



# Accessibility With(out) Priorities

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Surname

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First name

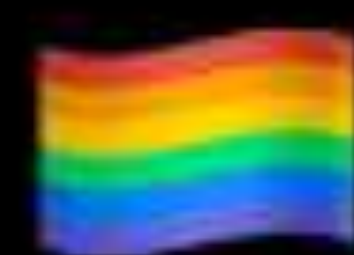
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basketball



@hj\_chen







# Disclaimer

This talk is purely a sharing based off my personal experiences and I do not believe this represents the full picture of the situation in my region.

I am also by no means an expert on accessibility but I am trying my best to learn and get better at it.





a11y

1 2 3 4 5 6 7 8 9 10 11

accessibility





# Web Accessibility Initiative (WAI)

*Accessibility is essential for developers and organizations that want to create high quality websites and web tools, and not exclude people from using their products and services.*

<https://www.w3.org/WAI/>





**Why isn't accessibility explicitly taught during the basics of web development?**







# The 80-20 rule





# Web Accessibility Laws in Asia

Country	Name	Date enacted	Type	Scope	Web only?	WCAG version
China	<u>Law on the Protection of Persons with Disabilities 1990, as amended</u>	2008	Accessibility law	Public sector, Private sector	No	None
China	<u>Voluntary Web Accessibility Standard</u>	2008	Recommendation	Government	Yes	WCAG 2.0 derivative
Hong Kong	<u>Guidelines on Dissemination of Information through Government Websites</u>	1999	Mandatory policy	Government	No	WCAG 2.0
India	<u>Rights of Persons with Disabilities Act, 2016 (RPD)</u>	2016	Non-discrimination law	Public sector, Private sector	No	None
India	<u>Guidelines for Indian Government Websites</u>	2009	Mandatory policy	Government	No	WCAG 2.0
Japan	<u>Basic Act on the Formation of an Advanced Information and Telecommunications Network Society</u>	2000	Accessibility law	Public sector, Private sector	No	None
Republic of Korea	<u>Act on Welfare of Persons with Disabilities</u>	2008	Non-discrimination law	Public sector, Private sector	No	WCAG 2.0
Taiwan	<u>Web Accessibility Guidelines 2.0</u>	2017	Mandatory policy	Public sector	Yes	WCAG 2.0 derivative
Singapore	Website Interface Standards (WIS) for the Singapore Government	2004	Recommendation	Government	Yes	W3C WCAG 1.0
Thailand	A Guideline on ICT Accessibility for Persons with Disabilities	2003	Recommendation	Government	No	W3C WCAG 1.0





**But what can I do?**





# But what can I do?

Use your own best judgement



# Level 1: No one can tell you're doing it







# Page titles

## Instead of...

```
<title>Welcome to the home of the fluffiest musicians in  
the universe the Fluffy Philharmonic</title>
```

```
<title>Fluffy Philharmonic - Musicians</title>
```

```
<title>Fluffy Philharmonic | Life at FP</title>
```

## Try doing...

```
<title>Fluffy Philharmonic home page</title>
```

```
<title>Musicians - Fluffy Philharmonic</title>
```

```
<title>Life at FP | Fluffy Philharmonic</title>
```





# Image text alternatives (alt text)

Every image must have an `alt` attribute

If the image conveys useful information, then it needs alt text.

If the image is purely decorative, set the alt attribute to empty.

Context is everything

Text should be functional and provide an equivalent user experience, not necessarily describe the image.

Reference: [WebAIM alternative text guidelines](https://www.w3.org/WAI/ARIA/understanding-alt/)





Even though Viola the red panda had played the violin for many years, she wasn't exactly passionate about it. But the first time she tried the viola, she finally knew what love was.

### Pick the appropriate option:

1. "Image of Viola the red panda"
2. "Viola, the red panda who fell in love with the viola"
3. An empty alt attribute is enough
4. "Viola, the red panda" ✓





## Viola, the red panda

Even though Viola the red panda had played the violin for many years, she wasn't exactly passionate about it. But the first time she tried the viola, she finally knew what love was.

### Pick the appropriate option:

1. "Viola, the red panda"
2. An empty alt attribute is enough ☒
3. "Image"
4. No alt attribute is required





# Use the lang attribute

Declare the document language using the lang attribute on the html element


Indicate if there are language changes with the lang attribute on specific elements

```
<html lang="en">
```

```
<p>The fourth animal in the Chinese Zodiac is Rabbit (<span lang="zh">兔子</span>).</p>
```







## Effect of lang attribute values on JAWS speech

Check • CSS • Images • Colour • Structure • Tables • Frames • Doc Info • IE • Dev • aViewer • Refs • Browsers

Copy link

### Spanish


What will you do when the label comes off, And the plastic's all melted, And the chrome is too soft?

