### First Rule of ARIA: Don't Use ARIA No seriously, don't

### What is ARIA? W3C/WAI Standard

<u>bit.ly/aria-first-rule-dont</u>

<u>@shimmoril</u>

## What is ARIA? ACTONYM

### What is ARIA? "Polyfill for HTML semantics"

- Sara Soueidan

## What is ARIA? Context

### What is ARIA? Role, Relationship & State

# Role HTML elements

#### Role

## Abstract

## Role MIGGIS

- button
- checkbox
- gridcell
- link
- menuitem
- menuitemcheckbox
- menuitemradio
- option
- progressbar
- radio

- scrollbar
- searchbox
- separator
- slider
- spinbutton
- switch
- tab
- tabpanel
- textbox
- treeitem

- combobox
- grid
- listbox
- menu
- menubar
- radiogroup
- tablist
- tree
- treegrid

#### Role

### Document Structure

- application
- article
- cell
- columnheader
   listitem
- definition
- directory
- document
- feed
- figure

- heading
  - img
  - list
- math
  - none
- note

  - group

- row
- rowgroup
- rowheader
- separator
- table
- term
- toolbar
- presentationtooltip

# Role Landmark

- banner
- complementary
- contentinfo
- form
- main
- navigation
- region
- search

# Role Live Region

Surname:	
Password:	
Cancel Save 1	
eated. Please check your email	
	Password:  Cancel Save

# Role Live Region

- alert
- log
- marquee
- status
- timer

# Role Window

alertdialog

dialog

### Relationship Owner, sibling, child, parent

- aria-activedescendant
- aria-controls
- aria-describedby
- aria-labelledby
- aria-owns

#### State

## Dynamic

- aria-busy
- aria-checked
- aria-disabled
- aria-expanded
- aria-grabbed

- aria-hidden
- aria-invalid
- aria-pressed
- aria-selected

#### **ARIA Rules**

#1:Don't

#### CONTROLS

	ELEMENT	CRITERIA	0	9	3	e	
•	search input	Accessibly supported	~	~	~	0	<b>~</b>
$\oplus$	tel input	Accessibly supported	~	~	~	0	~
$\oplus$	url input	Accessibly supported	~	~	~	0	~
$\oplus$	email input	Accessibly supported	~	~	~	0	~
$\oplus$	datetime-local input	Accessibly supported	~	~	_	_	-
<b>①</b>	date input	Accessibly supported	~	~	_	_	-
$\oplus$	month input	Accessibly supported	~	~	_	_	_
$\oplus$	week input	Accessibly supported	0	~	_	-	-
<b>①</b>	time input	Accessibly supported	0	~	_	_	_

#### **ARIA Rules**

#1: Don't\*

### ARIA Rules #2: Don't do that either

<h2 role="tab">Tab 1</h2>

<h2 role="tab">Tab 2</h2>

```
<div role="tab">
  <div role="tab">
  <h2>Tab 1</h2>
  <h2>Tab 2</h2>
</div>
</div>
```

#### **ARIA Rules**

## #3: Keyboards

exist

# ARIA Rules #44: Focus

```
Row 1, Col 1
<button>My Button
```

```
<button aria-hidden="true">
  Spoon
</button>
<div aria-hidden="true">
  <button>Spoon 2</button>
</div>
```

<u>bit.ly/aria-first-rule-dont</u>

himmori

#### **ARIA Rules**

### #5: Names matter

```
<label for="userName">
   User Name:
   </label>
```

<input type="text" id="userName" />

```
<|abe|> User Name:
  <input type="text" />
</label>
<label> User Name:
  <div></div>
</label>
```

<u>bit.ly/aria-first-rule-dont</u>

<u>@shimmori</u>

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

<button aria-label="Save">
</button>

- input (\*not hidden)
- button
- select
- textarea
- output
- meter
- progress

```
<div id="userName">
   User Name:
</div>
```

<input type="text"
aria-labelledby="userName" />

## Recap ARIA == Context

### Recap Role, Relationship & State

#### Recap

- 1. Use native elements, not ARIA
- 2. Leave default semantics alone
- 3. Consider keyboard navigation
- 4. Don't hide focusable elements
- 5. Accessible names for all

bit.ly/aria-first-rule-dont

@shimmori

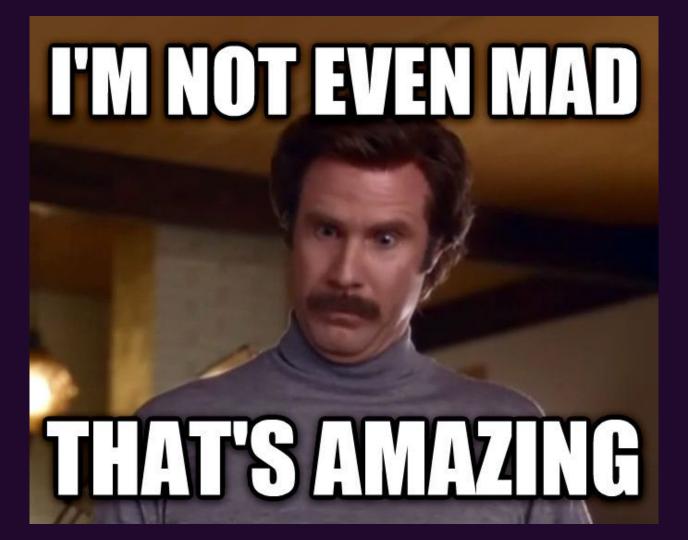
# First rule of ARIA

## First rule of ARIA 26.7 more errors with ARIA

## First rule of ARIA More ARIA than elements

bit.ly/aria-first-rule-dont

<u>@shimmori</u>



#### Resources & Tools

- ARIA Validator by RickBrown
- Visual ARIA Bookmarklet from WhatSock
- Landmarks by Matthew Tylee Atkinson
- WAI-ARIA and its true impact on assistive technologies by Tor-Martin Storsletten
- What a Year of Learning and Teaching
   Accessibility Taught Me by Sara Soueidan
- The WebAIM Million study & Higher Ed 4k Project

#### Resources & Tools

- POURing Over Your Website: An Introduction to Digital Accessibility Code Magazine article
- Accessibility Guidelines and Tools: How Do I Know My Website Is Accessible? Code Magazine article
- Digital Accessibility Resources & Tools gist
- Easy Accessibility Wins gist

## AMA!



#### Ashleigh Lodge

Application Development Manager Neovation Learning Solutions

@shimmoril

ashleighlodge.ca