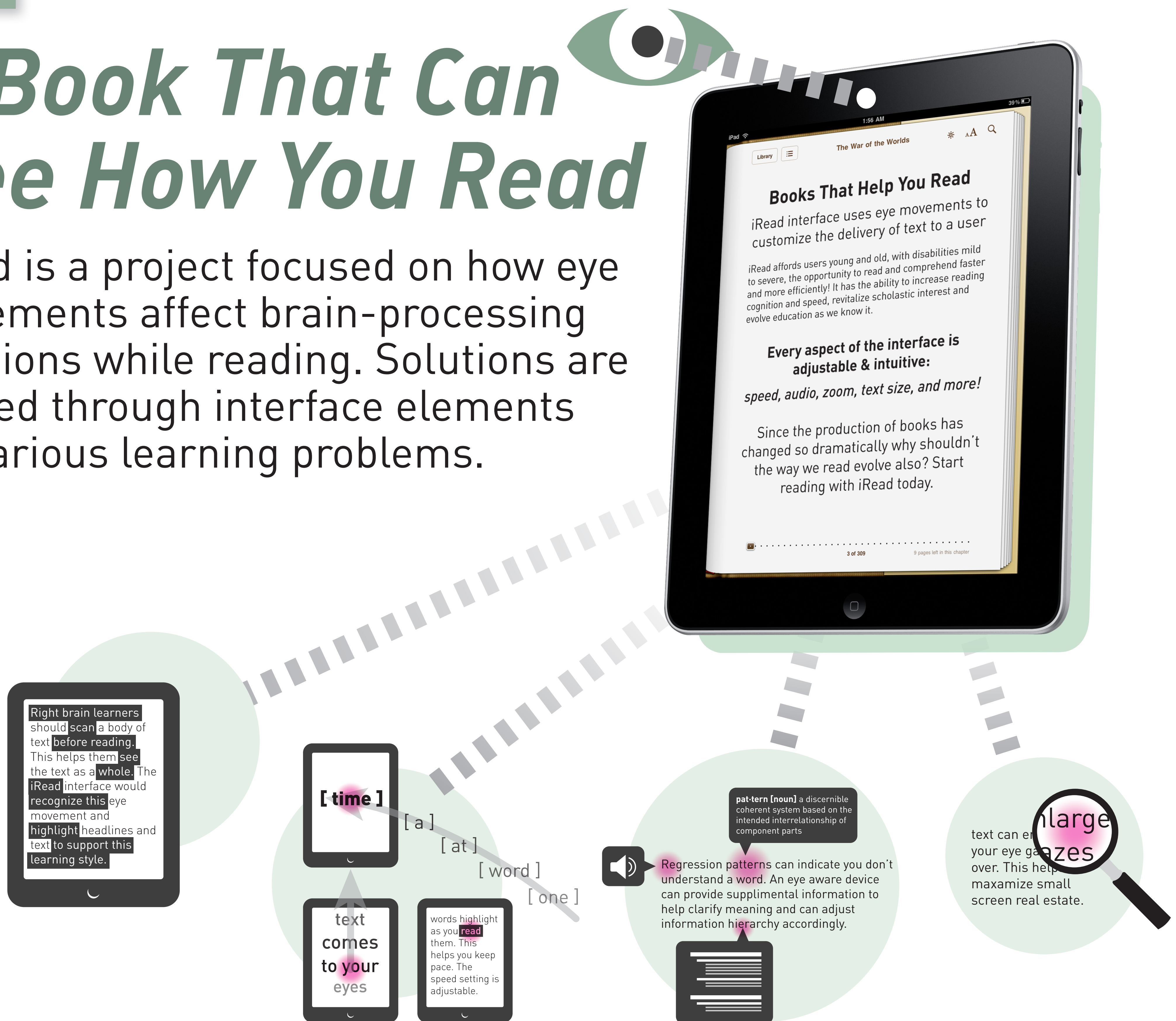


A Book That Can See How You Read

iRead is a project focused on how eye movements affect brain-processing functions while reading. Solutions are offered through interface elements for various learning problems.



A detailed look at iRead interface elements.

Hypertext

Hypertext mode of the iRead interface allows the user to adjust the density of hypertext within a body of text. Since right brain learners are holistic they benefit from scanning articles before they read them. Hypertext affords graceful scanning, controls unnecessary eye movements and provides links to additional information.

