

Readalyzer™

Eye Movement Recording system with automatic Reading analysis.

In a few minutes, Readalyzer™ objectively measures the reading skill.



The analysis gives the following values:

- Fixations
- Regressions (number of backwards movements during reading)
- Fixation duration (mean, standard deviation and as histogram)
- Reading speed
- Cross Correlation between right and left eye
- Play-Back of recorded Eye Movements on top of text read

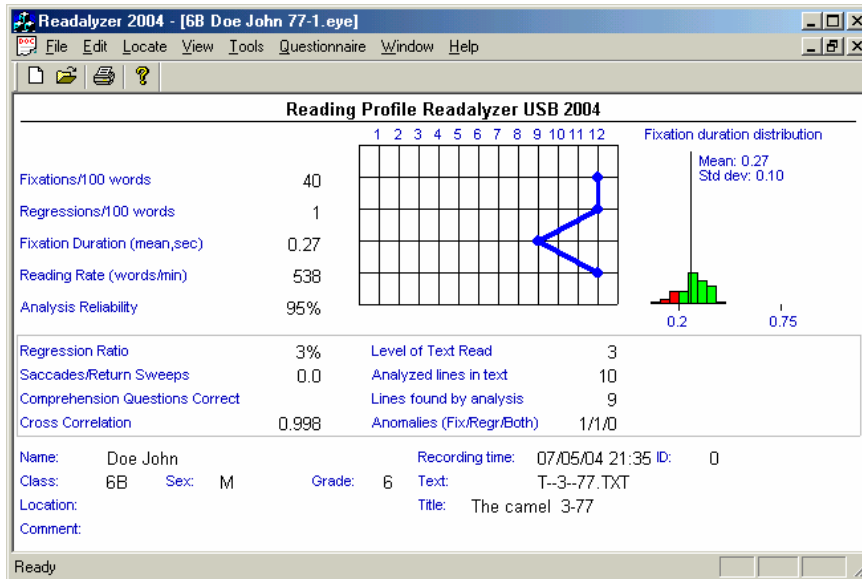


A Readalyzer measurement is fast and simple. The subject puts the measuring goggles on. If the subject has ordinary glasses or contact lenses, they can be worn as usual. The interpupillary distance is adjusted, and the subject reads a text from the text booklet. There is no need for calibration or head fixation. The eye movements can be studied during recording on the computer screen. After the measurement, a number of comprehension questions is asked. A complete test is made in five minutes. The analysis is made in seconds, and the result can be printed.

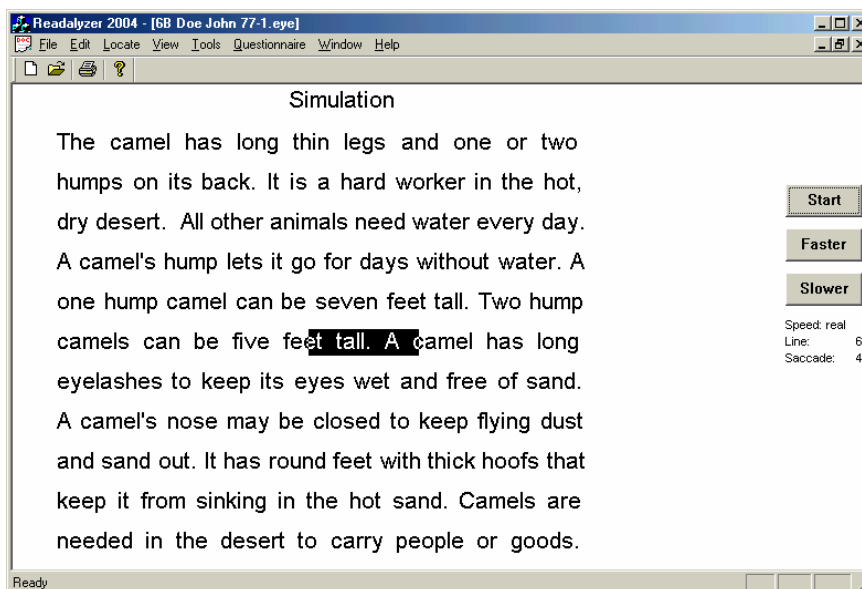


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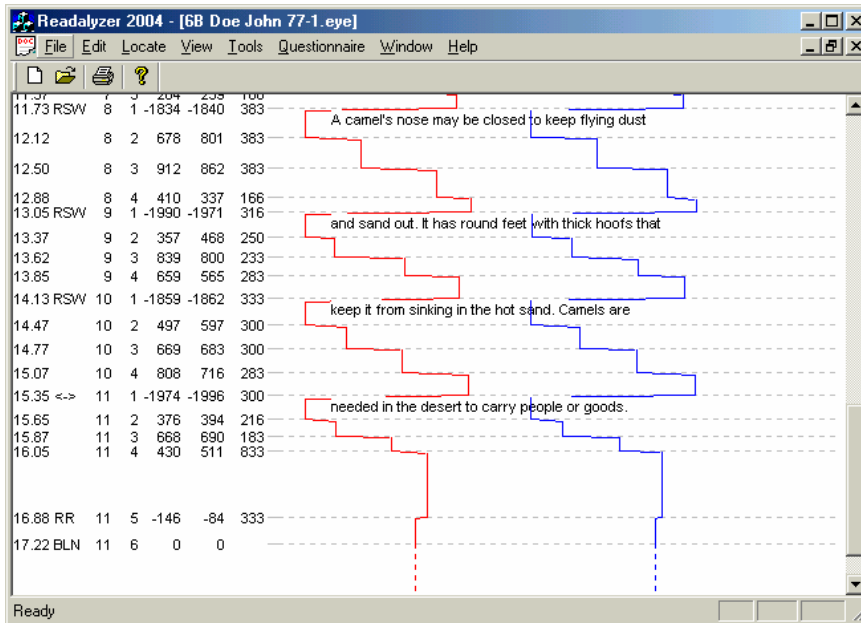
The measurement is presented both as numbers and with graphics.



The recorded eye movements can be shown superimposed on the text read. A black rectangle shows the fixation area in the text. This is very useful to explain the reading process to the tested person.



You can also view the recording as a graph where the text is synchronized with the eye movements and details about the analysis are shown.



The Readalyzer system can be used to:

- Evaluate reading skill
- Monitor individual reading skill development.
- Check that reading skill goals has been achieved.
- Objectively measure reading parameters such as reading speed, regressions and fixation duration.

The Readalyzer system consists of a measuring unit, measuring goggles and software. The system is powered through the USB connection. Power consumption is 100 mA. The system can easily be run driven from a battery operated laptop computer. The power consumption of the Readalyzer system is negligible compared to the computer and will only reduce running time on battery marginally.

Computer requirements:

- CPU: Pentium-class or better.
- Connection: USB 1.1 or better.
- Operating system: Windows with USB support. (Windows 95B or higher)
- Space on hard drive: 10 Mbyte for program + approx. 10 kbyte for each measurement.

Readalyzer is a Swedish product that is both developed and produced in Sweden.