Best practices for narrated presentations: Evidence from e-learning research David Lewis, PhD



Agenda

- "Learning centered" vs "technology-centered"
- Animated demonstration
- Declarative Presentations
- Evidence based strategies

"Learning centered" vs. "Technology-centered"

Learning centered

- Animated demonstration
- Declarative
 Presentations

Technology centered









- Adobe Captivate
- Camtasia
- Adobe presenter
- Articulate

True Product?









Learning

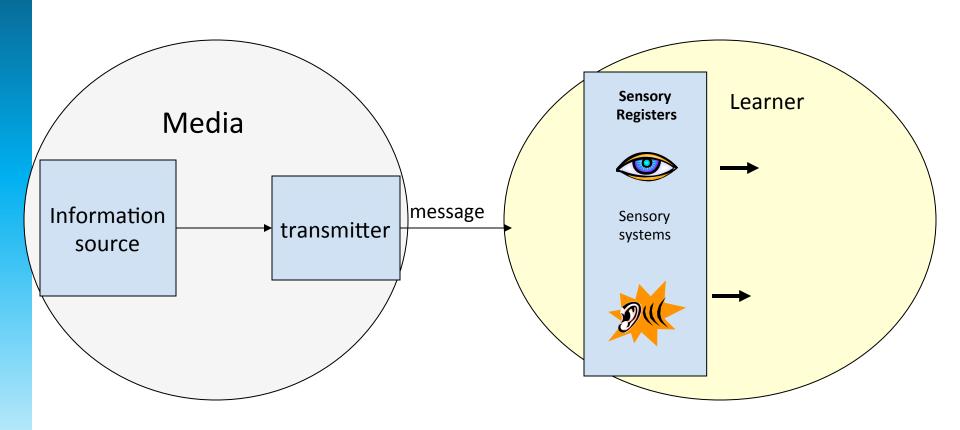
So which is more efficient?



