



CORSO DI LAUREA IN INFORMATICA

# Tecnologie Software per il Web

HTML & CSS (Advanced)

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# Horizontal rule

- Il tag `<hr>` serve ad inserire una riga di separazione orizzontale

```
<html>
<head>
  <style>
    /* Dashed red border */
    hr.new1 {
      border-top: 1px dashed red;
    }

    /* Dotted red border */
    hr.new2 {
      border-top: 1px dotted red;
    }

    /* Large rounded green border */
    hr.new3 {
      border: 10px solid green;
      border-radius: 5px;
    }
  </style>
</head>
<body>
  <hr>
  <hr class="new1">
  <hr class="new2">
  <hr class="new3">
</body>
</html>
```



# div

- Il tag **<div>** è un contenitore generico per altri elementi html e testo

- Attributi: **align, style, class, id**
- È l'elemento di tipo **block** per eccellenza
- Esempio (due <div>):

```
<div>Blocco di testo 1</div> <div>Blocco di testo 2</div>
```

- Vengono visualizzati così:

**Blocco di testo 1**

**Blocco di testo 2**

# span

- Lo **<span>** è un contenitore generico (per altri elementi html **inline** e testo) che può essere annidato, ad esempio, all'interno di un **<div>**
- È un elemento **inline**, e quindi non va a capo ma continua sulla stessa linea del tag che lo include
- Esempio (due **<span>**):

**<span>Contenitore 1</span> <span>Contenitore 2</span>**

- Visualizzazione: **Contenitore 1Contenitore 2**
- È un elemento molto utilizzato soprattutto insieme ai fogli di stile per dare un aspetto particolare ad un pezzo di testo in un blocco (per esempio, per evidenziare)

# div and center

```
<div align="center">...</div>
```

- Is equivalent to

```
<center>...</center>
```

- *DIV is preferred in modern apps!*

<div>

# Example: div & span

```
...
<body>
<p>Some text before the div</p>
<div style="border-style: inset; background-color: #cccccc; text-align:center">
    <h2>Using div and span</h2>
    <p>A list inside the div:</p>
    <ol>
        <li>List Item One</li>
        <li><span style="background-color: yellow;">
            List Item Two (inside span)
            </span>
        </li>
        <li>List Item Three</li>
    </ol>
</div>
<p>Some text after the div</p>
</body>
...
```

## Example: div & span (2)

The screenshot shows a Mozilla Firefox window with the title "div and span - Mozilla Firefox". The address bar displays "ew/WebContent/div.html". The main content area contains the following text:

Some text before the div

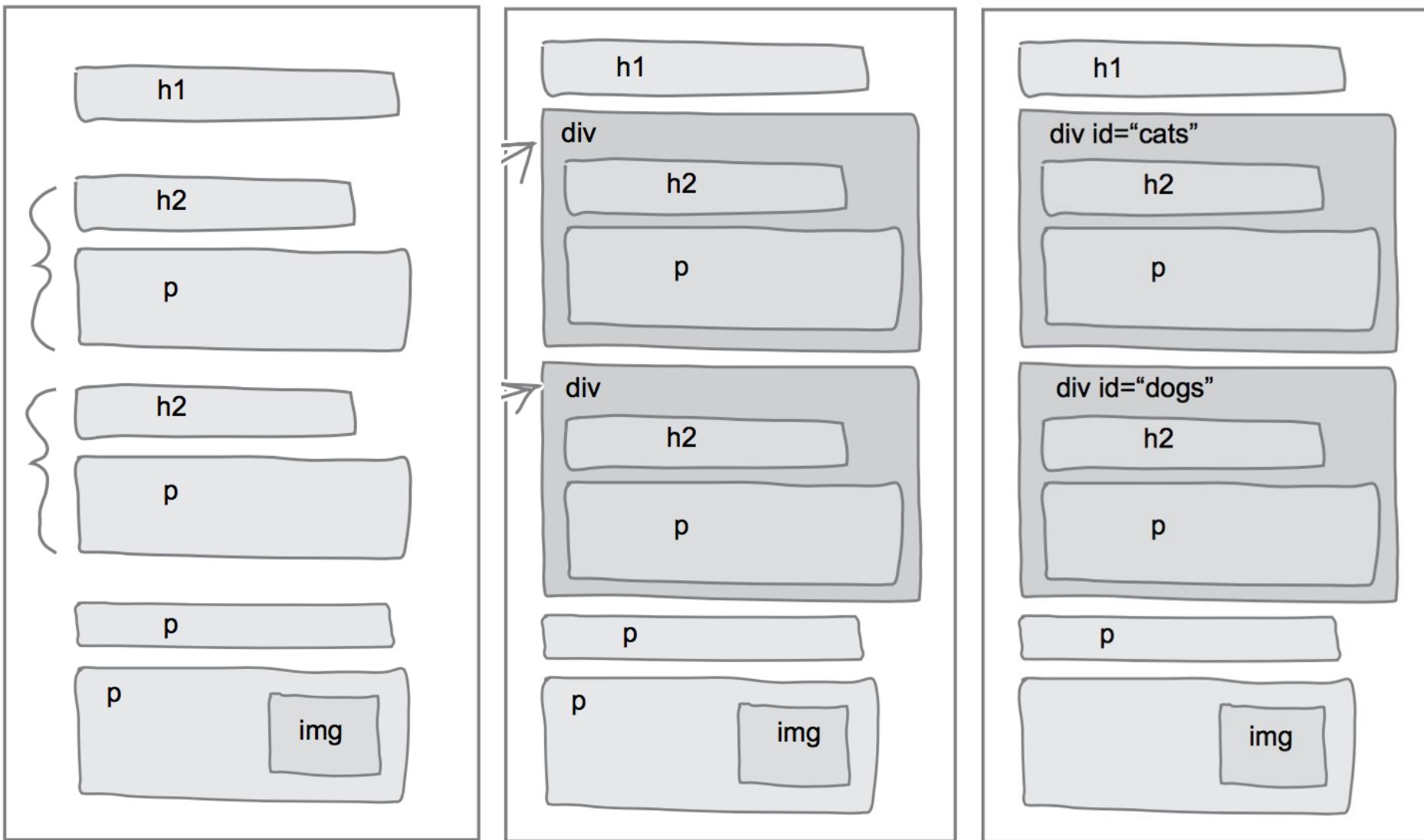
## Using div and span

A list inside the div:

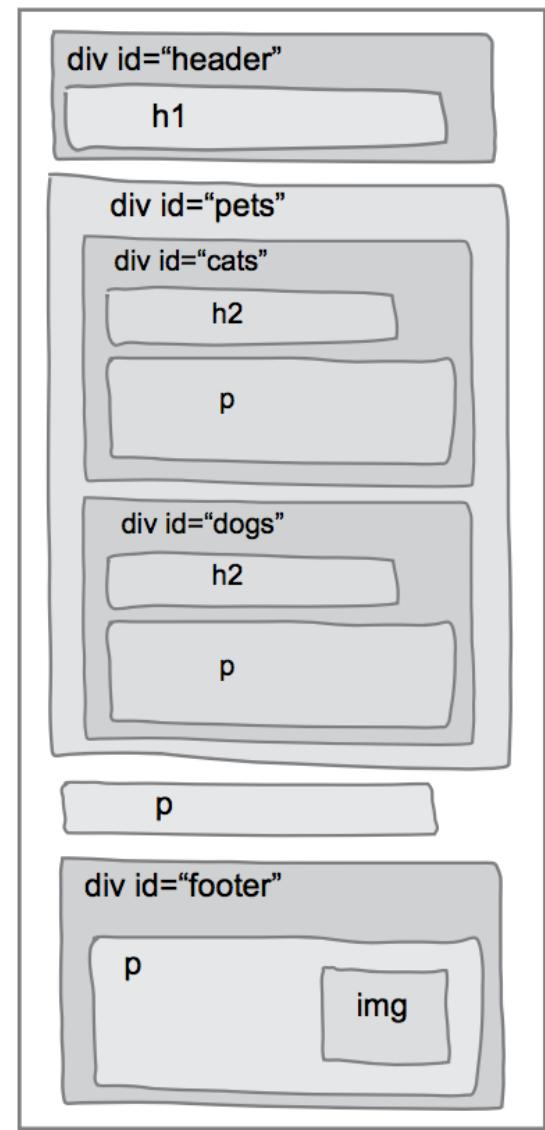
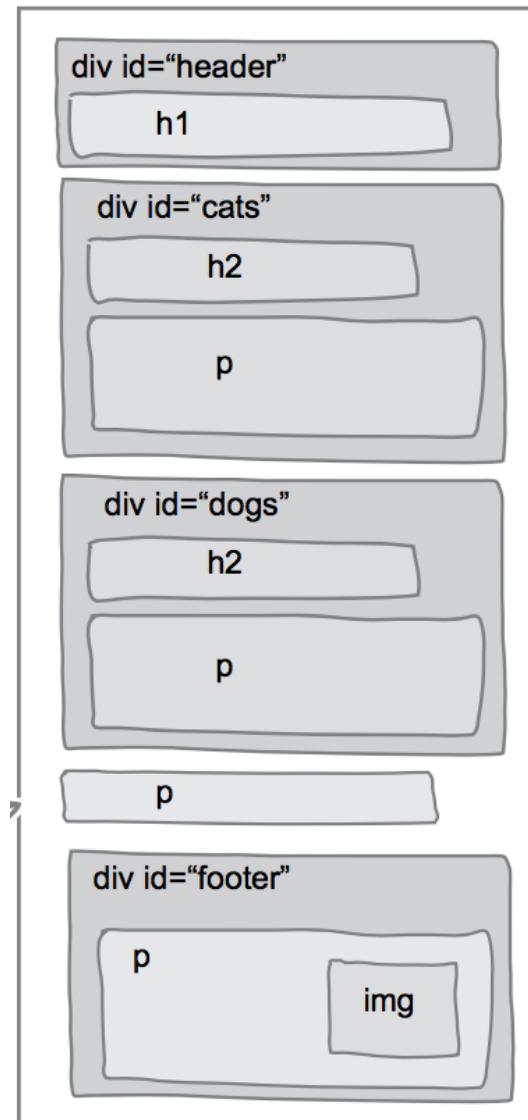
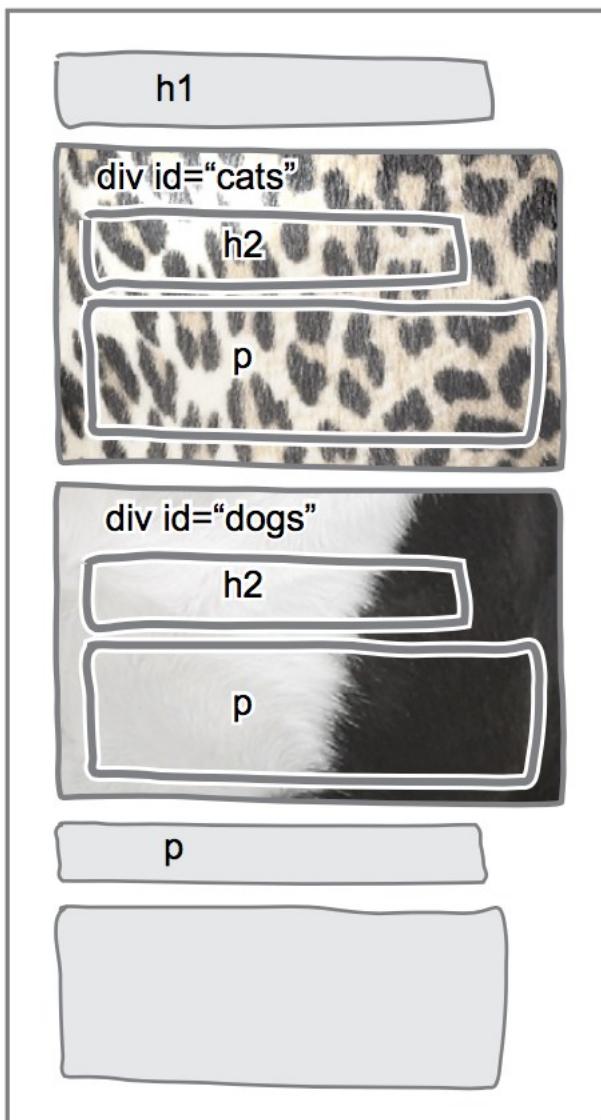
- 1. List Item One
- 2. List Item Two (inside span)
- 3. List Item Three

