Niagara Test



**CNIB Access Labs**

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# Table of Contents

# Executive Summary

## Disclaimer

Disclaimer: This accessibility review represents a digital accessibility inspection of 106 pages from 2 websites, looking at page properties that help indicate the accessibility health of the page and site. It is not designed to be a comprehensive report on every accessibility issue on each of the pages inspected, merely indicative of potential issues. A formal manual inspection as part of a digital accessibility audit that includes an element of lived experience user testing is required to make any claim on conformance to accessibility standards.

## Subject areas

The report sets out to identify features of websites that impact on web accessibility across a random selection of pages from each site, and to consider what potential issues those pages and sites may have, and to compare this across sites to see which sites are at most risk of failing accessibility.

A number of subjects that impact on web accessibility were considered:

1. Basic HTML structure (page language, title etc.)
2. Content styling (fonts, lists, animation, title attribute)
3. Multimedia content (images, videos, maps)
4. Non-text content (adjacent blocks)
5. Underlying semantic structure (headings, landmarks, tables, timers)
6. Navigation aids (menus, forms, dialogs, links, buttons, 'more' controls, floating dialogs),
7. Navigation order (tab order, tabindex),
8. Accessibility supported (event handling, focus management, floating content, accessible names)
9. Use of Colour (text/non-text contrast,user as indicator)
10. Local electronic documents (Linked PDFs)

# Summary findings

## Accessible names

|  |  |  |  |
| --- | --- | --- | --- |
| Tag name | # of instances | # of sites | % of sites |
| <a> | 42 | 2 | 100.0% |
| <form> | 373 | 2 | 100.0% |
| <iframe> | 99 | 1 | 50.0% |
| <img> | 406 | 1 | 50.0% |
| <input> | 495 | 1 | 50.0% |

## Animation

|  |  |  |  |
| --- | --- | --- | --- |
| Issue | # of pages | # of sites affected | % of sites |
| No reduced motion media query | 20 | 1 | 50.0% |

## Colour Contrast

|  |  |  |  |
| --- | --- | --- | --- |
| Color Accessibility Issue | Pages Affected | Sites Affected | % of Total Sites |
| Text Contrast Issues | 101 | 2 | 100.0% |
| Non-Text Contrast Issues | 99 | 1 | 50.0% |
| Adjacent Contrast Issues | 119 | 2 | 100.0% |
| Contrast Preferences Support | 0 | 0 | 0.0% |

## Colour as Indicator

|  |  |  |  |
| --- | --- | --- | --- |
| Color Accessibility Issue | Pages Affected | Sites Affected | % of Total Sites |
| Color-Only Links | 0 | 0 | 0.0% |
| Color References | 105 | 2 | 100.0% |
| Color Scheme Preferences Support | 0 | 0 | 0.0% |

## Dialogs

|  |  |  |  |
| --- | --- | --- | --- |
| Modal Issue | Pages Affected | Sites Affected | % of Total Sites |
| Missing close mechanism | 36 | 1 | 50.0% |
| Improper focus management | 36 | 1 | 50.0% |
| Missing/improper heading | 36 | 1 | 50.0% |
| Missing/improper triggers | 36 | 1 | 50.0% |

## Event Handling and Keyboard Interaction

### Event Handling Summary

|  |  |  |  |
| --- | --- | --- | --- |
| Property | Occurrences | Pages Affected | % of Sites |
| Event Types: |  |  |  |
| Mouse Events | 10577 | 97 | 100.0% |
| Other Events | 64 | 14 | 100.0% |
| Lifecycle Events | 6 | 2 | 50.0% |
| Keyboard Events | 0 | 0 | 0.0% |
| Focus Events | 0 | 0 | 0.0% |
| Touch Events | 0 | 0 | 0.0% |
| Timer Events | 0 | 0 | 0.0% |
| Tab Order: |  |  |  |
| Explicit tabindex Usage | 3292 | 87 | 50.0% |
| Visual Order Violations | 1296 | 97 | 100.0% |
| Column Order Violations | 17249 | 97 | 100.0% |
| Negative Tabindex | 52 | 44 | 50.0% |
| High Tabindex Values | 0 | 0 | 0.0% |
| Interactive Elements: |  |  |  |
| Mouse-only Elements | 1954 | 97 | 100.0% |
| Missing tabindex | 7596 | 97 | 100.0% |
| Non-interactive with Handlers | 7608 | 97 | 100.0% |
| Modal Support: |  |  |  |
| Modals Missing Escape | 72 | 36 | 50.0% |

## Floating Dialogs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Issue | Severity | Pages Affected | Sites Affected | % of Total Sites |
| Hidden interactive content | Critical | 96 | 2 | 100.0% |
| Incorrect heading structure | High | 96 | 2 | 100.0% |
| Missing close button | High | 96 | 2 | 100.0% |
| Content overlap issues | Moderate | 96 | 2 | 100.0% |

## Focus Management (General)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Issue Type | Total Violations | Pages Affected | Sites Affected | % of Total Sites |
| Missing Focus Outlines | 0 | 0 | 0 | 0.0% |
| Insufficient Outline Contrast | 0 | 0 | 0 | 0.0% |
| Insufficient Outline Offset/Width | 0 | 0 | 0 | 0.0% |
| Insufficient Hover Feedback | 261301 | 97 | 2 | 100.0% |
| Obscured Focus Outlines | 0 | 0 | 0 | 0.0% |
| Improper Local Target Configuration | 3107 | 88 | 2 | 100.0% |

## Forms

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Issue Type | Number of Occurrences | Pages Affected | Sites Affected | % of Total Sites |
| Inputs without labels | 1153 | 97 | 2 | 100.0% |
| Placeholder-only inputs | 289 | 97 | 2 | 100.0% |
| Forms without headings | 472 | 97 | 2 | 100.0% |
| Forms outside landmarks | 274 | 97 | 2 | 100.0% |
| Input contrast issues | 290 | 78 | 2 | 100.0% |
| Form layout issues | 96 | 24 | 2 | 100.0% |

Form Statistics:

Total number of forms across all pages: 472

## Headings

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Issue Type | Number of Occurrences | Pages Affected | Sites Affected | % of Total Sites |
| Missing H1 | 1 | 1 | 1 | 50.0% |
| Hierarchy gaps | 3 | 3 | 1 | 50.0% |
| Headings before main | 1266 | 87 | 1 | 50.0% |

## Images

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Issue Type | Number of Images | Pages Affected | Sites Affected | % of Total Sites |
| Missing alt text | 1584 | 87 | 1 | 50.0% |
| Invalid alt text | 11 | 6 | 1 | 50.0% |
| SVGs missing role | 99 | 87 | 1 | 50.0% |

## Landmarks

|  |  |  |  |
| --- | --- | --- | --- |
| Issue Type | Pages Affected | Sites Affected | % of Total Sites |
| Missing required landmarks | 10 | 1 | 50.0% |
| Duplicate landmarks without unique names | 97 | 2 | 100.0% |
| Nested top-level landmarks | 8 | 1 | 50.0% |
| Content outside landmarks | 96 | 2 | 100.0% |

## Language of Page

All pages have a valid lang attribute.

## Lists

|  |  |  |  |
| --- | --- | --- | --- |
| List Issue | Pages Affected | Sites Affected | % of Total Sites |
| Empty lists | 36 | 1 | 50.0% |
| Fake lists (not using proper HTML) | 55 | 2 | 100.0% |
| Custom bullet implementations | 87 | 1 | 50.0% |
| Excessively nested lists | 87 | 1 | 50.0% |

## Maps

|  |  |  |  |
| --- | --- | --- | --- |
| Issue | Pages Affected | Sites Affected | % of Total Sites |
| Pages containing maps | 6 | 1 | 50.0% |
| Maps without proper titles | 3 | 1 | 50.0% |

## Menus

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Menu Issue | Number of Occurrences | Pages Affected | Sites Affected | % of Total Sites |
| Missing current page indicators | 335 | 97 | 2 | 100.0% |

## "More" Controls

No issues with generic 'Read More' links were found.

## Page Structure Analysis

Understanding the structure of web pages is fundamental to accessibility. This section analyzes the common elements found across pages, such as headers, footers, and navigation components. Consistent structure helps users understand and navigate content efficiently.

Structure Analysis Summary:

|  |  |
| --- | --- |
| Pages Analyzed | 10 |
| Header Consistency | 68.0% |
| Footer Consistency | 70.0% |
| Navigation Consistency | 76.0% |
| Main Content Consistency | 64.0% |
| Complementary Content Consistency | 0.0% |

## Tabindex

|  |  |  |  |
| --- | --- | --- | --- |
| Issue | Pages Affected | Sites Affected | % of Total Sites |
| Non-interactive elements with tabindex=0 | 86 | 1 | 50.0% |
| Interactive elements missing required tabindex | 87 | 2 | 100.0% |

## Title Attribute

|  |  |  |  |
| --- | --- | --- | --- |
| Issue | Total Occurrences | Sites Affected | % of Total Sites |
| Improper use of title attribute | 4921 | 2 | 100.0% |

## Tables

No table issues found.

## Timers

|  |  |  |  |
| --- | --- | --- | --- |
| Timer Issue | Pages Affected | Sites Affected | % of Total Sites |
| Pages with timers | 15 | 1 | 50.0% |
| Auto-starting timers | 15 | 1 | 50.0% |
| Timers without adequate controls | 15 | 1 | 50.0% |

## Videos

No videos were found.

