



RWD

Class 5

Overview

Current Events (5 min)

CSS Assignment Quick Review (10 min)

Web Typography (10 min)

Box Model Video (20 min)

Break

Interactive Boxes/Layout/Images
Overview (45 min)

CodePen Challenge: CSS 2 (30 min)



Current Events



CSS 1 Assignment

Quick Review

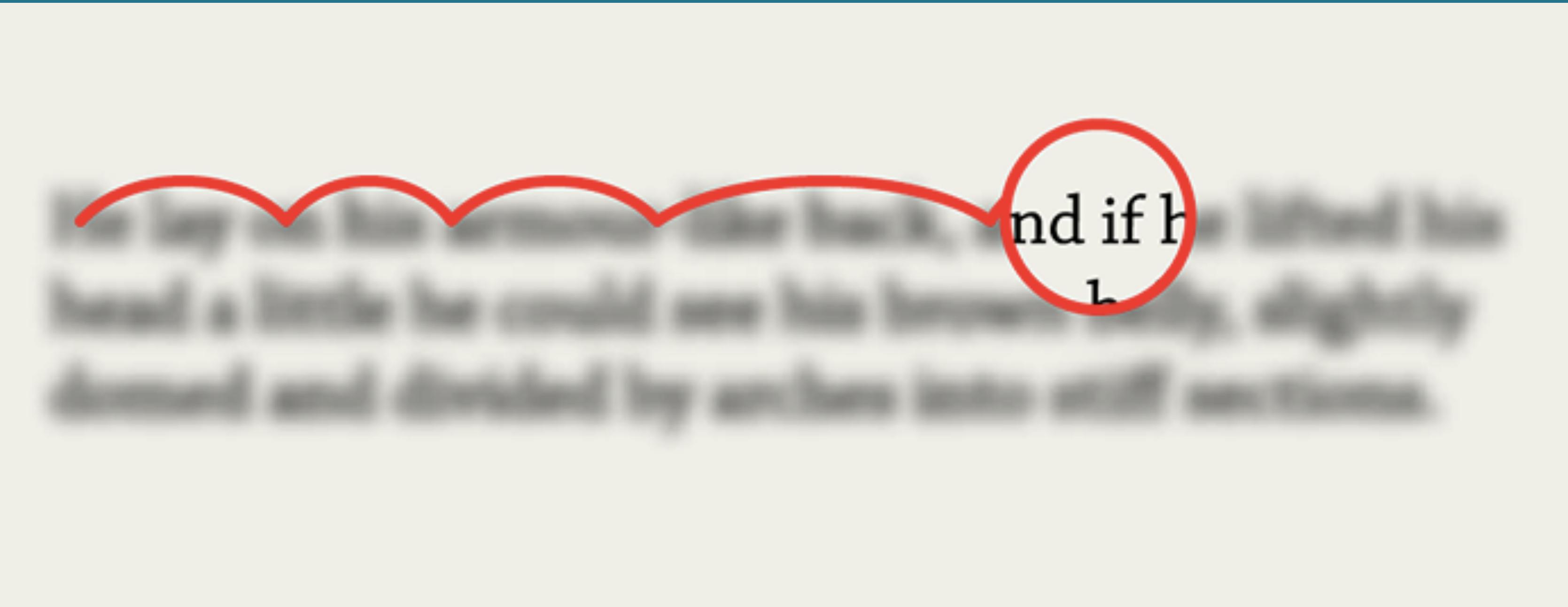


Web Typography



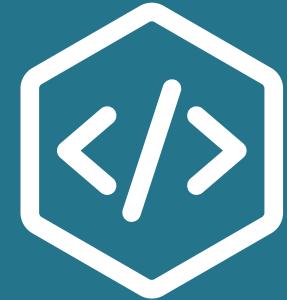
He lay on his armour-like back, and if he lifted his head a little he could see his brown belly, slightly domed and divided by arches into stiff sections.