Some text after the div

# Advanced Web Construction



# Advanced Web Construction





# Head First Lounge

## Welcome to the Head First Lounge

The Head First Lounge is, no doubt, the biggest trendsetter in Webville. Stop in to sample the eclectic offering of elixirs, teas, and coffees, or stay a bit longer and enjoy the multicultural culinary menu that combines a harmony of taste, texture, and color with the best in fresh and healthy ingredients.

During your stay at the lounge, you'll enjoy a smooth mixture of ambient and mystic sounds, filling the lounge and adding an extra dimension to your dining experience. The decor surrounds you with the relaxing sentiments of sights from eras past. And, don't forget, the lounge offers free wireless access to the Internet, so bring your laptop.



*Our guarantee: at the lounge, we're committed to providing you, our guest, with an exceptional experience every time you visit. Whether you're just stopping by to check in on email over an elixir, or are here for an out-of-the-ordinary dinner, you'll find our knowledgeable service staff pay attention to every detail. If you're not fully satisfied, have a Blueberry Bliss Elixir on us.*

But that's not all; at night, join us in the backroom as our resident DJ spins a choice selection of trance and drum&bass beats across our spacious tiki-themed dance floor. Or just hang out in one of our comfy white vinyl booths at the dance bar. You can have your elixirs delivered from the main lounge right to the dance floor. If you've had enough of the beat, just head back to the lounge area to relax. And, no matter where you find yourself in the lounge, you'll always be connected with our wireless Internet access.

Now that you've experienced the lounge *virtually*, isn't it time to check us out *for real*? We're located right in the heart of Webville, and we've created some [detailed directions](#) to get you here in record time. No reservations necessary; come and join us anytime.

## What's playing at the Lounge

We're frequently asked about the music we play at the lounge, and no wonder, it's great stuff. Just for you, we keep a list here on the site, updated weekly. Enjoy.

- **Buddha Bar, Claude Challe**
- **When It Falls, Zero 7**
- **Earth 7, L.T.J. Bukem**
- **Le Roi Est Mort, Vive Le Roi!, Enigma**
- **Music for Airports, Brian Eno**

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## Improvements...

### Weekly Elixir Specials



#### Lemon Breeze

The ultimate healthy drink, this elixir combines herbal botanicals, minerals, and vitamins with a twist of lemon into a smooth citrus wonder that will keep your immune system going all day and all night.



#### Chai Chiller

Not your traditional chai, this elixir mixes maté with chai spices and adds an extra chocolate kick for a caffeinated taste sensation on ice.



#### Black Brain Brew

Want to boost your memory? Try our Black Brain Brew elixir, made with black oolong tea and just a touch of espresso. Your brain will thank you for the boost.

Join us any evening for these and all our other wonderful [elixirs](#).

# Exercise (lounge2.zip)

- Open up your “lounge.html” file in the HTML CSS code
- Locate the elixir elements, and then insert opening and closing `<div>` tags around them.

```
<div id="elixirs">
```

```
    <h2>Weekly Elixir Specials</h2>
```

```
    ...
```

```
    <p>
```

```
        Join us any evening for these and all our other wonderful
```

```
        <a href="beverages/elixir.html"
```

```
            title="Head First Lounge Elixirs">elixirs</a>.
```

```
    </p>
```

```
</div>
```

# Adding a border

```
#elixirs {  
  border-width: thin;  
  border-style: solid;  
  border-color: #007e7e;  
}
```



Add this at the end of your CSS file. It selects the elixirs <div> element using its id, and adds a thin, solid border in our favorite aquamarine color.

# Elixirs width

```
#elixirs {  
    border-width: thin;  
    border-style: solid;  
    border-color: #007e7e;  
    width: 200px;  
}
```



The width property lets you specify the width of the element's content area. Here, we're specifying that the content width be 200 pixels.

We're setting this on the elixirs <div>. So the content in the elixirs <div> will be 200 pixels wide, and the browser's layout rules will work to fit all the elements nested in the <div> within that width.

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The ultimate healthy drink, this elixir combines herbal botanicals, minerals, and vitamins with a twist of lemon into a smooth citrus wonder that will keep your immune system going all day and all night.

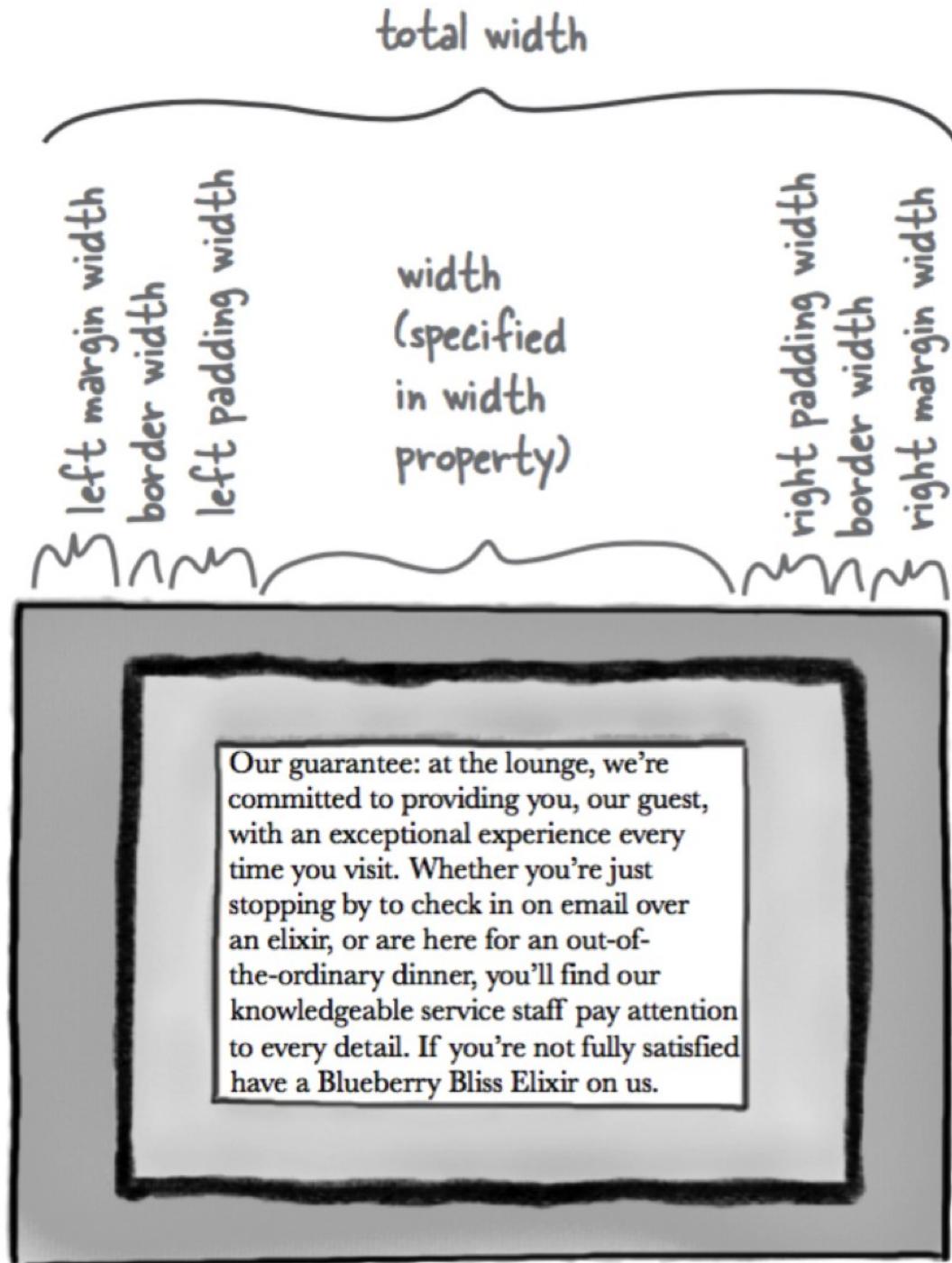
**Chai Chiller**  
Not your traditional chai, this elixir mixes maté with chai spices and adds a chocolate kick for a caffeinated taste sensation on ice.

**Black Brain Brew**  
Want to boost your memory? Try our Black Brain Brew elixir, made with black oolong tea and just a touch of espresso. Your brain will thank you for the boost.

Join us any evening for these and all our other wonderful

Notice that the height of the elixirs section got a lot taller. That's because we made it narrower, so the content takes up more room vertically instead.

- The width property specifies the width for the content area only
- You specify the width of the content area, the padding, the border, and the margin
  - All of that added together is the width of the entire element



Remember, we're going to apply all this style to the elixirs <div> so that it only affects the <div> and the elements it contains, not the entire page.

```
#elixirs {  
    border-width:     thin;  
    border-style:    solid;  
    border-color:   #007e7e;  
    width:           200px;
```

The default padding on a <div> is 0 pixels, so we're going to add some padding to provide a bit of space for the content. Notice that we're not adding any padding at the top because there's already plenty of room there, thanks to the default margin on the <h2> heading (look back at the last test drive and you'll see there's plenty of room above the <h2>). But we do need it on the right, bottom, and left.

```
padding-right: 20px;  
padding-bottom: 20px;  
padding-left: 20px;
```

```
margin-left: 20px;
```

We're adding some margin on the left to indent the elixirs from the rest of the page a bit. This is going to come in handy later...

```
text-align: center;
```

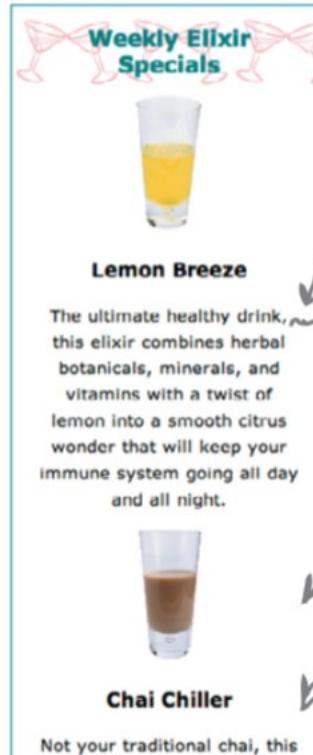
Use text-align on block elements to align the text they contain. Here, we're going to center-align the text.

```
background-image: url(images/cocktail.gif);  
background-repeat: repeat-x;
```

And finally we're specifying an image to use in the background, in this case the cocktail image. We're setting the background-repeat property to repeat-x, which will tile the image only in the horizontal direction.