# Detailed findings

## Accessible Names

Interactive elements such as links, buttons, form fields etc. must have an accessible name that can be programmatically determined. This name is what will be announced by screen readers and other assistive technologies when the user encounters the element. Without an accessible name, users will not know the purpose or function of the element.

|  |  |  |  |
| --- | --- | --- | --- |
| Tag name | # of instances | # of sites | % of sites |
| <a> | 42 | 2 | 100.0% |
| <form> | 373 | 2 | 100.0% |
| <iframe> | 99 | 1 | 50.0% |
| <img> | 406 | 1 | 50.0% |
| <input> | 495 | 1 | 50.0% |

### Detailed Breakdown by Tag

#### Tag: <a>

|  |  |  |
| --- | --- | --- |
| Domain | # of instances | # of pages affected |
| cvc.ca | 40 | 17 |
| niagararegion.ca | 2 | 1 |

#### Tag: <form>

|  |  |  |
| --- | --- | --- |
| Domain | # of instances | # of pages affected |
| cvc.ca | 333 | 87 |
| niagararegion.ca | 40 | 10 |

#### Tag: <iframe>

|  |  |  |
| --- | --- | --- |
| Domain | # of instances | # of pages affected |
| cvc.ca | 99 | 87 |

#### Tag: <img>

|  |  |  |
| --- | --- | --- |
| Domain | # of instances | # of pages affected |
| cvc.ca | 406 | 87 |

#### Tag: <input>

|  |  |  |
| --- | --- | --- |
| Domain | # of instances | # of pages affected |
| cvc.ca | 495 | 87 |

## Animation

The 'prefers-reduced-motion' media query allows websites to respect a user's system-level preference for reduced motion. This accessibility feature is crucial for several user groups:

* People with vestibular disorders who can experience dizziness, nausea, and disorientation from animated content
* Users with attention-related disabilities who may find animations distracting and disruptive
* People with migraine sensitivity who can be triggered by certain types of motion
* Users with cognitive disabilities who may find it difficult to focus on content when animations are present

When websites don't support reduced motion preferences, users who rely on this setting remain exposed to animations that could affect their ability to use the site or even cause physical discomfort. This is particularly important for essential services and information websites where users need to access content regardless of their motion sensitivity.

Note that "prefers-reduced-animation" does not mean no animation, but you do need to consider the impact of each, especially longer ones. In these tests long animations are those over 5 seconds, but in practice, any animation of over 1 second needs to respect the prefers-reduced-motion media query to help neuro-diverse users who may struggle to read a page with significant animation "noise".

|  |  |  |  |
| --- | --- | --- | --- |
| Issue | # of pages | # of sites affected | % of sites |
| Pages with animations lacking reduced motion support | 20 | 1 | 50.0% |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Domain | Pages without reduced motion support | Total animations | Infinite animations | Long animations | Shortest animation | Longest animation |
| niagararegion.ca | 20 | 40 | 0 | 0 | N/A | N/A |

## Colour Contrast

Text Contrast Issues:

* Checks if text has sufficient contrast with its background
* Small text needs a contrast ratio of at least 4.5:1
* Large text (18pt+ or 14pt+ bold) needs at least 3:1
* Essential for users with low vision or color vision deficiencies

Non-Text Contrast Issues:

* Examines contrast of UI components like buttons and horizontal rules
* Requires a minimum contrast ratio of 3:1 for boundaries and visual information
* Important for identifying clickable elements and interface boundaries

Adjacent Contrast Issues:

* Checks contrast between neighboring content blocks
* Requires sufficient contrast between adjacent sections
* Helps users distinguish between different content areas

Contrast Preferences Support:

* Checks if the site responds to system-level contrast preferences
* Should adapt to user's contrast preference settings
* Important for users who need specific contrast levels

|  |  |  |  |
| --- | --- | --- | --- |
| Color Accessibility Issue | Pages Affected | Sites Affected | % of Total Sites |
| Text Contrast Issues | 101 | 2 | 100.0% |
| Non-Text Contrast Issues | 99 | 1 | 50.0% |
| Adjacent Contrast Issues | 119 | 2 | 100.0% |
| Contrast Preferences Support | 0 | 0 | 0.0% |

Sites with text contrast issues:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 99 |
| niagararegion.ca | 2 |

Sites with non-text contrast issues:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 99 |

Sites with adjacent contrast issues:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 99 |
| niagararegion.ca | 20 |

### Recommendations for Addressing Contrast Issues

For Text Contrast Issues:

* Ensure all text meets minimum contrast ratios (4.5:1 for regular text, 3:1 for large text)
* Use contrast checking tools during design and development
* Consider offering high contrast modes or user-selectable themes

For Non-Text Contrast Issues:

* Ensure UI components and meaningful graphics have at least 3:1 contrast
* Add borders or additional visual indicators to low-contrast elements
* Test interface elements against various backgrounds

For Adjacent Contrast Issues:

* Use borders, spacing, or other visual separators between content blocks
* Test interfaces with color perception simulators

For Contrast Preferences Support:

* Implement support for prefers-contrast media query
* Test with system-level high contrast settings enabled
* Provide user controls for adjusting contrast when possible

## Colour as Indicator

Color should never be used as the only visual means of conveying information, indicating an action, prompting a response, or distinguishing a visual element. According to WCAG Success Criterion 1.4.1, color should not be the only visual means of conveying information.

This is critical for users with color blindness or other visual impairments, who may not be able to perceive color differences. It's also important for users who have monochrome displays or who print content in black and white.

Color-Only Links:

* Identifies links that are distinguished only by color
* Links should have additional indicators (e.g., underlines, roles, or other visual markers)
* Critical for users who are color blind or using monochrome displays

Color References:

* Detects content that relies on color to convey information
* Looks for phrases like "click the red button" or "items marked in blue"
* Must have alternative ways to convey the same information

Color Scheme Preferences Support:

* Verifies support for system color scheme preferences (like dark mode)
* Should respect user's preferred color scheme
* Helps users who are sensitive to bright displays or need specific color schemes

|  |  |  |  |
| --- | --- | --- | --- |
| Color Accessibility Issue | Pages Affected | Sites Affected | % of Total Sites |
| Color-Only Links | 0 | 0 | 0.0% |
| Color References | 105 | 2 | 100.0% |
| Color Scheme Preferences Support | 0 | 0 | 0.0% |

Sites with color references:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 99 |
| niagararegion.ca | 6 |

#### Color references found in content:

|  |  |
| --- | --- |
| Color Referenced | Number of Occurrences |
| Green | 8504 |
| Blue | 2208 |
| Black | 180 |
| White | 168 |
| Red | 163 |
| Yellow | 72 |
| Grey | 48 |
| Purple | 38 |
| Gray | 34 |
| Brown | 33 |
| Orange | 22 |
| Coloured | 11 |
| Pink | 10 |

Color references in content (like 'click the red button' or 'items marked in blue') create barriers for users who are color blind or using screen readers. Information conveyed through color alone must have alternative indicators that don't rely on color perception.

### Recommendations for Addressing Color as Indicator Issues

For Color-Only Links:

* Always include an underline or other non-color indicator for links
* Ensure sufficient contrast between link and non-link text
* Consider adding icons or other visual cues alongside links

For Color References in Content:

* Avoid phrases like 'click the red button' or 'items in green'
* Add additional descriptors like position, shape, or labels
* Use patterns, icons, or text labels in addition to color

For Color Scheme Preferences:

* Implement support for prefers-color-scheme media query
* Design with both light and dark modes in mind
* Ensure adequate contrast in all color schemes

## Dialogs

Modal dialogs present unique accessibility challenges and must be implemented correctly to ensure all users can interact with them effectively. When a modal is open, keyboard focus must be trapped within it, and screen readers must be properly informed of the modal's presence and purpose.

Common accessibility issues with modal dialogs include:

* Missing close mechanisms (close button or escape key)
* Improper focus management when opening and closing
* Missing or improper heading structure
* Missing or improper trigger buttons

Recommendations for Modal Dialog Implementation:

* Ensure all modals have a visible close button and respond to the escape key
* Implement proper focus management - trap focus within the modal when open and return focus when closed
* Include proper heading structure within modals for clear content hierarchy
* Use proper trigger buttons with appropriate ARIA attributes and keyboard interaction
* Test modal interactions with keyboard-only navigation and screen readers

|  |  |  |  |
| --- | --- | --- | --- |
| Modal Issue | Pages Affected | Sites Affected | % of Total Sites |
| Missing close mechanism | 36 | 1 | 50.0% |
| Improper focus management | 36 | 1 | 50.0% |
| Missing/improper heading | 36 | 1 | 50.0% |
| Missing/improper triggers | 36 | 1 | 50.0% |

Sites with missing close mechanism:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 36 |

Sites with improper focus management:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 36 |

Sites with missing/improper heading:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 36 |

Sites with missing/improper triggers:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 36 |

Total number of modals detected across all pages: 72

### Technical Implementation Guidelines for Accessible Modals

Implementing proper close mechanisms:

* Include a visible close button with a clear accessible name (e.g., 'Close', 'Close dialog')
* Add an event listener for the Escape key to close the modal
* Ensure the close button is keyboard focusable and has sufficient contrast

Example code:

// Example close button implementation  
const closeButton = document.createElement('button');  
closeButton.textContent = 'Close';  
closeButton.setAttribute('aria-label', 'Close dialog');  
closeButton.classList.add('modal-close');  
closeButton.addEventListener('click', closeModal);  
  
// Example Escape key handler  
document.addEventListener('keydown', function(event) {  
 if (event.key === 'Escape' && modalIsOpen) {  
 closeModal();  
 }  
});

Proper focus management:

* Store the element that opened the modal to return focus later
* Set focus to the first focusable element in the modal when it opens
* Trap keyboard focus within the modal using a focus trap
* Return focus to the triggering element when the modal closes

Example code:

// Store the element that triggered the modal  
let lastFocusedElement;  
  
function openModal() {  
 lastFocusedElement = document.activeElement;  
   
 // Show modal  
 modal.style.display = 'block';  
   
 // Focus the first focusable element  
 const focusableElements = modal.querySelectorAll('button, [href], input, select, textarea, [tabindex]:not([tabindex="-1"])');  
 if (focusableElements.length > 0) {  
 focusableElements[0].focus();  
 }  
   
 // Set up focus trap  
 modal.addEventListener('keydown', trapFocus);  
}  
  
function closeModal() {  
 // Hide modal  
 modal.style.display = 'none';  
   
 // Return focus to triggering element  
 if (lastFocusedElement) {  
 lastFocusedElement.focus();  
 }  
   
 // Remove focus trap  
 modal.removeEventListener('keydown', trapFocus);  
}  
  
function trapFocus(e) {  
 // Implementation of focus trapping...  
}

Proper heading structure:

* Include a descriptive heading as the first element in the modal
* Use appropriate heading level (usually h2) for the modal title
* Connect the modal with its heading using aria-labelledby

Example code:

<div role="dialog" aria-modal="true" aria-labelledby="dialog-title">  
 <h2 id="dialog-title">Modal Dialog Title</h2>  
 <div class="dialog-content">  
 <!-- Modal content here -->  
 </div>  
 <button aria-label="Close dialog">Close</button>  
</div>

## Event Handling and Keyboard Interaction

Event handling and keyboard interaction are crucial for accessibility. This analysis examines event types, tab order, interactive elements, and modal dialog behavior. Issues with event handling can significantly impact keyboard and screen reader users.