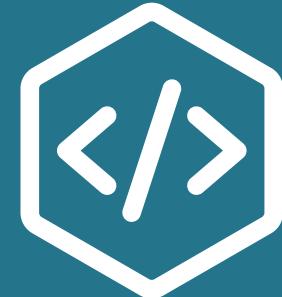


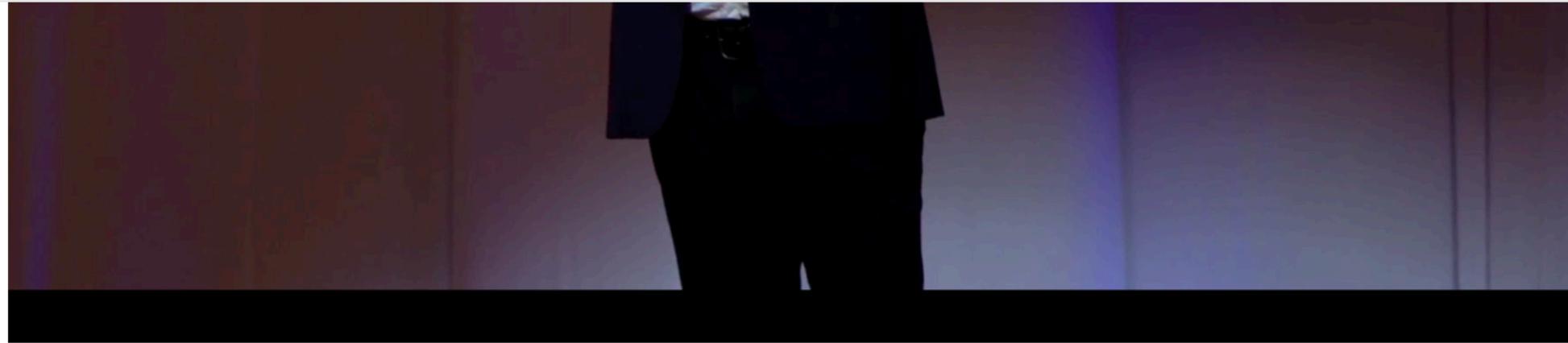
ANTHOLOGIES

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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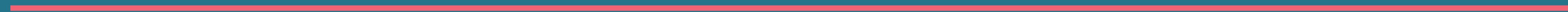


CSS Box Model Video

<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.