- All the text inside the `<div>` element is in nested block elements, but it is all aligned now
  - That's because these block elements *inherit* the **text-align** property from the `<div>`

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The tiled image looks nice, and it only tiles horizontally.

We've got some padding here, and at the bottom and left...

...and everything's centered nicely.

# Float

- Move the div elixir element under the logo of lounge.html
- Add to elixirs in the css file  
**float: right;**



The screenshot shows the Head First Lounge website. At the top is a logo featuring a blue martini glass filled with green liquid and garnished with a red cherry. To the right of the logo, the word "Head First" is in a small, black, sans-serif font, and "Lounge" is in a large, bold, red, sans-serif font.

## Welcome to the Head First Lounge

The Head First Lounge is, no doubt, the biggest trendsetter in Webville. Stop in to sample the eclectic offering of elixirs, teas, and coffees, or, stay a bit longer and enjoy the multicultural culinary menu that combines a harmony of taste, texture, and color with the best in fresh and healthy ingredients.

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### What's playing at the Lounge

We're frequently asked about the music we play at the lounge, and no wonder, it's great stuff. Just for you, we keep a list here on the site, updated weekly. Enjoy.

- *Buddha Bar, Claude Challe*
- *When It Falls, Zero 7*

**Weekly Elixir Specials**



 **Lemon Breeze**  
The ultimate healthy drink, this elixir combines herbal botanicals, minerals, and vitamins with a twist of lemon into a smooth citrus wonder that will keep your immune system going all day and all night.

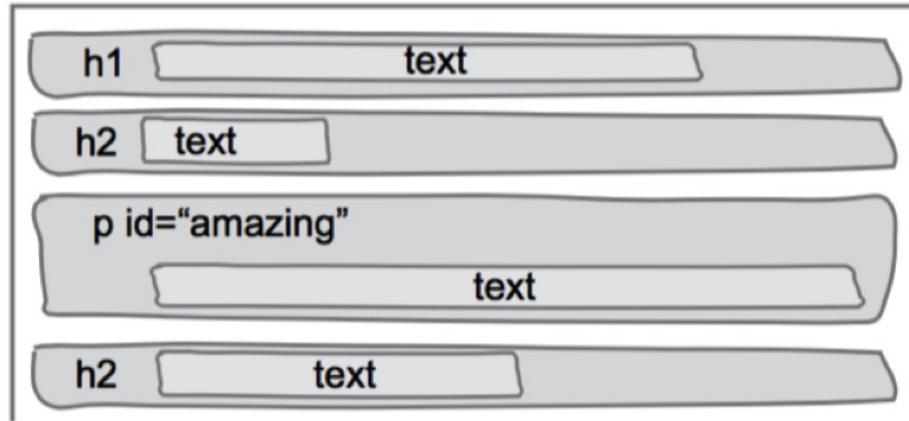
 **Chai Chiller**  
Not your traditional chai, this elixir mixes mate with chai spices and adds an extra chocolate kick for a caffeinated taste sensation on ice.

 **Black Brain Brew**  
Want to boost your memory? Try our Black Brain Brew elixir, made with black oolong tea and just a touch of espresso. Your brain will thank you for the boost.

Join us any evening for these and all our other wonderful [elixirs](#).

# Remind: How to float an element

- give it an identity



- give it a width

```
#amazing {  
    width: 200px;  
}
```

- float it

```
#amazing {  
    width: 200px;  
    float: right;  
}
```

# Select descendants

Leave a space between  
the parent name and  
the descendant name.

Here's the  
parent element.

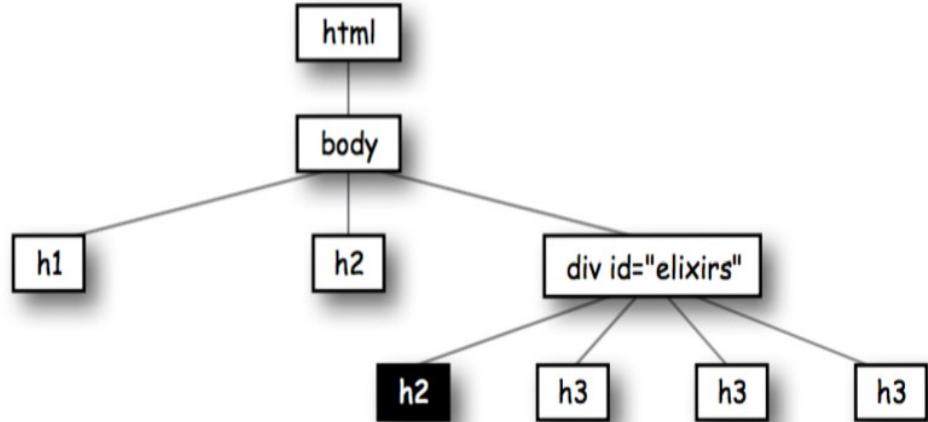
And here's its  
descendant.

```
div h2 {  
    color: black;  
}
```

This rule says to select  
any `<h2>` that is a  
descendant of a `<div>`.

Write the rest of  
your rule just like  
you always do.

Here's what this rule  
selects in the lounge.



**Problem: if someone created another `<div>` in  
the “lounge.html” file, she’d get black `<h2>`  
text, even if she didn’t want it**

#

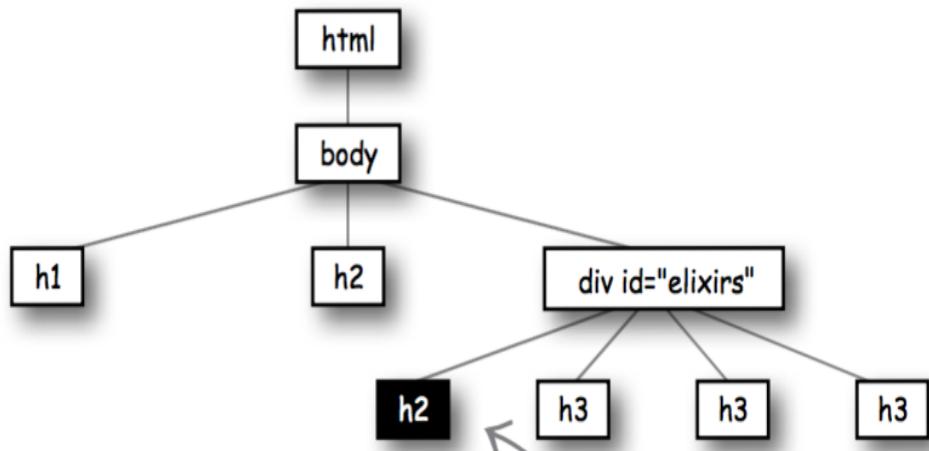
Now the parent element is the element with the id elixirs.

And here's its descendant.

```
#elixirs h2 {  
    color: black;  
}
```

This rule says to select any `<h2>` that is a descendant of an element with the id "elixirs".

```
#elixirs h3 {  
    color: #d12c47;  
}
```



This rule selects the same element. But it's more specific, so if we added another `<div>` with an `<h2>` to the page, that's okay because this rule selects only `<h2>`s in the elixirs `<div>`.

# Adding the span

- Locate the “Who’s playing at the Lounge” heading

Just add a `<span>` opening tag along with the class attribute and a value of “cd”.

Next, add a closing tag after the CD title.

Do the same for the artist. Nest it in a `<span>` element, only this time put the `<span>` in the “artist” class.

```
<ul>
<li><span class="cd">Buddha Bar</span>, <span class="artist">Claude Challe</span></li>
<li>When It Falls, Zero 7</li>
<li>Earth 7, L.T.J. Bukem</li>
<li>Le Roi Est Mort, Vive Le Roi!, Enigma</li>
<li>Music for Airports, Brian Eno</li>
</ul>
```

# Styling the span

We're going to add a rule for each of the new classes, cd and artist.

```
.cd {  
    font-style: italic;  
}
```

For CDs, we'll make the font style italic.

```
.artist {  
    font-weight: bold;  
}
```

And for artists we'll set the font-weight to bold.

## What's playing at the Lounge

We're frequently asked about the music we play at the lounge, and no wonder,

- *Buddha Bar, Claude Challe*
- When It Falls, Zero 7
- Earth 7, L.T.J. Bukem
- Le Roi Est Mort, Vive Le Roi!, Enigma

# The <a> element

Here's a link you've never clicked on before. This is called an "unvisited link," or just "link," and it's blue by default.



Join us any evening for these and all our other wonderful [elixirs](#).



Join us any evening for these and all our other wonderful [elixirs](#).

And here's a link you have clicked on before. We call these "visited links." Usually, visited links are displayed in a different color than unvisited links so that you can tell the difference. In most browsers, visited links are purple by default.

Join us any evening for these and all our other wonderful [elixirs](#).



Head First Lounge Elixirs



And if you hold your mouse over a link without clicking, this is called "hovering." On some browsers you'll see a tool tip that displays the text of the "title" attribute. And if you pay close attention, on some web pages, you'll see a different style as you hover.

Not your trad  
elixir mixes  
spices and  
chocolat  
caffinated o

Chai

Black B

Want to boos  
Try our Bla  
elixir, ma  
oolong tea an  
espresso.  
thank you

Join us any e  
and all our  
e

What's playin

We're frequently as  
wonder, it's great s  
updated weekly. Er

# Pseudo-classes

Okay, big change here. We're using a descendant selector combined with a pseudo-class. The first selector says to select any unvisited `<a>` element that is nested in an element with the id "elixirs". So we're styling JUST the links inside elixirs.



```
#elixirs a:link {  
    color: #007e7e;  
}
```

On these two, we're setting the color. For unvisited links, a nice aquamarine...

```
#elixirs a:visited {  
    color: #333333;  
}
```

...and for visited links we're using a dark gray.

The `:visited` pseudoclass has been restricted in many modern browsers (e.g., Chrome) to prevent CSS exploit

```
#elixirs a:hover {  
    background: #f88396;  
    color: #0d5353;  
}
```

Now for the really interesting rule. When the user is hovering over the link, we're changing the background to red. This makes the link look highlighted when you pass the mouse over it. Give it a try!

# The footer

```
<p id="footer">  
  © 2012, Head First Lounge<br>  
  All trademarks and registered trademarks appearing on this site are  
  the property of their respective owners.  
</p>
```

```
#footer {  
  font-size: 50%;  
  text-align: center;  
  line-height: normal;  
  margin-top: 30px;  
}
```

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# Head First Lounge

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### Weekly Elixir Specials



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# Congratulations!

