ATRC Logo, Assistive Technology Resource Center, Colorado State University.
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website http://atrc.colostate.edu/,
accessibility website http://accessibility.colostate.edu

**Technology Strategies for Scotopic Sensitivity**

# Advanced Software:

## WYNN – Windows only, free trial version

Student is able to:

* Adjust the background color in text view
* Adjust the text size and font using WYNN settings
* Adjust the spacing between words and between lines
* Adjust highlighting colors as the text is read aloud
* Masking: Similar to placing an overlay over the computer screen.
  + Masking is available when reading the web:
    - Able to mask by line, sentence, paragraph or full screen
  + Masking by line, sentence or paragraph is available when reading in text view.
    - You must select Read only from the Edit menu to use masking in text view.

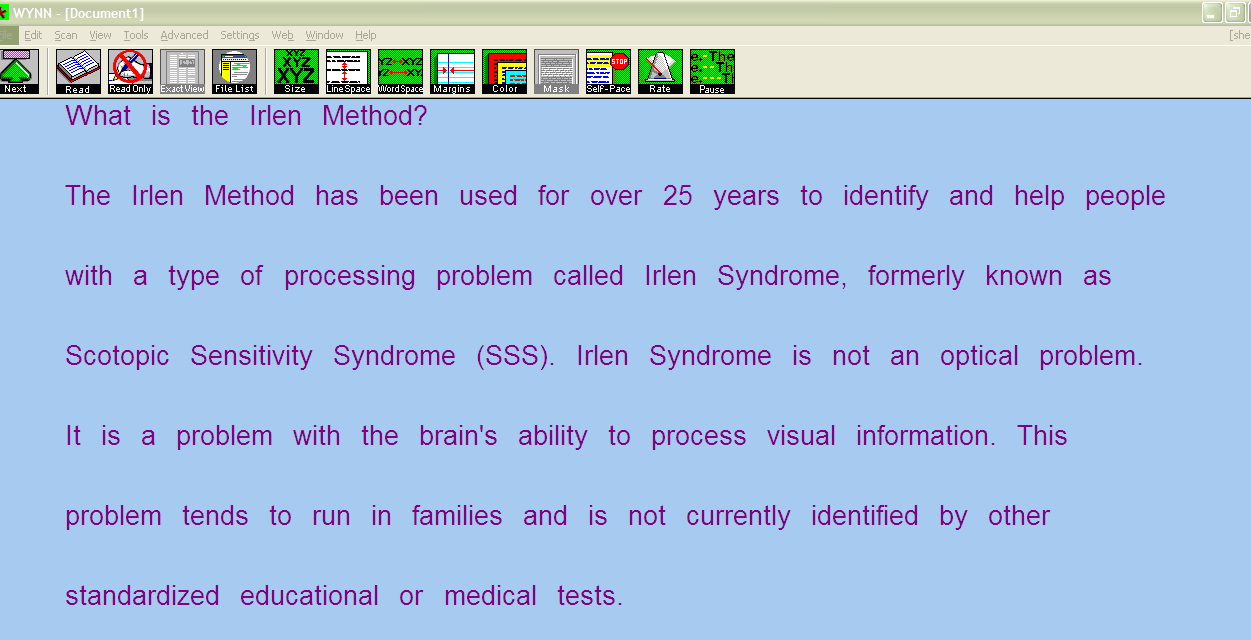


Figure 1 : Example of increased spacing between words and lines and color changes to text

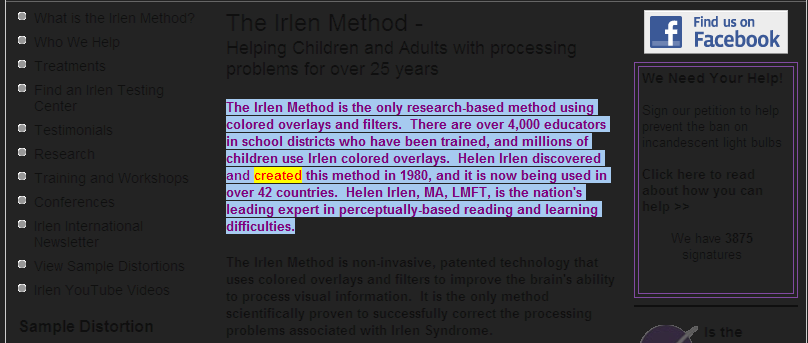


Figure 2: Example of web masking in WYNN

## Read and Write Gold – Available for Windows and Mac, free trial version

Student is able to:

