

## What's New in ZoomText 2020

### **Faster and more stable**

We are happy to announce the release of ZoomText 2020. Our year spent optimizing the software has culminated in speed and performance improvements that make ZoomText 2020 the best release to date.

If you use ZoomText's AppReader with Google Chrome, you will notice that web pages open much more quickly. Also, navigation is greatly improved, with enhancements to focus, cursor, and echo functionality. If you use Gmail or Facebook, you'll see better cursor tracking.

Previously, when running AppReader with Chrome, it could take from five to 15 seconds to start AppReader on dynamic web pages. With ZoomText 2020, that time has been reduced to under one second. In addition, you'll notice better link, line, word, sentence, and paragraph navigation.

### **Now Optimized for 64-bit Windows OS**

ZoomText 2019 and earlier ran as a 32-bit application on Windows 64-bit computers. ZoomText 2020 now runs as a 64-bit application. This improves both speed and performance.

To take advantage of these improvements, we invite you to [download and install ZoomText 2020](#) today.

## What's New in Fusion 2020

### **Reduced Double Speaking of Form Control Prompts**

When navigating and filling out forms on the web, it has become increasingly common for web page authors to include the prompt inside the control in addition to assigning an accessible Tag for the control. While non-screen reader users only see the written prompt, those using a screen reader are getting both the Prompt and accessible Tag in Speech as well as Braille if a display is in use. Often times, the web page author has assigned the same text for each, so it appears the screen reader is double speaking. In JAWS 2020, we have greatly reduced the amount of double speaking of form controls as you navigate using speech and Braille by comparing the prompt and these tags, and only speaking or brailleing them both if they are different.

### **Zoom Meeting Scripts Added for an Improved Experience**

Thanks to Hartgen Consulting, basic scripts for Zoom are now included directly in Fusion and JAWS to improve the experience when attending Zoom Meetings. This platform is used for our quarterly FS Open Line program as well as the free training webinars we hold each month.

These scripts offer a better experience by giving more control over what you hear, without interrupting the flow as users enter or leave the room or make comments. Press **INSERT+H** to view a list of JAWS keystrokes available in Zoom such as turning off alerts, speaking recent chat messages, and more. You can also press **INSERT+W** to view a list of Zoom hot keys.

[Hartgen Consultancy](#) also offers more advanced scripts for Zoom Pro if you are interested.

### **Convenient OCR Updated to Use the Latest OmniPage**

The recognition engine used by the JAWS Convenient OCR feature has been updated to Kofax OmniPage 20, formerly owned by Nuance. This offers greater accuracy when recognizing the text from on-screen images as well as text from images captured with a PEARL camera or scanner.

For users needing to OCR using Hebrew or Arabic, these languages are automatically installed with any English or Western European download of Fusion and JAWS.

### **Toggle JAWS Sounds in Speech On Demand**

Introduced in Fusion 2018 and JAWS 2018, Speech On Demand allows you to limit the amount of speech you hear as you navigate windows and documents or perform other actions using hot keys and is activated using a convenient layered keystroke (**INSERT+SPACEBAR** followed by **S**). For JAWS users who rely heavily on Braille or for users of Fusion that can see well enough to use the screen for tracking focus, too much speech can be overwhelming while navigating using the keyboard and mouse. By default, when using Speech On Demand, JAWS only announces actions for a limited set of screen reading keystrokes such as reading the current character, word, line, window title, and so on. Windows navigation commands such as moving to the next or previous character, line, or word do not speak. Refer to "Speech On Demand" in the JAWS help for a full list of commands that provide speech in this mode.

Fusion 2020 and JAWS 2020 now allow you to specify whether or not JAWS generated sounds are heard when Speech On Demand is active. JAWS sounds include the sound heard when pressing **INSERT+SPACEBAR** to perform a layered keystroke as well as the sound heard when completing an address in Outlook. By default, JAWS sounds will continue to be heard. If you do not want to hear JAWS sounds when Speech On Demand is active or when speech is completely muted, open Settings Center, expand the Speech Options group, and clear the "Play JAWS Sounds" check box. You can customize other Speech On Demand settings in this group as well.

### **Improved Fusion and JAWS Installation for Multi-Lingual Computers and Applications**

When performing a full installation of Fusion 2020 or JAWS 2020 on computers offering multiple languages for Windows or specific applications like Office, you now have the opportunity to install additional JAWS languages to match the available operating system or application languages. This makes it more convenient for agencies and other groups using

multi-lingual systems as they can easily switch the JAWS user interface language to match the current operating system language without having to uninstall and install a different version of JAWS.

