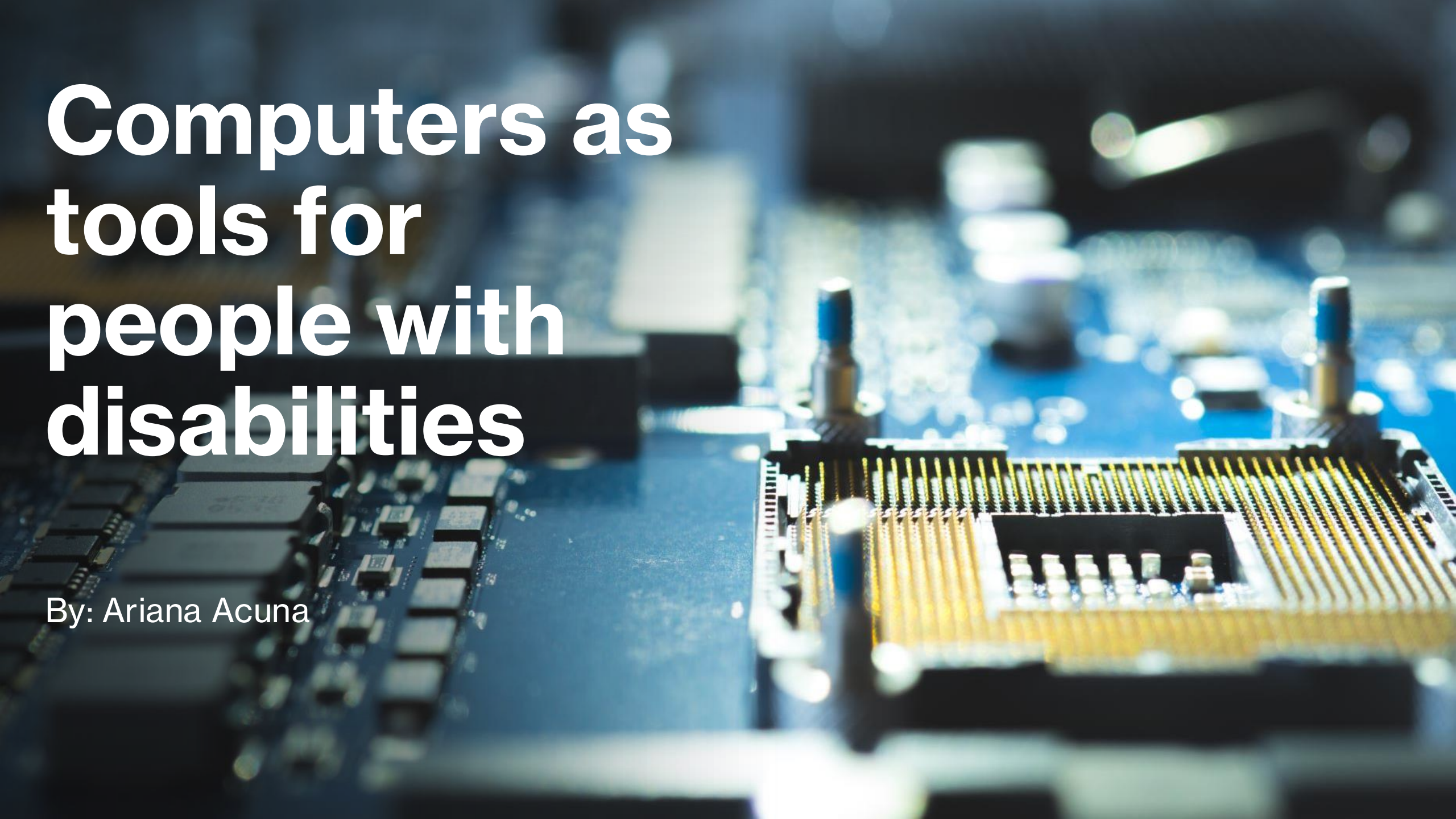


Computers as tools for people with disabilities

By: Ariana Acuna





Introduction

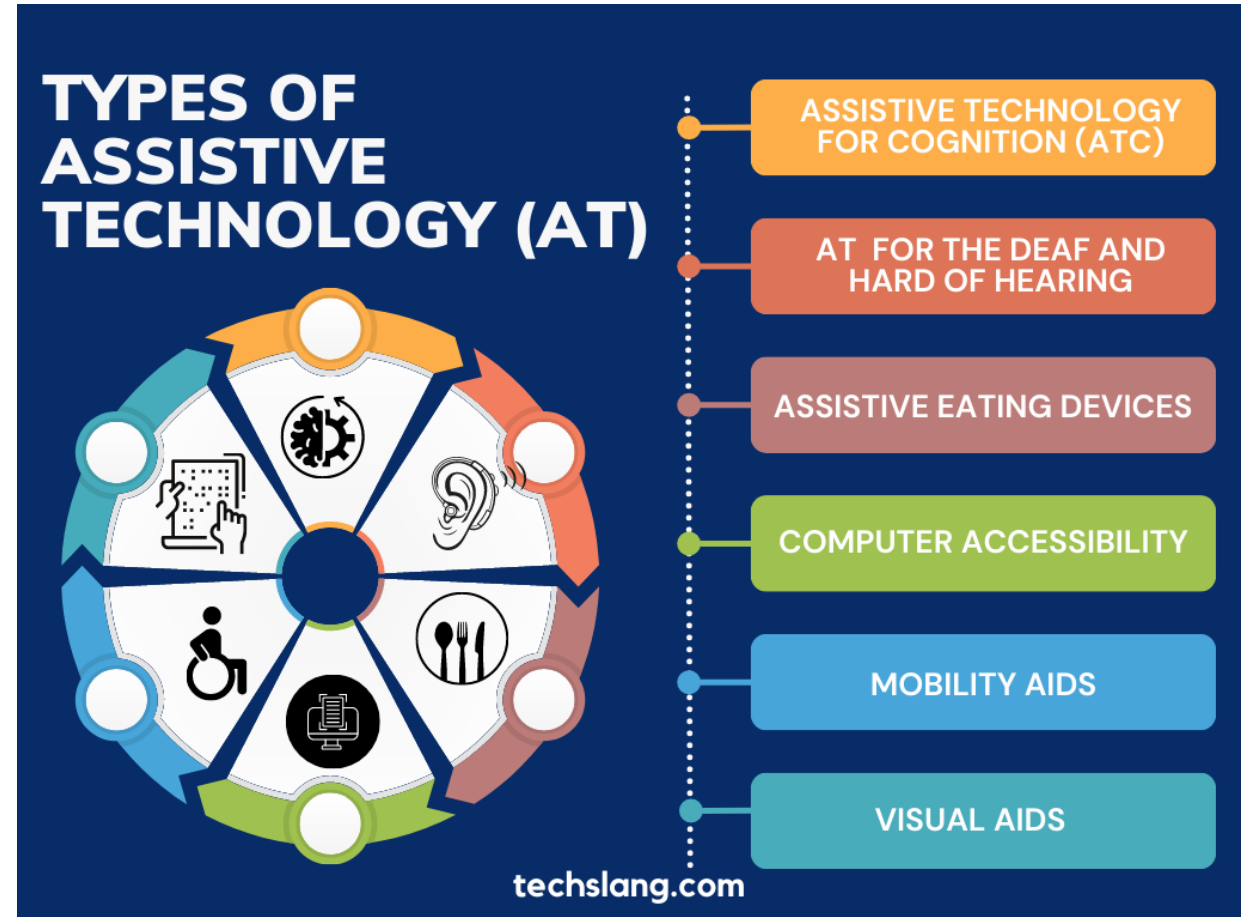
- People with disabilities have adapted for decades
 - Deaf community + ASL
- Computers make life easier
 - Organization, information, connections
- Together: Both make progress

Today's topic: How computers empower accessibility



Assistive technology

- AT: tools to support people with disabilities
 - hardware, software, apps
- Helps with communication, mobility, and learning
 - Personalized to individuals needs



Benefits of computers for people with disabilities



Increase
independence



Improve
communication



Expand access
to education and
jobs



Support social
inclusion



Builds
confidence and
self esteem

https://www.americanbar.org/groups/senior_lawyers/resources/voice-of-experience/2024-october/how-technology-can-enhance-the-lives-of-people-with-disabilities/

<https://www.who.int/news-room/fact-sheets/detail/assistive-technology>

Types of disabilities and tools that help



blindness: screen readers (voiceover, Jaws)



Hearing : captions,, sign language, hearing aids(youtube, live transcribe)



Mobility impairments: voice control, (siri, alexa) smart wheelchairs



Learning: text-to-speech, (google readnwrite) , spellcheckers



Speech: communication apps/devices

Challenges of assistive technology

Cost

Training and support