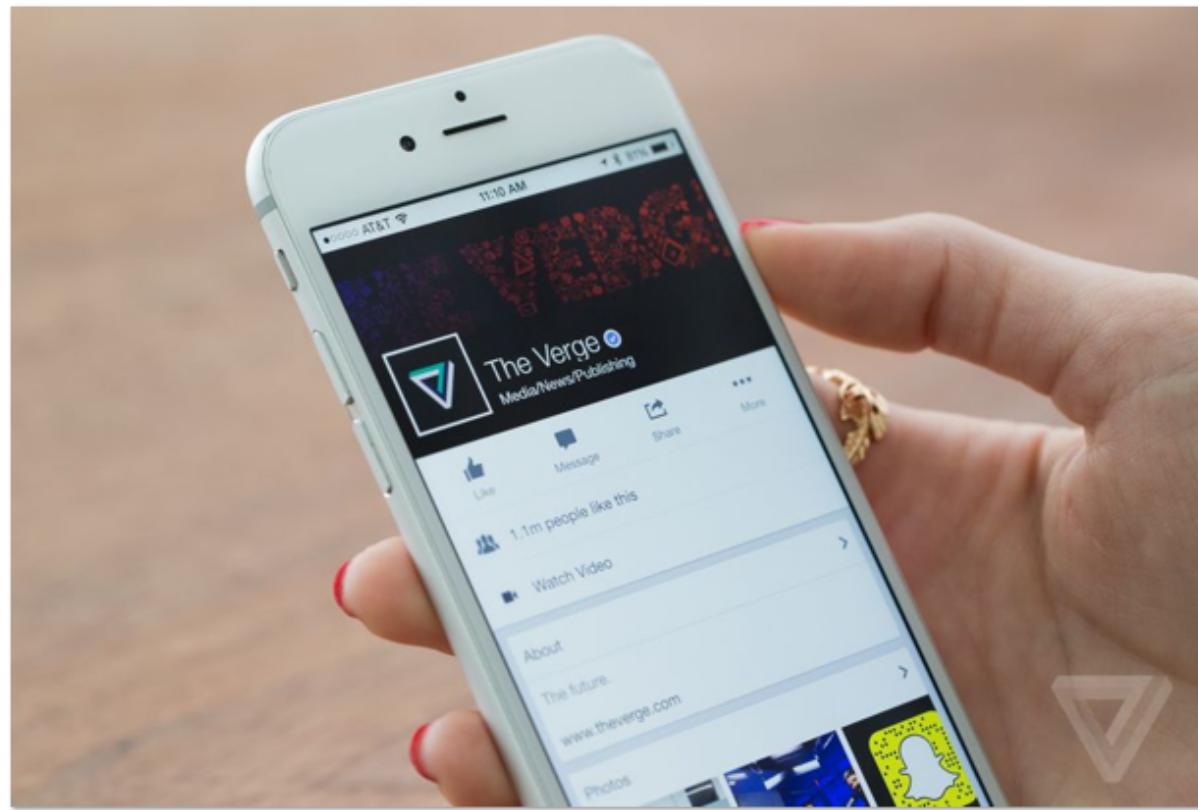


Hands-On: Boxes & Classes in CodePen (While Reviewing)

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



Facebook videos will now automatically play sound by default.



Facebook announced a [suite of new changes to its video platform today](#), including a new setting that will autoplay videos with the sound turned on by default. This change means that, if your phone is not set to silent and you haven't disabled the feature in Facebook's mobile settings panel, every video in the News Feed will have audio fading in as you scroll past it. The switch from muting videos by default follows a multi-month testing period that first surfaced last August.

Facebook clarified to *The Verge* that sound from its videos will not interrupt music from Apple Music, Spotify, or any other mobile audio source. Dan Rose, Facebook's vice president of partnerships, also stressed that the company is trying not to be user-hostile with the change. "We're going to honor the sound settings on your phone," he said today at Recode's Code Media conference. "If sound is on your phone, we'll default to sound on rather than off."

The change raises all sorts of questions, like whether unsuspecting Facebook users will be caught scrolling through the News Feed at a meeting or in class. "Well a few years ago when we started autoplay it was very new to people," Rose said in response to potential pitfalls. "Now they're pretty conscious" of how it works, he added. (In other words, make sure you set your phone to vibrate if you're trying to sneak a peek at your feed in a sensitive situation.) Facebook says the feature can be turned off by toggling the "Videos in News Feed Start With Sound" option in the settings panel.

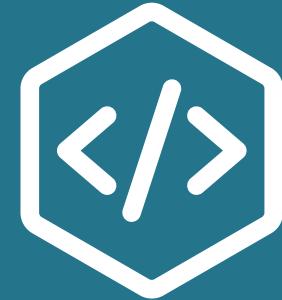
YOU CAN TURN OFF THE AUTOPLAY SOUND FEATURE IN SETTINGS

More from the Verge

- [The Hawaiian volcano that created a spectacular firehose of lava just collapsed](#)
- [Apple, Facebook, Google, and 94 others file opposition to Trump's immigration ban](#)
- [Google's Super Bowl ad accidentally set off a lot of Google Homes](#)
- [Lady Gaga opened her Super Bowl performance with a protest anthem](#)
- [Trump is turning Elon Musk into a crony capitalist](#)
- [Why the sounds of eating make some people so angry](#)



Everything On Page Is a Box



Block vs. Inline Elements



Inline Elements

Flow Within the Text

*, , , <i>, *



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">
      <nav>id="nav">

    <div id="content">
      <article>ss="article">
      <article>ss="article">

    <aside>id="sidebar">

    <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.

