



# RWD

## Class 5

# Overview

Current Events & Whiteboard (15 min)

CSS Assignment Quick Review (10 min)

Web Typography (10 min)

Box Model Video (15 min)

Break

Interactive Boxes/Layout/Images  
Overview (45 min)

CodePen Challenge: CSS 2 (30 min)



# CSS Whiteboard Activity



# Current Events



# CSS 1 Assignment

## Quick Review

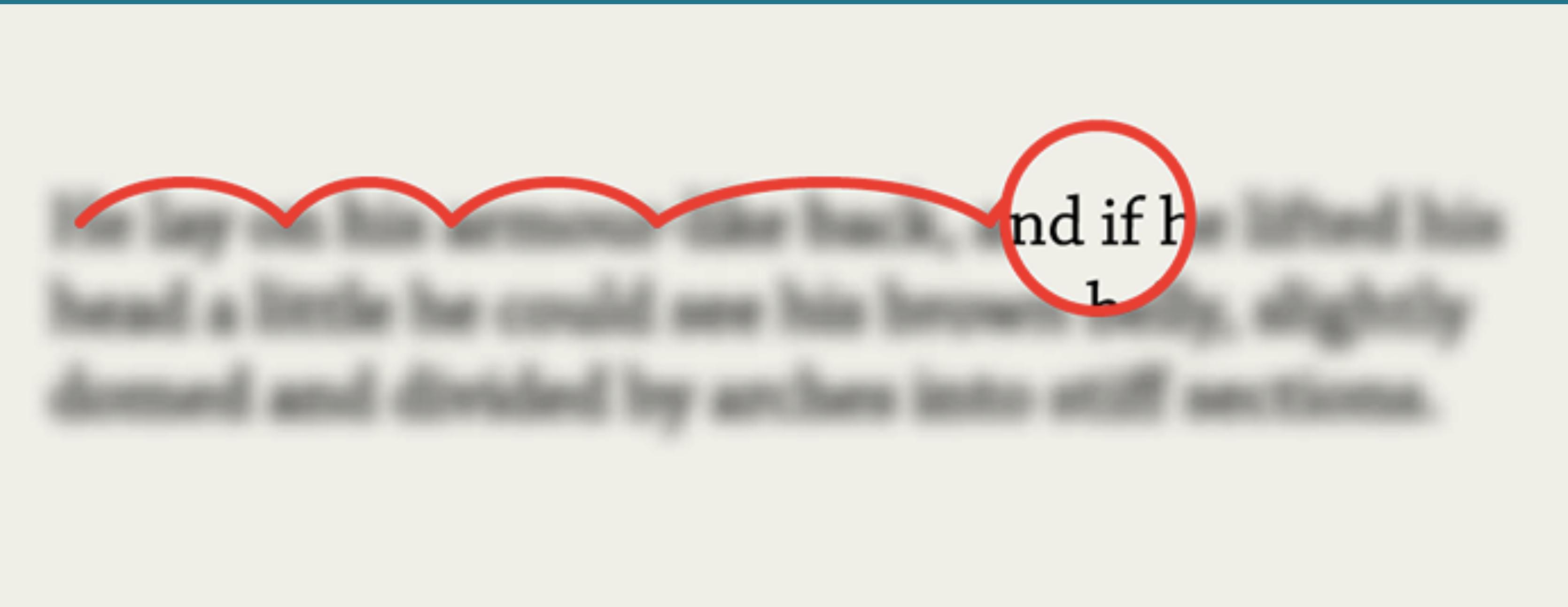


# Web Typography



He lay on his armour-like back, and if he lifted his head a little he could see his brown belly, slightly domed and divided by arches into stiff sections.