* Adjust highlighting colors as the text is read aloud
* Mask the screen in a variety of ways:
  + Full Screen Tinting tints the entire screen similar to using an overlay. Choose from a variety of colors and adjust the gradient
  + Mouse underlining: The line that is being read is underlined with the student’s chosen color for increased focus to that line.
  + Mouse spotlight options: Chose to read by line or by paragraph. Everything not being read at that time will be masked by the chosen color.

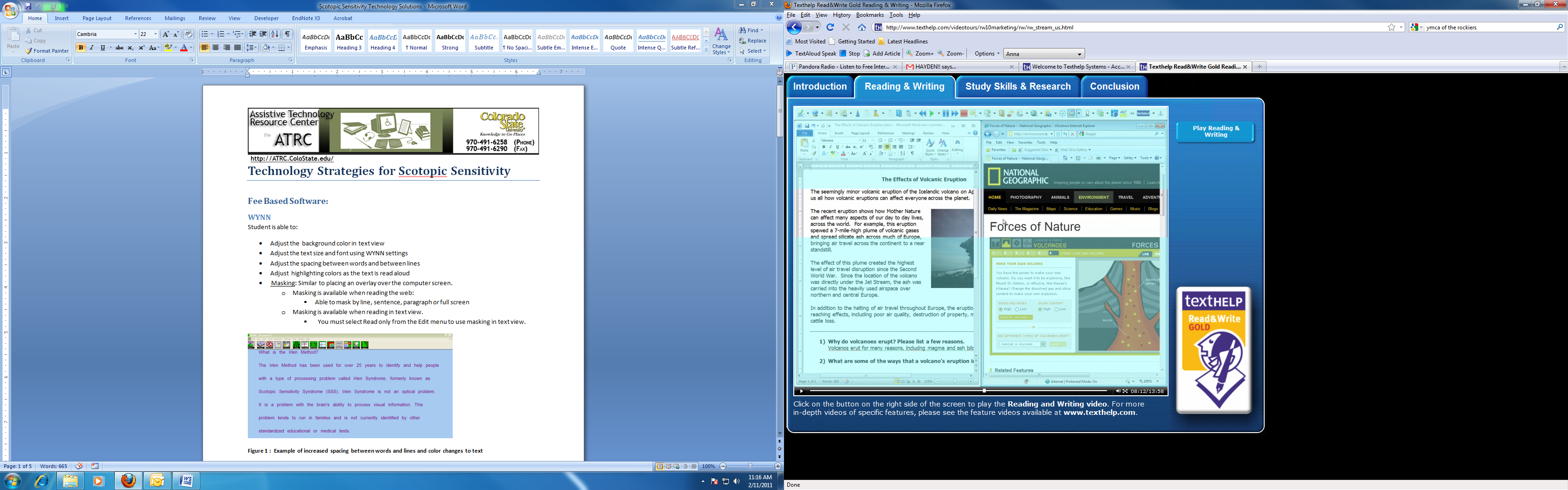


Figure 3: Example of mouse spotlight in Read & Write for Windows

## Kurzweil 3000 – Available for Windows and Mac, free trial versions

Student is able to:

* Adjust the background color (limited options with Mac version)
* Adjust the text size, text color, font, and word spacing
* Adjust highlighting colors as the text is read aloud

