



**Nutrition and Aging
Resource Center**

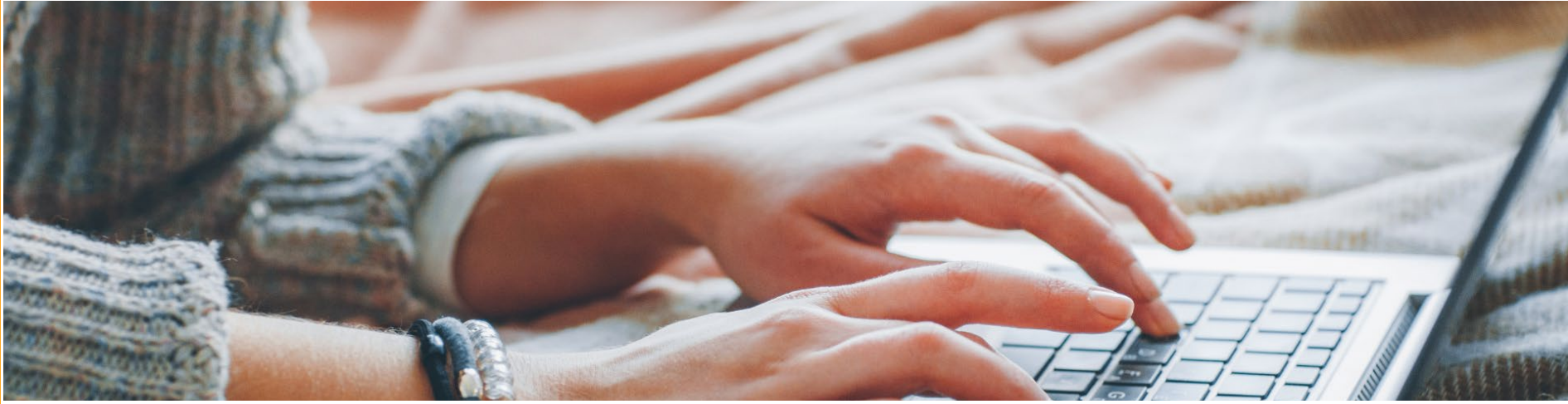
Enhancing Accessibility and Learning: Utilizing the POUR Principles with Mayer's 12 Principles for Effective Multimedia Design

May 2025

Who am I?