### Event Handling Recommendations

* Event Implementation:
* Ensure keyboard alternatives for mouse-only interactions
* Add keyboard event handlers alongside mouse events
* Implement proper focus management
* Tab Order:
* Maintain logical tab sequence matching visual layout
* Avoid using tabindex values greater than 0
* Ensure all interactive elements are keyboard accessible
* Modal Dialogs:
* Implement escape key handling for all modals
* Manage focus properly when opening/closing modals
* Ensure modal content is properly contained

### Event Handling Summary

Event Types Distribution:

|  |  |  |  |
| --- | --- | --- | --- |
| Event Type | Total Count | Sites Affected | % of Sites |
| Mouse Events | 10577 | 2 | 100.0% |
| Other Events | 64 | 2 | 100.0% |
| Lifecycle Events | 6 | 1 | 50.0% |
| Keyboard Events | 0 | 0 | 0.0% |
| Focus Events | 0 | 0 | 0.0% |
| Touch Events | 0 | 0 | 0.0% |
| Timer Events | 0 | 0 | 0.0% |

Tab Order Issues:

|  |  |  |  |
| --- | --- | --- | --- |
| Issue Type | Total Count | Sites Affected | % of Sites |
| Explicit tabindex Usage | 3292 | 1 | 50.0% |
| Visual Order Violations | 1296 | 2 | 100.0% |
| Column Order Violations | 17249 | 2 | 100.0% |
| Negative Tabindex | 52 | 1 | 50.0% |
| High Tabindex Values | 0 | 0 | 0.0% |

Interactive Element Issues:

|  |  |  |  |
| --- | --- | --- | --- |
| Issue Type | Total Count | Sites Affected | % of Sites |
| Mouse-only Elements | 1954 | 2 | 100.0% |
| Missing tabindex | 7596 | 2 | 100.0% |
| Non-interactive with Handlers | 7608 | 2 | 100.0% |

### Technical Implementation Recommendations

Fixing Mouse-only Elements:

* Add keyboard event handlers for all mouse interactions:

// Instead of this:  
element.addEventListener('click', handleAction);  
  
// Do this:  
element.addEventListener('click', handleAction);  
element.addEventListener('keydown', function(e) {  
 if (e.key === 'Enter' || e.key === ' ') {  
 handleAction(e);  
 }  
});

Proper tabindex Usage:

* Use tabindex='0' to add elements to the natural tab order
* Use tabindex='-1' for elements that should be focusable by script but not tab
* Avoid positive tabindex values which override the natural tab order

<!-- Good usage: Adding a div to the natural tab order -->  
<div tabindex="0" role="button" aria-label="Action">Interactive element</div>  
  
<!-- Good usage: Element that can receive focus via script but not tab -->  
<div tabindex="-1" id="focusTarget">Script-focusable element</div>  
  
<!-- Bad usage: Creating custom tab order -->  
<button tabindex="1">First</button>  
<button tabindex="3">Third</button>  
<button tabindex="2">Second</button>

### Case Study: cvc.ca

This site has a total of 22161 event handling violations across 87 pages.

|  |  |
| --- | --- |
| Issue Type | Count |
| Non-interactive with Handlers | 6632 |
| Explicit tabindex Usage | 2780 |
| Mouse-only Elements | 1608 |
| Visual Order Violations | 1068 |

## Forms

Forms must be accessible to all users, including those using screen readers or keyboard navigation. Proper labeling, structure, and organization are essential for form accessibility. Forms should have clear instructions, properly associated labels, and appropriate error handling.

Common form accessibility issues include:

* Form inputs without proper labels
* Reliance on placeholders instead of labels
* Forms without proper heading structure
* Forms placed outside landmark regions
* Input fields with insufficient contrast
* Layout issues affecting form usability

Recommendations for Form Accessibility:

* Ensure all form controls have properly associated labels
* Use labels instead of relying solely on placeholders
* Include proper heading structure for forms
* Place forms within appropriate landmark regions
* Maintain sufficient contrast for all form elements
* Ensure proper spacing and layout for form controls
* Provide clear error messages and validation feedback
* Ensure forms are keyboard accessible

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Issue Type | Number of Occurrences | Pages Affected | Sites Affected | % of Total Sites |
| Inputs without labels | 1153 | 97 | 2 | 100.0% |
| Placeholder-only inputs | 289 | 97 | 2 | 100.0% |
| Forms without headings | 472 | 97 | 2 | 100.0% |
| Forms outside landmarks | 274 | 97 | 2 | 100.0% |
| Input contrast issues | 290 | 78 | 2 | 100.0% |
| Form layout issues | 96 | 24 | 2 | 100.0% |

Form Statistics:

Total number of forms across all pages: 472

Sites with inputs without labels:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 87 |
| niagararegion.ca | 10 |

Sites with placeholder-only inputs:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 87 |
| niagararegion.ca | 10 |

Sites with forms without headings:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 87 |
| niagararegion.ca | 10 |

Sites with forms outside landmarks:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 87 |
| niagararegion.ca | 10 |

Sites with input contrast issues:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 68 |
| niagararegion.ca | 10 |

Sites with form layout issues:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 14 |
| niagararegion.ca | 10 |

### Technical Implementation Guidelines for Accessible Forms

Proper form control labeling:

* Use explicit <label> elements with 'for' attributes matching input IDs
* Ensure labels are descriptive and concise
* Place labels consistently (usually above or to the left of inputs)

Example code:

<!-- Good practice: Explicit label with for attribute -->  
<label for="user-email">Email Address</label>  
<input type="email" id="user-email" name="email">  
  
<!-- Bad practice: Input without label -->  
<input type="email" name="email" placeholder="Email Address">  
  
<!-- Bad practice: Using placeholder instead of label -->  
<input type="email" name="email" placeholder="Email Address">  
  
<!-- Alternative if visible label isn't possible: Use aria-label -->  
<input type="email" name="email" aria-label="Email Address">

Proper use of placeholders:

* Use placeholders for hints or examples, not as replacements for labels
* Ensure placeholder text has sufficient contrast

Example code:

<!-- Good practice: Using placeholder as hint with proper label -->  
<label for="phone">Phone Number</label>  
<input type="tel" id="phone" name="phone" placeholder="Example: 555-123-4567">  
  
<!-- Bad practice: Placeholder as label -->  
<input type="tel" name="phone" placeholder="Phone Number">

Proper form structure:

* Use appropriate fieldset and legend for grouping related inputs
* Include proper heading for the form
* Place forms inside a region with role='form' or use the <form> element

Example code:

<main>  
 <section>  
 <h2>Contact Form</h2>  
 <form role="form" aria-labelledby="form-heading">  
 <h3 id="form-heading">Send us a message</h3>  
   
 <fieldset>  
 <legend>Personal Information</legend>  
 <div>  
 <label for="name">Full Name</label>  
 <input type="text" id="name" name="name">  
 </div>  
 <div>  
 <label for="email">Email Address</label>  
 <input type="email" id="email" name="email">  
 </div>  
 </fieldset>  
   
 <fieldset>  
 <legend>Your Message</legend>  
 <div>  
 <label for="subject">Subject</label>  
 <input type="text" id="subject" name="subject">  
 </div>  
 <div>  
 <label for="message">Message</label>  
 <textarea id="message" name="message"></textarea>  
 </div>  
 </fieldset>  
   
 <button type="submit">Send Message</button>  
 </form>  
 </section>  
</main>

Accessible error handling:

* Provide clear error messages that identify the specific issues
* Associate error messages with their corresponding inputs using aria-describedby
* Use both color and text to indicate errors

Example code:

<!-- When an error occurs -->  
<div>  
 <label for="password">Password</label>  
 <input type="password" id="password" name="password"   
 aria-invalid="true" aria-describedby="password-error">  
 <p id="password-error" class="error-message">  
 Password must be at least 8 characters and include a number and symbol  
 </p>  
</div>  
  
<script>  
 // Focus on the first field with an error when form submission fails  
 document.querySelector('[aria-invalid="true"]').focus();  
</script>

## Headings

Proper heading structure is essential for accessibility as it helps users understand the organization of content and navigate pages effectively. Headings should follow a logical hierarchy and accurately reflect the content structure. Screen reader users often navigate by headings, making proper structure crucial.

Common heading structure issues include:

* Missing or multiple main headings (H1)
* Skipped heading levels creating hierarchy gaps
* Headings placed before the main content
* Visual styling that doesn't match heading levels

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Issue Type | Number of Occurrences | Pages Affected | Sites Affected | % of Total Sites |
| Missing H1 | 1 | 1 | 1 | 50.0% |
| Hierarchy gaps | 3 | 3 | 1 | 50.0% |
| Headings before main | 1266 | 87 | 1 | 50.0% |

Heading Statistics:

Total number of headings across all pages: 2175

### Recommendations for Heading Structure

* Use exactly one H1 heading per page as the main title
* Maintain proper heading hierarchy without skipping levels
* Ensure heading levels match their visual presentation
* Place meaningful headings in the main content area
* Use headings to create a clear content outline
* Make heading text descriptive and meaningful

Example of proper heading structure:

* H1: Main page title
* H2: Major section
* H3: Subsection
* H3: Another subsection
* H2: Another major section

Technical Implementation of Proper Heading Structure:

* Good Example - Proper Heading Hierarchy:

<h1>Website Title</h1>  
<main>  
 <h2>Major Section Title</h2>  
 <p>Some introductory content...</p>  
   
 <h3>Subsection Title</h3>  
 <p>More detailed content...</p>  
   
 <h3>Another Subsection</h3>  
 <p>Additional content...</p>  
   
 <h2>Another Major Section</h2>  
 <p>More content...</p>  
</main>

* Bad Example - Skipped Hierarchy Levels:

<h1>Website Title</h1>  
<main>  
 <h2>Major Section Title</h2>  
 <p>Some introductory content...</p>  
   
 <!-- Bad practice: Skipping from H2 to H4 -->  
 <h4>Subsection Title</h4>  
 <p>More detailed content...</p>  
   
 <h2>Another Major Section</h2>  
 <p>More content...</p>  
</main>

* Example - Visual vs. Semantic Heading Levels:

<!-- Bad practice: Using styling instead of semantic headings -->  
<div class="looks-like-h2">This looks like a heading but isn't</div>  
  
<!-- Bad practice: Using lower-level heading with larger styling -->  
<h3 style="font-size: 24px;">This looks like H2 but is H3</h3>  
  
<!-- Good practice: Heading level matches visual importance -->  
<h2>This is properly an H2 and looks like one</h2>  
  
<!-- Good practice: If styling is needed, keep semantic level correct -->  
<h3 class="special-style">Styled but still correctly an H3</h3>

Sites with missing h1:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 1 |

Sites with hierarchy gaps:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 3 |

Sites with headings before main:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 87 |

## Images

Images must be accessible to all users, including those using screen readers. This requires proper alternative text descriptions and appropriate ARIA roles. Images that convey information need descriptive alt text, while decorative images should be properly marked as such.