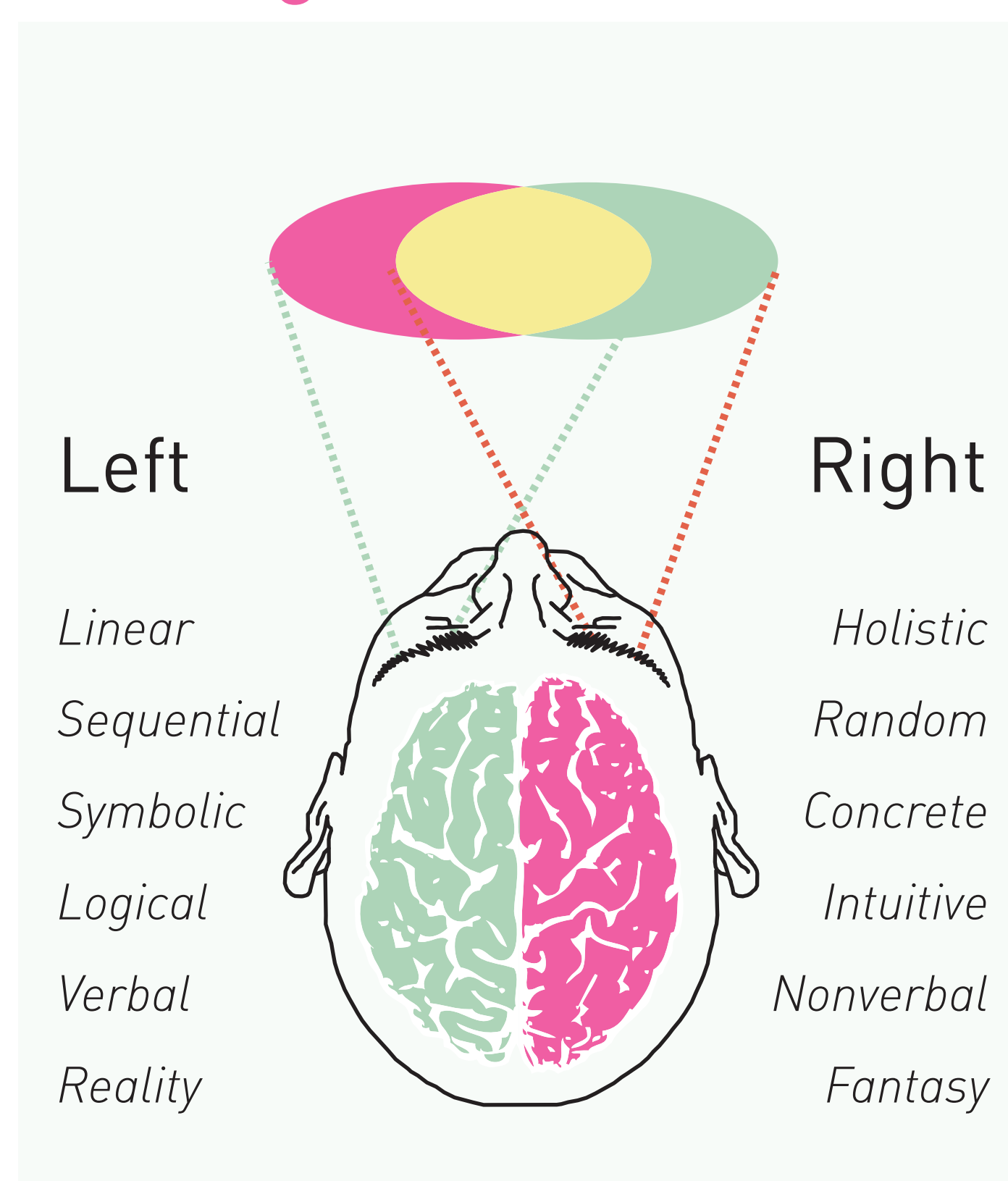
Attention

Attention mode records the users level of attention while reading. Using both face and eye recognition the interface can alert the user when they need to wake up or take a break. It can also perform eye-tracking exercises to stimulate the user and encourage progression.

Visual

Visual mode adds imagery to text in order to increase recall memory and assist right-brain learners. Right brain dominant learners are better at created scenes in their head as opposed to sub-vocalizing words in sequential order to obtain meaning.

Reading is a left brain function.



Left vs. Right Brain Learning Styles

Reading, language and writing are left-brain processing functions, most people that struggle with reading are right-brain dominate learners or have visual eye-teaming problems.

In western cultures, reading is done from left to right. Left to right eye movements, like sequential processing, is a function of the left hemisphere of the brain.

While eyesight is simply the eyes ability to see something, vision is defined as the understanding of what is seen. Reading, like vision is learned. They both involve the ability to take incoming visual information, process that information and obtain meaning from it.

iRead interface adjusts to various learning styles intuitively through eye movements. This enhances the reading experience for right-brained individuals as well as those with learning disabilities.