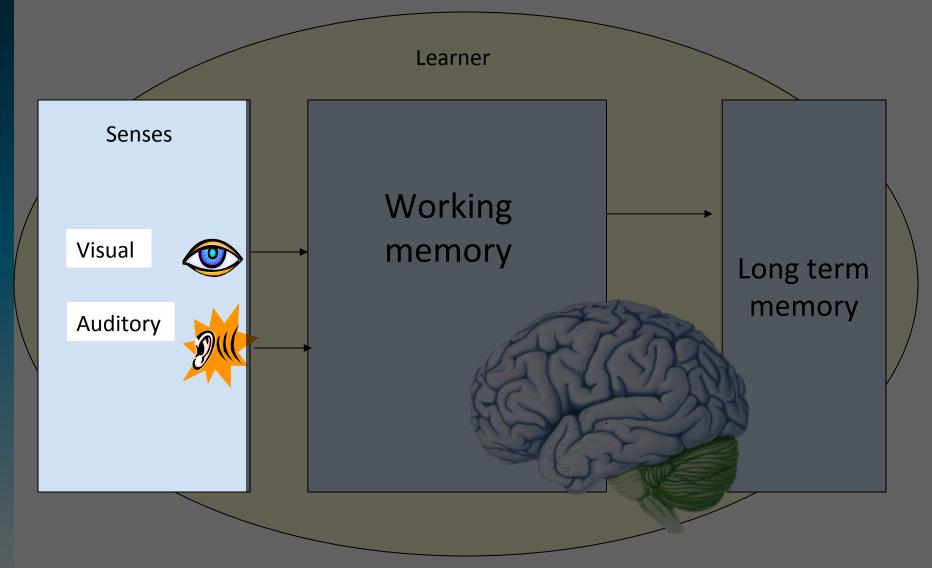
Richard Clark



Communications Theory

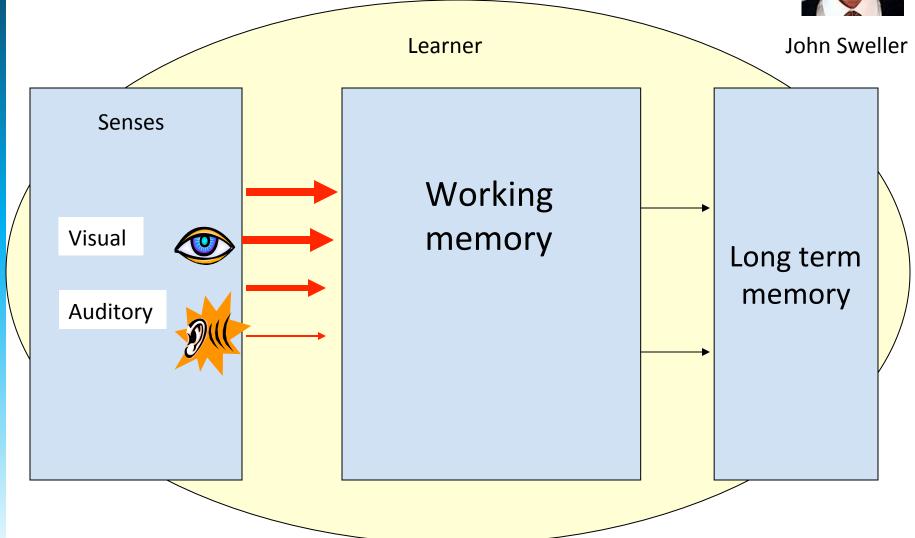


Memory Theory



Cognitive Load Theory

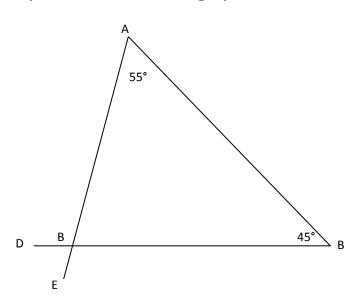




Split attention Effect

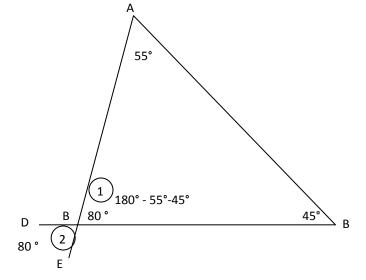


Example demonstrating split attention



Integrated example





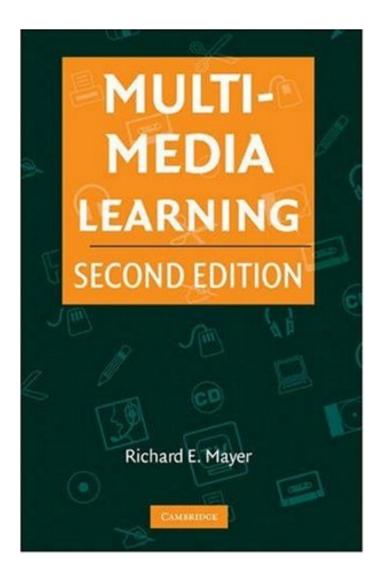
In the above figure, find a value for Angle DBE

Solution:

Angle ABC =180° - Angle BAC-Angle BCA (internal angles of a triangle sum to 180°)

$$= 100^{\circ}$$

Angle DBE = Angle ABC (vertically opposite angels are equal)