On the main setup screen, choose the Options button to display a list of available JAWS languages for installation. Use the **SPACEBAR** to select the languages you want to install and then select **OK** to continue. Once JAWS is installed, Use the Language menu in the JAWS application window to switch between languages. Before switching the JAWS language, make sure you have configured Windows to use the matching language. Otherwise, JAWS keystrokes and other features may not work as expected.

**Note:** This is not recommended for users who just want to read web pages or documents in a secondary language. For these users, you only need to install additional voices for that language and allow Fusion or JAWS to switch automatically. Changing the software's user interface to a language other than that of the Operating System will create problems trying to navigate and work with applications in the primary language.

### Virtual Cursor Toggle Now Tab Specific in Google Chrome

Today, there are many web apps where using the Virtual Cursor is not the best approach. An example of this can be seen if you use Gmail in the Chrome Browser. In these cases, it makes sense to toggle the Virtual Cursor off by pressing **INSERT+Z** and then use this application with the PC cursor. Many users also regularly open multiple tabs (**CTRL+T**) so they can easily access different sites such as GMail plus one or two other pages by moving between the open tabs using **CTRL+TAB**. This can become frustrating as you need to constantly press **INSERT+Z** to get the right cursor in use as you switch between tabs.

Beginning with version 2020, we are introducing an option to help JAWS automatically remember the state of the Virtual Cursor for each tab once you set it. It will also announce whether the Virtual Cursor is on or off as you move between various tabs. Once you close the browser, or restart JAWS, it will default back to its default behavior so you will need to set this each day as you use it.

This feature is turned on by default. To toggle this option, do the following:

- Press **INSERT+6** to open Settings Center.
- Press **CTRL+SHIFT+D** to load the default file.
- Type "Tab" in the search field.
- Press **DOWN ARROW** until you locate "Virtual Cursor On/Off based on Browser Tabs."
- Press the **SPACEBAR** to change the option and then select **OK**.

## Filter Control Characters in Braille

Depending on the application you are using, control characters may be used to represent certain document elements like page breaks or line breaks. JAWS now allows you to configure whether or not these control characters are shown on the Braille display. By default, JAWS does not output these control characters in Braille to help provide a smoother reading experience. However, there may be times when having control characters displayed in Braille could be helpful when editing text.

To display control characters in Braille, open Settings Center, expand Text Processing, expand Proofing, and clear the "Filter Control Characters such as Page Breaks" check box. Control characters will be displayed correctly for both Computer Braille and Contracted Braille output.

## General Changes in Response to Customer Requests

While browsing the internet, JAWS will no longer announce "Clickable" by default as you move to various content.

You should no longer hear the message "Press **JAWS Key+ALT+R** to hear descriptive text" as you navigate form controls and certain other elements on the web.

Removed extraneous "Insert F1 Help" announcements that were heard when navigating through various controls on the web.

By default in Word and Outlook, JAWS will no longer announce "**ALT SHIFT F10** to adjust Auto Correction" when you move to something that was auto corrected previously. JAWS and Fusion will no longer gather and announce the count of all the objects, misspellings, grammatical errors, and so on when a document is opened in Word. This will enable documents to load much faster, including very large documents containing a lot of these items. You can always press **INSERT+F1** for an overview of what the document contains.

## Improved responsiveness when closing Word after saving a document.

The AutoCorrect Detection option, previously only available in the Quick Settings for Word, can now also be changed in the Quick Settings for Outlook (**INSERT+V**).

Pressing **INSERT+W** while focused in PowerPoint now displays a list of useful PowerPoint hot keys.

In Google Docs, JAWS now announces the currently selected menu when you activate a menu or use **LEFT** and **RIGHT ARROW** to move between menus. In addition, if a document contains lists, JAWS now indicates list item markers such as "1, 2, 3."

## Updated BraillePen Display Driver

We have added an updated driver from Harpo in Poland to support their New BraillePen 14 Braille device in addition to the previously supported BraillePen 12T. Now, all models are supported by this driver.