Accessibility gaps

Lack of awareness

https://disabilityrightsflorida.org/blog/entry/assistive_technology_independence_access

<https://seymoureci.wordpress.com/2020/11/24/assistive-technology-barriers-to-hurdle-over>



Cory lee: using technology and inspiring others

- Uses a powered wheelchair
- Travels the world with tech support
- Controls wheelchair with apps and joystick
- Has a successful blog
- Shows how tech gives indepenence and a career

<https://www.travelandleisure.com/cory-lee-curb-free-traveling-in-a-wheelchair-8621533>



[https://en.wikipedia.org/wiki/File:EyeWriter_\(4092372700\).jpg](https://en.wikipedia.org/wiki/File:EyeWriter_(4092372700).jpg)



<https://scienceofparkinsons.com/wp-content/uploads/2018/11/566ed970-f92c-43d3-bb7c-7abd4ea1c555-e1542039949989.jpg>

Tony quan/ Tempt1

- LA graffiti artist paralyzed by ALS
- Couldn't move or speak, only had eye movement
- Used "eyewriter" technology to draw with his eyes
- Tech gave him back his voice and identity
- Continue to create art and inspire others globally
- Raising donations to make similar technology cheap and help other

<https://scienceline.org/2011/10/talk-to-me-with-your-eyes/>

conclusion



<https://www.sharetec.com/wp-content/uploads/2024/07/AI-People-Helping-People.jpg>

Tech= access,
independent, opportunity

At empowers people, not
just assists

Innovation continues to
break barriers

Lets supports inclusive
technology