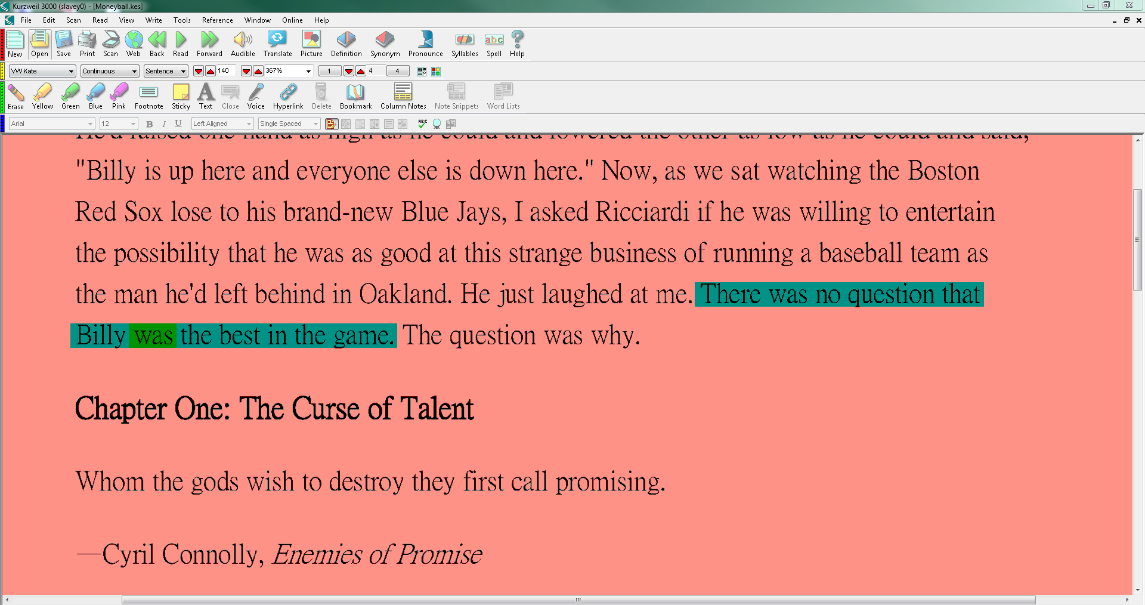


Figure 4: Example of a rose background color and highlighted colors as text is read aloud in Kurzweil 3000 for Windows

## ClaroSoftware – available for Windows and Mac, free trial versions

### ClaroView – Mac only

Student is able to:

* Use an overlay to change the color and tint of the screen.

### ScreenRuler – Windows and Mac

Student is able to:

* Use an overlay to change the color and tint of the screen.
* Use a reading ruler across the screen
* Use a colored underline that follows the cursor

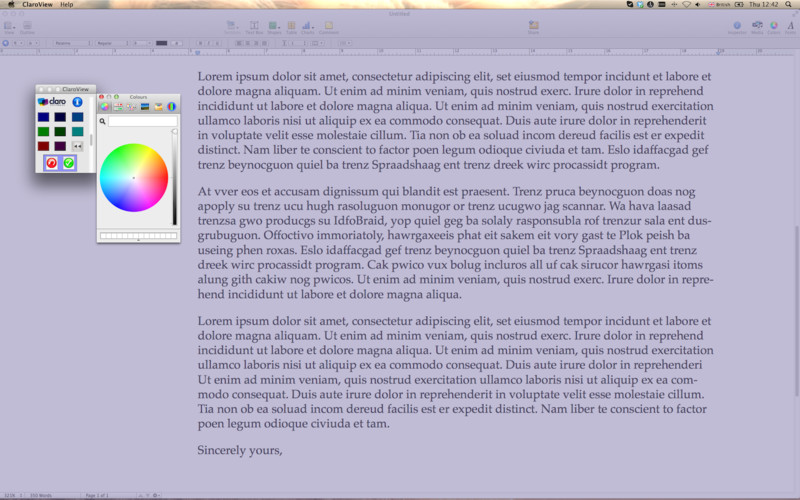


Figure 5: Example of ClaroView overlay and control options

## Rapid Reader - Windows only

Student is able to:

* Read one word at a time with high color contrast setting
* Font and location of word can be customized to meet user’s preference
* Speed of word displayed can be changed



Figure 6: Example of reading with Rapid Reader

# Free Software for Windows:

## SS Overlay

Student is able to:

* Use this program in place of a physical colored overlay on any computer.
  + [Download SS Overlay: http://www.fx-software.co.uk/assistive.htm](http://www.fx-software.co.uk/assistive.htm)
  + Activate program by right clicking on the Yellow Up Arrow located on the toolbar on the bottom right-hand corner of the screen, and select Settings
  + Set your preferred color settings, select OK. This will activate the overlay.
  + To turn SS Overlay off, right click on Yellow Up Arrow located on the bottom toolbar. Select Exit.

