

Software ed Estensioni per Accessibilità

Screen reader (lettori schermo) e Sintesi vocale

NVDA (NonVisual Desktop Access)

- **Download:** <https://www.nvaccess.org/download/>
- **Licenza:** Gratuito, open source
- **Compatibilità:** Windows 7, 8, 10, 11
- **Uso per demo:** Configurare voce italiana, velocità 50% per pubblico
- **Shortcuts essenziali:**
 - H = Naviga per headings
 - T = Naviga per tabelle
 - G = Naviga per immagini
 - Ctrl = Stop lettura

JAWS (Job Access With Speech)

- **Download:** <https://www.freedomscientific.com/products/software/jaws/>
- **Licenza:** Commerciale (~2000€), trial 40 min
- **Pro:** Standard de facto professionale
- **Contro:** Costoso, per demo meglio NVDA

Windows Narrator (Assistente Vocale)

- **Attivazione:** Win + Ctrl + Enter
- **Pro:** Preinstallato, integrazione sistema
- **Uso:** Test rapido compatibilità Windows native

Verifica accessibilità

WebAim Contrast Checker

- **URL:** <https://webaim.org/resources/contrastchecker/>
- **Uso:** Verifica rapida contrasto colori (WCAG AA: 4.5:1)
- **Feature:** Input hex codes o color picker

Adobe Acrobat Pro

- **Funzione:** Accessibility Checker integrato
- **Path:** Tools > Accessibility > Full Check
- **Output:** Report dettagliato con fix suggestions
- **Essential:** Per validazione PDF finali

WAVE Browser Extension

- **Chrome:** <https://chrome.google.com/webstore/detail/wave-evaluation-tool/>

- **Firefox:** <https://addons.mozilla.org/firefox/addon/wave-accessibility-evaluation/>
- **Uso:** Analisi real-time pagine web
- **Visual:** Overlay con errori evidenziati

axe DevTools

- **Chrome:** <https://chrome.google.com/webstore/detail/axe-devtools-web-accessibility/>
- **Edge:** Disponibile in Microsoft Store
- **Pro:** Automated + guided testing
- **Report:** Esportabile per documentation

Simulatori di tipi di disabilità

Color Oracle

- **Download:** <https://colororacle.org/>
- **Funzione:** Simula daltonismo (Deuteranopia, Protanopia, Tritanopia)
- **Compatibilità:** Windows 10/11
- **Uso:** Overlay full-screen real-time

NoCoffee Vision Simulator (Chrome)

- **Extension:** <https://chrome.google.com/webstore/detail/nocoffee/>
- **Simula:** Vari tipi di ipovisione
- **Settings:** Blur, contrast, brightness, field loss
- **Demo perfect:** Per showing impact su esempi PDF

Funkify (Chrome/Edge)

- **Extension:** <https://www.funkify.org/>
- **Simula:** 8 diverse disabilità incluso DSA
- **Scenarios:** Dyslexia, low vision, motor impairments
- **Trial:** Gratuito limitato, subscription per full features

Strumenti di creazione contenuti

Microsoft Word - Accessibility Checker

- **Attivazione:** Review tab > Check Accessibility
- **Real-time:** Mantieni panel aperto durante editing
- **Auto-fix:** Suggestions per alt-text, headings, contrasto

MathType

- **Download:** <https://www.wiris.com/en/mathtype/>
- **Integrazione:** Word, PowerPoint, Google Docs
- **Accessibilità:** Genera MathML + descrizioni verbali
- **Alternative gratuita:** Microsoft Equation Editor built-in

Immersive Reader (Microsoft)

- **Integrazione:** Word, Edge, Office 365
- **Features:** Read aloud, syllable breaks, picture dictionary
- **Demo:** Perfetto per mostrare DSA support

Estensioni per browser

Read&Write (Chrome)

- **Download:** <https://chrome.google.com/webstore/detail/readwrite-for-google-chrome/>
- **Features:** Text-to-speech, dictionary, screenshot reader
- **Free version:** Limitata ma sufficiente per demo
- **Demo:** OCR su screenshot PDF inaccessibili