Common image accessibility issues include:

* Missing alternative text for informative images
* Invalid or uninformative alt text
* Missing ARIA roles for SVG elements
* Decorative images not properly marked

Recommendations for Image Accessibility:

* Provide meaningful alt text for all informative images
* Use empty alt text (alt="") for decorative images
* Ensure SVG elements have appropriate ARIA roles
* Make sure alt text is descriptive and conveys the image's purpose
* Avoid using generic text like 'image' or 'photo' in alt attributes
* Include text alternatives for complex images, charts, and graphs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Issue Type | Number of Images | Pages Affected | Sites Affected | % of Total Sites |
| Missing alt text | 1584 | 87 | 1 | 50.0% |
| Invalid alt text | 11 | 6 | 1 | 50.0% |
| SVGs missing role | 99 | 87 | 1 | 50.0% |

Image Statistics:

|  |  |
| --- | --- |
| Total Images | 4260 |
| Decorative Images | 180 |
| Informative Images | 4080 |

Sites with missing alt text:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 87 |

Sites with invalid alt text:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 6 |

Sites with svgs missing role:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 87 |

### Technical Implementation Guidelines

Proper alt text implementation:

* Descriptive alt text for informative images:

<!-- Good practice: Descriptive alt text -->  
<img src="map-to-office.png" alt="Map showing directions to our office from the train station">  
  
<!-- Good practice: Empty alt for decorative images -->  
<img src="decorative-swirl.png" alt="">  
  
<!-- Good practice: For logos that link -->  
<a href="/">  
 <img src="company-logo.png" alt="Company Name - return to homepage">  
</a>

* Examples of poor alt text:

<!-- Bad practice: Missing alt attribute -->  
<img src="important-chart.png">  
  
<!-- Bad practice: Uninformative alt text -->  
<img src="sales-graph.png" alt="image">  
  
<!-- Bad practice: Redundant alt text -->  
<img src="photo.jpg" alt="photo">  
  
<!-- Bad practice: Filename as alt text -->  
<img src="DSC1234.jpg" alt="DSC1234.jpg">

SVG accessibility implementation:

<!-- Decorative SVG -->  
<svg aria-hidden="true" focusable="false">  
 <!-- SVG content -->  
</svg>  
  
<!-- Informative SVG -->  
<svg role="img" aria-labelledby="svg-title">  
 <title id="svg-title">Description of what the SVG shows</title>  
 <!-- SVG content -->  
</svg>  
  
<!-- Interactive SVG -->  
<svg role="button" aria-label="Open menu" tabindex="0">  
 <!-- SVG content -->  
</svg>

Complex images (charts, infographics, maps):

<!-- Chart with longer description -->  
<figure>  
 <img src="quarterly-sales.png"   
 alt="Q3 sales chart showing a 15% increase over Q2">  
 <figcaption>  
 <details>  
 <summary>Detailed chart description</summary>  
 <p>The chart shows quarterly sales for 2023. Q1 sales were $1.2M,   
 Q2 sales were $1.5M, and Q3 sales reached $1.725M, representing   
 a 15% increase over Q2 and a 43.75% increase year-to-date.</p>  
 </details>  
 </figcaption>  
</figure>

## Landmarks

HTML landmarks provide a navigational structure that helps screen reader users understand the organization of a page's content. Properly implemented landmarks are crucial for efficient navigation and orientation. Each landmark role serves a specific purpose and should be used appropriately.

Common landmark roles include:

* banner - Header content
* main - Primary content area
* navigation - Navigation sections
* complementary - Supporting content
* contentinfo - Footer content
* search - Search functionality
* form - Form sections
* region - Distinct sections requiring labels

Recommendations for Landmark Implementation:

* Ensure all pages have the required landmarks (banner, main, contentinfo)
* Provide unique names for duplicate landmarks using aria-label or aria-labelledby
* Avoid nesting top-level landmarks
* Ensure all content is contained within appropriate landmarks
* Use semantic HTML elements with implicit landmark roles where possible

Landmark Statistics:

Total number of landmarks detected across all pages: 3236

|  |  |  |  |
| --- | --- | --- | --- |
| Issue Type | Pages Affected | Sites Affected | % of Total Sites |
| Missing required landmarks | 10 | 1 | 50.0% |
| Duplicate landmarks without unique names | 97 | 2 | 100.0% |
| Nested top-level landmarks | 8 | 1 | 50.0% |
| Content outside landmarks | 96 | 2 | 100.0% |

Missing Required Landmarks Breakdown:

|  |  |
| --- | --- |
| Landmark Type | Number of Pages Missing |
| Banner | 20 |
| Main | 0 |
| Footer | 0 |
| Search | 20 |

### Technical Implementation Guidelines

Using HTML5 semantic elements with implicit landmark roles:

<!-- Good practice: Using HTML5 semantic elements -->  
<header>Site header content</header> <!-- implicit role="banner" -->  
  
<nav>  
 <ul>  
 <li><a href="/">Home</a></li>  
 <li><a href="/products">Products</a></li>  
 </ul>  
</nav> <!-- implicit role="navigation" -->  
  
<main>  
 <h1>Page Title</h1>  
 <article>Main content...</article>  
</main> <!-- implicit role="main" -->  
  
<aside>Related content...</aside> <!-- implicit role="complementary" -->  
  
<footer>Site footer content</footer> <!-- implicit role="contentinfo" -->

Using ARIA landmark roles (when semantic HTML isn't possible):

<!-- Alternative using ARIA roles -->  
<div role="banner">Site header content</div>  
<div role="navigation">Navigation menu...</div>  
<div role="main">Main content...</div>  
<div role="complementary">Related content...</div>  
<div role="contentinfo">Site footer content</div>

Naming landmarks when you have multiple of the same type:

<!-- When you have multiple navigation landmarks -->  
<nav aria-label="Main">Primary navigation...</nav>  
<nav aria-label="Footer">Footer links...</nav>  
  
<!-- When you have multiple complementary landmarks -->  
<aside aria-label="Related articles">Related articles...</aside>  
<aside aria-label="Advertisements">Advertisements...</aside>  
  
<!-- Using aria-labelledby instead -->  
<h2 id="side-nav-heading">Product Categories</h2>  
<nav aria-labelledby="side-nav-heading">  
 <!-- Navigation content -->  
</nav>

Complete page example with proper landmark structure:

<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8">  
 <title>Accessible Page Example</title>  
</head>  
<body>  
 <a href="#main-content" class="skip-link">Skip to main content</a>  
   
 <header>  
 <div class="logo">Site Logo</div>  
 <nav aria-label="Main">  
 <ul>  
 <li><a href="/">Home</a></li>  
 <li><a href="/about">About</a></li>  
 <li><a href="/contact">Contact</a></li>  
 </ul>  
 </nav>  
   
 <div role="search">  
 <form>  
 <label for="search">Search</label>  
 <input type="search" id="search">  
 <button type="submit">Search</button>  
 </form>  
 </div>  
 </header>  
   
 <main id="main-content">  
 <h1>Page Title</h1>  
 <section>  
 <h2>Section Title</h2>  
 <p>Content goes here...</p>  
 </section>  
 </main>  
   
 <aside>  
 <h2>Related Information</h2>  
 <ul>  
 <li><a href="#">Related Link 1</a></li>  
 <li><a href="#">Related Link 2</a></li>  
 </ul>  
 </aside>  
   
 <footer>  
 <nav aria-label="Footer">  
 <ul>  
 <li><a href="/privacy">Privacy Policy</a></li>  
 <li><a href="/terms">Terms of Service</a></li>  
 </ul>  
 </nav>  
 <p>&copy; 2023 Company Name</p>  
 </footer>  
</body>  
</html>

Sites with missing required landmarks:

|  |  |
| --- | --- |
| Domain | Number of pages |
| niagararegion.ca | 10 |

Sites with duplicate landmarks without unique names:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 87 |
| niagararegion.ca | 10 |

Sites with nested top-level landmarks:

|  |  |
| --- | --- |
| Domain | Number of pages |
| niagararegion.ca | 8 |

Sites with content outside landmarks:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 87 |
| niagararegion.ca | 9 |

## Language of Page

The lang attribute on the <html> element is crucial for accessibility as it allows assistive technologies to determine the correct pronunciation rules for content. Without a properly specified language, screen readers may use incorrect pronunciation, making content difficult to understand for users who rely on text-to-speech.

The lang attribute also affects:

* How screen readers pronounce content
* How browsers apply language-specific typography and text processing
* Spell checking functionality
* Hyphenation and other language-specific features

All pages have a valid lang attribute. This is excellent practice for accessibility.

## Lists

Proper semantic list markup is important for accessibility. Lists should use appropriate HTML elements (ul, ol, li) rather than visual formatting to create list-like structures. This helps screen reader users understand content structure and navigate through items more efficiently.