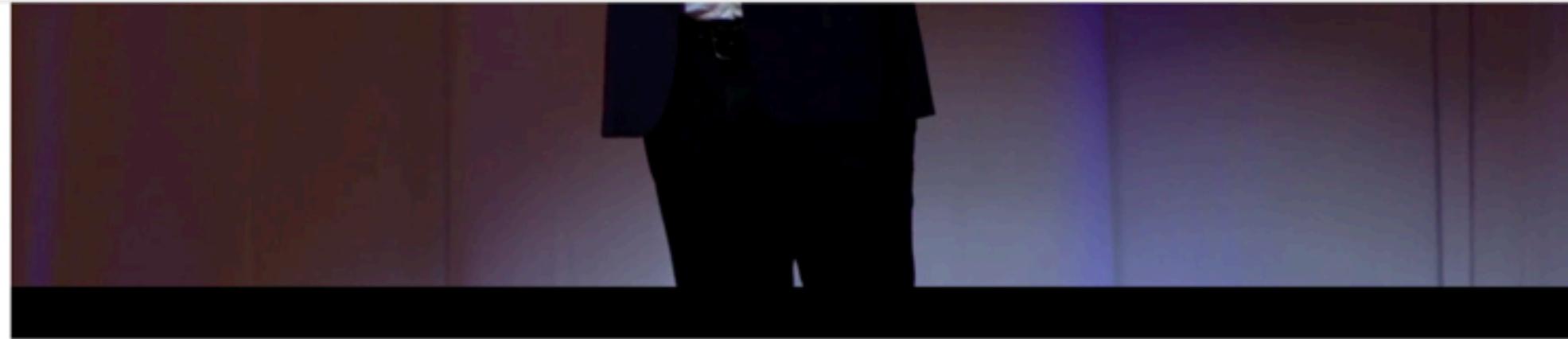
**ANTHOLOGIES**

**Anthologies**



# Is there an ideal line length?





On Friday, SpaceX CEO Elon Musk will be giving a "major" update on his plans to colonize Mars during a presentation at the International Astronautical Congress in Adelaide, Australia. His talk is meant to add to the one he gave at last year's IAC conference in Mexico, when he revealed the full architecture of his plans to send thousands of people to the Martian surface. This time around, it seems his speech may revolve around making the concept more feasible — mainly by scaling things down.

Musk has only dropped a few hints about what he'll talk about this week, but we can probably expect the announcement of a smaller launch vehicle, as well as ideas for how to pay for the high costs of developing such a rocket. He's also said there will be a few surprises regarding how the vehicle will be used.

Here's a few points Musk will likely talk about this week, as well as other things we'll keep our eyes peeled for.

### A SMALLER VEHICLE

Central to Musk's Mars colonization plans is a massive rocket and spaceship combo

**THERE WILL BE A FEW SURPRISES REGARDING HOW THE VEHICLE WILL BE USED**

### NOW TRENDING



Bill Gates now uses an Android phone



There's one good reason to update to macOS High Sierra



# 88 characters



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#### **THERE WILL BE A FEW SURPRISES REGARDING HOW THE VEHICLE WILL BE USED**

Here's a few points Musk will likely talk about this week.

**THE VERGE**

 TWEET

 SHARE

# 47 characters



# What about font size?



# Don't Forget Line Height.

We are pleasure-seeking creatures and appreciate fine things: beautiful colors, textures and shapes; contrasts in rhythm; layers of complexity. But fine things cannot compensate for an unpleasant reading experience.

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# CSS Box Model Video

<http://www.lynda.com/CSS-tutorials/Making-Sense-CSS-Box-Model/372544-2.html>



# CSS Boxes, Layout and Images



## The Cottage Garden

The *cottage garden* is a distinct style of garden that uses an informal design, dense planting and a mixture of ornamental and edible plants.

The Cottage Garden originated in [England](#) and its history can be traced back for centuries, although they were re-invented in 1870's England, when stylized versions were formed as a reaction to the more structured and rigorously maintained [English estate gardens](#).

The earliest cottage gardens were more practical than their modern descendants, with an emphasis on vegetables and herbs, along with some fruit trees.



# Hands-On: Boxes & Classes in CodePen (While Reviewing)

<http://codepen.io/challahan/pen/oBVNaE>



# Everything On Page Is a Box



# Block vs. Inline Elements



# Inline Elements

Flow Within the Text

*<img>, <em>, <b>, <i>, <span>*



# Block Elements

Start on new line

`<h1>-<h6>, <p>, <div>`



# Can Change elements to display Inline or Block

```
li {  
    display: inline;  
    margin-right: 10px;}
```

Home Products About Contact



# DIV and SPAN

Generic ways of grouping elements or words together to relate them or apply style.



# DIV and SPAN

```
<div class="alert">
    <p>This is the alert text</p>
    
</div>

<span class="alert">This is a single alert message.</span>
```



# HTML 5 Elements

Boxes that indicate the purpose of elements

Help describe structure

Easily style particular elements



# HTML 5 Elements

```
<body>
  <div id="page">
    <div id="header">
      <div id="nav">
        ...
      </div>
    </div>
    <div id="content">
      <div class="article">
        ...
      </div>
      <div class="article">
        ...
      </div>
    </div>
    <div id="sidebar">
      ...
    </div>
  </div>
  <div id="footer">
    ...
  </div>
```



# HTML 5 Elements

```
<body>
  <div id="page">
    <header>"header"</header>
    <nav>id="nav"</nav>
    <div id="content">
      <article>ss="article"</article>
      <article>ss="article"</article>
    </div>
    <aside>id="sidebar"</aside>
  <footer>"footer"</footer>
```



# HTML 5 Elements

header

footer

nav (use ul)

article

aside

section

hgroup

figure



# Targeting Elements with CSS



# Use Element Type Selector

In HTML

```
<p>Hello</p>
```

In CSS

```
p {  
    font-weight: bold;  
}
```



# Descendant Selector

In HTML

```
<p><a href="#>Hello</a></p>
```

In CSS

```
p a {  
    font-weight: bold;  
}
```



# Box Width/Height

```
div {  
  height: 300px;  
  width: 400px;  
  background-color: #ee3e80;}
```

```
p {  
  height: 75%;  
  width: 75%;  
  background-color: #e1ddda;}
```

The Moog company pioneered the commercial manufacture of modular voltage-controlled analog synthesizer systems in the early 1950s.