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



Margin

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

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

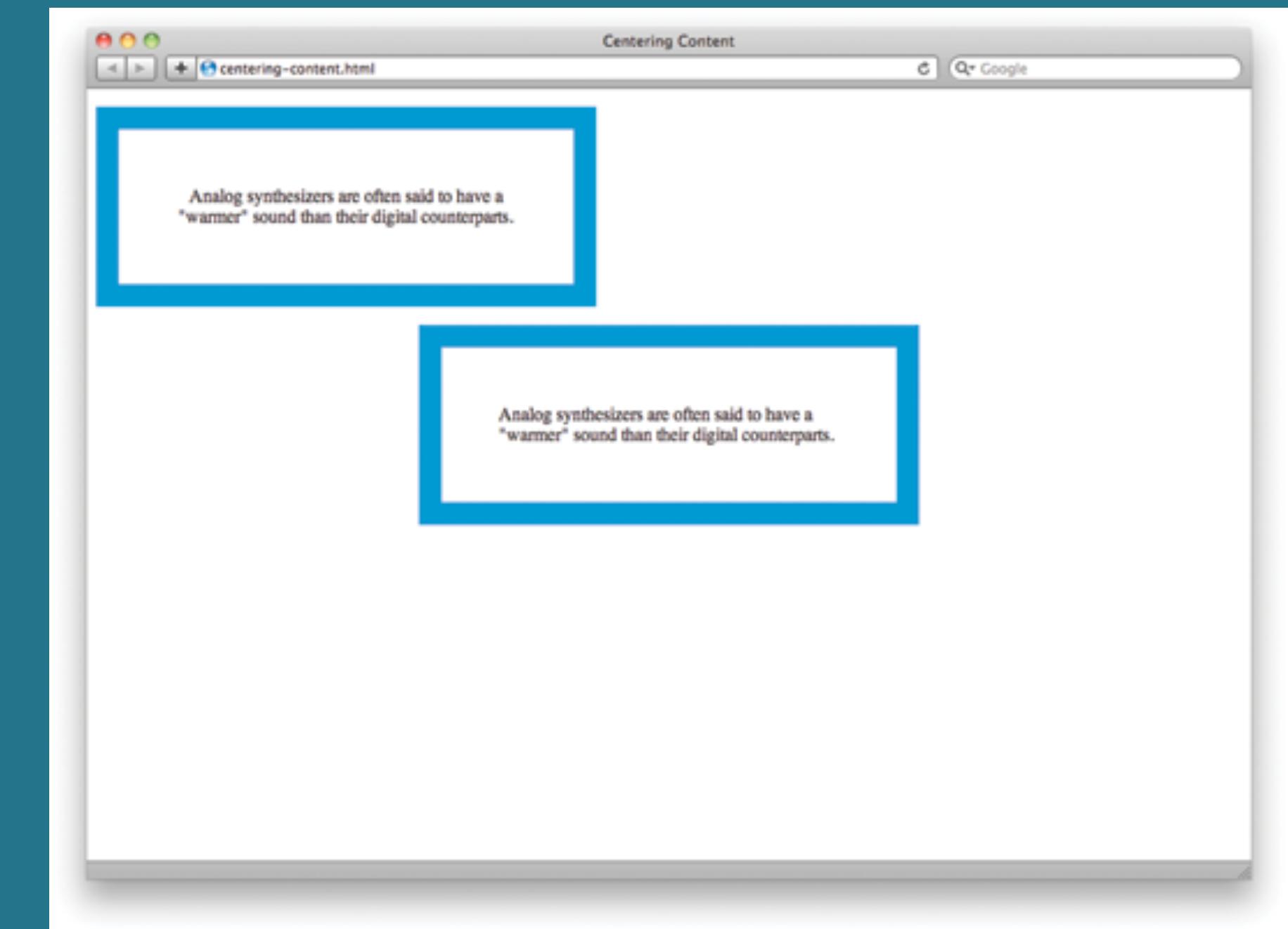
Analog synthesizers are often said to have a "warmer" sound than their digital counterparts.