Mercury Reader (Chrome/Firefox)

- **Funzione:** Cleanup pagine web per readability
- **Benefit:** Rimuove distrazioni, migliora focus
- **Use case:** Simulare reading preferences DSA

Dark Reader (Chrome/Firefox/Edge)

- **Extension:** Automatic dark mode
- **Accessibility:** Riduce affaticamento visivo
- **Custom:** Contrasto, brightness, grayscale adjustments

OpenDyslexic Font Extension

- **Chrome:** <https://chrome.google.com/webstore/detail/opendyslexic-font-for-chrome/>
- **Funzione:** Sostituisce font con OpenDyslexic
- **Demo:** Before/after su testo denso

LaTeX e Matematica Accessibile

MiKTeX (Windows LaTeX Distribution)

- **Download:** <https://miktex.org/download>
- **Packages necessari:** accsupp, pdfcomment, axessibility
- **Output:** PDF con layer accessibili per screen readers

TeXstudio (LaTeX Editor)

- **Download:** <https://www.texstudio.org/>
- **Integration:** Preview real-time + package management
- **Accessibility plugins:** Auto-suggestions per alt-text math

MathJax (Web)

- **URL:** <https://www.mathjax.org/>
- **Funzione:** Rendering math accessibile nei browser

- **Output:** Screen reader compatible math

Strumenti di Utilità

High Contrast Themes

- **Attivazione:** Settings > Ease of Access > High Contrast
- **Themes:** High Contrast Black, White, #1, #2
- **Demo:** Mostrare impact su interface universitarie

Magnifier (Lente di ingrandimento)

- **Shortcut:** Win + Plus
- **Modes:** Fullscreen, lens, docked
- **Zoom:** 100% to 1600%
- **Demo:** Simulare low vision su PDF

On-Screen Keyboard

- **Attivazione:** Settings > Ease of Access > Keyboard
- **Uso:** Simula motor impairments
- **Features:** Click-to-type, hover-to-select

Strumenti di testing

Quick Check Routine (5 minuti)

1. **NVDA test:** Tab navigation + heading jumps
2. **Contrast check:** WebAim su colori principali
3. **Color Oracle:** Verifica daltonismo
4. **Zoom test:** 200% magnification readability
5. **High contrast:** Windows theme switch

Deep Validation (15 minuti)

1. **Adobe Acrobat:** Full accessibility check
2. **WAVE extension:** Complete page analysis
3. **Multiple screen readers:** NVDA + Narrator comparison
4. **Mobile simulation:** Responsive + voice control
5. **Print preview:** Structure verification

Emergency Fixes Toolkit

- **Font replacement:** Arial/Verdana ready
- **Color adjustments:** High contrast palette
- **Alt-text templates:** Math, chemistry, diagrams standard descriptions
- **Structure markup:** H1-H6 hierarchy templates
- **Table alternatives:** List-based layouts ready

INSTALLATION PRIORITY

Essential (Demo critical)

1. **NVDA** - Primary screen reader
2. **WebAim Contrast Checker** - Bookmarked
3. **Color Oracle** - Vision simulation
4. **Adobe Acrobat Pro** - PDF validation

Important (Demo enhancement)

5. **WAVE extension** - Web analysis
6. **Immersive Reader** - DSA demo
7. **High Contrast themes** - Windows setup
8. **NoCoffee simulator** - Browser vision sim

Optional (Advanced demos)

9. **MathType** - Math accessibility
10. **Read&Write** - Chrome enhancement
11. **axe DevTools** - Professional validation
12. **MiKTeX** - LaTeX accessibility

BACKUP CONTINGENCY

Offline alternatives

- **NVDA portable**: USB version for backup laptop
- **Screenshot tools**: Pre-captured contrast examples
- **Video recordings**: Key demos pre-recorded
- **PDF examples**: Embedded in PowerPoint as fallback

Network-free options

- **Windows built-in**: Narrator, Magnifier, High Contrast
- **Offline validators**: Adobe Acrobat Pro check
- **Local simulation**: Color Oracle, NoCoffee cached
- **Template files**: UNIPD examples downloaded locally