employment agencies, labor organizations, joint labor-management committees, public entities, public accommodations, testing entities, and commercial providers, and for other purposes.



# DOJ NPRM Publication: Nondiscrimination on the Basis of Disability: Accessibility of Web Information and Services of State and Local Governments

- Office of Information and Regulatory Affairs
- Specific to ADA Title II
- NPRM: 05/00/2023 – 07/00/2023

The Department intends to publish a Notice of Proposed Rulemaking (NPRM) to amend its Title II ADA regulation to provide technical standards to assist public entities in complying with their existing obligations to make their websites accessible to individuals with disabilities.



# Brief Overview of WCAG

# Web Content

## Accessibility Guidelines (WCAG)

Web Content Accessibility Guidelines (WCAG) has been developed through the W3C process in cooperation with individuals and organizations around the world, with a goal of providing a single shared standard for web content accessibility that meets the needs of individuals, organizations, and governments internationally.



## Introduction to WCAG 2 – W3C.org

- WCAG is intended to be a living standard that changes as the web changes
- Content conforming to WCAG 2.1 or higher will also conform to WCAG 2.0
- WCAG 2.1 does not replace WCAG 2.0, WCAG 2.2 won't replace 2.1
- WCAG 2.2 expected to be released later this year
- The W3C recommends using the most recent version when developing or updating content



# White House Accessibility Statement

“Our ongoing accessibility effort works towards conforming to the Web Content Accessibility Guidelines (WCAG) version 2.1, level AA criteria. These guidelines not only help make web content accessible to users with sensory, cognitive and mobility disabilities, but ultimately to all users, regardless of ability.”



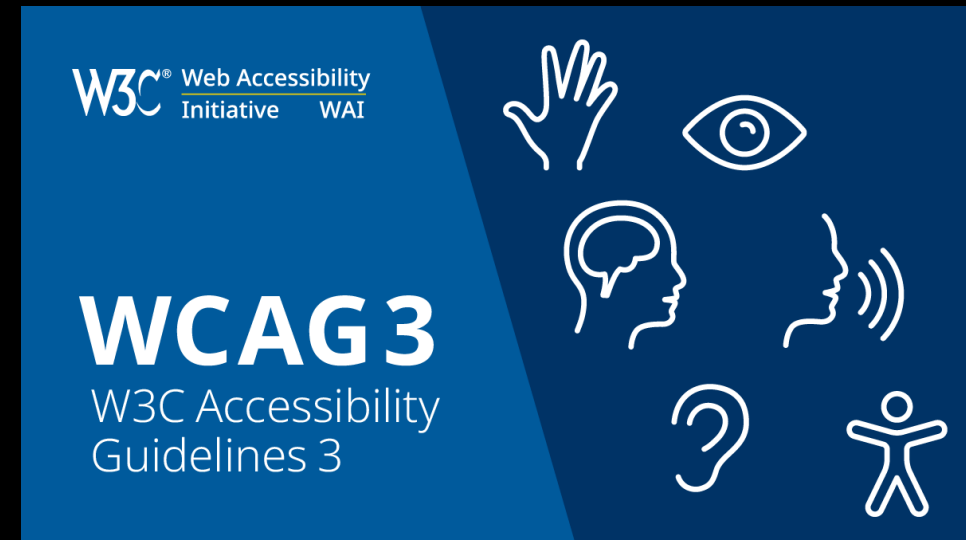
# WCAG Quick Reference Guide

Customizable quick reference to WCAG (Level A, AA, AAA)

The screenshot shows a web interface for the WCAG Quick Reference Guide. On the left is a 'Filter' sidebar with sections for 'Visual Design', 'Levels', and 'Techniques'. The 'Visual Design' section lists various techniques like animation, audio, auto complete, autoplay, buttons, captcha, carousels, and changing content. The 'Levels' section has checkboxes for Level A, Level AA, and Level AAA. The 'Techniques' section has a checkbox for Sufficient Techniques. The main content area on the right has a yellow header bar stating 'Selected Filters: WCAG 2.1: success criteria for levels A and AA and all techniques.' Below this, the content is organized into Principle 1 - Perceivable, Guideline 1.1 - Text Alternatives (highlighted in blue), and 1.1.1 Non-text Content - Level A. A 'Show full description' link is visible under 1.1.1.

# WCAG 3 (Working Draft)

- WCAG 3
  - According to W3C, it will not develop into a standard until at least “a few years.”
  - Rating system of 0 (very poor) to 4 (excellent)
  - Based on “outcomes” rather than the binary “true/false” statements of previous versions



# Best Practice: Accessibility and Usability by End User

- Include people with disabilities throughout every aspect of the project
- Ensure continued feedback is received by people with disabilities and/or AT users on a regular basis as content is uploaded and new features are added
- Provide an easy and effective means for all users to provide additional feedback on barriers and challenges they may experience



# The Need for a Cultural Change, Not Just a Change in Coding

# A Quote from a Name You'll Recognize

We do not need pity, nor do we need to be reminded that we are vulnerable. We must be treated as equals — and communication is the way we can bring this about.

# Louis Braille

- 1809 – 1852
- Inventor of braille
- Adapted for use in languages worldwide



# Questions?





## Contact Information

- Johan Rempel: [jrempel3@gatech.edu](mailto:jrempel3@gatech.edu)
- Martha Rust: [martha.rust@gatfl.gatech.edu](mailto:martha.rust@gatfl.gatech.edu)