

CSCI-UA-4-005

Intro to Web Design + Computer Principles

Raster Graphics – Workshop

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



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.

```
<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.

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

<picture>

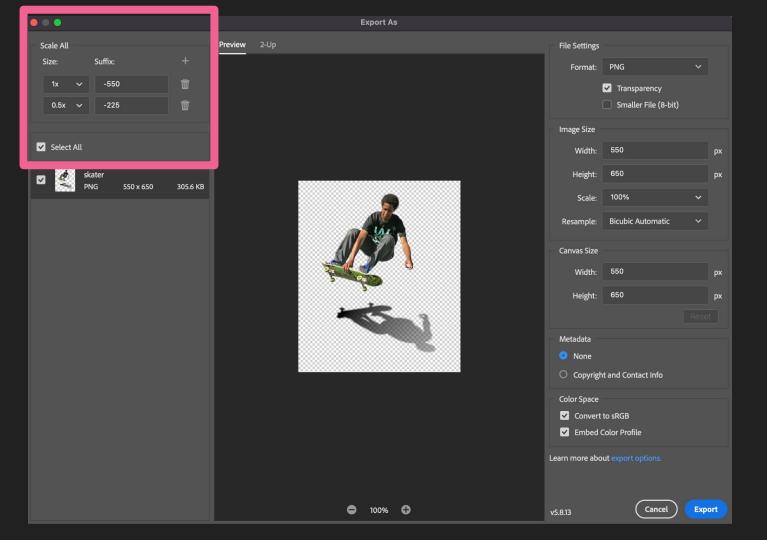
<picture>

- The <picture> HTML element contains zero or more <source> elements and one 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 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,</pre>
     grand-central-1080.webp 1080w" type="image/webp">
  <img src="grand-central-540.png" srcset="grand-central-1080.png 2x"</pre>
     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)