Common list accessibility issues include:

* Using DIVs with bullets or numbers instead of proper list elements
* Empty lists that serve no semantic purpose
* Custom bullet implementations that may not be accessible
* Excessively deep nesting of lists

|  |  |  |  |
| --- | --- | --- | --- |
| List Issue | Pages Affected | Sites Affected | % of Total Sites |
| Empty lists | 36 | 1 | 50.0% |
| Fake lists (not using proper HTML) | 55 | 2 | 100.0% |
| Custom bullet implementations | 87 | 1 | 50.0% |
| Excessively nested lists | 87 | 1 | 50.0% |

Sites with empty lists:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 36 |

Sites with fake lists (not using proper html):

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 50 |
| niagararegion.ca | 5 |

Sites with custom bullet implementations:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 87 |

Sites with excessively nested lists:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 87 |

### Technical Implementation Guidelines

Proper semantic list implementations:

<!-- Unordered list -->  
<ul>  
 <li>First item</li>  
 <li>Second item</li>  
 <li>Third item</li>  
</ul>  
  
<!-- Ordered list -->  
<ol>  
 <li>Step 1</li>  
 <li>Step 2</li>  
 <li>Step 3</li>  
</ol>  
  
<!-- Description list -->  
<dl>  
 <dt>Term 1</dt>  
 <dd>Definition 1</dd>  
 <dt>Term 2</dt>  
 <dd>Definition 2</dd>  
</dl>

Common issues to avoid:

<!-- Empty list -->  
<ul></ul>  
  
<!-- Fake list using divs and CSS -->  
<div class="fake-list">  
 <div class="list-item">• First item</div>  
 <div class="list-item">• Second item</div>  
</div>  
  
<!-- Custom bullets with accessibility issues -->  
<ul style="list-style: none;">  
 <li><span class="custom-bullet">→</span> First item</li>  
 <li><span class="custom-bullet">→</span> Second item</li>  
</ul>  
  
<!-- Excessively nested lists -->  
<ul>  
 <li>Level 1  
 <ul>  
 <li>Level 2  
 <ul>  
 <li>Level 3  
 <ul>  
 <li>Level 4 (getting excessive)  
 <ul>  
 <li>Level 5 (too deep)</li>  
 </ul>  
 </li>  
 </ul>  
 </li>  
 </ul>  
 </li>  
 </ul>  
 </li>  
</ul>

Accessible custom bullets (if needed):

<!-- Using CSS for custom bullets -->  
<ul class="custom-bullets">  
 <li>First item</li>  
 <li>Second item</li>  
</ul>  
  
<style>  
 .custom-bullets {  
 list-style: none;  
 padding-left: 1.5em;  
 }  
   
 .custom-bullets li {  
 position: relative;  
 }  
   
 .custom-bullets li::before {  
 content: "→"; /\* Custom bullet character \*/  
 position: absolute;  
 left: -1.2em;  
 }  
</style>

Best practices for list accessibility:

* Keep list structure simple and avoid excessive nesting
* Use semantic HTML elements (ul, ol, li) rather than CSS for visual styling
* When custom styling is needed, apply it through CSS while preserving semantic structure
* Avoid empty lists or lists with only one item (consider using a paragraph instead)
* Ensure list items are concise and organized logically
* For complex nested lists, consider breaking them into separate lists with descriptive headings

## Page Structure Analysis

Understanding the structure of web pages is fundamental to accessibility. This section analyzes the common elements found across pages, such as headers, footers, and navigation components. Consistent structure helps users understand and navigate content efficiently.

Structure Analysis Summary:

|  |  |
| --- | --- |
| Pages Analyzed | 10 |
| Header Consistency | 68.0% |
| Footer Consistency | 70.0% |
| Navigation Consistency | 76.0% |
| Main Content Consistency | 64.0% |
| Complementary Content Consistency | 0.0% |

Common UI Components Presence:

|  |  |  |
| --- | --- | --- |
| Component | Pages | % of Total |
| Header | 10 | 100.0% |
| Footer | 10 | 100.0% |
| Navigation | 10 | 100.0% |
| Main Content | 10 | 100.0% |
| Complementary Content | 0 | 0.0% |
| Search | 10 | 100.0% |

### Header Analysis

Most common header tag: <div>

Header structure details:

* Average header complexity: 7 total elements
* Typical header contains: 1 links, 0 buttons, 0 images
* Header contains navigation menu: No

### Footer Analysis

Most common footer tag: <div>

Footer structure details:

* Average footer complexity: 16 total elements
* Typical footer contains: 12 links, 0 buttons, 0 images

### Navigation Analysis

Most common navigation tag: <div>

Navigation structure details:

* Average navigation contains: 1 links

Common navigation CSS classes:

* global\_inner\_content\_container

## Maps

Interactive maps present particular accessibility challenges. Common issues include:

* Maps without text alternatives for the information they convey
* Interactive maps that can't be operated by keyboard
* Map features that aren't properly labeled for screen readers
* Missing alternative ways to access location information

Recommendations for making maps accessible:

* Provide text alternatives that describe the key information the map conveys
* Ensure all map controls can be operated by keyboard
* Include proper ARIA labels and roles for map features
* Offer alternative formats (e.g., text list of locations, address lookup)
* Ensure interactive elements within maps are properly labeled

|  |  |  |  |
| --- | --- | --- | --- |
| Issue | Pages Affected | Sites Affected | % of Total Sites |
| Pages containing maps | 6 | 1 | 50.0% |
| Maps without proper titles | 3 | 1 | 50.0% |

Sites with pages containing maps:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 6 |

Sites with maps without proper titles:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 3 |

Examples of map accessibility issues found:

* typeprovidersrc
* typeprovidersrc
* typeprovidersrc
* typeprovidersrc
* typeprovidersrc

### Technical Implementation Guidelines

Example of an accessible map implementation:

<!-- Accessible map implementation -->  
<div role="region" aria-label="Location map">  
 <!-- Map container -->  
 <div id="map" aria-hidden="false" tabindex="0"   
 aria-label="Interactive map showing our location at 123 Main Street">  
 <!-- Map content loaded by JavaScript -->  
 </div>  
   
 <!-- Accessible alternative -->  
 <div class="map-alternatives">  
 <h3>Location Information</h3>  
 <p>Our office is located at:</p>  
 <address>  
 123 Main Street<br>  
 Springfield, IL 62701<br>  
 <a href="https://goo.gl/maps/example" target="\_blank">View on Google Maps</a>  
 </address>  
   
 <details>  
 <summary>Directions from major landmarks</summary>  
 <ul>  
 <li>From the train station: Walk east on Railway Ave for 2 blocks, then north on Main St.</li>  
 <li>From the bus terminal: Take bus #42 or #56 to Main & Oak stop.</li>  
 <li>From the airport: Take the airport shuttle to downtown, then walk 3 blocks east.</li>  
 </ul>  
 </details>  
 </div>  
</div>

JavaScript considerations for map accessibility:

// Initialize map with keyboard support  
function initAccessibleMap() {  
 const map = new MapLibrary('map-container');  
   
 // Enable keyboard navigation  
 map.enableKeyboardSupport();  
   
 // Ensure focus is managed properly  
 map.on('open-popup', function(e) {  
 // When popup opens, move focus to it  
 document.getElementById('map-popup').focus();  
 });  
   
 // Ensure Escape key closes popups  
 map.on('keydown', function(e) {  
 if (e.key === 'Escape' && map.hasOpenPopups()) {  
 map.closeAllPopups();  
 // Return focus to the map  
 document.getElementById('map-container').focus();  
 }  
 });  
   
 // Announce screen reader updates when map changes  
 map.on('zoom', function() {  
 updateAriaLiveRegion('Map zoom level changed');  
 });  
   
 map.on('move', function() {  
 updateAriaLiveRegion('Map view has moved');  
 });  
}  
  
function updateAriaLiveRegion(message) {  
 document.getElementById('map-announcer').textContent = message;  
}

Example of ARIA live region for map updates:

<!-- ARIA live region for map announcements -->  
<div id="map-announcer" class="sr-only" aria-live="polite"></div>

## Menus

Navigation menus are critical components for website accessibility. They must be properly structured, labeled, and implement correct ARIA roles and attributes to ensure all users can navigate effectively. Screen reader users particularly rely on well-implemented navigation menus.

Common accessibility issues with navigation menus include:

* Missing or invalid ARIA roles for navigation elements
* Missing current page indicators
* Missing or improper menu labels and names
* Duplicate menu names causing confusion

Recommendations for Navigation Menu Implementation:

* Use proper ARIA roles (e.g., navigation, menubar, menu) for navigation elements
* Implement clear current page indicators using aria-current
* Ensure all navigation menus have unique, descriptive labels
* Use appropriate heading levels for menu sections
* Ensure keyboard navigation works properly within menus
* Test menu functionality with screen readers

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Menu Issue | Number of Occurrences | Pages Affected | Sites Affected | % of Total Sites |
| Missing current page indicators | 335 | 97 | 2 | 100.0% |

Total number of navigation menus detected across all pages: 338

Sites with missing current page indicators:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 87 |
| niagararegion.ca | 10 |

### Technical Implementation Guidelines

Primary navigation menu best practices:

<!-- Primary navigation with proper structure -->  
<nav aria-label="Main navigation">  
 <ul>  
 <li><a href="/" aria-current="page">Home</a></li>  
 <li><a href="/about">About Us</a></li>  
 <li><a href="/services">Services</a></li>  
 <li><a href="/contact">Contact</a></li>  
 </ul>  
</nav>

Dropdown menu implementation:

<!-- Dropdown menu with ARIA -->  
<nav aria-label="Main navigation">  
 <ul role="menubar">  
 <li role="none">  
 <a href="/" role="menuitem" aria-current="page">Home</a>  
 </li>  
 <li role="none">  
 <button role="menuitem" aria-haspopup="true" aria-expanded="false">  
 Products  
 <span class="dropdown-icon" aria-hidden="true">▼</span>  
 </button>  
 <ul role="menu">  
 <li role="none">  
 <a href="/products/software" role="menuitem">Software</a>  
 </li>  
 <li role="none">  
 <a href="/products/hardware" role="menuitem">Hardware</a>  
 </li>  
 <li role="none">  
 <a href="/products/services" role="menuitem">Services</a>  
 </li>  
 </ul>  
 </li>  
 <li role="none">  
 <a href="/about" role="menuitem">About</a>  
 </li>  
 <li role="none">  
 <a href="/contact" role="menuitem">Contact</a>  
 </li>  
 </ul>  
</nav>

JavaScript for keyboard navigation:

// Handle keyboard navigation for dropdown menus  
document.addEventListener('DOMContentLoaded', () => {  
 const menuButtons = document.querySelectorAll('button[aria-haspopup="true"]');  
   
 menuButtons.forEach(button => {  
 // Toggle dropdown  
 button.addEventListener('click', () => {  
 const expanded = button.getAttribute('aria-expanded') === 'true';  
 button.setAttribute('aria-expanded', !expanded);  
   
 // Get the dropdown menu  
 const menu = button.nextElementSibling;  
 if (menu) {  
 menu.style.display = expanded ? 'none' : 'block';  
   
 // If opening menu, focus first item  
 if (!expanded) {  
 const firstItem = menu.querySelector('[role="menuitem"]');  
 if (firstItem) firstItem.focus();  
 }  
 }  
 });  
   
 // Open dropdown on key press  
 button.addEventListener('keydown', (e) => {  
 // Enter, Space, Down Arrow  
 if (e.key === 'Enter' || e.key === ' ' || e.key === 'ArrowDown') {  
 e.preventDefault();  
 button.setAttribute('aria-expanded', 'true');  
   
 const menu = button.nextElementSibling;  
 if (menu) {  
 menu.style.display = 'block';  
 const firstItem = menu.querySelector('[role="menuitem"]');  
 if (firstItem) firstItem.focus();  
 }  
 }  
 });  
 });  
   