## JAWS 2020 Features

### Reduced Double Speaking of Form Control Prompts

When navigating and filling out forms on the web, it has become increasingly common for web page authors to include the prompt inside the control in addition to assigning an accessible Tag for the control. While non-screen reader users only see the written prompt, those using a screen reader are getting both the Prompt and accessible Tag in Speech as well as Braille if a display is in use. Often times, the web page author has assigned the same text for each, so it appears the screen reader is double speaking. In JAWS 2020, we have greatly reduced the amount of double speaking of form controls as you navigate using speech and Braille by comparing the prompt and these tags, and only speaking or brailleing them both if they are different.

### Zoom Meeting Scripts Added for an Improved Experience

Thanks to Hartgen Consulting, basic scripts for Zoom are now included directly in JAWS and Fusion to improve the experience when attending Zoom Meetings. This platform is used for our quarterly FS Open Line program as well as the free training webinars we hold each month. These scripts offer a more pleasant experience by giving more control over what you hear, without interrupting the flow as users enter or leave the room or make comments.

Press **INSERT+H** to view a list of JAWS keystrokes available in Zoom such as turning off alerts, speaking recent chat messages, and more. You can also press **INSERT+W** to view a list of Zoom hot keys.

[Hartgen Consultancy](#) also offers more advanced scripts for Zoom Pro if you are interested.

### Enhanced JAWS and Invisible Cursor Support for Windows 10 Universal Apps

For years, JAWS users have relied on the JAWS cursor (**NUM PAD MINUS**) and Invisible cursor (**NUM PAD MINUS** twice quickly) to review and interact with areas in an application where the PC cursor cannot go. This includes reading textual information which is on-screen but not focusable, and interacting with controls which are only accessible using a mouse as the mouse pointer will follow the JAWS cursor and NUM PAD SLASH and NUM PAD STAR will perform a left and right click. However, the Off-Screen Model (OSM) which has traditionally been used to support the JAWS and Invisible cursors is becoming less and less available as newer technology such as UIA, found especially in Windows universal apps like the calculator or the Windows Store, is now being used exclusively for accessing screen content. This results

in the JAWS and Invisible cursors becoming unusable when attempting to navigate in those windows. All you would hear in those cases was "blank" as you reviewed the screen. This is because the modern technology currently in use is not able to be captured by the traditional Off-Screen Model. In those cases, the only solution was using the Touch Cursor, something most users are not as familiar with.

JAWS 2020 now detects when focus is in an application where the OSM is not supported and will automatically use the new JAWS Scan cursor in these situations. You will use all of the same navigation commands as you would with the traditional JAWS cursor or the Invisible cursors.

For example, if you open the Calculator or Windows Store in JAWS 2020 and press **NUM PAD MINUS**, you will now hear JAWS announce "JAWS Scan Cursor" as these are apps that do not support the OSM. You can then use the **ARROW** keys like you always have done to move by character, word, line, as well as **INSERT+UP ARROW** to read the current line, or **PAGE UP, PAGE DOWN, HOME, and END**. The mouse pointer will also continue to follow as it always has. The only difference is that the cursor does not move from top to bottom or left to right. Instead, it moves by element the way the developer laid out the app.

While this works in many places, there are still some areas where more work by Freedom Scientific is required. For instance, if you use Office 365, and try to read your Account version information with the JAWS cursor commands, it is still not possible to navigate and read in these places. That work is underway and we plan to have an update for this area in the 2020 version soon. Stay tuned.

### **Convenient OCR Updated to Use the Latest OmniPage**

The recognition engine used by the JAWS Convenient OCR feature has been updated to Kofax OmniPage 20, formerly owned by Nuance. This offers greater accuracy when recognizing the text from on-screen images as well as text from images captured with a PEARL camera or scanner.

For users needing to OCR using Hebrew or Arabic, these languages are automatically installed with any English or Western European download of JAWS and Fusion.

### **Virtual Cursor Toggle Now Tab Specific in Google Chrome**

Today, there are many web apps where using the Virtual Cursor is not the best approach. An example of this can be seen if you use Gmail in the Chrome Browser. In these cases, it makes sense to toggle the Virtual Cursor off by pressing **INSERT+Z** and then use this application with the PC cursor. Many users also regularly open multiple tabs (**CTRL+T**) so they can easily access different sites such as Gmail plus one or two other pages by moving between the open

tabs using **CTRL+TAB**. This can become frustrating as you need to constantly press **INSERT+Z** to get the right cursor in use as you switch between tabs.

