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CSCI-UA-4-005

Intro to Web Design + Computer Principles

Raster Graphics – Workshop

Professor Emily Zhao
M/W 12:30PM – 1:45PM

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Agenda

— `srcset` attribute
— `<picture>` tag
— Exporting images in multiple sizes
— CSS Positioning Review
— Assignment #4
  — Walkthrough
  — Homepage linking requirements
— Open Workshop

srcset

srcset

— `srcset` is an HTML image attribute that specifies the list of images to use in different browser situations.

— The browser will pick the most optimal image version, based on the screen size and resolution.

```html
<img alt="image alt text" src="default url"
    srcset="url size, url size, url size"/>
```

`srcset` + image density

— A common way to to set include **size** information in the `srcset` attribute is to label each file by image density.

— You do this by putting 1x, 2x, 3x and so forth after the URL.

```
<img alt="flamingo in lake" src="flamingo-400.jpg"
    srcset="flamingo-800.jpg 2x,flamingo-1200.jpg 3x"/>
```

`srcset` + image width

— The other way to inform the browser about the different sizes is to actually specify the image width in pixels.

— This gives the browser more information about the images, so it can make a better decision about which one to select.

— This is also good if your image versions aren't in exact proportion to each other.

```html
<img
  alt="flamingo in lake"
  src="flamingo-400.jpg"
  srcset="
    flamingo-800.jpg 800w,
    flamingo-1200.jpg 1200w,
    flamingo-1600.jpg 1600w,
  "
/>
```

`<picture>`

`<picture>`

— The `<picture>` HTML element contains zero or more `<source>` elements and one `<img>` element

— The browser will consider each child `<source>` element and choose the best match among them. If no matches are found—or the browser doesn't support the `<picture>` element—the URL of the `<img>` element's src attribute is selected.

`<picture>`

```
<!-- use the <picture> element to offer image formats that may
not be universally supported, with a fallback option →

<picture>
  <source srcset="grand-central-540.webp 540w,
     grand-central-1080.webp 1080w" type="image/webp">
  <img src="grand-central-540.png" srcset="grand-central-1080.png 2x"
     alt="Hall of Grand Central Station" width="540" height="720">
</picture>
```

Exporting image in multiple sizes [Photoshop]

CSS Positioning

CSS Positioning

The CSS position property specifies the type of positioning used for an element on a page.

`static`
Default document flow

`relative`
Element is positioned relative to its normal position

`absolute`
Element is positioned relative to its first positioned (not static) parent element

`fixed`
Element is positioned relative to the browser window

`sticky`
Positioned based on the user's scroll position

Assignment #4

Open Workshop

Today's Attendance
(via PollEverywhere)

pollev.com/emilyzhao

→ How far did you get with Assignment #4?

For next time

— Ed Lesson: SVG Basics (due Wed before class)
— Assignment #4 (due Wed at 11:59PM)