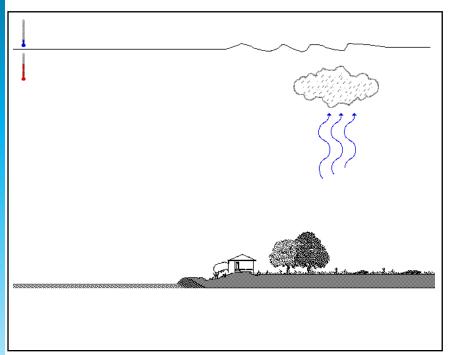




Richard Mayer

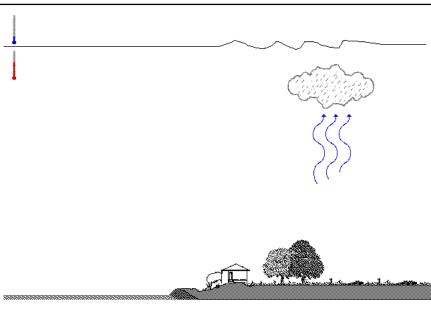
Modality Effect

Words as Narration



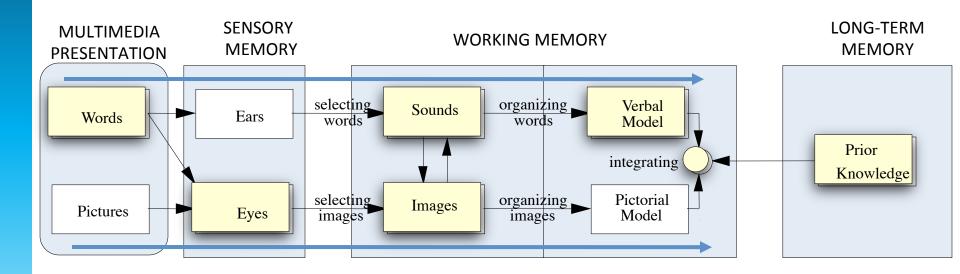
"As the air in this updraft cools, water vapor condenses into water droplets and forms a cloud."

Words as On-Screen Text

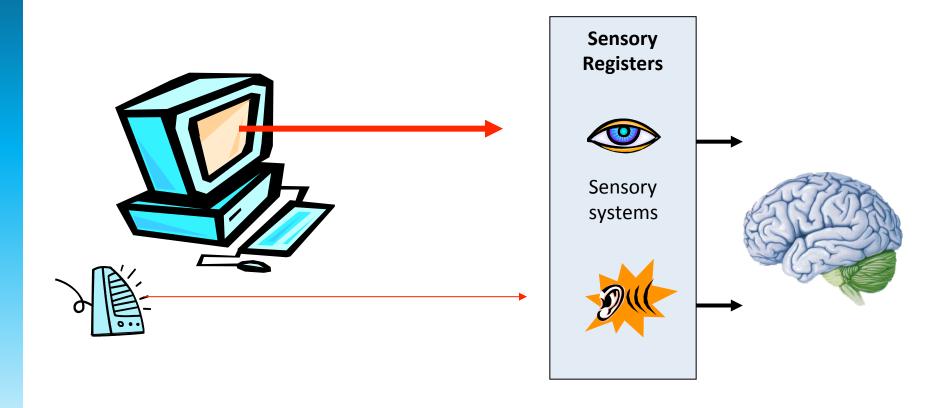


As the air in this updraft cools, water vapor condenses into water droplets and forms a cloud.

Cognitive Theory of Multimedia Learning



Classroom-based instruction is Multimedia

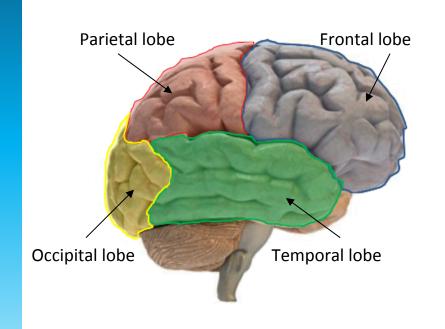


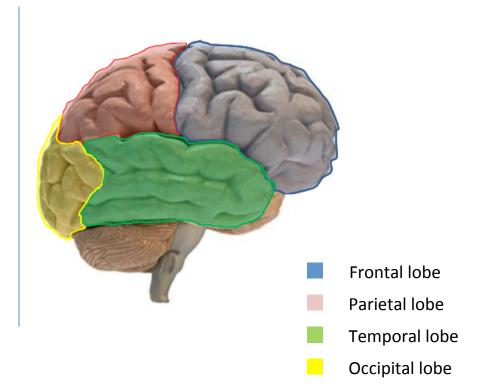
Narrated presentations

- Animated demonstrations How to (perform)
- Declarative presentation About (inform)

Strategies for producing "more efficient" Instructional materials

Split attention effect





Company X helps clients implement successful customer relationship management, marketing and risk management initiatives

- World's largest information provider
- \$1.5 billion in annual sales
- 12,000 employees worldwide
- Offering solutions in 50 countries
- 15 North American offices



of direct mail

...and that was just today

1.2 million online tions Company X Objectives

· Deliver solutions to save or make money for our clients

Company X North

American Offices

- · Focus on cycle time reduction and on-time performance
- Pioneer advances and continuous improvement in information and marketing services technology
- Provide industry-leading capabilities that help our clients build and manage their customer relationships
- Offer global resources and support
- Provide leadership on consumer privacy issues

