



#### 6 Things Screen Readers Catch that Your Document Accessibility Checker Can't

Dax Castro, ADS

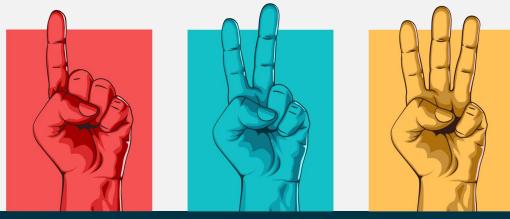
training@accessibilityUnraveled.com





#### By the end of this session, you will be able to:

- Use basic evaluation techniques to understand the real-world impact of accessibility flaws.
- Navigate documents to identify accessibility issues that are not flagged by automated checkers.
- Apply solid techniques to fix identified errors, ensuring documents are truly accessible and user-friendly





#### Basic Control for NVDA





#### Top 10 Testing Shortcuts you should know

#	Function	Shortcut
1.	Mouse Tracking Mode Toggle	Insert + M
2.	Silence	Insert + S / or shift key
3.	Read from this point on	Insert + Down Arrow
4.	Headings	Н
5.	Next Focusable Item	Tab
6.	Graphic	G
7.	List	L
8.	Table	Т
9.	Table Cell Navigation	Ctrl + alt + Left or Right Arrow
10.	Forms (Focus) Mode Toggle	Insert + space bar

#### **User Guide:**

https://www.nvaccess.org/files/nvda/documentation



1. Double Headings

# <H1> Chapter 1: <H1> Introduction



#### 1. Double Headings: Hard Return Problem

# <H1> Chapter 1:¶ <H1> Introduction



#### 1. Double Headings: Soft Return Solution

### <H1>

### 



#### What shouldn't be a heading?

#### ERG Quarterly Report

January 2023 - 2024

#### **ERG Quarterly Report** Ringing in the New Year

January 2023 - 2024



#### Subheadings are almost never Heading Levels

#### ERG Quarterly Report January 2023 - 2024

#### ERG Quarterly Report Ringing in the New Year January 2023 - 2024



#### 2. Fake Lists

- Apples
- Bananas
- Pineapples

- Apples
- Bananas
- Pineapples





#### 2. Real lists vocalize how many items

Bullet Apples Bullet Bananas Bullet Pineapples **List. 3 items** Bullet Apples Bullet Bananas Bullet Pineapples



#### Context Matters List. 29 items

- Argentina
- Australia\*
- Bolivia
- Brazil
- Canada\*
- Brazil
- Chile
- China
- Columbia
- Ecuador
- EU/UK\*

- France
- Germany
- Hong Kong
- India
- Ireland
- Israel
- Italy
- Japan
- Netherlands
- New Zealand
- Norway\*
- \* Enforce compliance for commercial and government websites

- Peru
- Republic of Korea
- Spain
- United Kingdom
- Uruguay
- USA
- Venezuela



#### 1.3.1 Info and Relationships (A)

Information, structure, and relationships conveyed through presentation can be programmatically determined or are available in text.

# If it is a list, tag it as a list.



#### 3. Unicode Bullets

- Not all bullets are created equal.
- Verbose bullets increase cognitive load.
- You can fix but watch out for ordered lists.

Bullet	JAWS Interpretation	Base Font
• Text	Bullet	Arial
o Text	Oh	Arial
Text	Arrow Bullet	Arial
🗸 Text	Checkmark Bullet	Arial
<ul> <li>Text</li> </ul>	Starred Bullet	Arial
» Text	Right Double Angle Bracket	Arial
« Text	Left Double Angle Bracket	Arial
<ul> <li>Text</li> </ul>	Filled Square Bullet	Arial
<ul> <li>Text</li> </ul>	Black Right Pointing Pointer	Arial
<ul> <li>Text</li> </ul>	Black Left Pointing Pointer	Arial
▲ Text	Black Up Pointing Triangle	Arial
▼ Text	Black Down Pointing Triangle	Arial
Text	*Not Voiced	Arial
♦ Text	Lozenge	Arial
Text	Inverse Bullet	Arial
Text	Inverse White Circle	Arial
<ul> <li>Text</li> </ul>	Black Square	Arial
• Text	White Bullet	Arial
🗆 Text	White Square	Arial

https://www.accessibilityunraveled.com/accessibility-tips/how-does-my-bullet-sound-in-jaws/



### 4. Ligatures ff fi ffi fl ffl fb ffb fh ffh fk ffk fj ffj

Intent	Vocalization
Of <u>fi</u> ce	Ofice
Bene <mark>fi</mark> t	Beneft
O <u>f</u> f	of
Ma <u>tt</u> er	Mater
Ac <u>ti</u> on	Acton
<u>Fl</u> uent	Fuent

## Benefit

44					**	
æ	Character	Paragraph	OpenType	<u>þ</u> .	≡	P
	Figure: De	fault Figure			~	
	Position: De	fault Position			~	
1	fi 0″ :	st A aa	∏ 1st	1⁄2		
<b>^</b>	<sup>c</sup> Standard	Ligatures	raph Styles			
	[Normal Par	agraph Style]+				



#### 5. Drop Caps

roomstick Benny lived in a quaint village nestled between rolling hills. He wasn't your ordinary honeybee;

Benny had a mind of his own and loved nothing more than to clean, clean, clean. Every night, when the moon hung high in the sky and the stars twinkled brightly, Benny would clean his room with his favorite stick.



