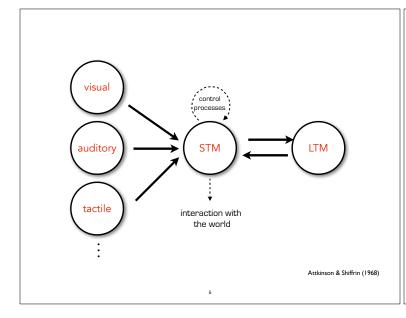


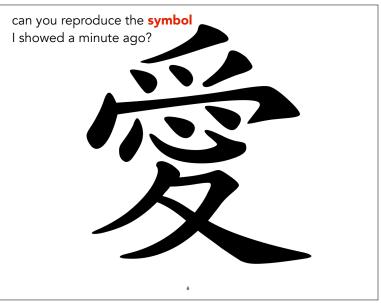
What are some examples of **bad slide design**?

## By the end of this workshop, you should be able to:

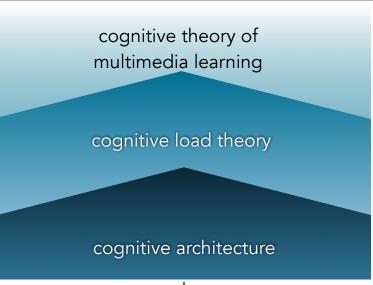
- explain the relationship between working memory, long-term memory & slides that are effective for learning
- summarize Sweller's Cognitive Load Theory as it relates to slide design
- apply Mayer's principles from his applied Cognitive Theory of Multimedia Learning
- recognize the effective use of different forms of graphical representations
- go back to your slides and implement at least a few of these tips to help your students learn more effectively







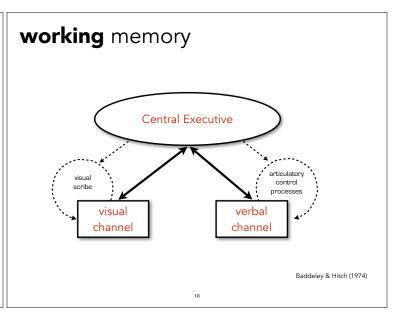


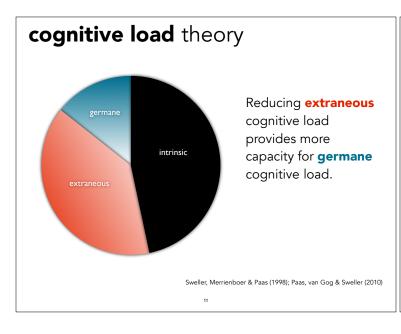


cognitive theory of multimedia learning

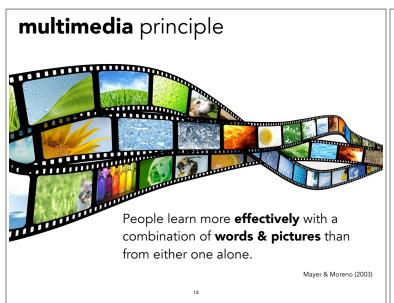
cognitive load theory

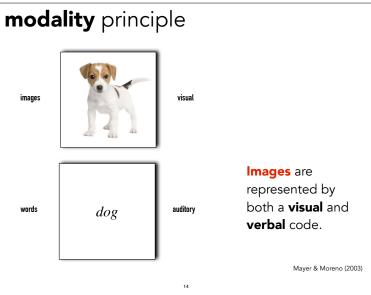
cognitive architecture









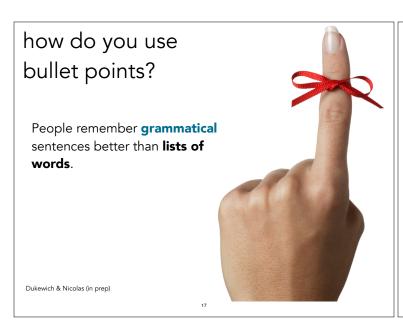


The **redundancy principle** refers to the fact that when text on screen is the same as the information being conveyed verbally information is encoded less effectively. People are busy reading the text instead of listening to the information that a person is trying to convey overwhelming both the visual and verbal channels, but people can't stop themselves from reading. Stop reading this. Seriously, stop reading this and pay attention to what I am saying. Fine, if you've gotten this far, please pat your head.