 // Handle keyboard navigation within menus  
 document.querySelectorAll('[role="menu"]').forEach(menu => {  
 menu.addEventListener('keydown', (e) => {  
 const items = Array.from(menu.querySelectorAll('[role="menuitem"]'));  
 const currentIndex = items.indexOf(document.activeElement);  
   
 switch (e.key) {  
 case 'ArrowDown':  
 e.preventDefault();  
 if (currentIndex < items.length - 1) {  
 items[currentIndex + 1].focus();  
 } else {  
 items[0].focus(); // Wrap to first item  
 }  
 break;  
   
 case 'ArrowUp':  
 e.preventDefault();  
 if (currentIndex > 0) {  
 items[currentIndex - 1].focus();  
 } else {  
 items[items.length - 1].focus(); // Wrap to last item  
 }  
 break;  
   
 case 'Escape':  
 e.preventDefault();  
 const parentButton = menu.previousElementSibling;  
 if (parentButton && parentButton.hasAttribute('aria-haspopup')) {  
 parentButton.setAttribute('aria-expanded', 'false');  
 menu.style.display = 'none';  
 parentButton.focus();  
 }  
 break;  
 }  
 });  
 });  
});

Multiple navigation landmarks:

<!-- Multiple navigation areas with unique labels -->  
<header>  
 <nav aria-label="Primary navigation">  
 <!-- Primary menu content -->  
 </nav>  
</header>  
  
<aside>  
 <nav aria-label="Section navigation">  
 <!-- Section menu content -->  
 </nav>  
</aside>  
  
<footer>  
 <nav aria-label="Footer navigation">  
 <!-- Footer links -->  
 </nav>  
</footer>

## "More" Controls

Generic "Read More" or "Learn More" style links can create barriers for screen reader users who rely on link and button text to understand where a link/button will take them. When they are taken out of context:

* Users can't determine the link's purpose from the link text alone
* Screen reader users may get a list of identical 'read more' links
* The destination of the link isn't clear without surrounding context slowing down reading for screen-reader and screen-magnifier users

Recommendations for improving link text:

* Make link and button text descriptive of its destination or purpose
* Use aria-label or visually hidden text if additional context is needed
* Ensure link text makes sense when read out of context

No issues with generic 'Read More' links were found.

## Tabindex

The tabindex attribute controls whether, and in what order elements can be focused using the keyboard. Improper use of tabindex can disrupt the natural tab order and create accessibility barriers:

* Positive tabindex values force elements into a specific tab order, which can be confusing and unpredictable
* Non-interactive elements with tabindex=0 create unnecessary tab stops
* Interactive elements without proper tabindex may be unreachable by keyboard
* SVG elements need special consideration for keyboard accessibility

|  |  |  |  |
| --- | --- | --- | --- |
| Issue | Pages Affected | Sites Affected | % of Total Sites |
| Non-interactive elements with tabindex=0 | 86 | 1 | 50.0% |
| Interactive elements missing required tabindex | 87 | 2 | 100.0% |

Sites with non-interactive elements with tabindex=0:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 86 |

Sites with interactive elements missing required tabindex:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 86 |
| niagararegion.ca | 1 |

### Technical Implementation Guidelines

Problematic tabindex usage:

<!-- Problematic: Positive tabindex -->  
<div>  
 <button tabindex="1">First button</button>  
 <button tabindex="3">Third button</button>  
 <button tabindex="2">Second button</button>  
 <button>Regular button</button>  
</div>  
  
<!-- Problematic: tabindex=0 on non-interactive element -->  
<p tabindex="0">This paragraph can receive focus but has no interaction.</p>  
  
<!-- Problematic: div made focusable without proper keyboard handling -->  
<div tabindex="0" onclick="handleClick()">  
 Click me  
</div>

Proper tabindex usage:

<!-- Good: tabindex="-1" to programmatically focus -->  
<div id="notification" role="alert" tabindex="-1">  
 Your settings have been saved  
</div>  
  
<!-- Good: Using tabindex="0" with interactive role -->  
<div tabindex="0" role="button" aria-pressed="false"  
 onkeydown="if(event.key === ' ' || event.key === 'Enter') this.click()"  
 onclick="toggleState(this)">  
 Toggle Feature  
</div>  
  
<!-- Good: Natural tab order without tabindex -->  
<div>  
 <button>First button</button>  
 <button>Second button</button>  
 <button>Third button</button>  
</div>  
  
<!-- Good: Accessibility-enhanced custom widget -->  
<div class="custom-select" role="combobox" tabindex="0"  
 aria-expanded="false" aria-haspopup="listbox" aria-labelledby="label">  
 <span id="label">Choose an option</span>  
 <span class="dropdown-arrow" aria-hidden="true">▼</span>  
 <div class="options" role="listbox" tabindex="-1">  
 <div role="option" tabindex="-1">Option 1</div>  
 <div role="option" tabindex="-1">Option 2</div>  
 <div role="option" tabindex="-1">Option 3</div>  
 </div>  
</div>

SVG accessibility and tabindex:

<!-- SVG as a button -->  
<svg role="button" tabindex="0" aria-label="Close dialog"  
 onclick="closeDialog()"   
 onkeydown="if(event.key === ' ' || event.key === 'Enter') closeDialog()">  
 <!-- SVG contents (X icon) -->  
 <path d="M10 10 L20 20 M10 20 L20 10" stroke="black" stroke-width="2"/>  
</svg>  
  
<!-- Decorative SVG (not focusable) -->  
<svg aria-hidden="true" focusable="false">  
 <!-- Decorative SVG content -->  
</svg>  
  
<!-- Interactive SVG with accessible description -->  
<svg role="img" aria-labelledby="chart-title chart-desc" tabindex="0">  
 <title id="chart-title">Company Growth 2023</title>  
 <desc id="chart-desc">Bar chart showing 24% growth in Q1, 18% in Q2, 32% in Q3, and 26% in Q4.</desc>  
 <!-- SVG chart content -->  
</svg>

JavaScript for focus management:

// Show dialog and trap focus  
function openDialog() {  
 const dialog = document.getElementById('my-dialog');  
   
 // Make dialog visible  
 dialog.classList.remove('hidden');  
   
 // Store previously focused element to restore later  
 const previousFocus = document.activeElement;  
 dialog.dataset.previousFocus = previousFocus;  
   
 // Move focus to the first focusable element in the dialog  
 const firstFocusable = dialog.querySelector('button, [href], input, select, textarea, [tabindex]:not([tabindex="-1"])');  
 if (firstFocusable) {  
 firstFocusable.focus();  
 } else {  
 // If no focusable elements, focus the dialog itself  
 dialog.tabIndex = -1;   
 dialog.focus();  
 }  
   
 // Set up focus trap  
 dialog.addEventListener('keydown', trapFocus);  
}  
  
// Close dialog and restore focus  
function closeDialog() {  
 const dialog = document.getElementById('my-dialog');  
   
 // Hide dialog  
 dialog.classList.add('hidden');  
   
 // Remove focus trap  
 dialog.removeEventListener('keydown', trapFocus);  
   
 // Restore focus to previous element  
 const previousFocus = dialog.dataset.previousFocus;  
 if (previousFocus) {  
 document.getElementById(previousFocus).focus();  
 }  
}  
  
// Trap focus within the dialog  
function trapFocus(e) {  
 if (e.key !== 'Tab') return;  
   
 const dialog = document.getElementById('my-dialog');  
 const focusableElements = dialog.querySelectorAll(  
 'button, [href], input, select, textarea, [tabindex]:not([tabindex="-1"])'  
 );  
   
 const firstFocusable = focusableElements[0];  
 const lastFocusable = focusableElements[focusableElements.length - 1];  
   
 // If Shift+Tab on first element, move to last element  
 if (e.shiftKey && document.activeElement === firstFocusable) {  
 e.preventDefault();  
 lastFocusable.focus();  
 }   
 // If Tab on last element, move to first element  
 else if (!e.shiftKey && document.activeElement === lastFocusable) {  
 e.preventDefault();  
 firstFocusable.focus();  
 }  
}

## Title Attribute

The title attribute is often misused as a tooltip or to provide additional information. However, it has several accessibility limitations:

* Not consistently exposed by screen readers or available on mobile devices
* Cannot be accessed by keyboard-only users
* Cannot be reliably accessed by screen-magnifier users as the title attribute may be unreachable as the user moves the mouse to read it
* Content is not visible until hover, which some users cannot do
* Should not be used as the only way to convey important information

There is one case when the title attribute must be used, and that is for <iframe> as it is the only way to give a name to an embedded element. Typically that is the title of a YouTube or Vimeo video.

|  |  |  |  |
| --- | --- | --- | --- |
| Issue | Total Occurrences | Sites Affected | % of Total Sites |
| Improper use of title attribute | 4921 | 2 | 100.0% |

Breakdown by site:

|  |  |
| --- | --- |
| Domain | Number of improper title attributes |
| cvc.ca | 4783 |
| niagararegion.ca | 138 |

### Technical Implementation Guidelines

When the title attribute should be used:

<!-- Good use: title on iframe -->  
<iframe   
 src="https://www.youtube.com/embed/abc123"   
 title="Introduction to Web Accessibility"  
 width="560"   
 height="315"   
 allowfullscreen  
></iframe>  
  
<!-- Good use: title on abbr -->  
<abbr title="Web Content Accessibility Guidelines">WCAG</abbr>

Common improper uses of title attribute:

<!-- Improper: title as sole descriptor for link -->  
<a href="/contact" title="Contact us">Contact</a>  
  
<!-- Improper: title on image instead of alt text -->  
<img src="logo.png" title="Company Logo">  
  
<!-- Improper: title to provide critical instructions -->  
<button title="Click to submit form">Submit</button>  
  
<!-- Improper: title for tooltip-like functionality -->  
<span title="This shows up on hover only">Hover me for more info</span>

Better alternatives to the title attribute:

<!-- Better: Descriptive link text -->  
<a href="/contact">Contact our support team</a>  
  
<!-- Better: Proper alt text -->  
<img src="logo.png" alt="Company Logo">  
  
<!-- Better: Visible instructions -->  
<button>Submit <span class="instruction">(Completes your application)</span></button>  
  
<!-- Better: Accessible tooltip with ARIA -->  
<span aria-describedby="tooltip1">Hover or focus for more info</span>  
<div id="tooltip1" role="tooltip" class="tooltip">  
 This information is accessible to all users including keyboard and screen reader users  
</div>