Drop Caps will always require work in the PDF to fix.

B + roomstick



#### 6. Complex Table Structure

Region	Apples	Corn	Potatoes			
Western	Western					
Los Angeles	263 bushels	150 bushels	63 bushels			
Sacramento	286 bushels	68 bushels	199 bushels			
Midwest						
Fort Worth	32 bushels	58 bushels	77 bushels			
Omaha	45 bushels	12 bushels	42 bushels			
Eastern						
Florida	78 bushels	96 bushels	263 bushels			
New York	120 bushels	99 bushels	66 bushels			

#### **Column Headers**

Region	Apples	Corn	Potatoes
Western			
Los Angeles	263 bushels	150 bushels	63 bushels
Sacramento	286 bushels	68 bushels	199 bushels
Midwest			
Fort Worth	32 bushels	58 bushels	77 bushels
Omaha	45 bushels	12 bushels	42 bushels
Eastern			
Florida	78 bushels	96 bushels	263 bushels
New York	120 bushels	99 bushels	66 bushels



#### Is this Accessible?

RegionT	Apples	Corn	Potatoes
Western			
Los Angeles	263 bushels	150 bushels	63 bushels
Sacramento	286 bushels	68 bushels	199 bushels
Midwest			
Fort Worth	32 bushels	58 bushels	77 bushels
Omaha	45 bushels	12 bushels	42 bushels
Eastern			
Florida	78 bushels	96 bushels	263 bushels
New York	120 bushels	99 bushels	66 bushels

#### Everything stacks without Cell IDs

Region	Apples 🤇	Corn	Potatoes
Western			
Loo Angeles	263 bushels	150 bushels	63 bushels
Sacrantento	286 bushels	68 bushels	199 bushels
Midwest			
Fort Worth	32 bushels	58 bushels	77 bushels
Omaha	45 bushels	12 bushels	42 bushels
Eastern			
Florida	78 bushels	96 bushels	263 bushels
New York	120 bushels	99 buchers	66 bushels

Corn Western Midwest Eastern 96



#### The Complex Table Solution

Region	City	Apples	Corn	Potatoes
\\/a atawa	Los Angeles	263 bushels	150 bushels	63 bushels
Western	Sacramento	286 bushels	68 bushels	199 bushels
N4: dure at	Fort Worth	32 bushels	58 bushels	77 bushels
Midwest	Omaha	45 bushels	12 bushels	42 bushels
	Florida	78 bushels	96 bushels	263 bushels
Eastern	New York	120 bushels	99 bushels	66 bushels

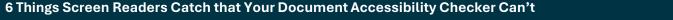
#### 10 Key points to remember

- 1. Headings organize content into blocks
- 2. Headings are not just based on size
- 3. True Lists declare how many items
- 4. Not all bullets sounds the same
- 5. Ligatures are okay if you test them (but I just avoid them)



#### 10 Key points to remember (con't)

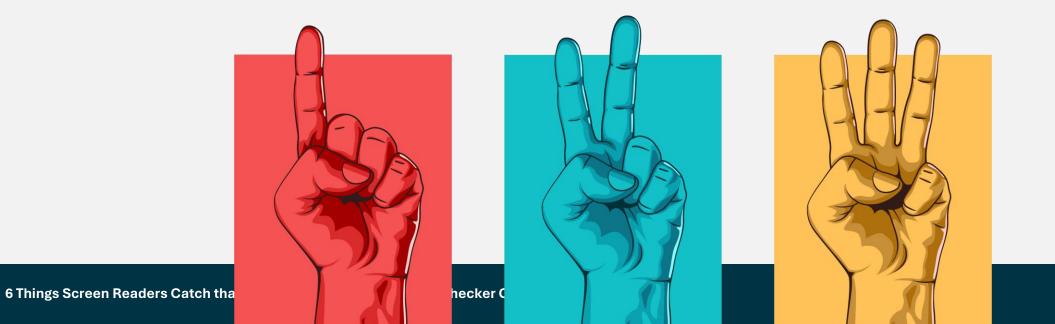
- 6. Never use drop caps unless you fix them in the PDF
- 7. Tables with merged entire rows will require extra work
- 8. Passing the checker is a good start...but that's it.
- 9. Accessibility requires manual review (and always will)
- 10. Testing with a screen reader will reveal hidden flaws.





#### What can you do?

- 1. Use "born accessibility" best practices
- 2. Walk the tags tree
- 3. Spot Check with a screen reader





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- **MS** PowerPoint •
- **Video** Captions •
- **Social Media** •

