



What is attention? "... everyone knows what attention is" (James, 1890/1950) "On attention itself, it is needless to discourse at length; its nature and conditions are familiar to every thoughtful student" (Munsell, 1873, p.11).

What is attention?
No one knows what attention is
There may not be an "it" there to be known about.
There may not be a single cognitive construct which we define as "attention"

Two Themes in Attention • Selectivity: • Conscious perception is selective. • Effects of stimuli on behavior are selective (when we are writing a paragraph we are selecting certain sensory information while guiding our behavior).

Two Themes in Attention

• Capacity limitation:

• We cannot carry out an unlimited number of mental operations at the same time.

Varieties of Attention

- There may not be an "it" there to be known about.
 - There may not be a single cognitive construct which we define as "attention"



Varieties of Attention

• **Selection**: Setting a particular stimulus/object in the world as the current object of processing.



Varieties of Attention

- Mental/Perceptual Set: Processing some information better (different) based on expectations. Internal setting of the of the system to detect certain crimuli
- Vigilance/Sustained Attention: With effort, you continue to focus on certain stimulus



Varieties of Attention

 Orienting attention: Attention: "an interrupt process that automatically detects novel, possibly important, environmental changes outside the current focus of attention and draws attention to themselves."



Varieties of Attention

 Voluntary control of attention: we can direct our attention to certain stimulus despite the presence of distractors

Which «attentions» are not covered in this course?

- Vigilance
- The role of attention in animal learning,
- · Neural basis of attention
- · Orienting response