



NV Access

Empowering lives through non-visual
access to technology

NVDA

The Open Source
software that levels the
playing field for the blind



Introducing the new NV Access and Redesigned NVDA



CSUN 2018

Wednesday 21st March, 2:20PM


Hillcrest AB



NV Access



Who Are we?

- Michael Curran: Executive Director and founder.
 - Reef Turner: Developer
 - Quentin Christensen: Training and Support Manager
- 

NV Access

- www.nvaccess.org
 - Registered charity, with board of directors, formed in 2007
- 




What is NVDA? (Non-Visual Desktop Access)

- A free and open source screen reader
- Allows the user to "read the screen" via synthetic speech or Braille output
- Written by users, for users
- Over 80,000 users in more than 150 countries and 50 languages
- Stay for "An Intro to Choosing & Using NVDA" here at 3:30



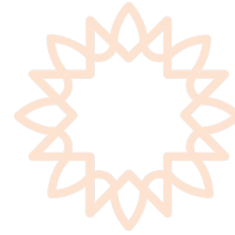
Advantages of NVDA

- Completely free to use (Donations appreciated)
 - Open source. This means:
 - Anyone with skills can contribute
 - Users won't get abandoned.
 - No hassles with licenses expiring, transferring or updating.
 - Portable. Can be used on any computer without installation.
- 



New Features: Access to Windows OneCore Voices

- OneCore Voices built into Windows 10
- Can pause with SHIFT key
- Access to many languages
- Some of the more natural sounding voices around
- Adjust speed using Windows “Speech Settings” system setting as well as in NVDA.



File Edit Format View Help

You are currently hearing NVDA's default synthesizer, eSpeak. To change the synthesizer, press NVDA + control + S, then select the synthesizer of your choice and press enter.

NVDA Speech Viewer

Espeak.txt - Notepad
Text Editor edit multi line
your choice and press enter.
You are currently hearing NVDA's default
synthesizer, eSpeak. To change the synthesizer,
press NVDA + control + S, then select the
synthesizer of
One Core Voice.txt - Notepad row 1 column 2
One Core Voice.txt - Notepad
Text Editor edit multi line
NVDA is now using an Australian Windows One
Core voice, Microsoft Catherine. Available on
Windows 10.
Espeak.txt - Notepad row 1 column 2
Espeak.txt - Notepad
Text Editor edit multi line
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☒ Show Speech Viewer on Startup

New Features: Braille Improvements

- Type contracted braille on a display with a braille keyboard.
- Early support for Google Sheets with Braille mode enabled.
- Support for EuroBraille Esys, Esysime, Iris & Handy Tech Actilino displays
- Updated support for various Alva and HIMS displays
- New Translation tables for Croatian & Vietnamese Grade 1

New Features: Windows 10 OCR

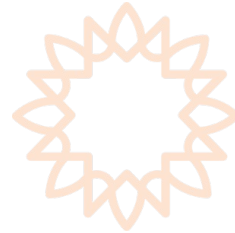
- Built in to Windows 10. No longer need add-on
- Add-on still used for Windows 7 or 8
- Focus image and press NVDA+r to run OCR.
- Use regular reading keys to read results
(add-on used review cursor keys)
- Press ESCAPE when done.





New Features:

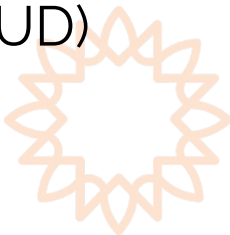
- Charts in Word and PowerPoint
- Improvements in Firefox 58
- New languages: Kyrgyz, Macedonian and Burmese
- First 3rd party screen reader with support for Windows 10 technology such as ARM64, Windows defender application guard and protected folder access.
- More than 154 bugs fixed.