### French

What will you do when the label comes off, And the plastic's all melted, And the chrome is too soft?

### German

What will you do when the label comes off, And the plastic's all melted, And the chrome is too soft?







# Use semantic mark-up (1/3)

The `<div>` element is not a magical hammer

Reference: [HTML elements reference](https://redviolapanda.com/html-elements-reference) ❤️





# Use semantic mark-up (2/3)

Buttons and links have different semantic meaning

```
<button>Submit</button>
```

Use buttons for actions

```
<a href="https://redviolapanda.com">The fluffiest  
musicians you've ever met</a>
```

Use links for changes in location

CSS lets you style them both however you want

Reference: [A Complete Guide to Links and Buttons](#)





# Use semantic mark-up (3/3)

## Keyboard accessibility by default

Interaction	Keystrokes	Notes
Navigate to most elements	<input type="button" value="Tab"/> <input type="button" value="Shift"/> + <input type="button" value="Tab"/> - navigate backward	Keyboard focus indicators must be present. Navigation order should be logical and intuitive.
Link	<input type="button" value="Enter"/>	
Button	<input type="button" value="Enter"/> or <input type="button" value="Spacebar"/>	Ensure elements with ARIA role="button" can be activated with both key commands.
Checkbox	<input type="button" value="Spacebar"/> - check/uncheck a checkbox	Checkboxes should be used when one or more option can be selected.
Radio buttons	<input type="button" value="↑"/> / <input type="button" value="↓"/> or <input type="button" value="←"/> / <input type="button" value="→"/> - select an option. <input type="button" value="Tab"/> - move to the next element.	Radio buttons should be used when only one option from a group can be selected.
Select (dropdown) menu	<input type="button" value="↑"/> / <input type="button" value="↓"/> - navigate between menu options <input type="button" value="Spacebar"/> - expand	You can also filter by typing letters, but this behavior varies by browser. Some will filter as you type, like autocomplete. Others will only sort by first letter.
Autocomplete	Type to begin filtering <input type="button" value="↑"/> / <input type="button" value="↓"/> - navigate to an option <input type="button" value="Enter"/> - select an option	

Link: [Form elements](#)



# Level 2: Get designers/writers involved







# Resize text

Don't break zooming

Let users control text size

Reference: [Accessibility in browsers: zoom level vs. font size](#)





# Write meaningful link text

“Click here” isn't very helpful

Write link text so that it describes the content of the link target

## Instead of...

Click here to visit our sticker store.

```
<a href="https://redpandaviola.com">Click here</a>  
to visit our sticker store.
```

## Try doing...

Visit our sticker store.

```
Visit our <a href="https://redpandaviola.com">sticker store</a>.
```





# Use spacing and proper sectioning

Negative space and proximity can help make relationships between content more apparent.

Ties back to use of semantic mark-up for headings and content.

Content should be easy to scan.





# Colour issues (1/2)

Provide enough contrast between text and background

## Instead of...

This is a pretty unreadable combination. I mean, sure I'm using the browser default sans-serif, and the content is not particularly interesting, but still. I'm giving everyone the access to read my shitty content and judge for themselves.

## Try doing...

Clearly a better combination. It didn't make the content any better, I'm still using the browser default sans-serif, and the content has not improved at all, but still. I'm giving everyone the access to read my shitty content and judge for themselves.





# Colour issues (2/2)

Colour alone is not enough to convey information

## Instead of...

Required fields are in red

Name

Email

## Try doing...

Required fields are in red and marked with an \*

Name

\*Email





# Make interactive elements obvious

Links and buttons should have distinct styles from the rest of the text

Keep them consistent throughout the site

RedViolaPanda is a nonsensical side-project  
between Hui Jing and Wei

```
.focus a:hover {  
  text-decoration: none;  
  color: inherit;  
  border-bottom: 0;  
}  
  
.focus a:focus {  
  outline: 5px auto -webkit-focus-ring-  
color;  
}
```





# Form elements must have labels

Placeholder text is not a substitute for labels

Make sure the association between the field and label is clear

## Instead of...

Name

Email

Phone

## Try doing...

Name

Name

Email

Email

Phone

Phone



# Why so hard...?





# People I've learned from 🥰



Adrian Roselli  
(@aardrian)



Léonie Watson  
(@LeonieWatson)



Manuel Matuzovic  
(@mmatuzo)



Eric Bailey  
(@ericwbailey)

And many more folks who share their knowledge about accessibility...





# More relevant links

- [WAI-ARIA Authoring Practices 1.1](#)
- [Keyboard Accessibility](#)
- [The A11y Project](#)





# Thank you



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