verbit

Shaping the Student Experience with Assistive Technology

Agenda

- 1. Introduction
- 2. 3 Challenges Faced by Students with Disabilities
- 3. 4 Assistive Technologies that are revolutionizing accessibility in higher education
- 4. How to Implement These Technologies on Campus
- 5. How Those Technologies Shape Students' Experiences
- 6. How To Implement W3C Guidelines At Your School
- 7. Q&A



Who is here?



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3 Challenges Faced By Students With Disabilities

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Assistive technology

02

Accessible materials

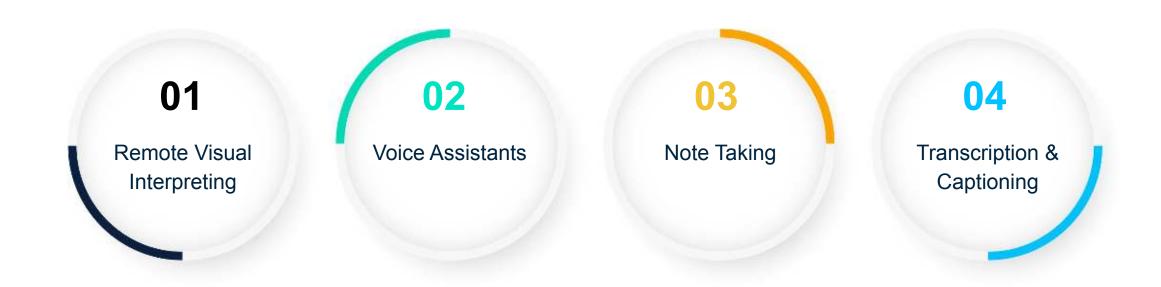
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Institutional understanding and will for inclusion





4 Assistive Technologies Revolutionizing Accessibility in Higher Education



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Remote Visual Interpreting

- Aira (Artificial Intelligence and Remote Assistance)
- Connects blind users with sighted agents via a mobile connection
- Like FaceTiming a friend
- Trained agents with access to video feed, GPS, Google Earth
- Can describe a scene, read a menu and other documents, help find a rideshare
- Be My Eyes is a free service that provides volunteers





Voice Assistants

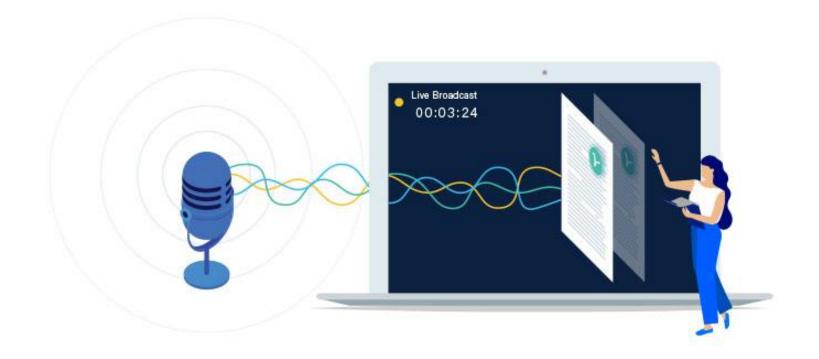
- Siri and Google Assistant allow for quick fact lookup, definitions, calculations
- The Franklin Language Master 6000 SE, a talking dictionary and grammar guide, costs \$500
- The Orion TI-84 Plus, a talking graphing calculator, costs \$600
- Siri and Google Assistant already good at definitions
- iOS has a built-in scientific calculator





Note Taking

- Transcripts with annotation features from Computer Assisted Real Time captioning (CART)
- Meets the needs of all students in addition to providing an accommodation
- Enables students to engage with the lecture rather than focus on the task





Transcription & Captioning

- Verbit (features beneficial)
- Live captioning
- How transcription helps both hearing and visually impaired





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How To Implement These Technologies on Campus?

The **Accessible Technology Initiative (ATI)** program reflects the California State University's (CSU) ongoing commitment to provide access to information resources and technologies to individuals with disabilities.

Vision: To create a culture of access for an inclusive learning and working environment.

Mission: To help CSU campuses in carrying out EO1111 by developing guidelines, implementation strategies, tools and resources.

Principle: To apply universal design, an approach to the design of products and services to be usable by the greatest number of people including individuals with disabilities.

Strategy: To stimulate collaboration to effect changes that will ultimately benefit all.



