Working	<b>Memory</b>
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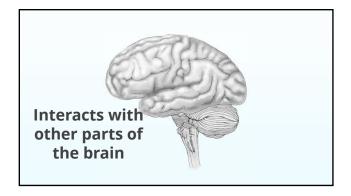
One of the most important components of the brain as we currently understand it

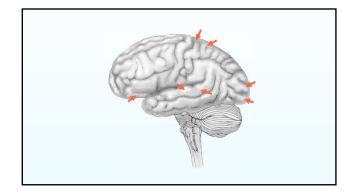
#### **Process information about the world**

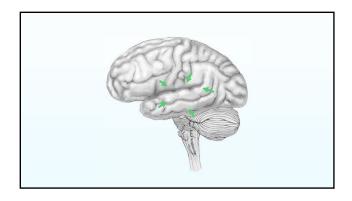
- Goals
- Make plans
- Task relevant
- Mental space

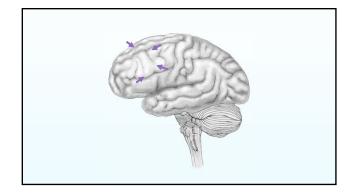
Working memory: conductor

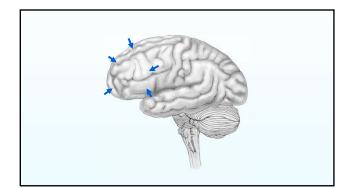
Brain: players in the orchestra





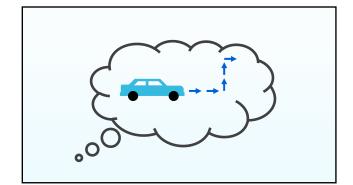












Storage Mental Tasks
Short-term operations

Controller of attention Retaining Link

Memory

Stored and perceived

#### **Central executive**

- Makes sure things
- components

# • Controls other Long-term memory

## **Sensory specific caches**

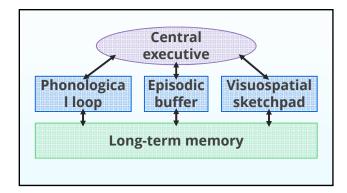
- Modality specifi information
- Operate fairly independently Long-term memory

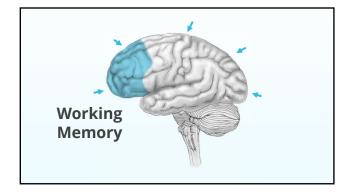
ic	Central executive	2
Phonological loop	Episodi c buffer	Visuospatial sketchpad

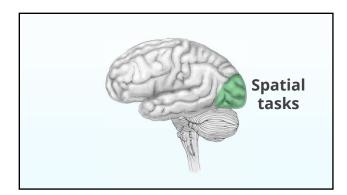
### **Episodic buffer**

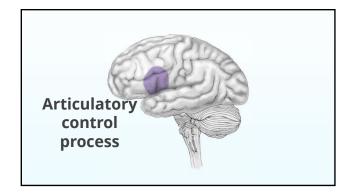
- · What is currently happening
- Reactivated event memory

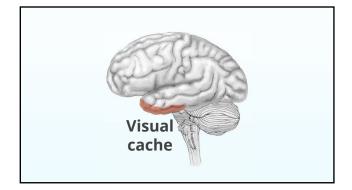
, (	Central executiv	e
loop	Episodi c buffer	Visuospatial sketchpad
Long	term m	emory

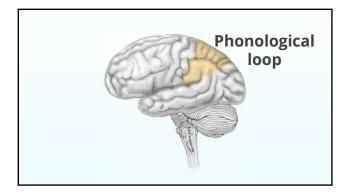












## **Working Memory**

- System for activating other parts of the brain
- Modality-specific components and abstract components

#### **Working Memory**

- Individual differences in working memory capacity
- Dorsolateral prefrontal cortex is important and well connected