

Fall 2017 — ar589.github.io

Week 6

Interactive Design

Ways to
Use Images

A New Way
of Thinking
About CSS

Ways to use Images

Inline

- Set in HTML with the `` tag
- Shape defined by the image by default
- Use when the image is part of the content

Background

- Set in CSS with background properties
- Shape set by the element it is attached to
- Use when image is ornamental
— *or* —
your design needs to take advantage of CSS properties.

CSS Properties for Inline Images

```
<!-- HTML -->


/* CSS */
.myImage {
    /* Image always as wide as parent */
    width: 100%;
    /* Image won't overflow container */
    min-width: 100%;
    /* Image won't be bigger than value */
    max-width: 50%;
}
```

CSS Properties for Background Images

Background Size

Defines the size of the background image.

```
<!-- HTML -->
<div class="myDiv"></div>

/* CSS */
.myDiv {
    background-size: cover;
}
```

Background Position

Defines the position of the background image.

```
<!-- HTML -->
<div class="myDiv"></div>

/* CSS */
.myDiv {
    background-position: center center;
}
```

Background Repeat

Defines how the background image repeats itself across the element's background, starting from the background position.

```
<!-- HTML -->
<div class="myDiv"></div>

/* CSS */
.myDiv {
    background-repeat: no-repeat;
}
```


**For more information see
cssreference.io/backgrounds**

A New Way of Thinking About CSS

**What are the
hardest parts of
designing in code?**

It's a bit slow.

We have to write two different types of code (HTML and CSS) in two different places.

**Code can get
messy while you're
working on it.**

We want to spend time designing, not organizing.

**The “cascade” of
CSS can be pretty
confusing.**

And then media queries, c'mon!

Naming your CSS classes is hard.

And kind of pointless, TBQH.

Tachyons

<http://tachyons.io>

A “CSS Toolkit”

- It’s just a bunch of tiny, logical classes
- Based on a mathematical scale
- Built with designing in mind

Key Properties

- Type Scale
- Spacing (margin & padding)
- Sizing (height & width)
- Color

Why is this better?

- Mirrors how you make design decisions
- Faster to implement
- Simplifies the idea and execution of RWD
- Way more stable
- Easy to debug

Using Tachyons

Download tachyons and include it in the head of your HTML document.

```
<!DOCTYPE html>
<html lang="en">
  <title>My cool site</title>
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"" href="/tachyons.min.css">
  <body>
    <h1>Let's go!</h1>
  </body>
</html>
```

Type Scale

A scale that goes from “f1” to “f7.”

“f1” is the largest size, “f7” is the smallest.

```
<h1 class="f1">  
  A Wonderful Headline  
</h1>
```

Media Queries

Three sizes:

“-ns”: not small, “-m”: medium, “-l”: large

```
<h1 class="f3 f2-m f1-l">  
  A Wonderful Headline  
</h1>
```

Spacing

Margin and Padding are also on a scale.
0 is the smallest, 7 is the largest.

```
<div class="ma2 ma3-m ma4-l">
```

```
...
```

```
</div>
```

```
<div class="ph2 ph3-m ph4-l">
```

```
...
```

```
</div>
```


How to Read the Docs

Base

+ Modifiers

+ Media Queries (optional)

Class

```
/*
SPACING
Docs: http://tachyons.io/docs/layout/spacing/

An eight step powers of two scale ranging from 0 to 16rem.

Base:
  p = padding
  m = margin

Modifiers:
  a = all
  h = horizontal
  v = vertical
  t = top
  r = right
  b = bottom
  l = left

  0 = none
  1 = 1st step in spacing scale
  2 = 2nd step in spacing scale
  3 = 3rd step in spacing scale
  4 = 4th step in spacing scale
  5 = 5th step in spacing scale
  6 = 6th step in spacing scale
  7 = 7th step in spacing scale

Media Query Extensions:
  -ns = not-small
  -m  = medium
  -l  = large

*/
```

Resources

- <http://tachyons.io/docs>
- <https://github.com/tachyons-css/tachyons/tree/master/src>
- <https://roperzh.github.io/tachyons-cheatsheet>

Design Challenge!

Using Tachyons, design a “Top Ten” list of your favorite songs. You must include at least the following information for each song:

- Song Title
- Song Duration (Time)
- Artist
- Album Art