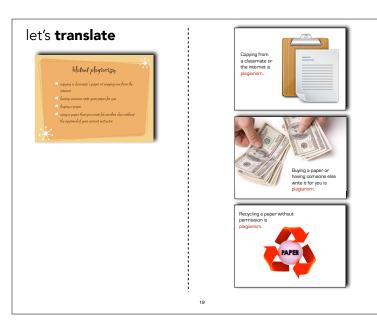
Mayer & Moreno (2003)

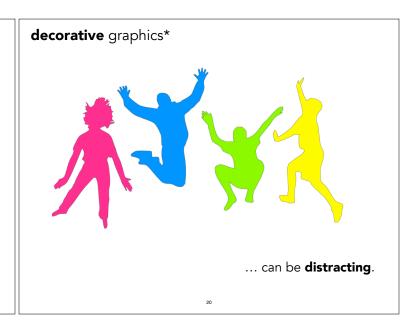
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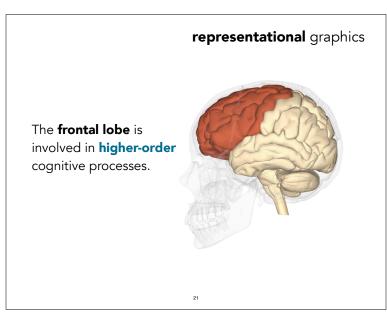