Beginning with version 2020, we are introducing an option to help JAWS automatically remember the state of the Virtual Cursor for each tab once you set it. It will also announce whether the Virtual Cursor is on or off as you move between various tabs. Once you close the browser, or restart JAWS, it will default back to its default behavior so you will need to set this each day as you use it.

This feature is turned on by default. To toggle this option, do the following:

1. Press **INSERT+6** to open Settings Center.
2. Press **CTRL+SHIFT+D** to load the default file.
3. Type "Tab" in the search field.
4. Press **DOWN ARROW** until you locate "Virtual Cursor On/Off based on Browser Tabs."
5. Press the **SPACEBAR** to change the option and then select OK.

## Contracted Braille Input Enhancements

For ElBraille users as well as those who regularly use a Braille display with their PC, JAWS 2020 offers significant improvements when typing in contracted Braille. In particular:

- You should now be able to enter and edit text in numbered and bulleted lists in Word, WordPad, Outlook, and Windows Mail.
- Contracted Braille input is now supported in more applications including PowerPoint and TextPad.
- Improved Contracted Braille input in WordPad, especially when editing a numbered or bulleted list created in Word and opened in Wordpad. This includes properly handling wrapped items which previously showed the number or bullet on subsequent wrapped lines, rather than indenting the text.
- Improved Contracted Braille input in Chrome, Google docs, and other online editors which can create bulleted and numbered lists.
- Typing rapidly using Contracted Braille in Microsoft Office as well as other applications should no longer result in text becoming scrambled.

## Updated JAWS Basic Training

The JAWS Basic Training has been updated to include the latest features in JAWS 2020. There will still be the same nine books, however each book has been reorganized to be more task oriented as well as simplified to apply to more people in more situations. For instance, in the JAWS User Interface and Utilities book, we won't be trying to show everything in the UI as we did in the past. Instead, we point out the most important things and where to find them in both

the menus and in the Utilities folder. This makes it easier for teachers, instructors, IT professionals, etc. to get an overview of where to find things quickly.

To update a book, do the following:

1. Press **INSERT+J** to open the JAWS application window.
2. Press **ALT+H** to choose the Help menu, and then press **ENTER** to choose Training.
3. FSReader opens and displays the JAWS Training Table of Contents which contains links to all of the available DAISY training books. Use the **ARROW** keys to navigate to the book you want to open and then press **ENTER**. If the book is not currently on your computer or an updated book is available, FSReader will automatically download and install it.
4. Repeat this process for each book you want to download.

## Toggle JAWS Sounds in Speech On Demand

Introduced in JAWS and Fusion 2018, Speech On Demand allows you to limit the amount of JAWS speech you hear as you navigate windows and documents or perform other actions using hot keys and is activated using a convenient layered keystroke (**INSERT+SPACEBAR** followed by **S**).

For JAWS users who rely heavily on Braille or for users of Fusion that can see well enough to use the screen for tracking focus, too much speech can be overwhelming while navigating using the keyboard and mouse. By default, when using Speech On Demand, JAWS only announces actions for a limited set of screen reading keystrokes such as reading the current character, word, line, window title, and so on. Windows navigation commands such as moving to the next or previous character, line, or word do not speak. Refer to the Speech On Demand topic in the JAWS Help for a full list of commands that provide speech in this mode.

JAWS and Fusion 2020 now allow you to specify whether or not JAWS generated sounds are heard when Speech On Demand is active. JAWS sounds include the sound heard when pressing **INSERT+SPACEBAR** to perform a layered keystroke as well as the sound heard when completing an address in Outlook. By default, JAWS sounds will continue to be heard. If you do not want to hear JAWS sounds when Speech On Demand is active or when speech is completely muted, open Settings Center, expand the Speech Options group, and clear the "Play JAWS Sounds" check box. You can customize other Speech On Demand settings in this group as well.

## Filter Control Characters in Braille

Depending on the application you are using, control characters may be used to represent certain document elements like page breaks or line breaks. JAWS now allows you to configure whether or not these control characters are shown on the Braille display. By default, JAWS does not output these control characters in Braille to help provide a smoother reading

experience. However, there may be times when having control characters displayed in Braille could be helpful when editing text.

To display control characters in Braille, open Settings Center, expand Text Processing, expand Proofing, and clear the "Filter Control Characters such as Page Breaks" check box. Control characters will be displayed correctly for both Computer Braille and Contracted Braille output.