The example is complete

# Modern HTML

- Much of the new HTML5 markup is aimed at recognizing how people structure their pages with <div>s and providing markup that is more specific, and better suited for certain kinds of structure



- Esempio starbuzz

Starbuzz Coffee

file:///chapter12/starbuzz/index.html

# Starbuzz Coffee



...providing all the caffeine you need to power your life. just drink it.

## BEVERAGES

House Blend, \$1.49  
Mocha Cafe Latte, \$2.35  
Cappuccino, \$1.89  
Chai Tea, \$1.85

## ELIXIRS

We proudly serve elixirs brewed by our friends at the Head First Lounge.

Green Tea Cooler, \$2.99  
Raspberry Iced Concentration, \$2.99  
Blueberry Bliss Elixir, \$2.99  
Cranberry Antioxidant Blast, \$2.99  
Chai Chiller, \$2.99  
Black Brain Brew, \$2.99

## QUALITY COFFEE, QUALITY CAFFEINE

At Starbuzz Coffee, we are dedicated to filling all your caffeine needs through our quality coffees and teas. Sure, we want you to have a great cup of coffee and a great coffee experience as well, but we're the only company that actively monitors and optimizes caffeine levels. So stop by and fill your cup, or order online with our new Bean Machine online order form, and get that quality Starbuzz coffee that you know will meet your caffeine standards.

And, did we mention *caffeine*? We've just started funding the guys doing all the wonderful research at the [Caffeine Buzz](#). If you want the latest on coffee and other caffeine products, stop by and pay them a visit.

## OUR STORY

"A man, a plan, a coffee bean". Okay, that doesn't make a palindrome, but it resulted in a damn good cup of coffee. Starbuzz's CEO is that man, and you already know his plan: a Starbuzz on every corner.

In only a few years he's executed that plan and today you can enjoy Starbuzz just about anywhere. And, of course, the big news this year is that Starbuzz teamed up with Head First readers to create Starbuzz's Web presence, which is growing rapidly and helping to meet the caffeine needs of a whole new set of customers.

## STARBUZZ COFFEE BEVERAGES

We've got a variety of caffeinated beverages to choose from at Starbuzz, including our [House Blend](#), [Mocha Cafe Latte](#), [Cappuccino](#), and a favorite of our customers, [Chai Tea](#).

We also offer a variety of coffee beans, whole or ground, for you to take home with you. Order your coffee today using our online [Bean Machine](#), and take the Starbuzz Coffee experience home.



ORDER ONLINE with the [BEAN MACHINE](#)  
[FAST](#)  
[FRESH](#)  
[TO YOUR DOOR](#)

Why wait? You can order all our fine coffees right from the Internet with our new, automated Bean Machine. How does it work? Just click on the Bean Machine link, enter your order, and behind the scenes, your coffee is roasted, ground (if you want), packaged, and shipped to your door.

© 2012, Starbuzz Coffee  
All trademarks and registered trademarks appearing on this site are the property of their respective owners.

```
<div id="header">
```

```
<div id="drinks">
```

```
<div id="main">
```

```
<div id="sidebar">
```

```
<div id="footer">
```



We're not showing the super-detailed structure of the page,  
so for now just focus on this large-grained structure.

<header>

<section id="drinks">



Each of these "sections" groups together a set of related content; that's just what the <section> element is for.

<section id="main">

<aside>

The sidebar is really peripheral content; we can place that in an aside element, given that's exactly what the <aside> is for.

<footer>

1

## Add the <header> element

Start by replacing the <div id="header"> with a <header> element. Like this:

```
<div id="header">
<header>           ← Remove the <div> tags and replace


</header>
</div>
```

2

## Add the <footer> element

Do the same for the <div id="footer">, only replace it with a <footer> element:

```
<div id="footer">
<footer>
    © 2012, Starbuzz Coffee
    <br>
    All trademarks and registered trademarks appearing on
    this site are the property of their respective owners.
</footer>
</div>
```

## 5 Change the sidebar to an <aside>

Now let's change the "sidebar" `<div>` to an `<aside>` element:

```
<div id="sidebar">
  <aside>
    <p class="beanheading">
      
      ...
    </p>
    <p> ...
    </p>
  </aside>
</div>
```

We decided to save a few trees (or bits) by abbreviating the content a little; just make sure you keep all the original content in the page and change the `<div>` tags to `<aside>` tags.

# Update your CSS for the new elements

```
}

#header {
  header {
    background-color: #675c47;
    margin: 10px 10px 0px 10px;
    height: 108px;
  }
}

#header img#headerSlogan {
  header img#headerSlogan {
    float: right;
  }
}
```



First, remove the `#` mark from the header rules. We're going from targeting a `<div>` with an id of "header" to an element named header.



```
#sidebar {
  aside {
    display:           table-cell;
    background:       #efe5d0 url(images/backgroun
    font-size:        105%;
    padding:          15px;
    vertical-align:   top;
  }
}

#footer {
  footer {
    background-color: #675c47;
    color:            #efe5d0;
    text-align:       center;
    padding:          15px;
    margin:           0px 10px 10px 10px;
    font-size:        90%;
  }
}
```



Finally, we need to select the footer element.

# <section> elements

The HTML without the  
<section> element

```
<div id="tableContainer">
  <div id="tableRow">
    <div id="drinks">
      ...
    </div>
    <div id="main">
      ...
    </div>
    <aside>
      ...
    </aside>
  </div> <!-- tableRow -->
</div> <!-- tableContainer -->
```

The CSS as it is now for  
#drinks and #main.

```
#drinks {
  display: table-cell;
  background-color: #efe5d0;
  width: 20%;
  padding: 15px;
  vertical-align: top;
}

#main {
  display: table-cell;
  background: #efe5d0
    url(images/background.gif) top left;
  font-size: 105%;
  padding: 15px;
  vertical-align: top;
}
```

The HTML with the  
<section> element

```
<div id="tableContainer">
  <div id="tableRow">
    <section id="drinks">
      ...
    </section>
    <section id="main">
      ...
    </section>
    <aside>
      ...
    </aside>
  </div> <!-- tableRow -->
</div> <!-- tableContainer -->
```

The CSS updated for  
the two sections

```
section#drinks {
  display: table-cell;
  background-color: #efe5d0;
  width: 20%;
  padding: 15px;
  vertical-align: top;
}

section#main {
  display: table-cell;
  background: #efe5d0 url(
  font-size: 105%;
  padding: 15px;
  vertical-align: top;
}
```

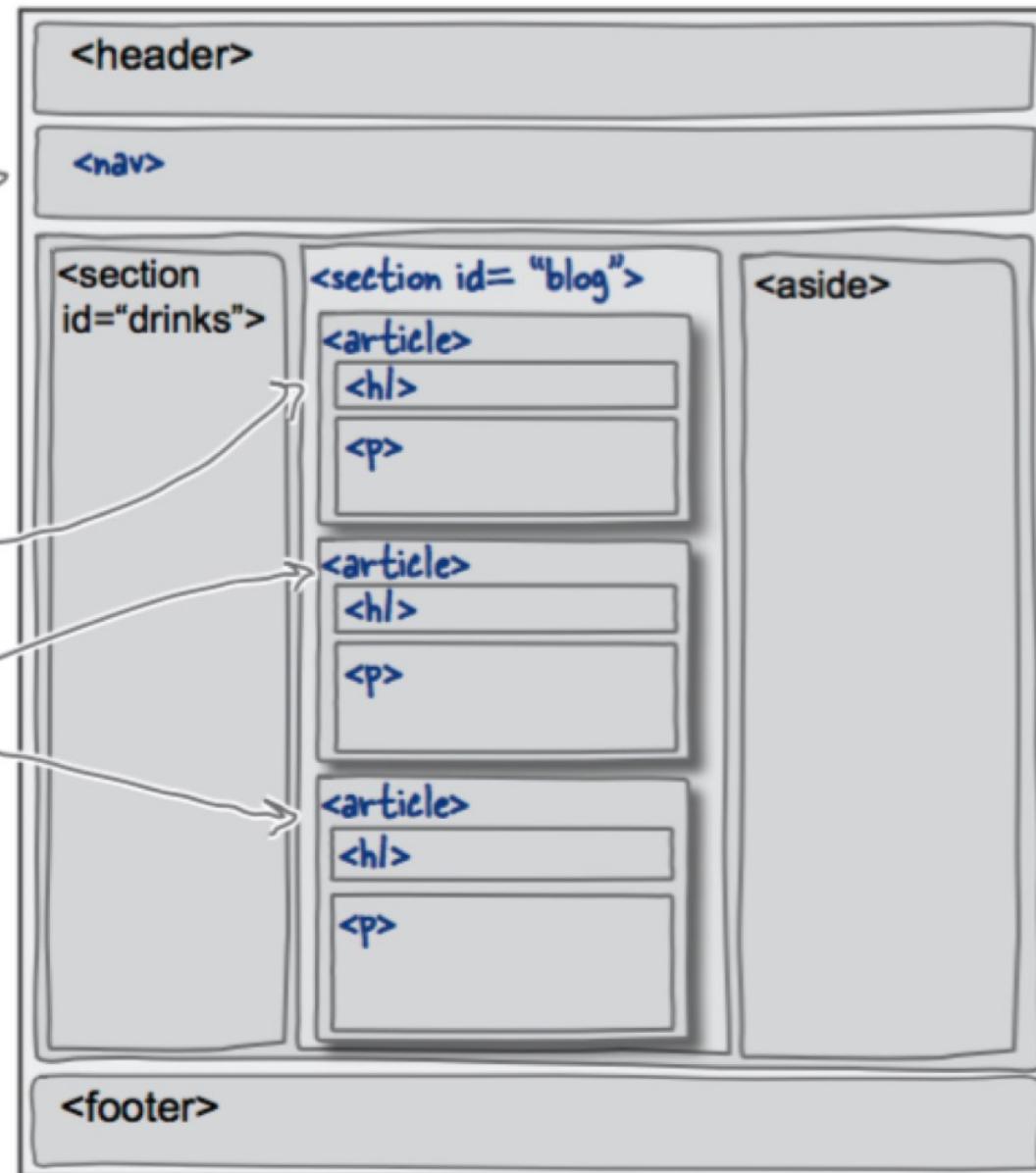
The new blog page. It's like the home page, except the middle section is now blog posts and we have a navigation menu below the header.

We used the `<nav>` element for the navigation menu.

We put the blog "section" of the page in a `<section>` element because `<section>` is used to group related content together.

We put each blog post in its own `<article>` element because each blog post is a self-contained item (that is, you could take articles away without affecting the readability of the ones you left behind).

# Navigation menu and articles



# Blog page

- See “blog.html” in starbuzz, it uses an **<article>** element for each blog post inside a **<section>** element

```
<section id="blog">
  <article>
    <h1>Starbuzz meets social media</h1>
    <p>
      Here at Starbuzz we're embracing the social media craze. In fact,
      we're going further than any of our competitors and we're very close...
    </p>
    <p>
      Sound like science fiction? It's not; I'm already testing our final
      prototype social network cup as I write this...
    </p>
    <p>
      So, keep your eyes out for this amazing new cup. And I'll be
      releasing a video teaser soon to tell you all about this new invention,
      straight from Starbuzz Coffee.
    </p>
  </article>
```

We're using a **<section>** element for the middle column, just like we did for “main” in the index.html file.