# Min/Max Width/Height

```
td.description {  
    min-width: 450px;  
    max-width: 650px;  
    text-align: left;  
    padding: 5px;  
    margin: 0px; }
```

Photo	Description	Price
	The Rhodes piano is an electro-mechanical piano, invented by Harold Rhodes during the fifties and later manufactured in a number of models, first in collaboration with Fender and after 1965 by CBS. It employs a piano-like keyboard with hammers that hit small metal tines, amplified by electromagnetic pickups.	\$1400
	The Wurlitzer electric piano is an electro-mechanical piano, created by the Rudolph Wurlitzer Company of Mississippi. The Wurlitzer company itself never called the instrument an "electric piano", instead inventing the phrase "Electronic Piano" and using this as a trademark throughout the production of the instrument. It employs a piano-like keyboard with hammers that hit small metal tines, amplified by electromagnetic pickups.	\$1600
	A Clavinet is an electronically amplified clavichord manufactured by the Hohner company. Each key uses a rubber tip to perform a hammer on a string. Its distinctive bright staccato sound is often compared to that of an electric guitar. Various models were produced over the years, including the models I, II, L, C, D6, and E7.	\$1200



# Overflow

```
p.one {  
  overflow: hidden;}  
  
p.two {  
  overflow: scroll;}
```

## Fender Stratocaster

The Fender Stratocaster or "Strat" is one of the most popular electric guitars of all time, and its design has been copied by many guitar makers.

## Gibson Les Paul

The Gibson Les Paul is a solid body electric guitar that was first sold in 1952. The Les Paul was designed by



# Border/Padding/Margin



BORDER

MARGIN

PADDING



**Moog**

Moog synthesizers were created by Dr. Robert Moog under the company name Moog Music. Popular models include Moog Modular, Minimoog, Micromoog, Moog Rogue, and Moog Source

**Arp**

ARP Instruments Inc. was set up by Alan Peralman, and was the main competitor for Moog during the 1970's. Popular models include the Arp 2600 and the ARP Odyssey.

**Sequential Circuits**

Sequential Circuits Inc was founded by Dave Smith, and the company was pivotal in the creation of MIDI. Famous models include the Prophet 5, Prophet 600, and Pro-One.

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# Borders

```
p {  
width: 250px;  
border: 3px dotted #0088dd; }
```

Here is a simple chord sequence  
played on a Hammond organ  
through a Leslie speaker.



# Padding

```
p {  
width: 275px;  
border: 2px solid #0088dd;}
```

```
p.example {  
padding: 10px;}
```

Analog synths produce a wave sound, whereas the sounds stored on a digital synth have been sampled and then turned into numbers.

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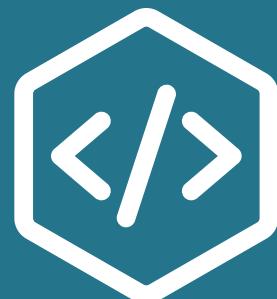
# Margin

```
p {  
    width: 200px;  
    border: 2px solid #0088dd;  
    padding: 10px;}
```

```
p.example {  
    margin: 20px;}
```