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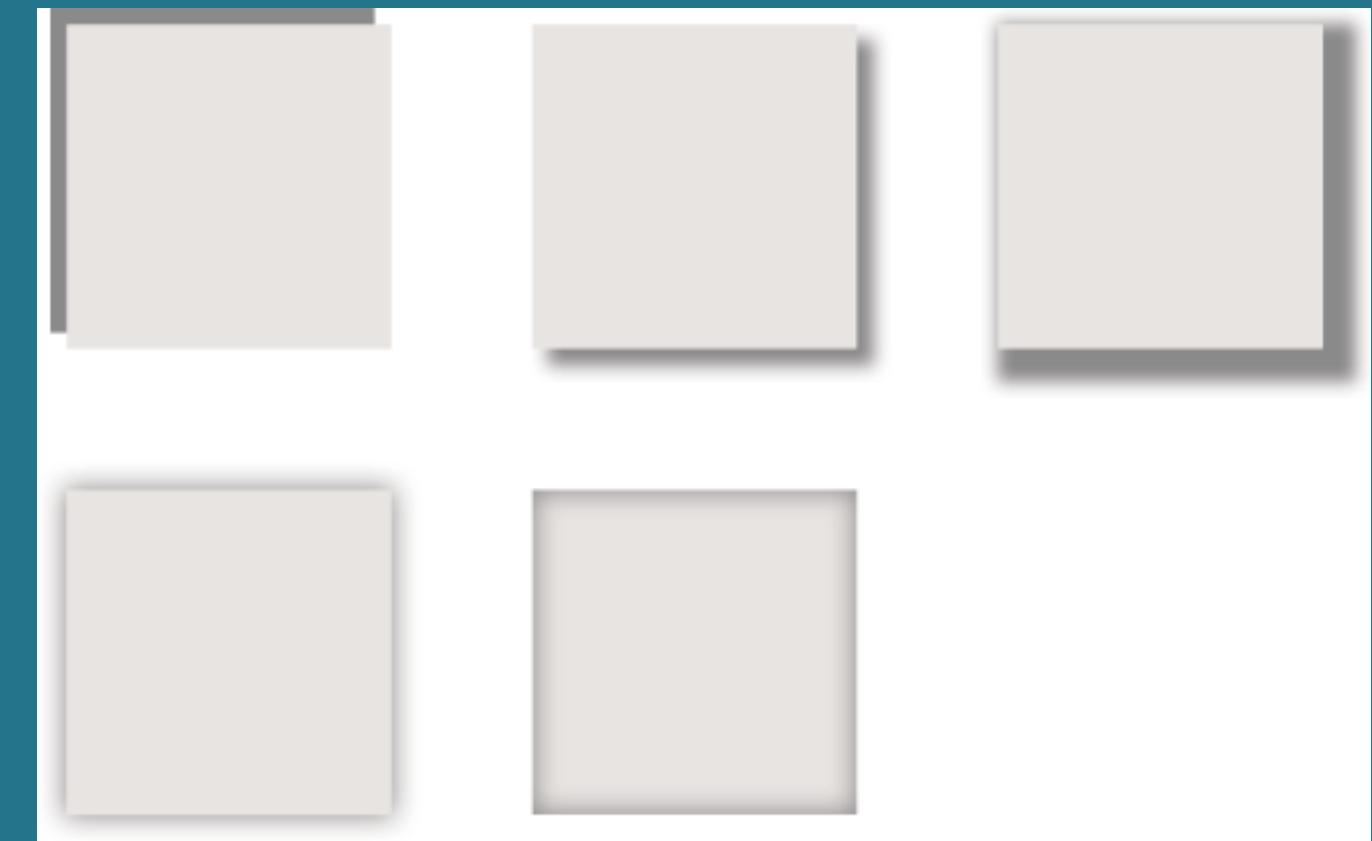
Centering Boxes

```
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

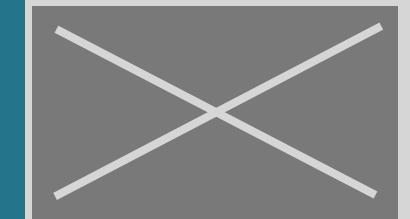
Lorem Ipsum

 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

Placeholder

Placeholder text for the relative positioned element.

Placeholder text for the relative positioned element.

Placeholder text for the relative positioned element.



Positioning

