

Responsive Web Design and Accessibility



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FRONT-END ARCHITECT/ SENIOR ACCESSIBILITY LEAD

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Overview



Switching context

Order of content

Focus order

Additional responsive guidelines



Switching Context



Level A 3.2.2 – On Input

Changing the setting of any user interface component does not automatically cause a change of context unless the user has been advised of the behavior before using the component.



Order of Content/ Focus



Level A 1.3.2 – Meaningful Sequence

When the sequence in which content is presented affects its meaning, a correct reading sequence can be programmatically determined.



Visual order must match
DOM order



Assistive technologies
access page content via
markup/ DOM



Combination of screen magnifiers and readers



Level A 2.4.3 – Focus Order

If a Web page can be navigated sequentially and the navigation sequences affect meaning or operation, focusable components receive focus in an order that preserves meaning and operability.



Focus order must be in a
logical and expected
manner



Level A 3.2.1 – On Focus

When any component receives focus, it does not initiate a change of context.



Don't programmatically
shift focus when not
expected



Notify users up front that
the change will happen



Additional Responsive Guidelines



Be careful with off screen
content



Proper Ways to Accessibly Hide Content

hidden attribute
[hidden] { display: none; }

display: none;

visibility: hidden;

aria-hidden="true"



Use relative units, either em,
rem, %



Avoid clipping content or
introducing scrollbars



Maintain color contrast with
text over images



Summary



Switching Context

- On focus/ input

Order of content

- Visual order must match DOM order
- Floats, absolute positioning, flex order

Focus order

- Logical, Predictable

Additional Guidelines

- Off screen content
- Relative units