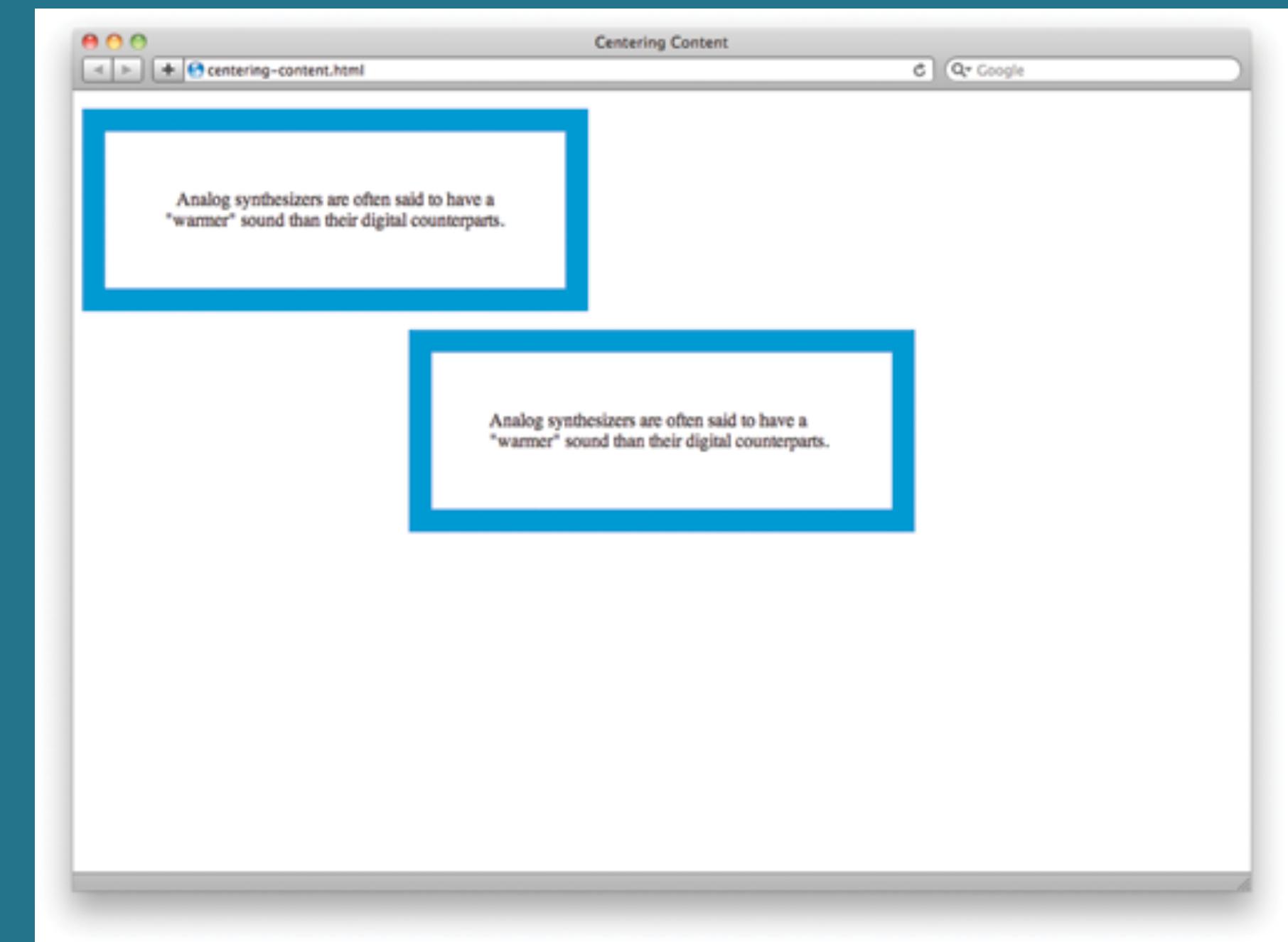
Analog synthesizers are often said to have a "warmer" sound than their digital counterparts.

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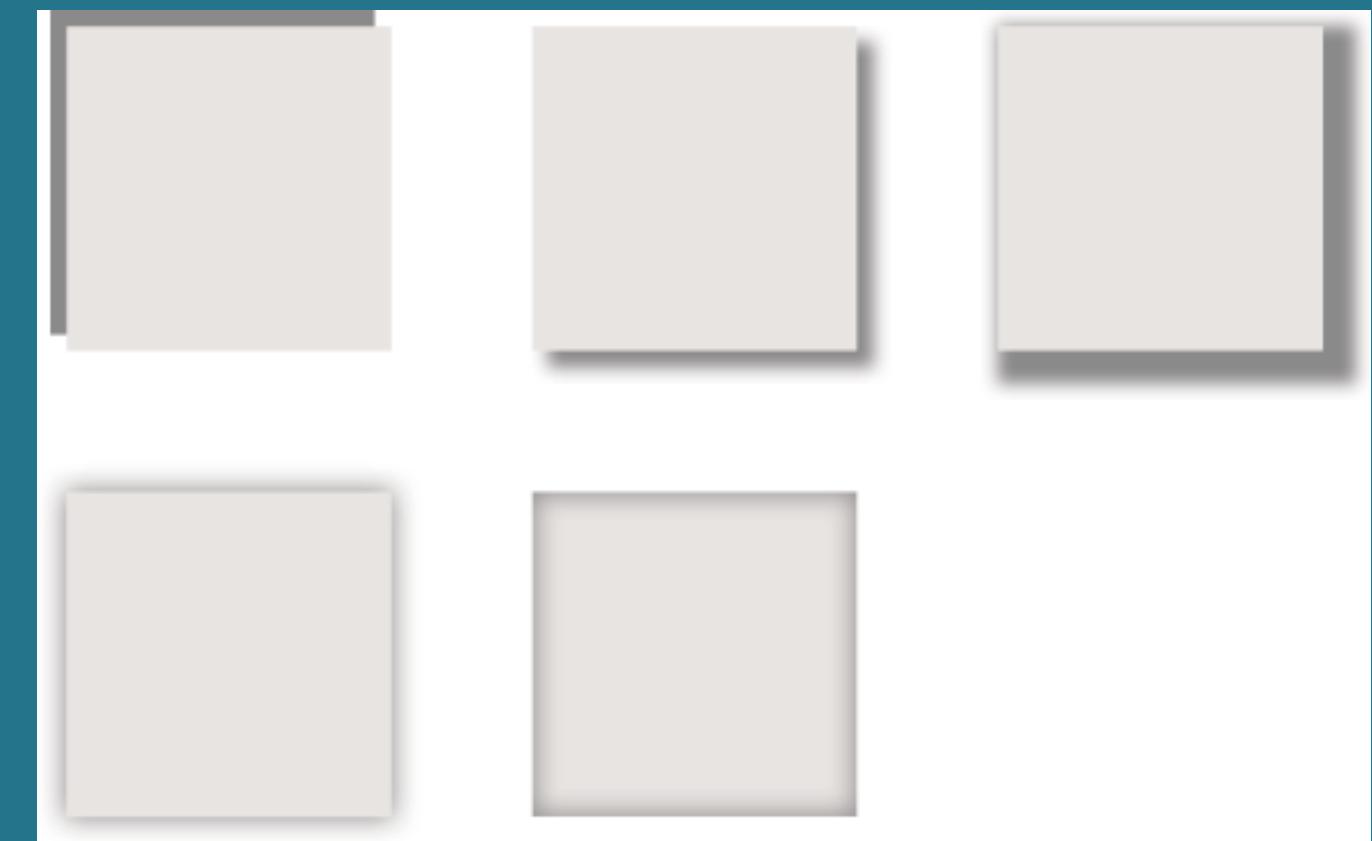
# Centering Boxes

```
body {  
    text-align: center; }  
  
p {  
    width: 300px;  
    padding: 50px;  
    border: 20px solid #0088dd; }  
  
p.example {  
    margin: 10px auto 10px auto;  
    text-align: left; }
```