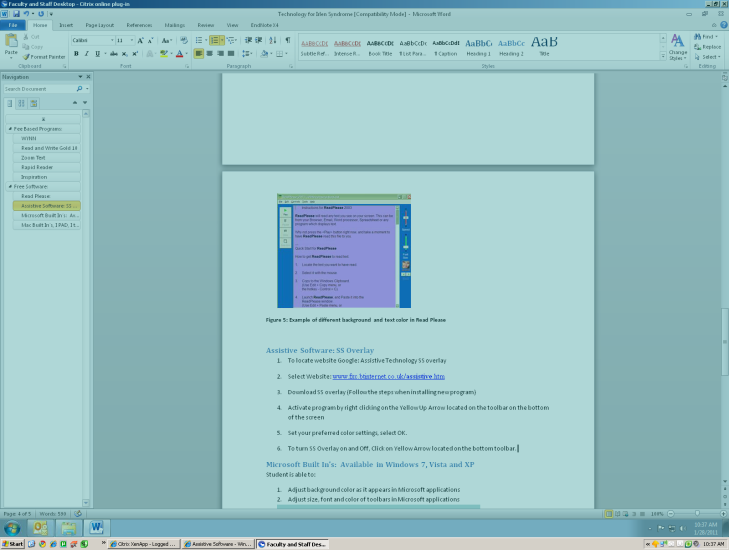


Figure 7: Example of teal screen masking using SS overaly

## T-Bar

Student is able to:

* Use a colored bar to drag around the screen or lock to the mouse.
  + [Download T-Bar: http://www.fx-software.co.uk/assistive.htm](http://www.fx-software.co.uk/assistive.htm)
  + To change the bar color and size, right click on the bar and select **Controls.**
  + To lock the bar to the mouse cursor, right click on the bar and select **Lock.**

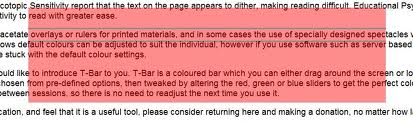


Figure 8: Example of T-Bar

# Windows Built-Ins: Available in Windows 7, Vista and XP

Student is able to:

* Adjust the background color of the screen as it appears in Windows applications
* Adjust size, font and colors of toolbars in Windows applications within Display options
* These settings will carry over in Microsoft Word and Outlook

## Windows XP

Example of background color change in Microsoft applications and instructions how to change background color


Figure 9: Example of background color change in Windows XP with directions

## Windows 7

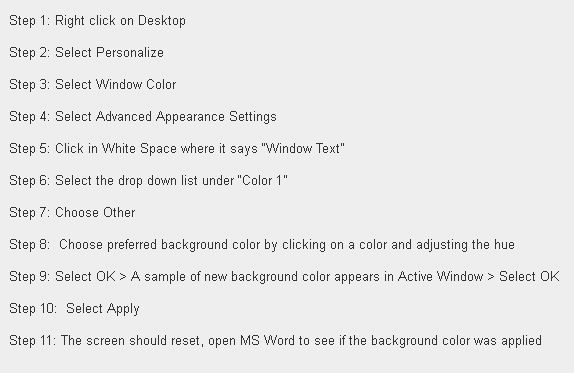


Figure 10: Example of background color change in Windows 7 with directions

# Free Software for Mac:

## Screen Shades

Student is able to:

* Tint the entire screen with preferred color.
  + [Download Screen Shades: http://download.cnet.com/Screen-Shades/3000-2094\_4-209362.html](http://download.cnet.com/Screen-Shades/3000-2094_4-209362.html)
  + Launch Screen Shades – a Control Panel will appear.
  + Select desired tint, or click on **My Tint** to customize the color.
  + To adjust the tint darkness, move the scrollbar to the right or left.