## General Changes in Response to Customer Requests

- While browsing the internet, JAWS will no longer announce "Clickable" by default as you move to various content.
- You should no longer hear the message "Press JAWS Key+ALT+R to hear descriptive text" as you navigate form controls and certain other elements on the web.
- Removed extraneous "Insert F1 Help" announcements that were heard when navigating through various controls on the web.
- By default in Word and Outlook, JAWS will no longer announce "Alt SHIFT F10 to adjust Auto Correction" when you move to something that was auto corrected previously.
- JAWS and Fusion will no longer gather and announce the count of all the objects, misspellings, grammatical errors, and so on when a document is opened in Word. This will enable documents to load much faster, including very large documents containing a lot of these items. You can always press INSERT+F1 for an overview of what the document contains.
- Improved responsiveness when closing Word after saving a document.
- The AutoCorrect Detection option, previously only available in the Quick Settings for Word, can now also be changed in the Quick Settings for Outlook (INSERT+V).
- Pressing **INSERT+W** while focused in PowerPoint now displays a list of useful PowerPoint hot keys.
- In Google Docs, JAWS now announces the currently selected menu when you activate a menu or use **LEFT** and **RIGHT ARROW** to move between menus. In addition, if a document contains lists, JAWS now indicates list item markers such as "1, 2, 3."

## Updated BraillePen Display Driver

Added an updated driver from Harpo in Poland to support their New BraillePen 14 Braille device in addition to the previously supported BraillePen 12T. Now, all models are supported by this driver.

## Improved JAWS and Fusion Installation for Multi-Lingual Computers and Applications

When performing a full installation of JAWS or Fusion 2020 on computers offering multiple languages for Windows or specific applications like Office, you now have the opportunity to install additional JAWS languages to match the available operating system or application languages. This makes it more convenient for agencies and other groups using multi-lingual

systems as they can easily switch the JAWS user interface language to match the current operating system language without having to uninstall and install a different version of JAWS.

On the main setup screen, choose the Options button to display a list of available JAWS languages for installation. Use the **SPACEBAR** to select the languages you want to install and then select OK to continue. Once JAWS is installed, Use the Language menu in the JAWS application window to switch between languages. Before switching the JAWS language, make sure you have configured Windows to use the matching language. Otherwise, JAWS keystrokes and other features may not work as expected.

**Note:** This is not recommended for users who just want to read web pages or documents in a secondary language. For these users, you only need to install additional voices for that language and allow JAWS or Fusion to switch automatically. Changing the User Interface of JAWS to a language other than that of the Operating System will create problems trying to navigate and work with applications in the primary language.

## Download Links:

- ZoomText Download Link: [ZT2020.1910.77.400.exe](#)
- ZoomText Offline Installer: [ZT2020.1910.77.400-Offline.exe](#)
- ZoomText ISO and Artwork Links:
  - [ZT2020\\_MUL.iso](#)
  - [Zoomtext\\_CD\\_2020.zip](#)
  
- Fusion Download Link: [F2020.1910.17.400.exe](#)
- Fusion Offline Installer: [F2020.1910.17.400-Offline.exe](#)
- Fusion ISO and Artwork Links / English – ENU
  - [F2020\\_ENU.iso](#)
  - [DVD\\_Fusion\\_2020\\_Artwork\\_English\\_Outlines.zip](#)
  
- JAWS Download Link: [J2020.1910.54.400.exe](#)
- JAWS Offline Installers:
  - [J2020.1910.54.400-Offline-x64.exe](#)
  - [J2020.1910.54.400-Offline-x86.exe](#)
  
- JAWS ISO and Artwork Links / English – ENU
  - [J2020\\_ENU.iso](#)
  - [JAWS\\_2020-DVD-Label-Artwork\\_ENGLISH\\_outlines.zip](#)

## **Want to Learn More About Our Products and Services**

You can also call our toll free number 888-211-6933 or email us at [info@nelowvision.com](mailto:info@nelowvision.com). Our two(2) state-of-the-art technology showrooms are a wonderful resource, showcasing a variety of leading electronic low vision magnifiers and blindness products. You can schedule an appointment with one of our Vision Specialists who can help you find the right technology, training and care solution.

If you cannot come to us, our staff can even drive out and bring our Vision Store to you, for a no-obligation product demonstration. We offer a comprehensive line of products including electronic magnification low vision aids, blindness products, and leading low vision products for people with glaucoma, macular degeneration and other forms of vision loss.