

Client-Side Web Development

Class 4.2

Today's Topics

- **Review:** Increase Your Flexibility
- Responsive Images
- **Lab:** Image Response

Announcements

Recording

CSS Zen Garden

Any Questions?

Review: Increase Your Flexibility

Responsive Images

CSS Sizing

**Using CSS to make an image grow and shrink
as the viewport changes**

```
img {  
  display: block;  
  max-width: 100%;  
}
```

Resolution/DPI Based Images

Using HTML tags and attributes to provide the best image for the current situation based on resolution, pixel density, and art direction

The `srcset` Attribute

The `srcset` attribute provides the browser with a list of available images, and let the browser choose the best one based on the current window size and pixel density

```

```



```

```

The `sizes` Attribute

The **sizes** attribute gives the browser the display size of the image

```

```

If the image display sizes is based on a specific condition, It is possible to add media conditions, to the sizes attribute

```

```

Art Direction

It is sometimes necessary to alter or change an image to better fit a specific situation

The `<picture>` element

The `<picture>` element is a wrapper containing several `<source>` elements that provide several different sources for the browser to choose between, followed by the all-important `` element.

The `<source>` elements include a `media` attribute that contains a media condition, which are tested to decide which image is shown

The first <source> with a condition that returns true will be displayed.

```
<picture>
  <source media="(min-width: 768px)"
    srcset="pelican-portrait.jpg">

  
</picture>
```

The `<source>` can take a `srcset` attribute with multiple images referenced, and a `sizes` attribute too.

```
<picture>
  <source
    media="(min-width: 768px)"
    sizes="(min-width: 1024px) 33vw, 50vw"
    srcset="pelican-portrait-200.jpg 200w,
            pelican-portrait-400.jpg 400w,
            pelican-portrait-800.jpg 800w">

  
</picture>
```

It is also possible to use the `<picture>` element to utilize image formats not supported by all browsers


```
<picture>
  <source
    type="image/webp"
    srcset="pelican.webp">
  
</picture>
```

Lab: Image Response

For next class...

- Web Animation
- **Exercise:** Pseudo Judo