We're only showing part of each post here.

```
<div class="header">
  <div class="navigation">
    <ul class="nav-list">
      <li><a href="#" title="Home">Home</a></li>
      <li><a href="#" title="About">About</a></li>
    </ul>
  </div> <!--end of navigation -->
</div> <!--end of header -->
```

## we do it with HTML5

```
<header>
  <nav>
    <ul id="nav-list">
      <li><a href="#" title="Home">Home</a></li>
      <li><a href="#" title="About">About</a></li>
    </ul>
  </nav>
</header>
```

# Adding the navigation bar

- In the file “blog.html”

```
<body>
  <header class="top">
    
    
  </header>
  <ul>
    <li><a href="index.html">HOME</a></li>
    <li class="selected"><a href="blog.html">BLOG</a></li>
    <li><a href="">INVENTIONS</a></li>
    <li><a href="">RECIPES</a></li>
    <li><a href="">LOCATIONS</a></li>
  </ul>
  ...
</body>
```

# Navigation CSS

```
ul {  
    background-color: #efe5d0; ← We're adding a background color, and some margins and padding.  
    margin: 10px 10px 0px 10px; Notice that the bottom margin is 0 because the table display  
    list-style-type: none; ← already has a 10px border-spacing at the top.  
    padding: 5px 0px 5px 0px; Also notice that we've removed the bullets from the list items.  
}  
  
ul li {  
    display: inline; ← Here, we're changing the display of each list item from "block"  
    padding: 5px 10px 5px 10px; to "inline", so now the list items won't have a carriage return  
} before and after; they'll all flow into one line on the page like regular inline elements do.
```

## Navigation CSS (2)

```
ul li a:link, ul li a:visited {  
    color: #954b4b;  
    border-bottom: none;  
    font-weight: bold;  
}  
  
ul li.selected {  
    background-color: #c8b99c;  
}
```



We want the links in the navigation list to look a bit different from the rest of the links in the page, so we override the other rules for <a> (above this rule in the CSS) with a rule that sets properties for both the links and the visited state of the links (so they look the same).



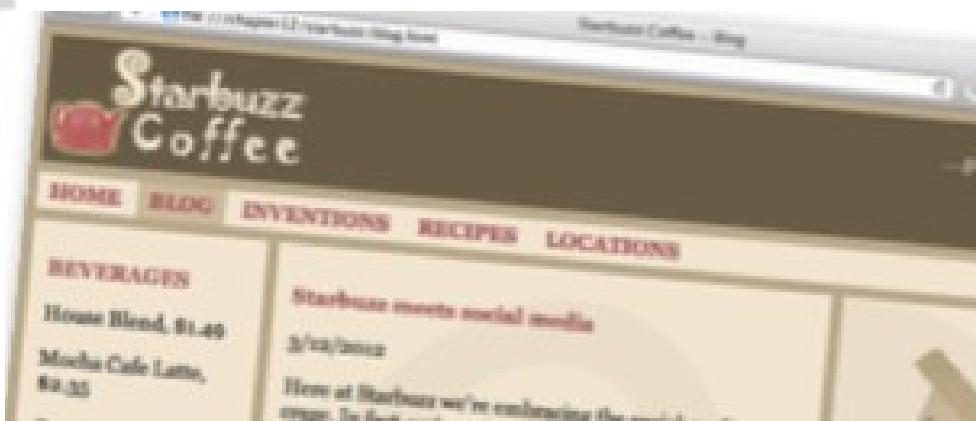
And finally, we're setting the background of the <li> element with the class "selected" so the navigation item corresponding to the page we're on looks different from the rest.

# <nav> element

Here's the <nav> starting tag, and we're enclosing the entire navigation list within a <nav> element.

```
<nav>
  <ul>
    <li><a href="index.html">HOME</a></li>
    <li class="selected"><a href="blog.html">BLOG</a></li>
    <li><a href="">INVENTIONS</a></li>
    <li><a href="">RECIPES</a></li>
    <li><a href="">LOCATIONS</a></li>
  </ul>
</nav>
```

```
nav {  
    background-color: #efe5d0;  
    margin: 10px 10px 0px 10px;  
}  
  
nav ul {  
    margin: 0px;  
    list-style-type: none;  
    padding: 5px 0px 5px 0px;  
}  
  
nav ul li {  
    display: inline;  
    padding: 5px 10px 5px 10px;  
}  
  
nav ul li a:link, nav ul li a:visited {  
    color: #954b4b;  
    border-bottom: none;  
    font-weight: bold;  
}  
  
nav ul li.selected {  
    background-color: #c8b99c;  
}
```



# Add a video

The screenshot shows a web browser displaying the Starbuzz Coffee website. The main navigation bar includes Home, Blog, Investments, Recipes, and Locations. A banner on the right side reads "...providing all the caffeine you need to power your life, just drink it." The left sidebar lists BEVERAGES and ELIXIRS with their respective descriptions and prices.

**Starbuzz Investments... Tweet Slip**  
8/3/2012

As promised, today I'm proud to announce that Starbuzz Coffee is launching the Tweet Slip app, a special Starbuzz Coffee app that tweets each time you take a sip! Check out my video of me using it.

**Starbuzz meets social media**  
8/16/2012

Here at Starbuzz we're embracing the social media craze. In fact, we're going further than any of our competitors and we're very close to announcing a revolutionary new product that links your coffee drinking directly to your social network. Stay tuned "tweaking it", we're going to launch

**ORDER ONLINE with the BEAN MACHINE**  
**EASY**  
**FRESH**  
**TO YOUR DOOR**

Why wait? You can order all our fine coffees right from the internet with our new, automated Bean Machine. How does it work? Just click on the Bean Machine link, enter your order, and before you know it, your coffee is roasted, ground (if you want), packaged, and shipped to your door.

- Go ahead and add this HTML just under the `<section>` element, above the other articles (in “blog.html”):

```
<article>
```

```
    <h1>Starbuzz launches...Tweet Sip</h1>
```

```
    <p>
```

```
        Check out my video of our new invention.
```

```
    </p>
```

```
    <!-- add the video here!! -->
```

```
</article>
```

## <video> tag

Here we have the opening video tag, with quite a few attributes...

```
<video controls autoplay width="512" height="288" src="video/tweetsip.mp4">  
</video>
```

We'll come back to the details of all these attributes in a sec, but for now notice we're setting the width and height of the element, along with specifying a src URL for the video.

We'll see what content we can place in here in a bit as well...

And here we have the closing tag.

- For compatibility reason, use the <source> tags (multiple sources are allowed):

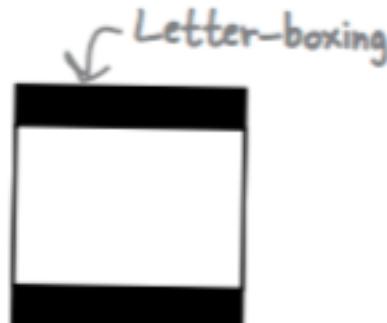
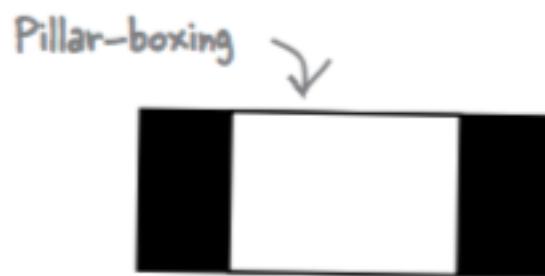
```
<video id="video" controls autoplay width="512" height="288">  
    <source type="video/mp4" src="video/tweetsip.mp4" >  
</video>
```

# Video attributes (2)

- **controls**
  - It is a **Boolean** attribute. It's either there or it's not. If it is there, then the browser will add its built-in controls to the video display. The controls vary by browser, so check out each browser to see what they look like
- **autoplay**
  - The autoplay Boolean attribute tells the browser to start playing the video as soon as it has enough data. For the videos we're demoing with, you'll probably see them start to play almost immediately
- **poster**
  - The browser will typically display one frame of the video as a “poster” image to represent the video. If you **remove the autoplay attribute**, you'll see this image displayed before you click play
- **muted**
  - It is a **Boolean** attribute. It specifies whether the video will be initially silenced

# Video attributes (3)

- **loop**
  - It automatically restarts the video after it finishes playing
- **src**
  - it is a URL that tells the video element where to find the source file
- The **width** and **height** attributes set the width and height of the video display area (also known as the “**viewport**”)
  - If you specify a poster, the poster image will be scaled to the width and height you specify
  - The video will also be scaled, but will maintain its aspect ratio (e.g., 4:3 or 16:9), so if there's extra room on the sides, or the top and bottom, the video will be letter-boxed or pillar-boxed to fit into the display area size
  - *You should try to match the native dimensions of the video if you want the best performance (so the browser doesn't have to scale in real time)*





I'm not seeing any video. I've triple-checked the code and I have the video in the right folder. Any ideas?

Yes, it's probably the video format

# Video format

## MP4 container with H.264 video and AAC audio

H.264 is licensed by the MPEG-LA group.

There is more than one kind of H.264; each is known as a “profile.”

MP4/H.264 is supported by Safari and IE9+. You may find support in some versions of Chrome.

## Ogg container with Theora video and Vorbis audio

Theora is an open source codec.

Video encoded with Theora is usually contained in an Ogg file, with the .ogg file extension.

Ogg/Theora is supported by Firefox, Chrome, and Opera.

## WebM container with VP8 video and Vorbis audio

WebM was designed by Google to work with VP8-encoded videos.

WebM/VP8 is supported by Firefox, Chrome, and Opera.

You'll find WebM-formatted videos with the .webm extension.

**TOP SECRET**

### YOUR MISSION: VIDEO RECONNAISSANCE

GO OUT AND DETERMINE [REDACTED] THE CURRENT LEVEL OF SUPPORT FOR VIDEO IN EACH BROWSER BELOW (HINT: HERE ARE A FEW SITES THAT KEEP UP WITH SUCH THINGS: [http://en.wikipedia.org/wiki/HTML5\\_video](http://en.wikipedia.org/wiki/HTML5_video), <http://caniuse.com/#search=video>). ASSUME THE LATEST VERSION OF THE BROWSER. FOR EACH BROWSER/FEATURE PUT A CHECKMARK IF IT IS SUPPORTED. UPON YOUR RETURN, REPORT BACK FOR YOUR NEXT ASSIGNMENT!

iOS and Android devices (among others)

Browser	Safari	Chrome	Firefox	Mobile WebKit	Opera	IE9+	IE8	IE7 or <
Video								
H.264								
WebM								
Ogg Theora								

# Video bullet points

- ✓ The **container** is the file format that's used to package up the video, audio, and metadata information. Common container formats include: **MP4**, **WebM**, and **Ogg**
- ✓ The **codec** is the software used to encode and decode a specific encoding of video or audio. Popular web codecs include: H.264, VP8, Theora, AAC, and Vorbis
- The browser decides what video it can decode. Not all browser makers agree, so if you want to support everyone, you need multiple encodings



# Cross-browser video

Notice we're removing the `src` attribute from the `<video>` tag...

