



Visual Ergonomics

You Work Hard. You Deserve the Best.

Creating Optimal Work Environments Based On Your Cognition

People think they see like a camera with a wide-angle lens seeing everything at once. Not true. **Your eyes are constantly darting around taking in the scene in front of you in small pieces.** With each second you only see a few things at once while your brain pieces them together into an illusion where you see everything simultaneously. It sounds odd, but most of what you are doing right now is being done by your body without you knowing. You're not consciously breathing, blinking or pumping blood.

A discovery by our cofounder Dr. Earl K. Miller of **MIT** reveals that **our brains create sweet spots and blind spots in our field of view**, and everyone is different.

SplitSage uses groundbreaking **patented science and technology from MIT** that is like an eye exam for your brain. Eye exams measure our vision and ability to focus. We measure your brain and assess how much and where you can perceive things across your field of vision.

These blind spots are due to a physical limitation of our brains capacity to take in visual information. Think of your brain like a gas tank and the objects around you and on your screen like gas. Once your gas tank is full, no more is getting in and simply spills to the ground. Only until your brain frees up space a split-second later can it take in more. We don't notice this, but it **affects our perception and our behavior**. Now you know why an athlete doesn't see the open player or why you stub your toe on a chair out of place in your kitchen. It's not that you didn't "see it", it's that it didn't register with your brain in time.

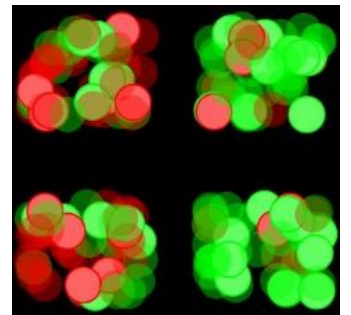
Your work environment as a professional or student can create a burden on your cognitive function, which is our brain's engine for **decision making, attention, reaction time, learning, remembering, and problem solving**.

Virtual Ergonomic
Assessments
Using Patented Science
and Technology
From **MIT**

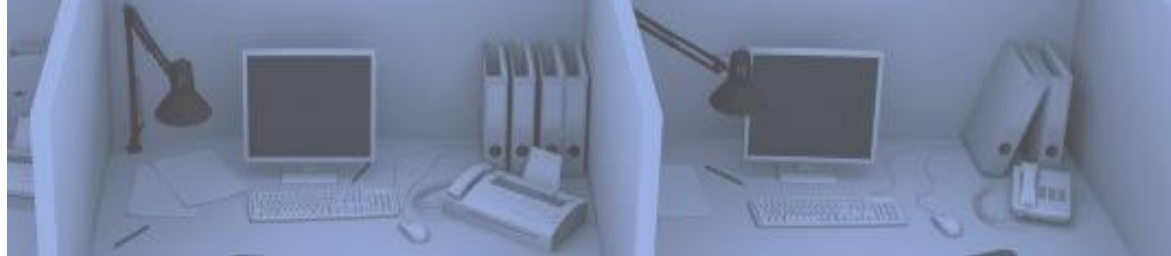
An eye exam measures your
vision and ability to focus.



SplitSage measures how
much and where you can
perceive things.



Some people can perceive
more than 100% better on
one side of their field of
view.



Assessments

Our software-based test takes about 7 minutes and can be done remotely using Zoom video conferencing. The SplitSage platform creates a visual heatmap of where individuals have higher (sweet spot) and lower (blind spot) capacities to perceive information. It also measures how much information can be processed at once. These two critical pieces of information can be utilized to exploit inherent strengths and compensate for weaknesses to [see more and miss less](#).

Matching your work environment to your unique cognition can increase effectiveness at work and improve learning as a student.

These assessments that are [used by our military](#) can help determine your optimal work and study environment. Matching the environment to your cognition allows for sweeping improvements. [Adjusting your gaze, how you scan information, and the physical layout of your workspace can lead to significant benefits.](#)

- ✓ Increase effectiveness
- ✓ Improve multitasking
- ✓ Increase information retention
- ✓ Boost productivity
- ✓ Decrease distractions
- ✓ Reduce errors and mistakes
- ✓ Elevate comfort and well-being

Increase Effectiveness. Improve Safety. Enhance Performance.

Like getting a prescription for eyeglasses, your results can be applied to almost everything you do. Knowing where you are most likely to miss things also allows you to compensate with activities like driving, sports and even help avoid stepping on your children's Legos (ouch!).

Give yourself the best opportunity to succeed at whatever it is you are doing.

Who Is Professor Earl K. Miller?

[Professor Miller](#) is the Picower Professor of Neuroscience at MIT and one of the world's leading experts on the neural mechanisms of cognition. He is one of the most cited and awarded scientists in neuroscience and the cofounder and discoverer of the science behind SplitSage.

