



# WAI-ARIA HTML Attributes

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# For when you need help expressing your intentions to assistive technology

- Most of these do not change how HTML appears or behaves.

# Many are not needed if you write your HTML well

- aria-checked
- aria-disabled
- aria-required
- aria-valuetext
- aria-valuenow
- aria-valuemax
- aria-valuemin

# Two families of WAI-ARIA

## Roles

**role**="foo"

... and ...

## ARIA Attributes


**aria-**foo="bar"

# ARIA roles

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Pop quiz: How do you create a menu?





Find Movies, TV shows, Celebrities and more...

All



Movies, TV & Showtimes

Celebs, Events & Photos

News & Community


Watchlist

Enjoy unlimited streaming on Prime Video  
Includes thousands of titles. Monthly plans now available.

Start your 30-day free trial


FULL CAST AND CREW | TRIVIA | USER REVIEWS | IMDbPro | MORE

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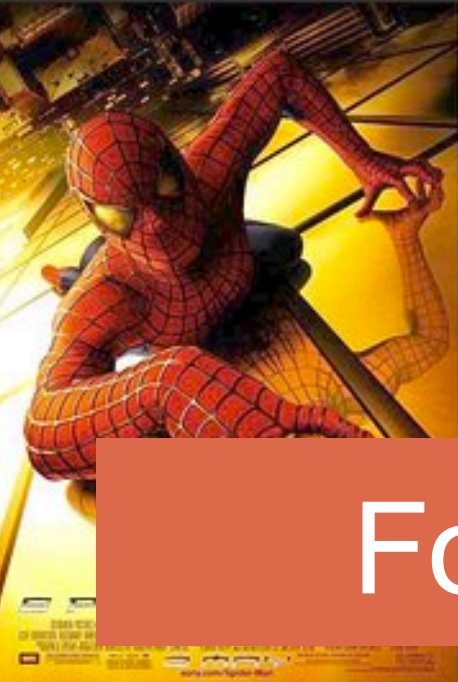
Spider-Man (2002)

PG-13 | 2h 1min | Action, Adventure, Fantasy | 3 May 2002 (USA)



7.3<sub>540,822</sub>

Rate This



For example ... Menus

1:06 | Trailer

5 VIDEOS | 114 IMAGES

# Widget roles

- alert
- button
- checkbox
- radio
- dialog
- link
- log
- marquee
- navigation
- option
- progressbar
- scrollbar
- slider
- spinbutton
- status
- textbox
- timer
- tooltip
- treeitem
- switch



# Composite roles

- combobox (combined with the listbox role)
- grid (includes row, gridcell, rowheader, columnheader roles)
- list (includes listitem)
- listbox (includes option)
- menu, menubar (including menuitem, menuitemradio, menuitemcheckbox)
- radiogroup (see radio role)
- tablist (including tab and tabpanel roles)
- tree (included treeitem and group roles)

# Document structure roles

- article, heading, main (Better to use the HTML elements)
- complementary (Better to use `<nav>`)
- definition
- document
- group
- img
- math
- note
- presentation
- region
- separator
- toolbar

# Landmark roles

- Application
- Banner
- Contentinfo
- Form
- Navigation
- Search

# For example

- Tooltips should announce themselves as such

```
<div role="tooltip">Your  
username is your email  
address</div>
```

The image shows a login form with two input fields and a button. The first field is labeled 'Your username' and contains a vertical cursor. A light blue tooltip box is positioned below the input field, containing the text 'Your username is your email address'. The second field is labeled 'Your password' and is empty. Below the password field is a blue button with the text 'log in'.

Your username

Your username is your email address

Your password

log in

# ARIA attributes

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# Widget attributes

- aria-autocomplete (for textbox and combobox roles)
- aria-describedby
- aria-disabled
- aria-expanded
- aria-haspopup
- aria-hidden
- aria-invalid
- aria-label
- aria-labelledby
- aria-live
- aria-owns
- aria-multiline (for textbox role)
- aria-multiselectable (for grid, listbox, & tree roles)
- aria-orientation
- aria-pressed
- aria-readonly
- aria-selected

# Example

Click here  
to dismiss

No, you clearly don't know who you're talking to, so let me clue you in. I am not in danger, Skyler. I AM the danger. A guy opens his door and gets shot, and you think that of me? No! I am the one who knocks



- "X?!? Really? That's all you're going to tell me?"

```
<button aria-label="dismiss">X</button>
```

## aria-live allows for interruptions

- If you have a <div> suddenly appear (like in an Ajax return).
- `aria-live="polite"` ==> Announce when you get an idle minute. I can wait a little. These all queue up and eventually announce.
- `aria-live="assertive"` ==> Interrupt whatever is going on and announce right now!
- `aria-live="off"` ==> Never announce. Great for frequently updated things. Could get very annoying because polite 'events' will stack up and repeat-repeat-repeat- ...



# Example

- Tooltips should announce themselves as such

```
<input aria-describedby="utip" />  
<div role="tooltip" aria-  
live="assertive" id="utip">Your  
username is your email address</  
div>
```

Your username

Your password

log in

Your username

Your username is your email address

Your password

log in

# Some examples

- <http://oaa-accessibility.org/>