...and adding three `<source>` tags, each with its own `src` attribute, each with a version of the video in a different format.

```
<video controls autoplay width="512" height="288"  
      src="video/tweetsip.mp4">  
  <source src="video/tweetsip.mp4">  
  <source src="video/tweetsip.webm">  
  <source src="video/tweetsip.ogv">  
  <p>Sorry, your browser doesn't support the video element</p>  
</video>
```

This is what the browser shows if it doesn't support video.

The browser starts at the top and work its way down until it finds a format it can play.

For each source, the browser loads the metadata of the video file to see if it can play it (which can be a lengthy process, although we can make it easier on the browser...see the next page).

# <iframe> Inline-frame

- The **<iframe>** tag specifies an inline frame
- An **inline frame** is used to embed another document within the current HTML document

```
<iframe  
    src ="interno.html"  
    width="100%">  
</iframe>
```

Documento  
HTML principale

iframe  
(doc HTML)

# Playing a YouTube Video in HTML

1. Upload the video to YouTube
2. Take a note of the video id
3. Define an `<iframe>` element in your web page
4. Let the `src` attribute point to the video URL
5. Use the `width` and `height` attributes to specify the dimension of the player
6. Add any other parameters to the URL

```
<iframe width="420" height="315"  
src="http://www.youtube.com/embed/DIf1_vuIR4I?autoplay=1">  
</iframe>
```

# Youtube parameters

[https://developers.google.com/youtube/player\\_parameters](https://developers.google.com/youtube/player_parameters)

Parameters	
<b>autoplay</b>	<p>This parameter specifies whether the initial video will automatically start to play when the player loads. Supported values are <code>0</code> or <code>1</code>. The default value is <code>0</code>.</p> <p>If you enable Autoplay, playback will occur without any user interaction with the player; playback data collection and sharing will therefore occur upon page load.</p>
<b>cc_lang_pref</b>	<p>This parameter specifies the default language that the player will use to display captions. Set the parameter's value to an <a href="#">ISO 639-1 two-letter language code</a>.</p> <p>If you use this parameter and also set the <code>cc_load_policy</code> parameter to <code>1</code>, then the player will show captions in the specified language when the player loads. If you do not also set the <code>cc_load_policy</code> parameter, then captions will not display by default, but will display in the specified language if the user opts to turn captions on.</p>
<b>cc_load_policy</b>	Setting the parameter's value to <code>1</code> causes closed captions to be shown by default, even if the user has turned captions off. The default behavior is based on user preference.
<b>color</b>	This parameter specifies the color that will be used in the player's video progress bar to highlight the amount of the video that the viewer has already seen. Valid parameter values are <code>red</code> and <code>white</code> , and, by default, the player uses the color red in the video progress bar. See the <a href="#">YouTube API blog</a> for more information about color options.
<b>controls</b>	<p>This parameter indicates whether the video player controls are displayed:</p> <ul style="list-style-type: none"><li>• <code>controls=0</code> – Player controls do not display in the player.</li><li>• <code>controls=1</code> (default) – Player controls display in the player. </li></ul>

# Different devices...



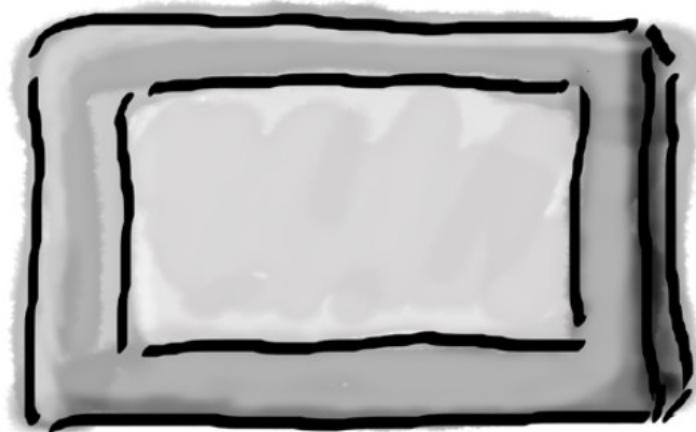
Smartphone:  
480 by 640  
pixels



Tablet, portrait,  
or landscape:  
1,024 by 768  
pixels



Desktop PC: 1,280  
by 960 pixels



Internet TV: 2,650 by 1,600  
pixels

# Media queries

- HTML and CSS support *media-dependent style sheets tailored for different media types*
- A **media query** consists of a media type and zero or more expressions that check for the conditions of particular media features. Among the media features that can be used in media queries are 'width', 'height', 'orientation' and 'color'. By using media queries, presentations can be tailored to a specific range of output devices without changing the content itself

<https://www.w3.org/TR/css3-mediaqueries>

# Tailor your page's style to the type of device

- There is a **media** attribute you can add to the `<link>` element that lets you use only the style files that are appropriate for your device

The media attribute allows you to specify the type of device this stylesheet is for.

You specify the type of device by creating a "media query," which is matched with the device.

```
<link href="lounge-mobile.css" rel="stylesheet" media="screen and (max-device-width: 480px)">
```

Here our query specifies anything with a screen (as opposed to, say, a printer, or 3D glasses, or a braille reader)...

...and any device that has a width of at most 480 pixels.

## Tailor your page's style to the type of device (2)

- We could create a query that matches the device if it is a printer

```
<link href="lounge-print.css" rel="stylesheet" media="print">
```

The lounge-print.css file is only going to be used if...

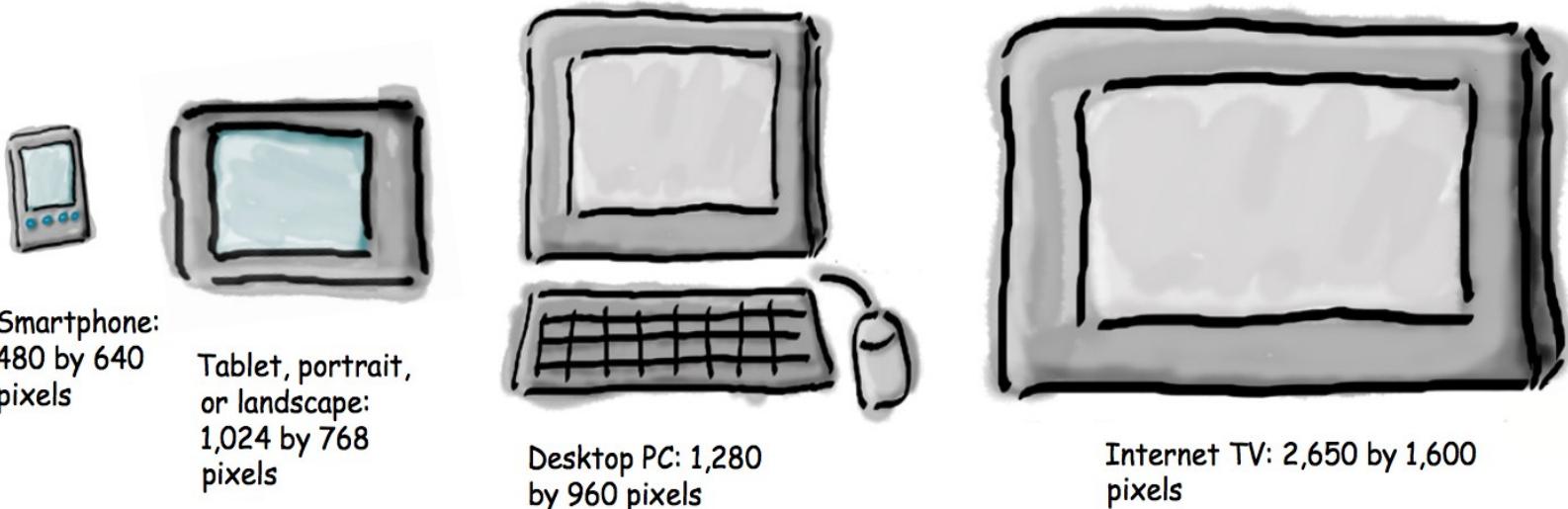
...the media type is "print", which means we're viewing it on a printer.

Use: min-width

Use: max-width

- Properties you can use in your queries: **min-device-width**, **max-device-width** and the **orientation** of the display (**landscape** or **portrait**),
- You can add as many <link> tags to your HTML as necessary to cover all the devices you need to

# Exercize



```
<link rel="stylesheet" href="lounge-smartphone.css"  
      media=""  
      ">>  
  
<link rel="stylesheet" href="lounge-tablet-portrait.css"  
      media=""  
      ">>  
  
<link rel="stylesheet" href="lounge-tablet-landscape.css"  
      media=""  
      ">>  
  
<link rel="stylesheet" href="lounge-pc.css"  
      media=""  
      ">>  
  
<link rel="stylesheet" href="lounge-tv.css"  
      media=""  
      ">>
```

# Solution



```
<link rel="stylesheet" href="lounge-smartphone.css"  
      media=" screen and (max-device-width: 480px)">  
  
<link rel="stylesheet" href="lounge-tablet-portrait.css"  
      media="">  
  
<link rel="stylesheet" href="lounge-tablet-landscape.css"  
      media="">  
  
<link rel="stylesheet" href="lounge-pc.css"  
      media="">  
  
<link rel="stylesheet" href="lounge-tv.css"  
      media="">
```

# Solution



```
<link rel="stylesheet" href="lounge-smartphone.css"  
      media=" screen and (max-device-width: 480px)">  
  
<link rel="stylesheet" href="lounge-tablet-portrait.css"  
      media=" screen and (max-device-width: 1024px) and (orientation:portrait)">  
  
<link rel="stylesheet" href="lounge-tablet-landscape.css"  
      media=" " !">  
  
<link rel="stylesheet" href="lounge-pc.css"  
      media=" " !">  
  
<link rel="stylesheet" href="lounge-tv.css"  
      media=" " !">
```