Training

- Basic Training for NVDA
 - eText (Word, HTML, ePub and Kindle KFX): \$30 AUD
 - Downloadable MP3 Daisy audio: \$45 AUD
 - Hardcopy Braille (with free worldwide shipping): \$65 AUD
 - \$1 AUD = ~\$0.78 USD (\$24, \$35 and \$51 USD respectively)
- Microsoft Word with NVDA (eText, \$30 AUD)
- Microsoft Excel with NVDA (eText, \$30 AUD)
- Purchase from www.nvaccess.org/shop



Activity: Copying text with the review cursor:

1. Make sure the "soar" document is open from the previous activity.
2. Use the review cursor to move to the start of the third line ("Gliders and birds").
3. Press **NVDA+f9** to start marking text.
4. Press **shift+numpad 3** (laptop: **NVDA+end**) to move to the end of the current line.
5. Press **numpad 1** (laptop: **NVDA+left arrow**) to unselect the last character.
6. Press **NVDA+f10** twice quickly to finish selecting text and copy the text to the clipboard.
7. Move the caret to the first line and select the text "five words".
8. Press **control+v** to paste the copied text, making the first line read "This line has gliders and birds".
9. Close the document without saving.

Upcoming Training packages

- Responsive to user needs and interest
- Looking at new ways of packaging training and support.
- What do YOU want?



NVDA Certified Expert Program

- Online, time limited, question based
- <https://certification.nvaccess.org/>
- Printable certificate
- List contact details for others to find you






Information for government users

- VPAT 2.0 (USA)
- License agreement
- NDIS (Australia)
- Telephone support
- Packages



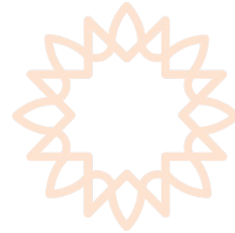


Rebranding

- Undertook a rebranding effort
 - To better understand our own values and mission
 - To better communicate our values and mission
 - Our vision: To see a world where every piece of technology is easily accessible to blind and vision impaired people, regardless of language, location or financial situation.
 - Our mission: to develop free, globally available software products for the blind, while partnering with our open source community to ensure that our real users get a genuine say in their own access to technology.
- 

New NV Access logo

- A new sunburst logo
- An abstract sun, with interconnecting lines to represent the community of people that come together under one shared mission.
- Connection + collaboration to bring brighter futures
- Tagline: Empowering lives through non-visual access to technology



New NV Access logo



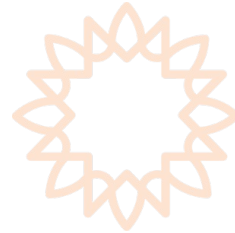
NV Access

**Empowering lives through non-visual
access to technology**



Website:

- Currently creating a new website
- To better tell our story
- Reaching more donors and supporters
- Better explain our products to aid in choice for governments corporates and NGOs





NV Access



https://www.nvaccess.org



Search



NV Access

Empowering lives through
non-visual access to technology

DONATE

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WE BELIEVE THAT

every Blind + Vision Impaired person

DESERVES THE RIGHT TO

freely & easily access a computer!



WE CREATE THE SOFTWARE WHICH MAKES THAT POSSIBLE





Promo Video:

- Show impact of our work, especially developing countries
- What is NVDA
- Why we do it: everyone has a right to contribute to society, but may need the tools to do it.
- How you can help: donations, project contributions







NVDACon 2017



- Last years NVDACon focused on community.
- NV Access highlighted how people can help us to make NVDA better than ever.
- Big response to session in NVDACon 2017
 - Presentation available at: <https://www.nvdacon.org/2017nc>
- Since then:
 - Community led round of house cleaning for Github issues.
 - Code contributed from outside of NV Access has increased from 35% to 46% of all pull requests.



NV Access



Community Instigated House Cleaning

- 27% works for me
- 22% duplicate
- 20% invalid
- 17% wont fix
- 9% needs external fix
- 5% can't fix





Room for collaboration

- Companies or individuals can contribute.
- Processing issues
 - Reproducing issues and providing logs or other information.
 - Feedback on feature requests.
 - Fixing open bugs or implementing requested features.
- Reviewing code contributions
- Plenty of people opening new issues
 - Average of 90 new issues per month





NVDA Council

- Steer the direction of NVDA and its features.
- Represent the international NVDA community
 - Europe, USA, and Australia.
- Companies other than NV Access.
- Broad range of backgrounds
- Ensure the greater NVDA community is represented.
- Ensure NVDA is a truly open project.