Accessible Technology Initiative (ATI) Program

CSU Long Beach has 3 Areas of Focus:

Instructional Materials

- Accessible Instructional Materials Center
- Bob Murphy Access Center
- Academic Technology Services
- Bookstore
- Document accessibility training
- Assistive technology training
- Online LMS training
- Disability awareness

Electronic and Information Technology procurement

- Procurement training
- Communications
- Review and approval

Web-based Information and Services

- Word, PowerPoint, PDF posted to LMS must be accessible
- Document accessibility training available

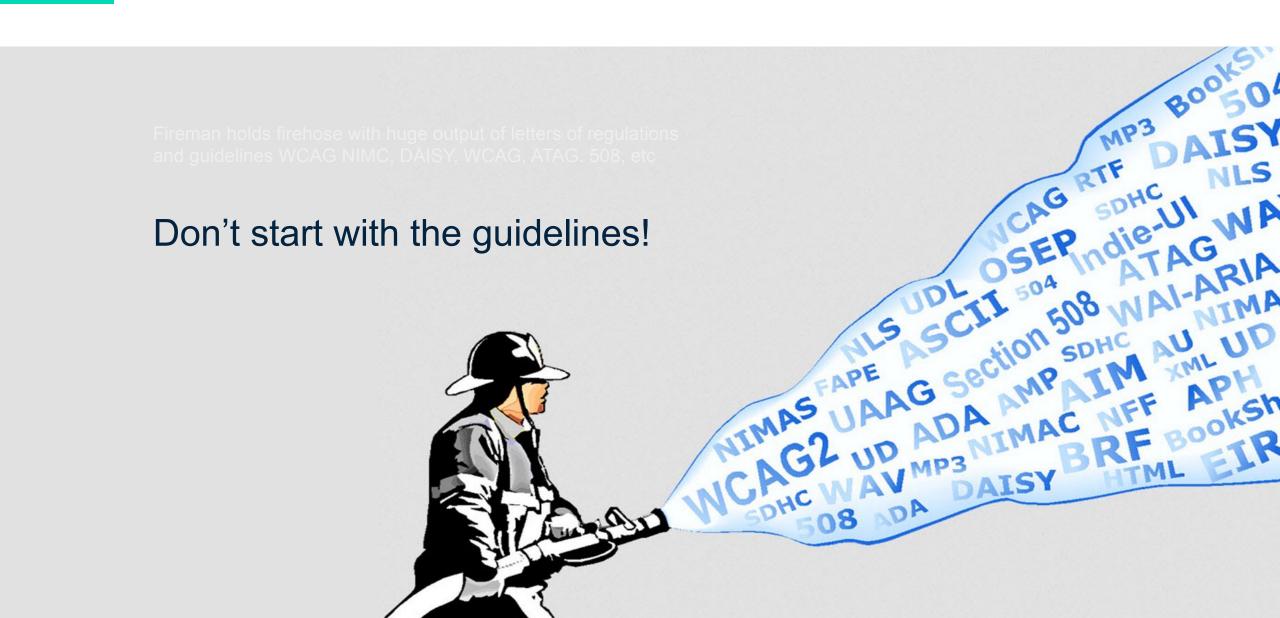
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The Daily Impact Assistive Technologies

- Accessible LMS
- Multilingual screen readers
- ✓ Voice Assistants
- Rideshare apps
- Visual interpreters
- ✓ OCR
- Transcripts for videos and podcasts
- Electronic toothbrushes
- Audio Books



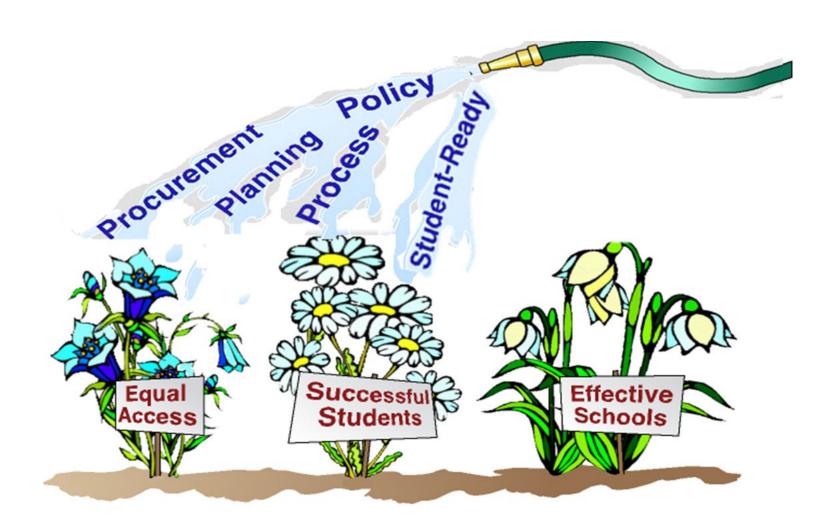
How To Implement W3C Guidelines at Your School?





Policy and process = true inclusion

A garden hose of policy, procurement, process, and planning nourishes a garden of equal access, successful students, effective schools





Develop accessibility policy and plan

- 1. Convene stakeholders include students with disabilities and their families
- 2. Recruit high level sponsor, support.
- Adopt explicit policy.
- 4. Define roles, distribute responsibility leadership, procurement, metrics...
- 5. Commit to timeline and milestones
- 6. Communicate support, including training and internal resource maps.
- 7. Test, verify, measure, collect feedback
- 8. Evaluate and respond as technology evolves





The WAI to Digital Accessibility



http://www.w3.org/wai



4 principles of accessible content





Common Barriers in digital content

Reading order

Structure

Keyboard access

Link text

Text alternatives

Color / contrast

Media



All questions asked throughout the webinar from the comments section will be answered here.



Thank you