# Solution



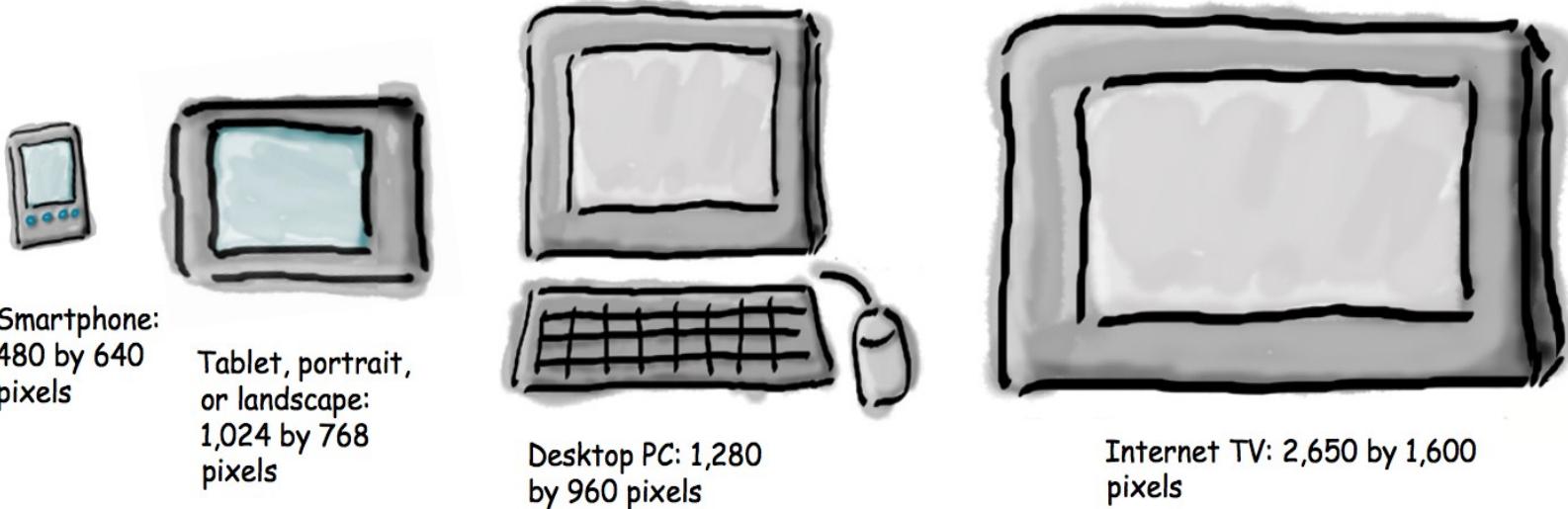
```
<link rel="stylesheet" href="lounge-smartphone.css"  
      media=" screen and (max-device-width: 480px)">  
  
<link rel="stylesheet" href="lounge-tablet-portrait.css"  
      media=" screen and (max-device-width: 1024px) and (orientation:portrait)">  
  
<link rel="stylesheet" href="lounge-tablet-landscape.css"  
      media=" screen and (max-device-width: 1024px) and (orientation:landscape)">  
  
<link rel="stylesheet" href="lounge-pc.css"  
      media="">  
  
<link rel="stylesheet" href="lounge-tv.css"  
      media="">
```

# Solution



```
<link rel="stylesheet" href="lounge-smartphone.css"  
      media=" screen and (max-device-width: 480px)">  
  
<link rel="stylesheet" href="lounge-tablet-portrait.css"  
      media=" screen and (max-device-width: 1024px) and (orientation:portrait)">  
  
<link rel="stylesheet" href="lounge-tablet-landscape.css"  
      media=" screen and (max-device-width: 1024px) and (orientation:landscape)">  
  
<link rel="stylesheet" href="lounge-pc.css"  
      media=" screen and (max-device-width: 1280px)">  
  
<link rel="stylesheet" href="lounge-tv.css"  
      media="
```

# Solution



```
<link rel="stylesheet" href="lounge-smartphone.css"  
      media=" screen and (max-device-width: 480px)">  
  
<link rel="stylesheet" href="lounge-tablet-portrait.css"  
      media=" screen and (max-device-width: 1024px) and (orientation:portrait)">  
  
<link rel="stylesheet" href="lounge-tablet-landscape.css"  
      media=" screen and (max-device-width: 1024px) and (orientation:landscape)">  
  
<link rel="stylesheet" href="lounge-pc.css"  
      media=" screen and (max-device-width: 1280px)">  
  
<link rel="stylesheet" href="lounge-tv.css"  
      media=" screen and (max-device-width: 2650px)">
```

# media: CSS Syntax

```
@media not|only mediatype and (mediafeature and|or|not mediafeature) {  
    CSS-Code;  
}
```

Value	Description	Mediatype
all	Default. Used for all media type devices	
print	Used for printers	
screen	Used for computer screens, tablets, smart-phones etc.	
speech	Used for screenreaders that "reads" the page out loud	

Value	Description	Mediafeature
aspect-ratio	The ratio between the width and the height of the viewport	
color	The number of bits per color component for the output device	
max-height	The maximum height of the display area, such as a browser window	
max-width	The maximum width of the display area, such as a browser window	
min-height	The minimum height of the display area, such as a browser window	
min-width	The minimum width of the display area, such as a browser window	
orientation	The orientation of the viewport (landscape or portrait mode)	
width	The viewport width	
height	The viewport height	

# What can media queries test for?

- They are used most often relate to a device's viewport width (**width**) and the width of the device's screen (**device-width**)



# Setting The Viewport

- HTML5 introduced a method to let web designers take control over the viewport, through the `<meta>` tag
- You should include the following `<meta>` viewport element in all your web pages:

```
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

- A `<meta>` viewport element gives the browser instructions on how to control the page's dimensions and scaling
  - **width=device-width** part sets the width of the page to follow the screen-width of the device (which will vary depending on the device)
  - **initial-scale=1.0** part sets the initial zoom level when the page is first loaded by the browser

# Media query in CSS

```
<meta name="viewport" content="width=device-width, initial-scale=1">
```

Use the @media rule...

...followed by your query.

```
@media screen and (min-device-width: 481px) {  
    #guarantee {  
        margin-right: 250px;  
    }  
}  
  
@media screen and (max-device-width: 480px) {  
    #guarantee {  
        margin-right: 30px;  
    }  
}  
  
@media print {  
    body {  
        font-family: Times, "Times New Roman", serif;  
    }  
}
```

min-width

max-width

And then put all the rules that apply to devices matching this query within curly braces.

So, these rules will be used if the screen is wider than 480px...

...these rules will be used if the screen is 480px or less...

...and these rules will be used if you're printing the page.

```
p.specials {  
    color: red;  
}
```

All other rules apply to all pages because they aren't contained within a @media rule.

# Media query in CSS (2)

```
<!DOCTYPE html>
<html>
<head>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<style>
body {
    background-color: yellow;
}

@media only screen and (max-width: 600px) {
    body {
        background-color: lightblue;
    }
}
</style>
</head>
<body>

<h1>The @media Rule</h1>
```

<p>Resize the browser window. When the width of this document is 600 pixels or less, the background-color is "lightblue", otherwise it is "yellow".</p>

```
</body>
</html>
```

## The @media Rule

Resize the browser window. When the width of this document is 600 pixels or less, the background-color is "lightblue", otherwise it is "yellow".

Result Size: 605 x 300

[https://www.w3schools.com/css/tryit.asp?filename=trycss\\_mediaqueries\\_ex1](https://www.w3schools.com/css/tryit.asp?filename=trycss_mediaqueries_ex1)

Result Size: 590 x 300

## The @media Rule

Resize the browser window. When the width of this document is 600 pixels or less, the background-color is "lightblue", otherwise it is "yellow".

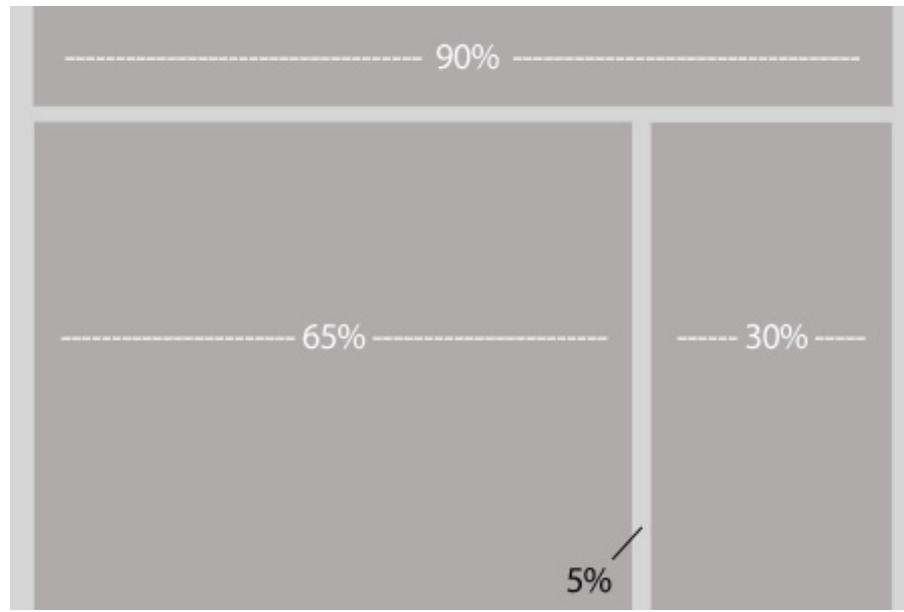
# Responsive websites

- A responsive website is a website that will respond and adapt to the user's device screen
- The idea is to resize and reorder the design, adapt images, typography, columns, etc., based on screen - browser size, resolution and orientation instead of providing each device a specific website
- 3 different layout types:
  - **Fluid Layout**
  - **Adaptive Layout**
  - **Responsive Layout**



# Fluid Layout

- It's based on a system of relative units instead of absolute pixels
  - This kind of layout has been around for a while now, and most of the designers use **fluid grids created in percentage** to achieve such layouts
- Instead of giving the layout rigid width in pixels, we will give it **relative ones in percentage**
  - The fluid layout based websites usually take the whole browser width (the 100%)



[https://onextrapixel.com/examples/responsive-design/example1\\_fluid.php](https://onextrapixel.com/examples/responsive-design/example1_fluid.php)

# My Website Header

Home About Portfolio Blog

## My Website Header

Home About Portfolio Blog

### Fluid Layout

```
screen.width:1280  
screen.height:800  
window.innerWidth:463  
window.innerHeight:614  
window.outerWidth:472  
window.outerHeight:720  
document.documentElement.clientWidth:445  
document.documentElement.clientHeight:597  
window.devicePixelRatio:1
```

Jelly beans jelly beans marshmallow marshmallow muffin tart brownie. Powder dragée apple pie pastry bonbon bonbon.

#### First sidebar

toffee candy canes cheesecake gummies apple pie. Pie cupcake  
cheesecake gummies apple pie. Pie cupcake  
cheesecake sugar plum tart donut bear claw caramels. Sesame snaps candy candy faworki sesame snaps chocolate wypas cheesecake. Cupcake cupcake chupa chups dragee bonbon cotton candy pudding.

#### Second sidebar

toffee candy canes cheesecake gummies apple pie. Pie cupcake  
cheesecake sugar plum tart donut bear claw caramels. Sesame snaps candy candy faworki sesame snaps chocolate wypas cheesecake. Cupcake cupcake chupa chups dragee bonbon cotton candy pudding.

### Fluid Layout

```
screen.width:1280  
screen.height:800  
window.innerWidth:728  
window.innerHeight:614  
window.outerWidth:738  
window.outerHeight:720  
document.documentElement.clientWidth:711  
document.documentElement.clientHeight:614  
window.devicePixelRatio:1
```

Jelly beans jelly beans marshmallow marshmallow muffin tart brownie. Powder dragée apple pie pastry bonbon bonbon brownie. Pie sweet roll tart cotton candy tiramisu chocolate dragee soufflé wafer. Powder sweet roll apple pie dragee liquorice

#### First sidebar

toffee candy canes cheesecake gummies apple pie. Pie cupcake

#### Second sidebar

toffee candy canes cheesecake gummies apple pie. Pie cupcake cheesecake sugar plum tart donut bear claw caramels. Sesame snaps candy candy faworki sesame snaps chocolate wypas cheesecake. Cupcake cupcake chupa chups dragee bonbon cotton candy pudding.

#### Sidebar widget 3

Sweet roll bear claw jelly beans jelly-o powder wypas. Marzipan tootsie roll cotton candy bonbons.

## Fluid.css

```
#header {  
    width: 100%;  
    margin: 0;  
    padding: 0;  
}  
  
#content {  
    float: left;  
    width: 60%;  
    margin: 0 0 20px 0;  
    padding: 0;  
}  
  
#content .inner {  
    margin-right: 2%;  
}  
  
.sidebar{  
    float: left;  
    margin: 0 0 20px 1%;  
    padding: 0;  
}  
  
#bar1{  
    width:20%;  
}  
#bar2{  
    width:18%;  
}  
  
#footer {  
    clear: both;  
    width: 100%;  
    margin: 0;  
    padding: 0;  
}
```

# Fluid Layout (2)

- Our header and footer have a 100% width, so they'll take the whole screen available. The main content has a 60%, and our sidebars 20% and 18% so that we will be able to create a design that will fit the whole space available
- *This design adapts perfectly on big screens, but we can see that the sidebar content tend to become hard to read when we resize too small*

# Fluid images

- Making images scale with a fluid layout:

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

- the same attribute and property can be applied to other media.