# Box Shadow

```
p.one {  
  box-shadow: -5px -5px #777777; }  
p.two {  
  box-shadow: 5px 5px 5px #777777; }  
p.three {  
  box-shadow: 5px 5px 5px 5px #777777; }  
p.four {  
  box-shadow: 0 0 10px #777777; }  
p.five {  
  box-shadow: inset 0 0 10px #777777; }
```



# Rounded Corners

```
p {  
border: 5px solid #ee3e80;  
padding: 20px;  
width: 275px;  
border-radius: 10px;}
```

Pet Sounds featured a number of unconventional instruments such as bicycle bells, buzzing organs, harpsichords, flutes, Electro-Theremin, dog whistles, trains, Hawaiian-sounding string instruments, Coca-Cola cans and barking dogs.



# Building Blocks

## BLOCK LEVEL

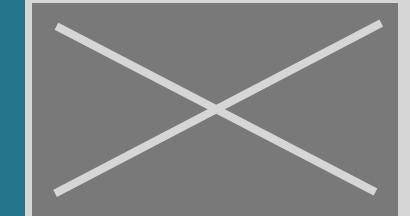
### Lorem Ipsum

  Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam sodales pretium ipsum. Etiam ut enim augue. Etiam mi tortor, pulvinar at dictum faucibus, mollis eget nunc. Morbi justo velit, rutrum vel placerat in, adipiscing vitae sapien.

- Duis in erat neque.
- Pellentesque habitant morbi
- Praesent ac condimentum neque

## INLINE

*Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam sodales **pretium ipsum**. Etiam ut enim augue. Etiam mi tortor, pulvinar at dictum faucibus, mollis eget nunc. Morbi justo velit, rutrum vel placerat in, adipiscing vitae sapien.*



*Suspendisse potenti. Duis in erat neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas.*



# Containing Elements



# Positioning

## NORMAL FLOW (STATIC)

  Lorem Ipsum

    Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam sodales pretium ipsum. Etiam ut enim augue. Etiam mi tortor, pulvinar at dictum faucibus, mollis eget nunc.

    Morbi justo velit, rutrum vel placerat in, adipiscing vitae sapien. Vivamus sit amet lacus enim, vel scelerisque justo. Nunc dignissim vehicula urna ac porta. Suspendisse potenti.

    Praesent nisi dolor, ornare quis sodales id, lacinia ut mauris.



# Positioning

You can add the following properties to a relative or absolutely positioned element to move them:

left, right, top, bottom



# Positioning

```
p.example {  
    position: relative;  
    top: 10px;  
    left: 100px; }
```

# RELATIVE POSITIONING

# **Lorem Ipsum**

**Etiam ut enim augue. Etiam mi tortor, pulvinar at dictum faucibus, mollis eget nunc.**

Morbi justo velit, rutrum vel placerat in, adipiscing vitae sapien. Vivamus sit amet lacus enim, vel scelerisque justo. Nunc dignissim vehicula urna ac porta. Suspendisse potenti.

Praesent nisi dolor, ornare quis sodales id, lacinia ut mauris.