CSS and JavaScript for accessible tooltips:

/\* CSS for accessible tooltips \*/  
.tooltip {  
 display: none;  
 position: absolute;  
 background: #333;  
 color: white;  
 padding: 10px;  
 border-radius: 4px;  
 z-index: 100;  
}  
  
.tooltip.visible {  
 display: block;  
}  
  
/\* JavaScript for accessible tooltips \*/  
document.addEventListener('DOMContentLoaded', function() {  
 // Find all elements that have tooltip descriptions  
 const triggers = document.querySelectorAll('[aria-describedby]');  
   
 triggers.forEach(trigger => {  
 const tooltipId = trigger.getAttribute('aria-describedby');  
 const tooltip = document.getElementById(tooltipId);  
   
 if (!tooltip) return;  
   
 // Show tooltip on hover for mouse users  
 trigger.addEventListener('mouseenter', function() {  
 positionTooltip(tooltip, trigger);  
 tooltip.classList.add('visible');  
 });  
   
 trigger.addEventListener('mouseleave', function() {  
 tooltip.classList.remove('visible');  
 });  
   
 // Show tooltip on focus for keyboard users  
 trigger.addEventListener('focus', function() {  
 positionTooltip(tooltip, trigger);  
 tooltip.classList.add('visible');  
 });  
   
 trigger.addEventListener('blur', function() {  
 tooltip.classList.remove('visible');  
 });  
 });  
   
 // Position tooltip near its trigger  
 function positionTooltip(tooltip, trigger) {  
 const triggerRect = trigger.getBoundingClientRect();  
 tooltip.style.top = (triggerRect.bottom + window.scrollY + 10) + 'px';  
 tooltip.style.left = (triggerRect.left + window.scrollX) + 'px';  
 }  
});

## Tables

Tables should be used for presenting tabular data, not for layout purposes. Proper table markup with appropriate headers and structure is crucial for screen reader users. Common issues include:

* Missing table headers (th elements)
* Lack of proper scope attributes on header cells
* Missing caption or summary for complex tables
* Tables used for layout purposes instead of CSS
* Complex tables without proper row/column headers

No table markup issues were found.

## Timers

Time limits and automatic updates can create significant barriers for users who need more time to read content or complete tasks. Common issues with timers include:

* Auto-starting timers that begin without user initiation
* Timers without proper controls to pause, stop, or extend time
* Session timeouts without adequate warning or ability to extend
* Content that updates automatically without user control

Recommendations for addressing timer issues:

* Provide options to turn off, adjust, or extend time limits
* Ensure all auto-updating content can be paused
* Give adequate warning before session timeouts
* Provide mechanisms to request more time

|  |  |  |  |
| --- | --- | --- | --- |
| Timer Issue | Pages Affected | Sites Affected | % of Total Sites |
| Pages with timers | 15 | 1 | 50.0% |
| Auto-starting timers | 15 | 1 | 50.0% |
| Timers without adequate controls | 15 | 1 | 50.0% |

Sites with pages with timers:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 15 |

Sites with auto-starting timers:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 15 |

Sites with timers without adequate controls:

|  |  |
| --- | --- |
| Domain | Number of pages |
| cvc.ca | 15 |

### Technical Implementation Guidelines

Accessible Session Timeout Implementation:

// JavaScript for accessible session timeout warning  
let sessionTimeoutMinutes = 20;  
let warningTimeMinutes = 5;  
let sessionTimer;  
let warningTimer;  
let sessionDialogVisible = false;  
  
// Initialize session timeout on page load  
function initSessionTimeout() {  
 // Reset timers whenever there's user activity  
 document.addEventListener('click', resetSessionTimers);  
 document.addEventListener('keypress', resetSessionTimers);  
   
 // Set initial timers  
 resetSessionTimers();  
}  
  
// Reset the session timers  
function resetSessionTimers() {  
 // Clear existing timers  
 clearTimeout(sessionTimer);  
 clearTimeout(warningTimer);  
   
 // Hide warning dialog if it's visible  
 if (sessionDialogVisible) {  
 hideSessionWarningDialog();  
 }  
   
 // Set new timers  
 warningTimer = setTimeout(showSessionWarningDialog,   
 (sessionTimeoutMinutes - warningTimeMinutes) \* 60 \* 1000);  
   
 sessionTimer = setTimeout(handleSessionTimeout,   
 sessionTimeoutMinutes \* 60 \* 1000);  
}  
  
// Show the warning dialog when session is about to expire  
function showSessionWarningDialog() {  
 const warningDialog = document.getElementById('session-warning-dialog');  
 const minutesSpan = document.getElementById('minutes-remaining');  
   
 // Update the minutes remaining  
 minutesSpan.textContent = warningTimeMinutes;  
   
 // Show the dialog  
 warningDialog.classList.remove('hidden');  
 warningDialog.setAttribute('aria-hidden', 'false');  
   
 // Move focus to the dialog for screen reader announcement  
 const firstButton = warningDialog.querySelector('button');  
 if (firstButton) {  
 firstButton.focus();  
 }  
   
 sessionDialogVisible = true;  
   
 // Start countdown timer  
 startCountdown(warningTimeMinutes \* 60);  
}  
  
// Hide the session warning dialog  
function hideSessionWarningDialog() {  
 const warningDialog = document.getElementById('session-warning-dialog');  
 warningDialog.classList.add('hidden');  
 warningDialog.setAttribute('aria-hidden', 'true');  
 sessionDialogVisible = false;  
}  
  
// Handle session timeout  
function handleSessionTimeout() {  
 // Redirect to logout page  
 window.location.href = '/logout?reason=timeout';  
}  
  
// Extend the session  
function extendSession() {  
 // Make AJAX call to extend session on server  
 fetch('/api/extend-session', { method: 'POST' })  
 .then(response => response.json())  
 .then(data => {  
 if (data.success) {  
 // Announce success to screen readers  
 document.getElementById('session-status').textContent =   
 'Your session has been extended.';  
   
 // Reset timers  
 resetSessionTimers();  
 }  
 });  
}  
  
// Start countdown timer  
function startCountdown(seconds) {  
 const countdownElement = document.getElementById('countdown-timer');  
 const countdownInterval = setInterval(() => {  
 seconds--;  
   
 // Format time as MM:SS  
 const minutes = Math.floor(seconds / 60);  
 const remainingSeconds = seconds % 60;  
 countdownElement.textContent =   
 `${minutes}:${remainingSeconds < 10 ? '0' : ''}${remainingSeconds}`;  
   
 // Update ARIA live region every 15 seconds or at important thresholds  
 if (seconds % 15 === 0 || seconds === 30 || seconds === 10) {  
 document.getElementById('countdown-announcement').textContent =   
 `${minutes} minute${minutes !== 1 ? 's' : ''} and ${remainingSeconds} second${remainingSeconds !== 1 ? 's' : ''} remaining before session timeout`;  
 }  
   
 if (seconds <= 0) {  
 clearInterval(countdownInterval);  
 }  
 }, 1000);  
}  
  
// Call initialization on page load  
window.addEventListener('DOMContentLoaded', initSessionTimeout);

HTML for Session Timeout Dialog:

<!-- Session timeout warning dialog -->  
<div id="session-warning-dialog" role="dialog" aria-modal="true"   
 aria-labelledby="dialog-title" aria-describedby="dialog-desc" class="hidden">  
 <h2 id="dialog-title">Session Timeout Warning</h2>  
   
 <div id="dialog-desc">  
 <p>Your session will expire in <span id="minutes-remaining">5</span> minutes due to inactivity.</p>  
 <p>Time remaining: <span id="countdown-timer">5:00</span></p>  
 <p>Would you like to continue your session?</p>  
 </div>  
   
 <div class="dialog-buttons">  
 <button type="button" onclick="extendSession()">Yes, Continue Session</button>  
 <button type="button" onclick="handleSessionTimeout()">No, Log Out Now</button>  
 </div>  
   
 <!-- ARIA live regions for announcements -->  
 <div aria-live="polite" id="countdown-announcement" class="sr-only"></div>  
 <div aria-live="assertive" id="session-status" class="sr-only"></div>  
</div>  
  
<!-- CSS for dialog styling -->  
<style>  
 .hidden {  
 display: none;  
 }  
   
 .sr-only {  
 position: absolute;  
 width: 1px;  
 height: 1px;  
 margin: -1px;  
 padding: 0;  
 overflow: hidden;  
 clip: rect(0, 0, 0, 0);  
 border: 0;  
 }  
   
 #session-warning-dialog {  
 position: fixed;  
 top: 50%;  
 left: 50%;  
 transform: translate(-50%, -50%);  
 width: 400px;  
 background: white;  
 padding: 20px;  
 border: 2px solid #333;  
 border-radius: 5px;  
 box-shadow: 0 0 10px rgba(0, 0, 0, 0.3);  
 z-index: 1000;  
 }  
</style>

Accessible Carousel with Pause Controls:

<!-- HTML for accessible carousel -->  
<div class="carousel" aria-roledescription="carousel" aria-label="Featured content">  
 <!-- Carousel slides container -->  
 <div class="carousel-slides" aria-live="polite">  
 <div id="slide1" class="carousel-slide active" role="group" aria-roledescription="slide" aria-label="1 of 3">  
 <img src="slide1.jpg" alt="Description of slide 1 image">  
 <h3>Slide 1 Title</h3>  
 <p>Slide 1 description text.</p>  
 </div>  
 <div id="slide2" class="carousel-slide" role="group" aria-roledescription="slide" aria-label="2 of 3">  
 <img src="slide2.jpg" alt="Description of slide 2 image">  
 <h3>Slide 2 Title</h3>  
 <p>Slide 2 description text.</p>  
 </div>  
 <div id="slide3" class="carousel-slide" role="group" aria-roledescription="slide" aria-label="3 of 3">  
 <img src="slide3.jpg" alt="Description of slide 3 image">  
 <h3>Slide 3 Title</h3>  
 <p>Slide 3 description text.</p>  
 </div>  
 </div>  
   
 <!-- Carousel controls -->  
 <div class="carousel-controls">  
 <button type="button" class="carousel-prev" aria-label="Previous slide">  
 <span aria-hidden="true">←</span>  
 </button>  
   
 <!-- Play/pause button -->  
 <button type="button" class="carousel-pause" aria-pressed="false" aria-label="Pause automatic slide rotation">  
 <span class="icon-pause" aria-hidden="true">⏸</span>  
 <span class="icon-play hidden" aria-hidden="true">▶️</span>  
 </button>  
   
