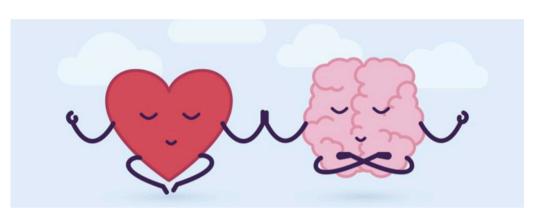
Mindfulness, Selective Attention, and Sleep





What is Mindfulness?

- Focusing on being aware of our body sensations, thoughts, and feelings in the moment without judgement or interpretation
- Mindfulness looks different for everyone! It can be practiced through:
 - Meditation
 - Yoga
 - Tai Chi
 - Guided imagery



What are Some Benefits of Mindfulness?



Increases brain connections



Improves attention



Improves sleep



Slows age related changes in the brain



Reduces stress



Reduces symptoms of depression

Mindfulness Meditation

One way to practice mindfulness is through mindfulness meditation.
 This type of meditation focuses on awareness and acceptance

- Focus on:
 - Sounds in your environment
 - How your body feels
 - Emotions
 - Thoughts
 - Your breath
- When your mind wanders, gently bring it back to the present.



Lots of information from the world around us







Relevant information our brains process

Selective Attention

What is it?

- Directing our attention to important information
- Ignoring other information that we don't need



Why is it important?

- Our brains are constantly flooded with information
- Selective attention helps our brains from getting overwhelmed

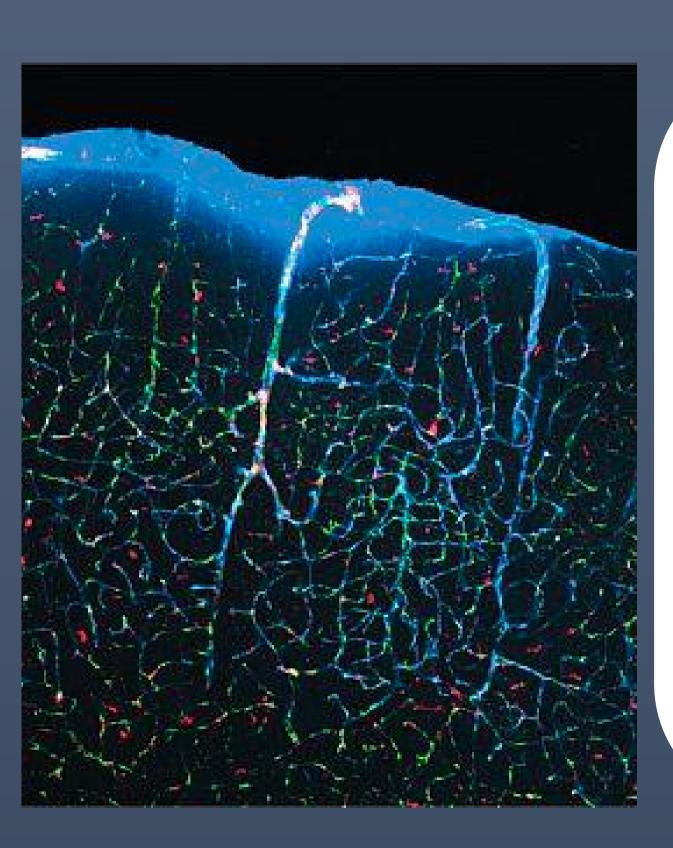
Selective Attention is like a coffee filter for your brain!

Working the Attention Muscle

Attention is a mental muscle. We strengthen it through practice!

- We can practice controlling the focus of our attention (selective attention).
 - o For example, we may focus on our breath as it goes in and out of our lungs.
- We can practice holding our attention on the same thing for an extended time (sustained attention).
 - o For example, we may hold our focus on our breath for 1 minute

A Quick Word on Sleep 🕵



- Sleep is important to forming and storing memories and restorative function
- Lack of sleep impairs our reasoning, problem-solving, attention to detail, and other consequences
- Researchers have some new ideas about why this might be!
- Researchers from the University of Rochester discovered a system that drains waste products from the brain
 Cerebrospinal fluid, a clear liquid surrounding the brain and spinal cord
 - Cerebrospinal fluid, a clear liquid surrounding the brain and spinal cord moves through the brain along a series of channels that surround blood vessels – called the glymphatic system
 - vessels called the *glymphatic system*This system also removes beta-amyloid a main protein deposit in Alzheimer's Disease from brain tissue
 - This seems to happen following a night of sleep; and it may not clear as well in people with dementia

The "Rinse Cycle"

• https://youtu.be/eEszNmVFFm4