# Positioning

```
h1 {  
    position: absolute;  
    top: 0px;  
    left: 500px;  
    width: 250px; }  
  
p {  
    width: 450px; }
```

# ABSOLUTE POSITIONING

#

**Etiam** ut enim augue. Etiam mi tortor, pulvinar at dictum faucibus, mollis eget nunc.

Morbi justo velit, rutrum vel placerat in, adipiscing vitae sapien. Vivamus sit amet lacus enim, vel scelerisque justo. Nunc dignissim vehicula urna ac porta. Suspendisse potenti.

Praesent nisi dolor, ornare quis sodales id, lacinia ut  
mauris.



# Positioning

```
h1 {  
    position: fixed;  
    top: 25%;  
    left: 0px;  
    padding: 10px;  
    margin: 0px;  
    width: 100%;  
    background-color: #efefef; }  
  
p.example {  
    margin-top: 100px; }
```

## FIXED POSITIONING

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam sodales pretium ipsum. Etiam ut enim augue. Etiam i **dictum faucibus, mollis eget n**  **Lorem ipsum**

Morbi justo velit, rutrum vel placerat in, adipiscing vitae sapien. Vivamus sit amet lacus enim, vel scelerisque justo. Nunc dignissim vehicula urna ac porta. Suspendisse potenti.

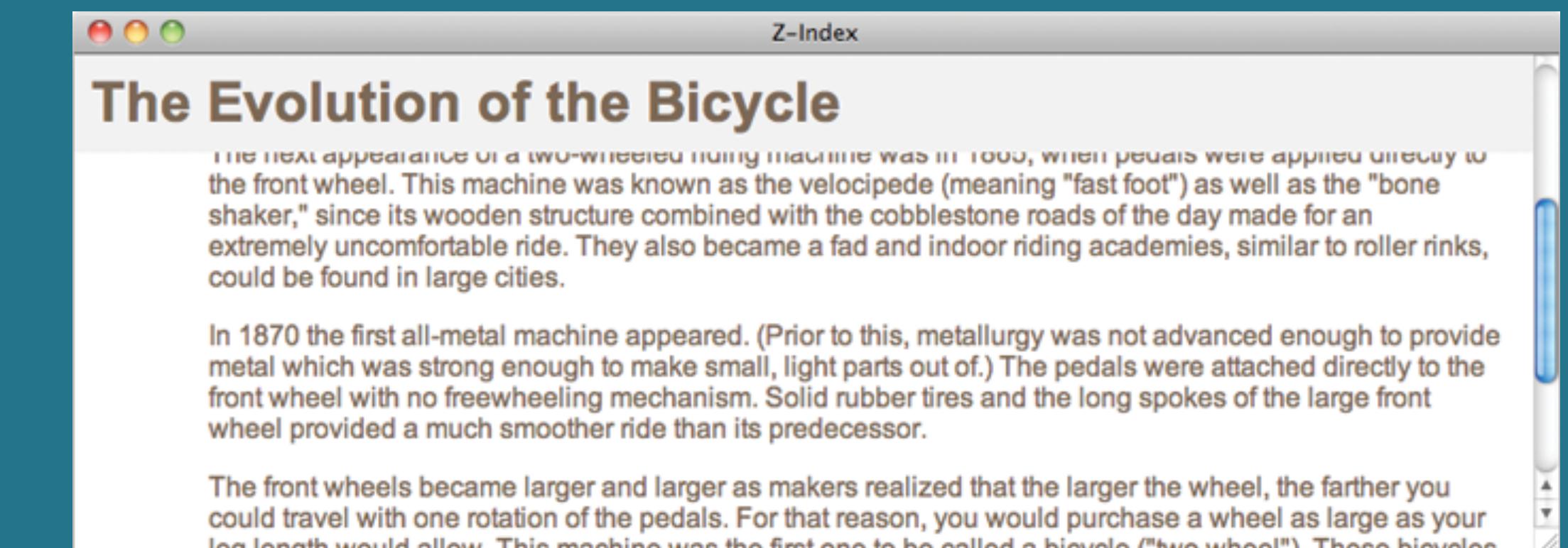
Praesent nisi dolor, ornare quis sodales id, lacinia ut mauris.