 <button type="button" class="carousel-next" aria-label="Next slide">  
 <span aria-hidden="true">→</span>  
 </button>  
 </div>  
   
 <!-- Slide indicators -->  
 <div class="carousel-indicators" role="tablist" aria-label="Slide select">  
 <button type="button" id="indicator1" class="active" aria-selected="true"   
 aria-label="Show slide 1" aria-controls="slide1" role="tab">1</button>  
 <button type="button" id="indicator2" aria-selected="false"   
 aria-label="Show slide 2" aria-controls="slide2" role="tab">2</button>  
 <button type="button" id="indicator3" aria-selected="false"   
 aria-label="Show slide 3" aria-controls="slide3" role="tab">3</button>  
 </div>  
   
 <!-- ARIA live region for announcements -->  
 <div aria-live="polite" class="sr-only carousel-status"></div>  
</div>  
  
<!-- JavaScript for accessible carousel -->  
<script>  
 document.addEventListener('DOMContentLoaded', function() {  
 const carousel = document.querySelector('.carousel');  
 const slides = carousel.querySelectorAll('.carousel-slide');  
 const pauseButton = carousel.querySelector('.carousel-pause');  
 const prevButton = carousel.querySelector('.carousel-prev');  
 const nextButton = carousel.querySelector('.carousel-next');  
 const indicators = carousel.querySelectorAll('.carousel-indicators button');  
 const statusRegion = carousel.querySelector('.carousel-status');  
   
 // Respect user's preference for reduced motion  
 let prefersReducedMotion = window.matchMedia('(prefers-reduced-motion: reduce)').matches;  
   
 // Initial state  
 let currentSlide = 0;  
 let isPlaying = !prefersReducedMotion; // Don't autoplay if user prefers reduced motion  
 let slideInterval;  
   
 // Set pause button to reflect initial state  
 updatePlayPauseState();  
   
 // Start or stop autoplay based on initial preference  
 if (isPlaying) {  
 startSlideInterval();  
 } else {  
 pauseButton.setAttribute('aria-pressed', 'true');  
 }  
   
 // Toggle play/pause  
 pauseButton.addEventListener('click', function() {  
 isPlaying = !isPlaying;  
 updatePlayPauseState();  
   
 if (isPlaying) {  
 startSlideInterval();  
 statusRegion.textContent = "Slideshow playing automatically";  
 } else {  
 clearInterval(slideInterval);  
 statusRegion.textContent = "Slideshow paused";  
 }  
 });  
   
 // Previous slide  
 prevButton.addEventListener('click', function() {  
 goToSlide(currentSlide - 1);  
 });  
   
 // Next slide  
 nextButton.addEventListener('click', function() {  
 goToSlide(currentSlide + 1);  
 });  
   
 // Indicator buttons  
 indicators.forEach((indicator, index) => {  
 indicator.addEventListener('click', function() {  
 goToSlide(index);  
 });  
 });  
   
 // Pause on keyboard focus inside the carousel  
 carousel.addEventListener('focusin', function() {  
 if (isPlaying) {  
 clearInterval(slideInterval);  
 }  
 });  
   
 // Resume when focus leaves (if autoplay was on)  
 carousel.addEventListener('focusout', function(e) {  
 if (!carousel.contains(e.relatedTarget) && isPlaying) {  
 startSlideInterval();  
 }  
 });  
   
 // Pause on mouse hover  
 carousel.addEventListener('mouseenter', function() {  
 if (isPlaying) {  
 clearInterval(slideInterval);  
 }  
 });  
   
 // Resume on mouse leave (if autoplay was on)  
 carousel.addEventListener('mouseleave', function() {  
 if (isPlaying) {  
 startSlideInterval();  
 }  
 });  
   
 // Update play/pause button state  
 function updatePlayPauseState() {  
 pauseButton.setAttribute('aria-pressed', !isPlaying);  
   
 const pauseIcon = pauseButton.querySelector('.icon-pause');  
 const playIcon = pauseButton.querySelector('.icon-play');  
   
 if (isPlaying) {  
 pauseIcon.classList.remove('hidden');  
 playIcon.classList.add('hidden');  
 pauseButton.setAttribute('aria-label', 'Pause automatic slide rotation');  
 } else {  
 pauseIcon.classList.add('hidden');  
 playIcon.classList.remove('hidden');  
 pauseButton.setAttribute('aria-label', 'Start automatic slide rotation');  
 }  
 }  
   
 // Go to a specific slide  
 function goToSlide(index) {  
 // Reset autoplay if it was on  
 if (isPlaying) {  
 clearInterval(slideInterval);  
 }  
   
 // Handle wrapping around  
 if (index < 0) {  
 index = slides.length - 1;  
 } else if (index >= slides.length) {  
 index = 0;  
 }  
   
 // Update active slide  
 slides[currentSlide].classList.remove('active');  
 slides[index].classList.add('active');  
   
 // Update ARIA attributes for slides  
 slides[currentSlide].setAttribute('aria-hidden', 'true');  
 slides[index].setAttribute('aria-hidden', 'false');  
   
 // Update indicators  
 indicators[currentSlide].classList.remove('active');  
 indicators[currentSlide].setAttribute('aria-selected', 'false');  
 indicators[index].classList.add('active');  
 indicators[index].setAttribute('aria-selected', 'true');  
   
 // Announce slide change  
 statusRegion.textContent = `Slide ${index + 1} of ${slides.length}`;  
   
 // Update current slide index  
 currentSlide = index;  
   
 // Restart autoplay if it was on  
 if (isPlaying) {  
 startSlideInterval();  
 }  
 }  
   
 // Start autoplay interval  
 function startSlideInterval() {  
 clearInterval(slideInterval);  
 slideInterval = setInterval(() => {  
 goToSlide(currentSlide + 1);  
 }, 5000); // 5 second interval  
 }  
   
 // Listen for changes to the user's motion preference  
 window.matchMedia('(prefers-reduced-motion: reduce)').addEventListener('change', (e) => {  
 prefersReducedMotion = e.matches;  
 if (prefersReducedMotion && isPlaying) {  
 // Stop autoplay when user switches to preferring reduced motion  
 isPlaying = false;  
 updatePlayPauseState();  
 clearInterval(slideInterval);  
 statusRegion.textContent = "Slideshow paused due to reduced motion preference";  
 }  
 });  
 });  
</script>

## Videos

Video content must be accessible to all users, including those with visual or hearing impairments. Videos should include appropriate alternatives and controls. Common accessibility issues with video content include:

* Missing closed captions for audio content
* Lack of audio descriptions for visual information
* Inaccessible video controls
* Missing transcripts
* Autoplay videos without user control
* Videos without proper labels or titles

Recommendations for Video Accessibility:

* Ensure all videos have accurate closed captions that include both speech and important sound effects.
* Provide audio descriptions for important visual information when necessary.
* Include complete transcripts for all video content.
* Ensure video players have keyboard-accessible controls.
* Avoid autoplay or provide easy controls to stop playback.
* Include clear, descriptive titles and labels for all video content.

No videos were found.

# APPENDICES

## Test Coverage

This section provides an overview of the sites and pages included in the accessibility analysis. Understanding the scope  
 of testing is important for evaluating the comprehensiveness of the assessment and identifying areas that may need  
 additional coverage.

Notes about Coverage:

* The pages tested represent a sample of each site's content
* Testing includes various page types (home pages, content pages, forms, etc.)
* Coverage may vary by site based on site structure and complexity

Summary Statistics:

|  |  |
| --- | --- |
| Total Sites Tested | 2 |
| Total Pages Tested | 128 |
| Average Pages per Site | 64.0 |

Coverage by Site:

|  |  |
| --- | --- |
| Site | Pages Tested |
| cvc.ca | 108 |
| niagararegion.ca | 20 |

## Electronic documents found

This section lists the electronic documents found across all tested pages.

|  |  |
| --- | --- |
| Document Type | Count |
| PDF | 258 |

Document Listing:

|  |  |  |
| --- | --- | --- |
| Type | Document URL | Found On Page |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca |
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| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/about-planning-permits/planning-and-permit-faq |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/about-planning-permits/planning-and-permit-faq |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/activities/hiking |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/activities/hiking |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/bird-friendly-certified-hay |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/bird-friendly-certified-hay |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/category/hungry-hollow-snap-neighbourhood-news |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/category/hungry-hollow-snap-neighbourhood-news |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/category/news |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/category/news |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/category/the-field-tripper/outdoor-classroom |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/category/the-field-tripper/outdoor-classroom |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/category/the-garden-post/plant-of-the-month |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/category/the-garden-post/plant-of-the-month |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/conservation-parks/limehouse |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/conservation-parks/limehouse |
| PDF | https://files.cvc.ca/cvc/uploads/2023/12/cvc\_limehouse-winter\_map\_2023\_a-1.pdf | https://cvc.ca/conservation-parks/limehouse |
| PDF | https://files.cvc.ca/cvc/uploads/2023/12/cvc\_limehouse-winter\_map\_2023\_a-1.pdf | https://cvc.ca/conservation-parks/limehouse |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/conservation-planning |
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| PDF | https://files.cvc.ca/cvc/uploads/2021/04/SilverCreek\_TrailMap.pdf | https://cvc.ca/discover-our-parks/silver-creek-conservation-area |
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| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/document/island-lake-conservation-area-management-plan-2021 |
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| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/document/iwmp-summary-of-conditions-and-trends-in-the-credit-river-watershed |
| PDF | https://files.cvc.ca/cvc/uploads/2023/06/rpt\_iwmp-summarystatustrends\_20230627\_a.pdf | https://cvc.ca/document/iwmp-summary-of-conditions-and-trends-in-the-credit-river-watershed |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/document/life-cycle-costing-of-restoration-and-environmental-management-costing-natural-assets-in-peel-region |
| PDF | https://files.cvc.ca/cvc/uploads/2025/03/Watershed-Conditions-Statement-Water-Safety-2-20250307.pdf | https://cvc.ca/document/life-cycle-costing-of-restoration-and-environmental-management-costing-natural-assets-in-peel-region |
| PDF | https://files.cvc.ca/cvc/uploads/2023/12/rpt\_NatAssetLifeCycleCosting\_f\_ACCESSIBLE\_20231016\_a.pdf | https://cvc.ca/document/life-cycle-costing-of-restoration-and-environmental-management-costing-natural-assets-in-peel-region |
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