# Using WAI-ARIA to Provide More Context



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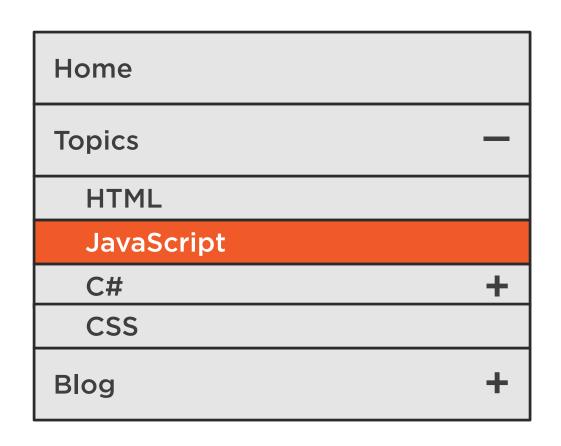
@myaccessibleweb www.myaccessible.website

# Accessible Rich nternet Applications

## WAI-ARIA

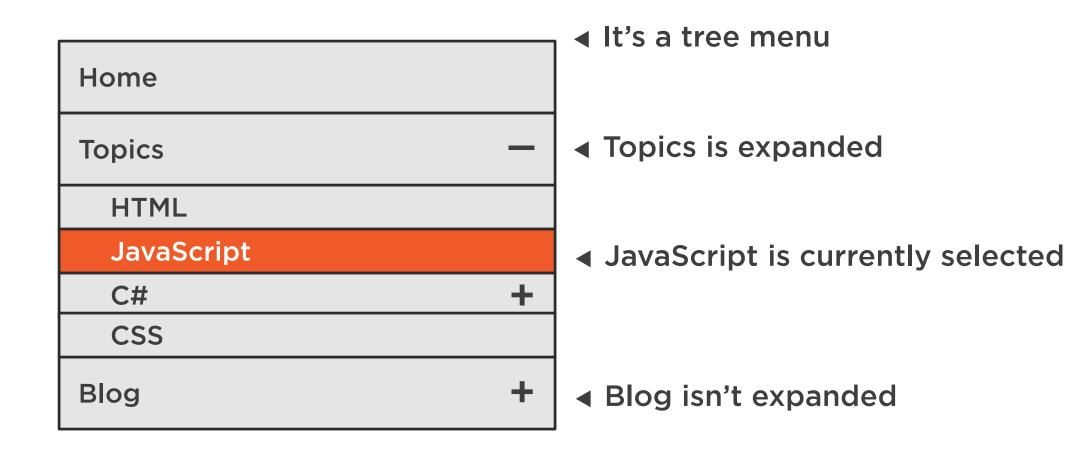


#### An Interactive Menu Hierarchy



```
u1>
 Home
 Topics
   <l
    HTML
    JavaScript
```

#### An Interactive Menu Hierarchy



#### ARIA Attributes

Roles

States

**Properties** 

role="menuitem"

aria-selected="true"

aria-haspopup="true"

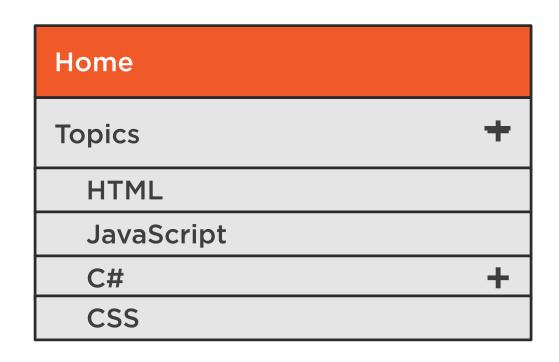
#### Attributes and JavaScript



aria-selected="true"

aria-expanded="false"

#### Attributes and JavaScript



aria-selected="true" aria-expanded="true"



ARIA is just for exposing info to screen readers – it doesn't influence browser behaviour

Issue 10

Form Field Labels



#### ARIA Labelling Attributes

```
<input type="text" aria-label="Name" />
```

Defines the label text for a control

```
<input type="text" aria-labelledby="LabelId" />
```

States that the control is labelled by another control

Issue 11

Form Field Instructions





#### ARIA Described By

```
<input type="text"
    aria-describedby="ControlId" />
```

References an element ID that has further description for the control

Used in addition to a label

Issue 12

Announcing Updates





#### Announcing Updates

Sites can have elements that update or appear without the page reloading

Chat windows, status bars, errors and countdown timers

Before ARIA, no simple way to alert screen reader users

### ARIA Live Importance

<div aria-live="polite">

<div aria-live="assertive">





#### ARIA Atomic

<div aria-atomic="true" >

Controls which aspects of the live region are read out

False means only the elements that changed

True means all the child elements

#### ARIA Busy



With several updates, the screen reader may notify user before fully complete

Setting aria-busy to true during the updates forces it to wait

<div aria-busy="true" >

Issue 13

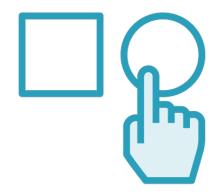
Links for Buttons



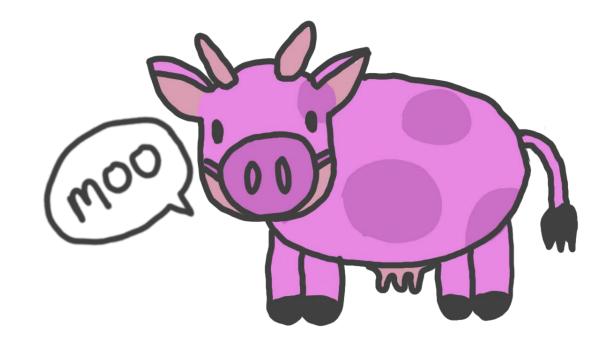
#### WCAG 1.3.1



Info and Relationships



Information conveyed through presentation can be programmatically determined



#### Semantic HTML

Instead of a link pretending to be a button, use a button

Choose the right HTML element for the job

Browsers and screen readers can make them work as you'd expect

Use the new HTML5 landmark elements like <nav> and <main>



#### Be Careful with ARIA Roles

We could add a role of button to our link

Not semantic HTML, just use the button
element

ARIA roles are primarily for custom widgets, use HTML5 elements where possible

#### Module Review



What is ARIA?



Custom Widgets



Labelling Fields



Instruction Text



Live Regions



Semantic HTML