# Z-Index

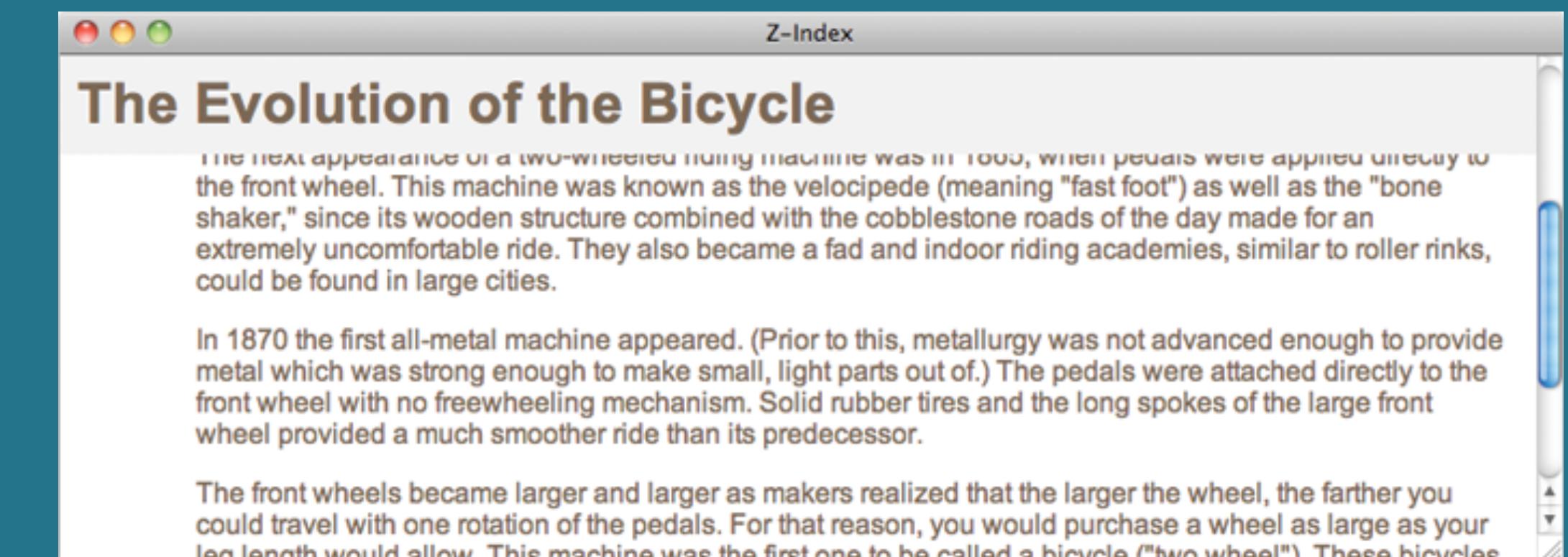
```
h1 {  
    position: fixed;  
    top: 0px; left: 0px;  
    margin: 0px; padding: 10px;  
    width: 100%;  
    background-color: #efefef;  
    z-index: 10;}
```

```
p {  
    position: relative; top: 70px;  
    left: 70px;}
```



# Z-Index

The greater the z-index, the closer to the front of the stack.



# Positioning Examples

<http://codepen.io/challahan/Professor/NNNbKd/>

<http://codepen.io/challahan/pen/QKkJXk>



# Floats

```
img {  
  float: left;  
  width: 50px;  
}
```

## FLOATING ELEMENTS

  Lorem  
  Ipsum

  Lorem ipsum dolor sit amet,  
  consectetur adipiscing elit. Nullam  
  sodales pretium ipsum. Etiam ut enim  
  augue. Etiam mi tortor, pulvinar at  
  dictum faucibus, mollis eget nunc.

  Morbi justo velit, rutrum vel placerat in, adipiscing  
  vitae sapien. Vivamus sit amet lacus enim, vel  
  scelerisque justo. Nunc dignissim vehicula urna ac  
  porta. Suspendisse potenti.

  Praesent nisi dolor, ornare quis sodales id, lacinia ut  
  mauris.



# Box-Sizing

Take padding and borders into account when calculating box size

box-sizing { border-box}



# Images are Boxes Too

```
img.large {  
    width: 500px;  
    height: 500px;}
```

```
img.medium {  
    width: 250px;  
    height: 250px;}
```

```
img.small {  
    width: 100px;  
    height: 100px;}
```



# Important Image CSS

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

I recommend adding this to every stylesheet.



# Background Images

```
p {  
background-image: url("images/  
pattern.gif");}
```



## Planting Guide

### Magnolia

*Magnolia grandiflora*, commonly known as the **Southern magnolia** or **bull bay**, is a tree of the family Magnoliaceae native to the southeastern United States, from coastal Virginia south to central Florida, and west to eastern Texas and Oklahoma. Reaching 27.5 m (90 ft) in height, it is a large, striking evergreen tree with large, dark green leaves and large white fragrant flowers. Widely cultivated around the world, over a hundred cultivars have been bred and marketed commercially. The timber is hard and heavy, and has been used commercially to make furniture, pallets, and veneer.