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

ABSOLUTE POSITIONING

#

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.

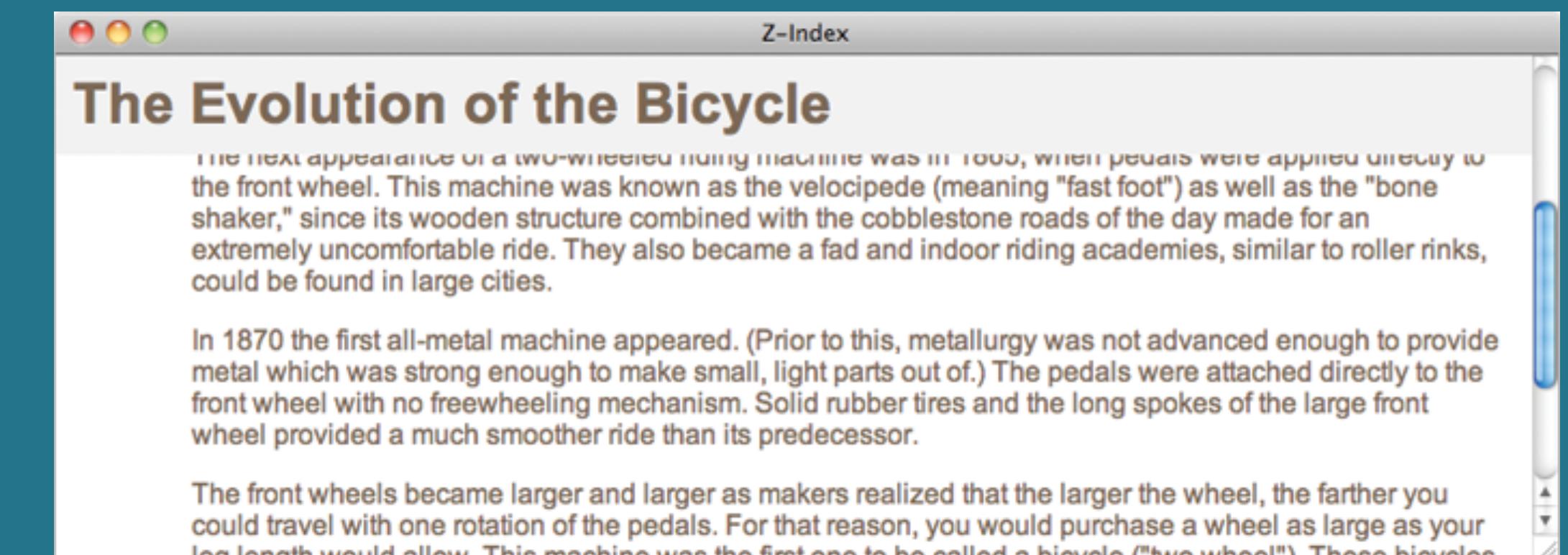
Praesent nisi dolor, ornare quis sodales id, lacinia ut mauris.



Z-Index

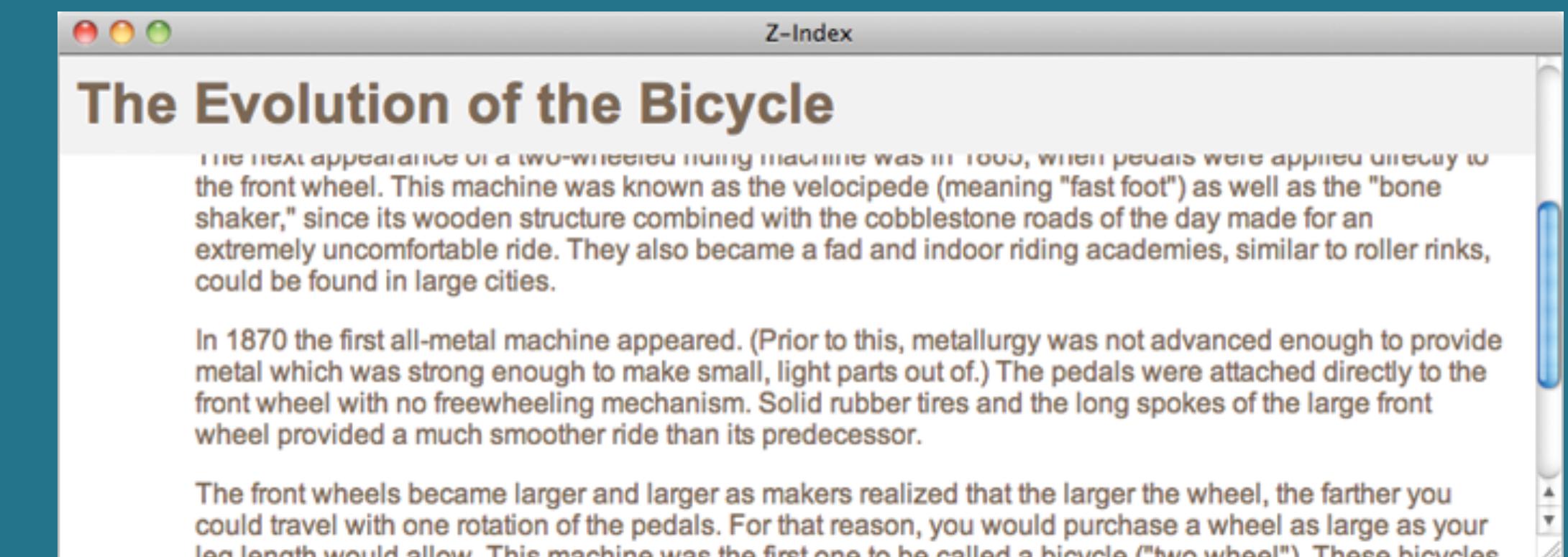
```
h1 {  
    position: fixed;  
    top: 0px; left: 0px;  
    margin: 0px; padding: 10px;  
    width: 100%;  
    background-color: #efefef;  
    z-index: 10;}
```