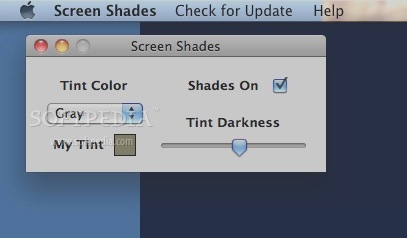


Figure 11: Screen Shades Control Panel and tinting

# iOS Built-Ins: Mac and iOS Mobile Devices

Available in **Setting Preferences > Accessibility** on a Mac

Available in **Settings > General >Accessibility** on iPad, iPhone, or iTouch

Student is able to:

* Adjust contrast, invert colors, or use a gray scale
* Adjust size of font, and zoom options.
* In newer versions of MS Word for Mac, change the background color by clicking on **Layout** then **Color** under Page Background. Select preferred color.



Figure 12: Mac OS running in Grayscale mode

# Adobe Reader and Adobe Acrobat Pro

Student is able to:

* Adjust background color in PDFs for Windows and Mac
  + Go to **Preferences** > **Accessibility** > click on **Page Background**
  + Use color pane to select preferred color
  + Note – the PDF must be in an accessible format for this to work

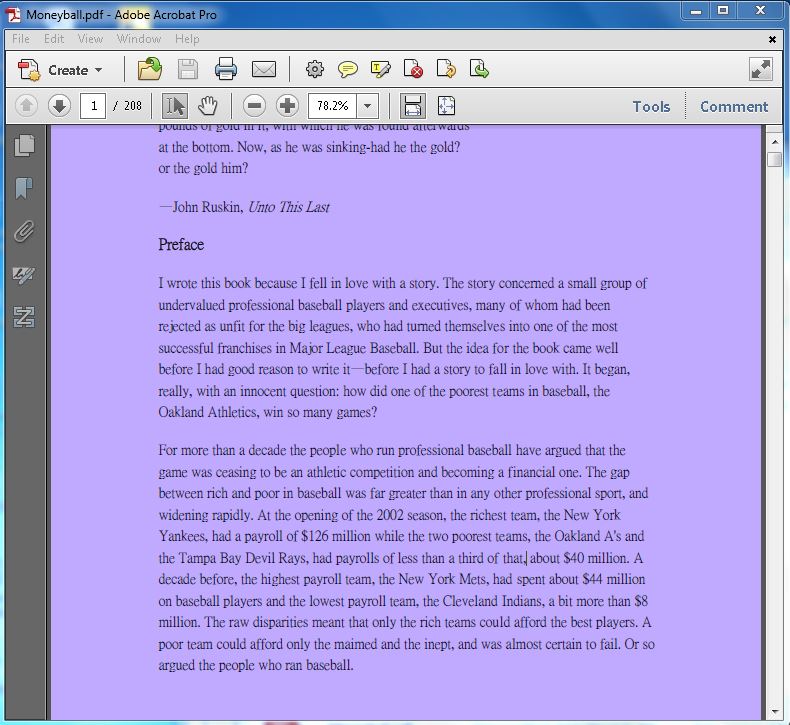


Figure 13: Purple background color change in PDF

# Apps

## Voice Dream Reader – iOS only

Student is able to:

* [Download Voice Dream Reader: https://itunes.apple.com/us/app/voice-dream-reader/id496177674?mt=8](https://itunes.apple.com/us/app/voice-dream-reader/id496177674?mt=8)
* Adjust the background color, text size, and font
* Adjust the margins, line spacing, and character spacing
* Adjust highlighting colors as the text is read aloud
* Mask everything except for 1 line, 3 lines, or 5 lines



Figure 14: Example of color adjustments in Voice Dream Reader app

## Screen Adjuster – Android only

Student is able to:

* [Download Screen Adjuster: https://play.google.com/store/apps/details?id=com.netmanslab.sa](https://play.google.com/store/apps/details?id=com.netmanslab.sa)
* Tint the entire screen using an overlay
* Adjust the color, contrast, and brightness of the overlay
* Adjust system brightness



Figure 15: Screen overlay adjustments in Screen Adjuster app