### Ranunculus

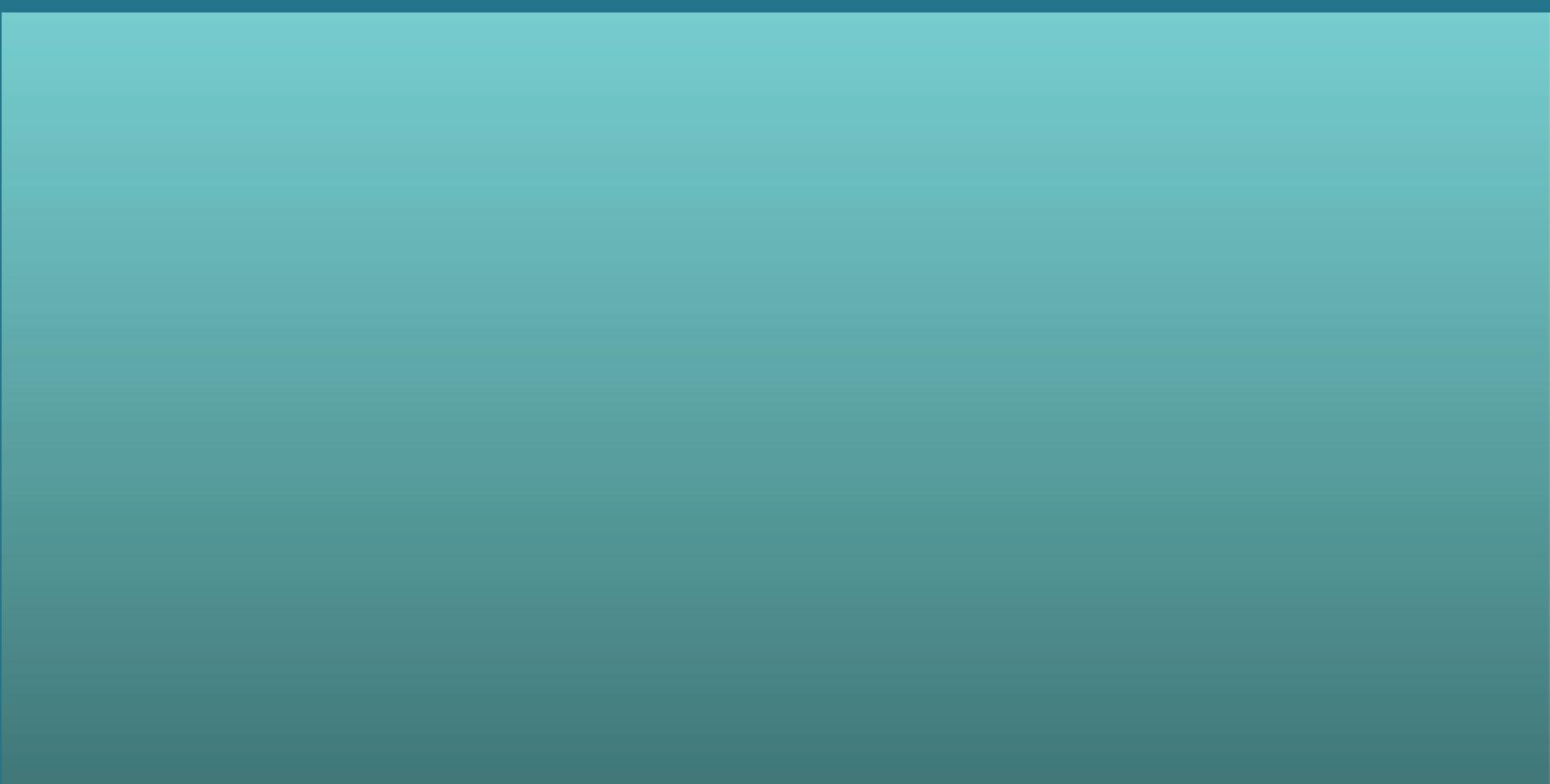
*Ranunculus asiaticus* (**Persian Buttercup**) is a species of buttercup (Ranunculus) native to the eastern Mediterranean region in southwestern Asia, southeastern Europe (Crete, Karpathos and Rhodes), and northeastern Africa. It is a herbaceous perennial plant growing to 45 cm tall, with simple or branched stems. The basal leaves are three-lobed, with leaves higher on the stems more deeply divided; like the stems, they are downy or hairy. The flowers are 3–5 cm diameter, variably red, to pink, yellow, or white, with one to several flowers on each stem.

### Tulip

*Tulipa gesneriana* L. or "**Dutch's tulip**" is a plant belonging to the family of Liliaceae. This species has uncertain origins, possibly from Asia, and has become naturalised in south-west Europe. Most of the cultivated species, subspecies and cultivars of tulip are derived from *Tulipa gesneriana*. The flower and bulb can cause dermatitis through the allergen, tuliposide A, even though the bulbs may be consumed with little ill-effect. The sweet-scented biennial flowers appear during April and May. Bulbs are extremely resistant to frost, and can tolerate temperatures well below freezing. A period of low temperature is necessary to induce proper growth and flowering, triggered by an increase in sensitivity to the phytohormone auxin. The bulbs may be dried and pulverised and added to cereals or flour.

# Background Gradients

```
background-image:  
linear-gradient(#336666,#66cccc);
```



# CodePen CSS 2 Challenge



# For Next Class

READ: Responsive Web Design Book (Important!)

DUE: CSS Basics 2