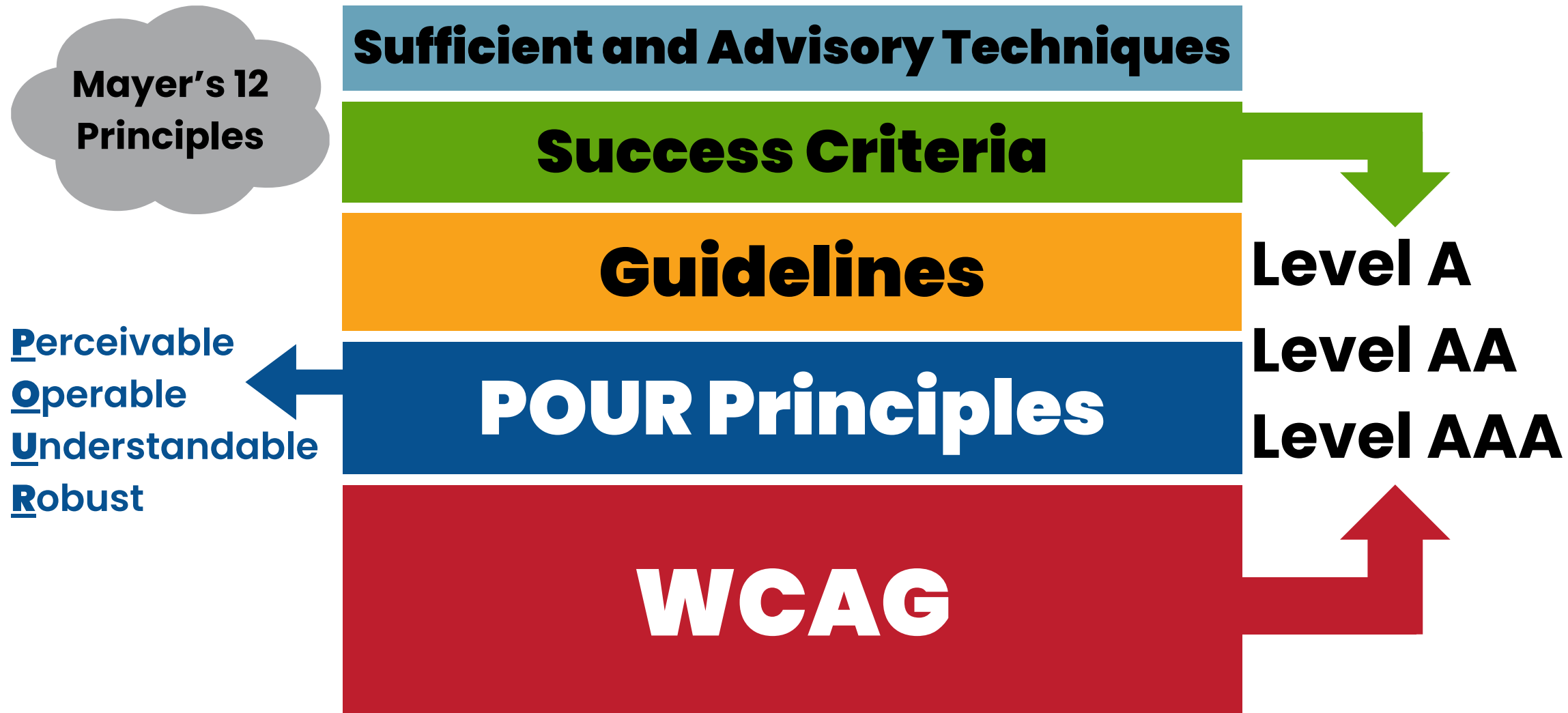
Agenda



Overview of what will be covered today

- Introduction to multimedia learning and accessibility
- Overview of Mayer's 12 Principles
- How these principles can support accessibility in content design

How does everything work together?



What is accessibility?

Accessibility in the context of multimedia learning

- Visual impairments
- Auditory impairments
- Cognitive impairments
- Motor impairments
- Learning styles and varied cognitive processes
- Neurodiversity
- Situational disabilities
- Age-related challenges

What is multimedia learning?

Mayer's 12 Principles

- **Cognitive Load Principles:**
 - Coherence, Signaling, Redundancy, and Contiguity
- **Active Learning Principles:**
 - Modality, Multimedia, Personalization, and Segmenting
- **Transfer of Learning Principles:**
 - Pre-training, Self-explanation
- **Content Organization Principles:**
 - Spatial Contiguity, Temporal Contiguity, Consistency



Why does it matter?

- Simplifying complex information
- Providing multiple ways to engage with content
- Ensuring clarity and consistency



In Summary

Mayer's 12 Principles

- Clear, concise, and engaging content
- Reduce cognitive load and facilitates learning

Web Content Accessibility Guidelines

- Provide technical standards for accessibility

BOTH

- Ensure inclusive content is being made to meet the needs to ALL learners

Key takeaways

Questions?

2024 Updates

- [Best practices for creating and updating accessibility statements including examples](#)
- [Best practices for establishing and maintaining a public feedback mechanism](#)
- [Best practices for establishing and maintaining a formal Section 508 complaint process](#)
- [Considerations for Publishing a Page to the Web](#)
- [Common PDF Tags and Their Usage](#)
- [Creating Accessible Email Messages](#)
- [Designing Digital Content for Users With Cognitive Disabilities](#)

WCAG in Plain English



Download the WCAG in Plain English postcard from CHAX Accessibility Training.

<https://www.accessibilityunraveled.com/wcag-in-plain-English/>



[Home | Section508.gov](#)

[A Guide To The POUR Principles Of Accessibility – Venngage](#)

[Plain Language Materials & Resources | Health Literacy | CDC](#)

[Technology Accessibility Playbook | Section508.gov](#)

[Accessibility Training, Tools, and Events | Section508.gov](#)

[Chax Accessibility Training](#)

[504 FAQ | Accessibility | Social Security Administration](#)

[Mayer's 12 Principles of Multimedia Learning | DLI](#)

[Plain Language](#)

[Section 508: What Is It and Why Is It Important? | Section508.gov](#)

[Understanding WCAG 2.2 | WAI | W3C](#)

Resources

Thank You



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