Upcoming features

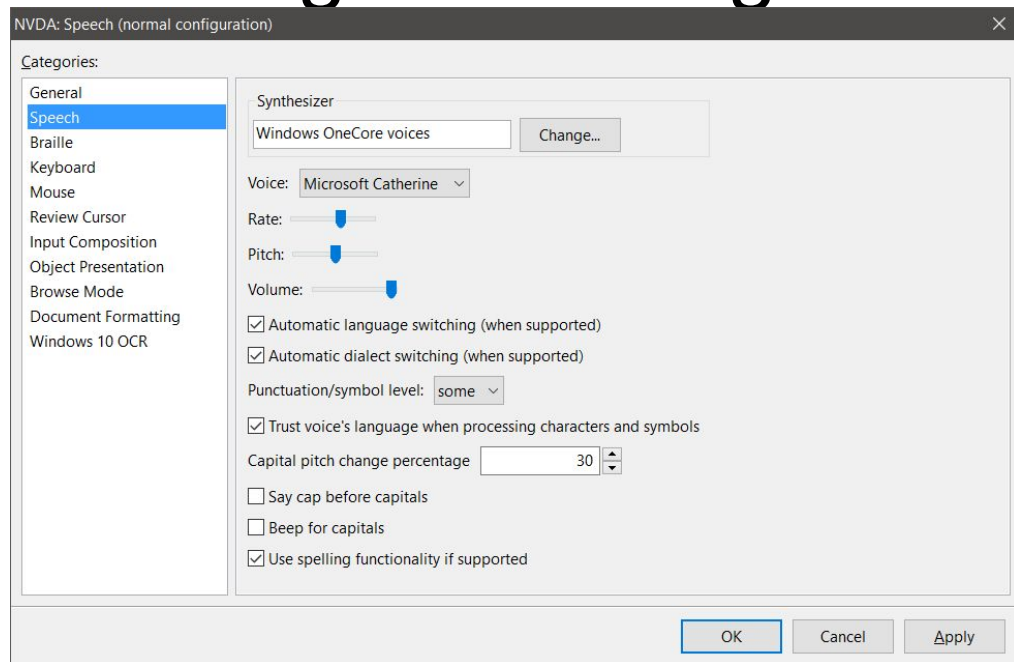
- Performance improvements in Microsoft Word 2016/365 by Making use of Microsoft's UI Automation API
- Fix a significant lag in Microsoft Excel when navigating spreadsheets containing comments or dropdowns
- Automatic Braille display detection
- Support for Humanware BrailleNote Touch and BrailleNote BI 14
- Support for tables in Amazon Kindle for PC
- A new Settings UI