```
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.



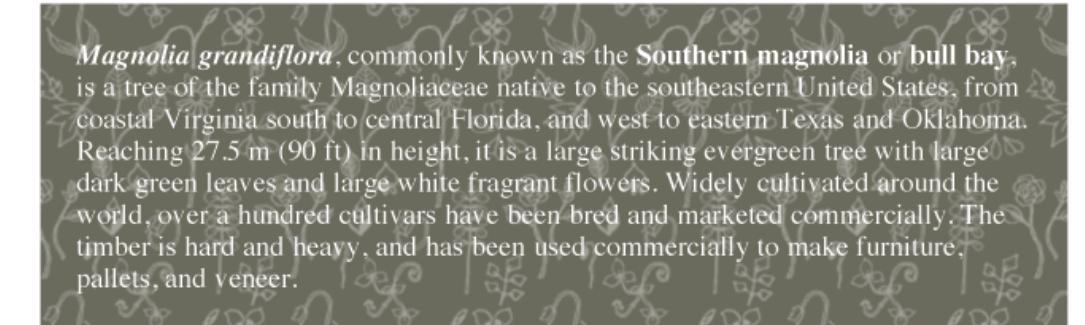
Background Images

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

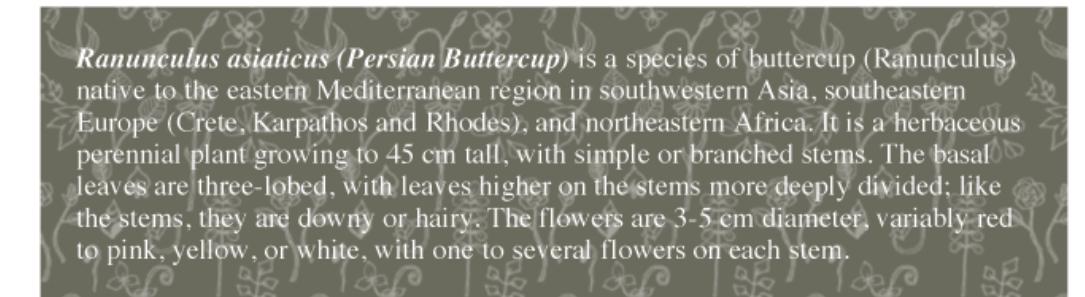


Planting Guide

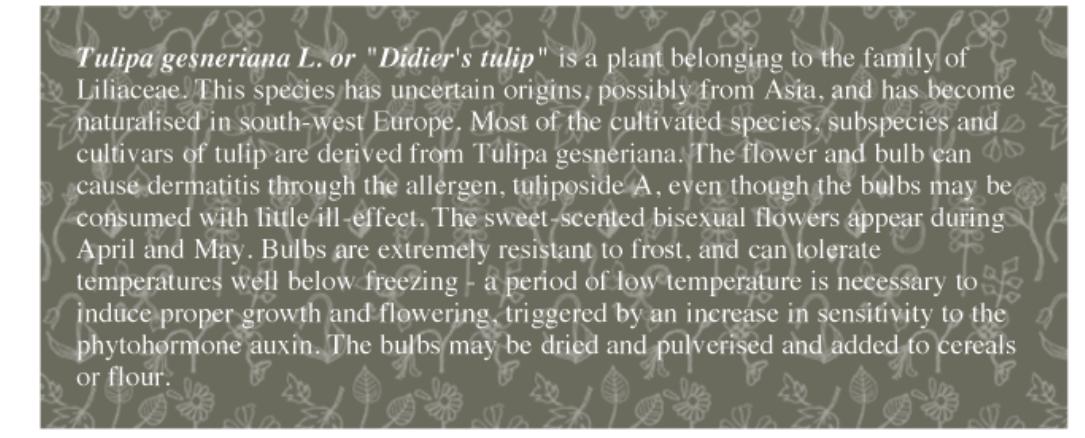
Magnolia



Ranunculus



Tulip



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