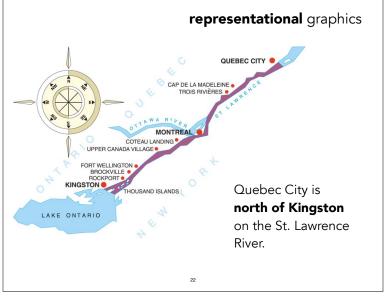


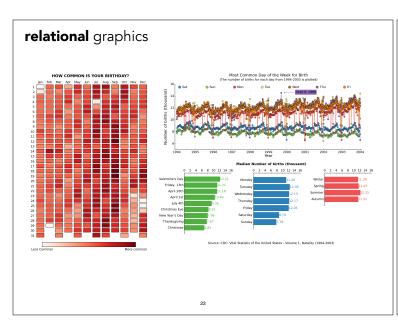


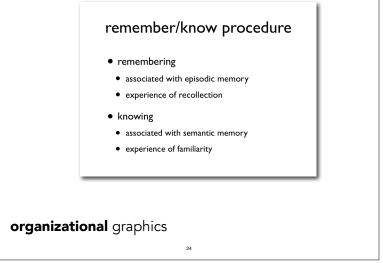


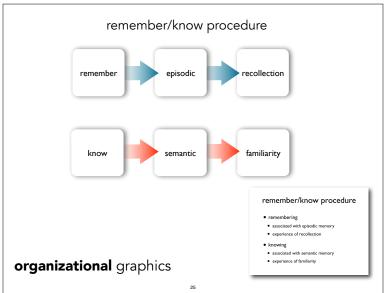


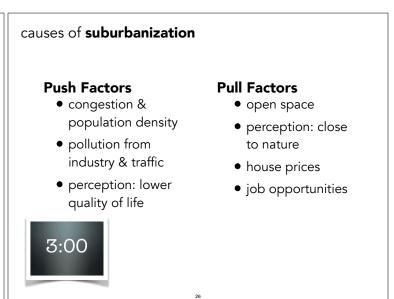


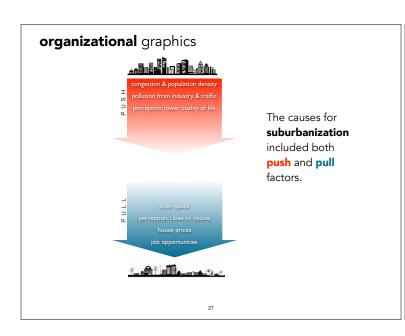


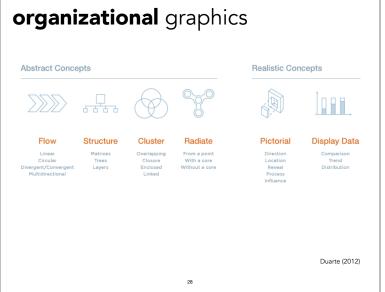




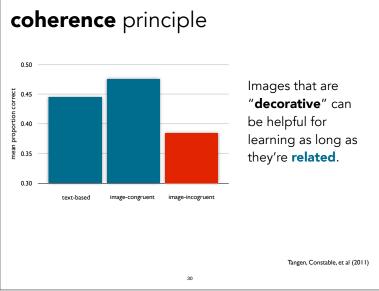


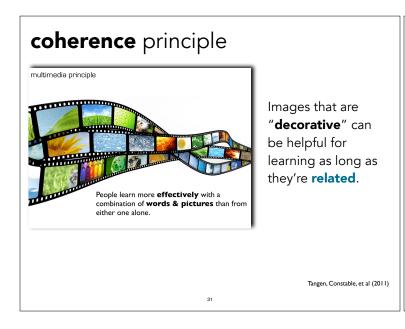


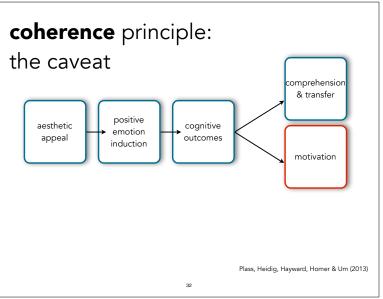


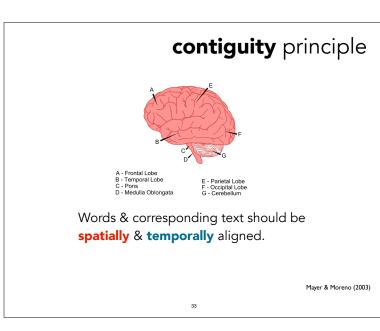


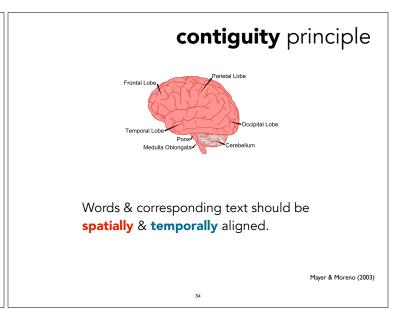


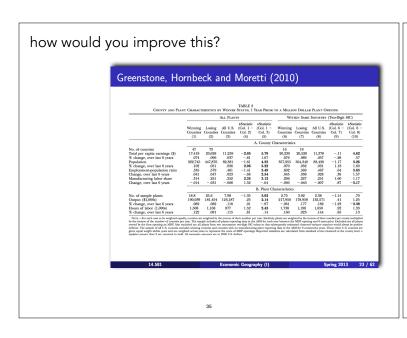


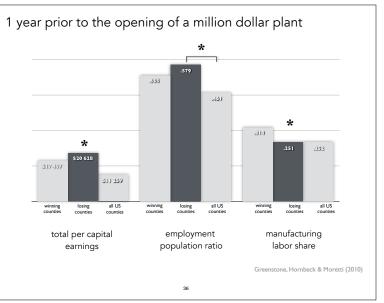




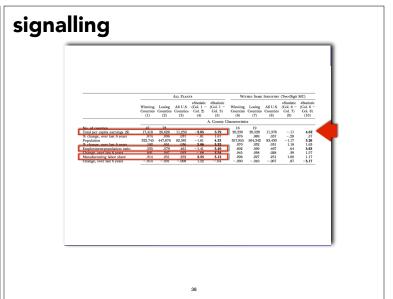












pay attention to this

now this

look over

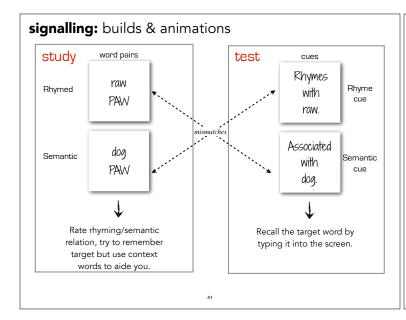
builds can also serve as **reminders** of what you want to say

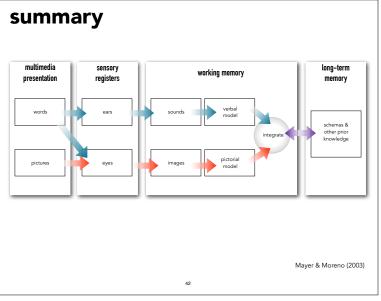
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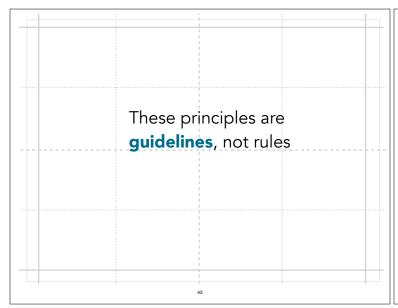
## Thomson, Smilek & Besner (2012) - Expt I

- study phase:
  - participants presented with word pairs
  - capitalized = recall target
  - two conditions:
    - rhymed ex. raw-PAW
    - semantic ex. dog-PAW
  - rate rhyming/semantic relation strength
  - "try to remember target, use context word"
- test phase:
  - participants give cue, asked to recall target
  - two conditions:
    - rhyme cue:"rhymes with raw"
    - semantic cue: "associated with dog"
  - recall target word
- study x test fully crossed to produce match/mismatch
  - ex. match: study (rhyme) + test (rhyme)
  - ex. mismatch: study (rhyme) + test (semantic)

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## It's the end of this workshop! You should be able to:

- explain the relationship between working memory, long-term memory & slides that are effective for learning
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