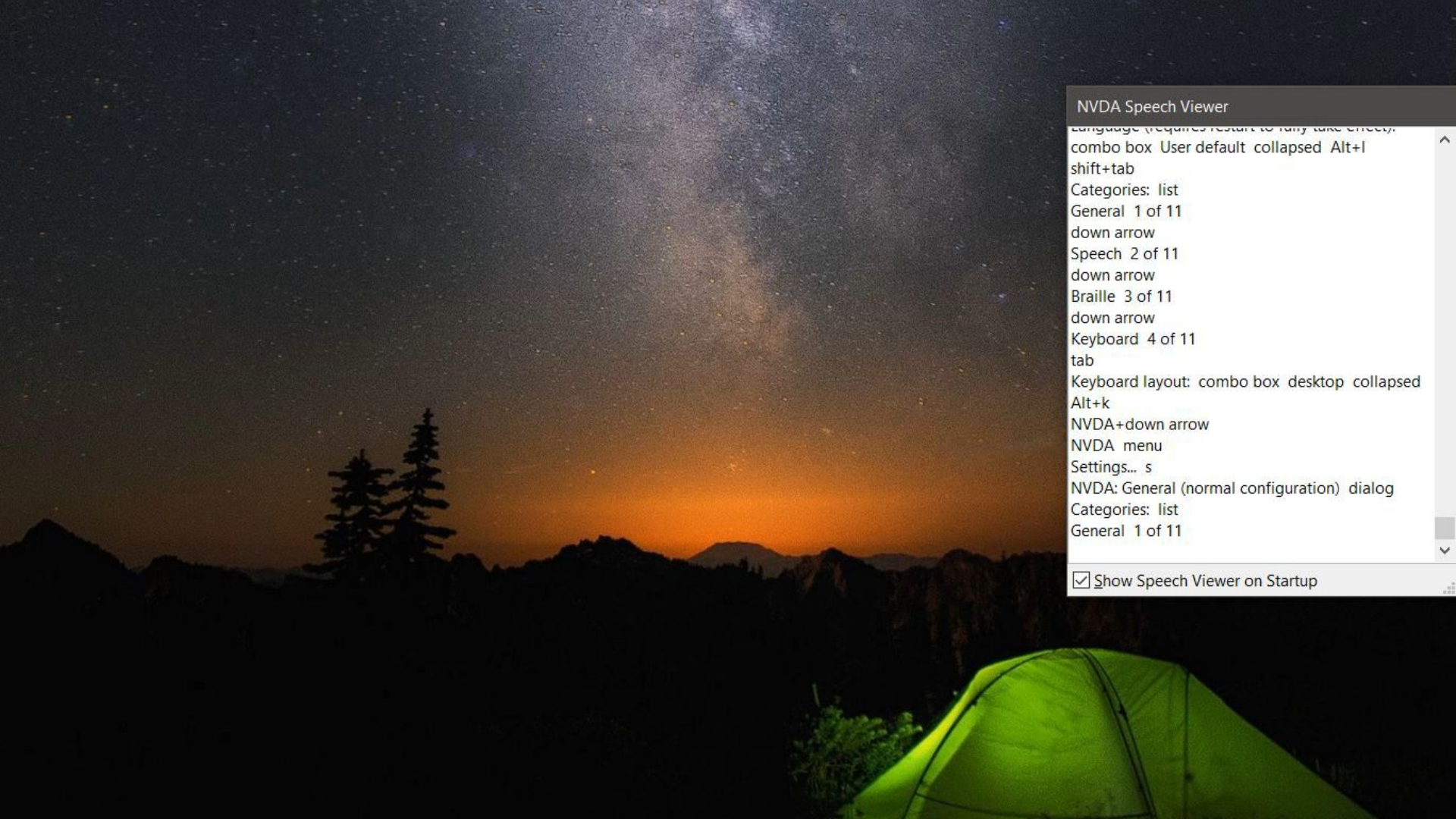


NV Access



Redesigned settings interface





NVDA Speech Viewer

Language (requires restart to fully take effect):

combo box User default collapsed Alt+I
shift+tab

Categories: list

General 1 of 11

down arrow

Speech 2 of 11

down arrow

Braille 3 of 11

down arrow

Keyboard 4 of 11

tab

Keyboard layout: combo box desktop collapsed
Alt+k

NVDA+down arrow

NVDA menu

Settings... s

NVDA: General (normal configuration) dialog

Categories: list

General 1 of 11

☒ Show Speech Viewer on Startup



Join the community

- E-Mail list: <https://nvda.groups.io/g/nvda>
- NVDACon: <https://www.nvdacon.org/>
- Developer e-mail list: <https://nvda.groups.io/g/devlearning>
- GitHub: <https://github.com/nvaccess/nvda/issues>
- Translating NVDA:
<https://github.com/nvaccess/nvda/wiki/Translating>





Contact NV Access

- E-Mail: info@nvaccess.org
- Twitter: @NVAccess
- Facebook: [facebook.com/nvaccess](https://www.facebook.com/nvaccess)
- Follow our In-Process blog:
<https://www.nvaccess.org/category/in-process/>



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Thank you for coming. We hope you got something from the session.