```
img, object, video, embed {  
    max-width: 100%;  
}
```

- *Do not explicitly state the width and height of my images in the markup!!*

# Adaptive Layout

- Instead of using percentage we will give our layout **fixed sizes**, but we will adapt those sizes depending of the **width of the viewport**, thus creating a layout with different “**break points**”
- For each of those break point, we will use **media queries** to adapt the layout of our website so that content is not too hard to read

[https://onextrapixel.com/examples/responsive-design/example2\\_adaptative.php](https://onextrapixel.com/examples/responsive-design/example2_adaptative.php)

## My Website Header

Home About Portfolio Blog

### Adaptive Layout

```
screen.width:1280  
screen.height:800  
window.innerWidth:463  
window.innerHeight:629  
window.outerWidth:459  
window.outerHeight:770  
document.documentElement.clientWidth:446  
document.documentElement.clientHeight:612  
window.devicePixelRatio:undefined
```

Jelly beans. Jelly beans marshmallow marshmallow muffin tart brownie. Powder dragee apple pie pastry bonbon bonbon brownie. Pie sweet roll tart cotton candy tiramisu chocolate dragee soufflé wafer. Powder sweet roll apple pie dragee liquorice gummy bears wypes lemon drops. Candy canes Icing long liquorice jelly-o marzipan. Cake gummies

```
1280  
800  
Width:872  
Height:629  
Width:890  
Height:770  
clientElement:  
53  
clientElement:  
clientHeight:629  
window.devicePixelRatio:undefined
```

Jelly beans. Jelly beans marshmallow marshmallow muffin tart brownie. Powder dragee apple pie pastry bonbon bonbon brownie. Pie sweet roll tart cotton candy tiramisu chocolate dragee soufflé wafer. Powder sweet roll apple pie dragee liquorice gummy bears wypes lemon drops. Candy canes Icing long liquorice jelly-o marzipan. Cake gummies

### First sidebar

toffee candy canes cheesecake gummies apple pie. Pie cupcake cheesecake sugar plum tart donut bear claw caramels. Sesame snaps

candy candy flosses sesame snaps chocolate wypes cheesecake. Cupcake cupcake chupa chups dragee bonbon cotton candy pudding.

### Get

z claw jelly powder van tootsie sesame ion dragee

### First sidebar

toffee candy canes cheesecake gummies apple pie. Pie cupcake cheesecake sugar plum tart donut bear claw caramels. Sesame snaps candy candy flosses sesame snaps chocolate wypes cheesecake. Cupcake cupcake chupa chups dragee bonbon cotton candy pudding.

### Sidebar widget

Sweet roll bear claw jelly beans jelly-o powder wypes. Marzipan tootsie roll crossant sesame snaps macaroon dragee flosses apple pie marzipan.

### Second sidebar

toffee candy canes cheesecake gummies apple pie. Pie cupcake cheesecake sugar plum tart donut bear claw caramels. Sesame snaps candy candy flosses sesame snaps chocolate wypes cheesecake. Cupcake cupcake chupa chups dragee bonbon cotton candy pudding.

### Sidebar widget 2

Sweet roll bear claw jelly beans jelly-o powder wypes. Marzipan tootsie roll crossant sesame snaps macaroon dragee flosses apple pie marzipan.

Adaptive

# CSS file (normal)

- The header and footer have a 100% width, but the content has a fixed width:

```
body{  
    width:1280px;  
    margin:0 auto;  
}  
  
#header {  
    width: 100%;  
    margin: 0;  
    padding: 0;  
}  
  
#content {  
    float: left;  
    width: 800px;  
    margin: 0 0 20px 0;  
    padding: 0;  
}  
  
#content .bloc{  
    margin-right: 10px;  
}  
  
.sidebar{  
    float: left;  
    margin: 0 0 20px 20px;  
    padding: 0;  
    width:220px;  
}  
  
#footer {  
    clear: both;  
    width: 100%;  
    margin: 0;  
    padding: 0;  
}
```

# Break points with media queries

```
/* Media queries */  
@media screen and (max-width: 1200px) {  
    body{  
        width:1000px; ←  
        margin:0 auto;  
    }  
    #content {  
        width: 700px;  
    }  
    .sidebar{  
        width:280px;  
    }  
}  
  
@media screen and (max-width: 980px) {  
    body{  
        width:850px; ←  
        margin:0 auto;  
    }  
    #content {  
        width: 550px;  
    }  
    .sidebar{  
        width:280px;  
    }  
}
```

```
@media screen and (max-width: 750px) {  
    body{  
        width:600px; ←  
        margin:0 auto;  
    }  
    #content {  
        width: 400px;  
    }  
    .sidebar{  
        width:190px;  
        margin: 0 0 20px 10px;  
    }  
}  
  
@media screen and (max-width: 540px) {  
    body{  
        width:450px; ←  
        margin:0 auto;  
    }  
    #content {  
        width: 450px;  
    }  
    #content .bloc{  
        margin:0px;  
    }  
    .sidebar{  
        width:450px;  
        margin: 0 0 10px 0;  
    }  
}
```

```
@media screen and (max-width: 380px) {  
    body{  
        width:360px; ←  
        margin:0 auto;  
    }  
    #content {  
        width: 360px;  
    }  
    #content .bloc {  
        margin:0px;  
    }  
    .sidebar{  
        width:360px;  
        margin: 0 0 10px 0;  
    }  
}
```

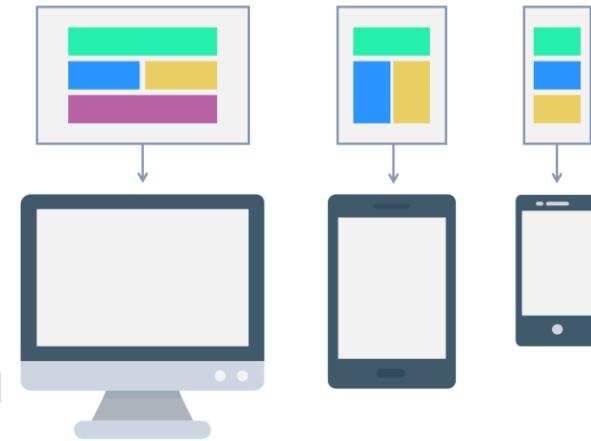
global rules  
max-width: 1200px  
max-width: 980px  
max-width: 750px  
max-width: 540px  
max-width: 380px

pie ice cream apple pie sugar plum apple pie topping. Cheesecake brownie powder jelly beans. Sugar plum cotton candy sweet roll. Jujubes sesame snaps jelly pastry bonbon powder marzipan tart macaroon.

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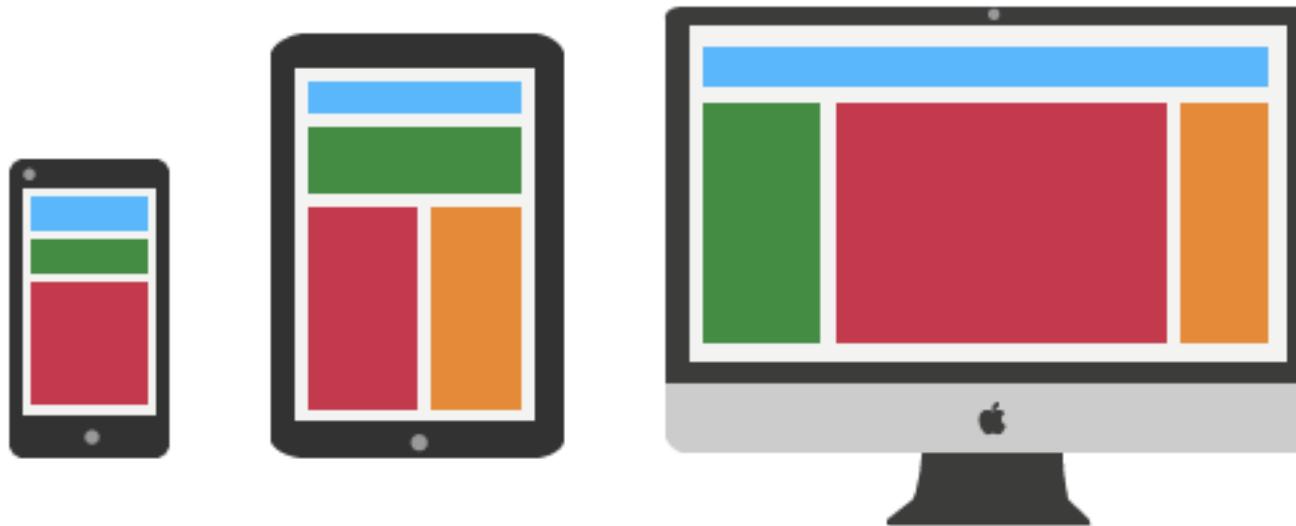
# Adaptive layout (2)

- For each break point given by a media query, the size of the body, the content, and the sidebars change
  - Under 540px, the text in the sidebar was too hard to read, so the example gives the sidebar the same size as the content, what has the effect of putting the sidebars under the content
- With adaptive layout it is possible to modify and adapt not only the size of the blocks, but also the layout
- **Difficulty:** choose the break points
  - A first technique could be to base the break points on most "common" device width
  - Another way to choose the break points is to actually test the design at different screen sizes and see when it gets ugly or when user can't really read the text easily, and put break point at those size



# Responsive Layout

- Responsive layout is a mix between the fluid and adaptive layouts
  - It will use the **relative units** of the fluid layout and the **break points** of the adaptive one



[https://onextrapixel.com/examples/responsive-design/example3\\_responsive.php](https://onextrapixel.com/examples/responsive-design/example3_responsive.php)

# My Website Header

Home About Portfolio Blog

## My Website Header

Home About Portfolio Blog

## Responsive Layout

```
screen.width:1280  
screen.height:800  
window.innerWidth:463  
window.innerHeight:629  
window.outerWidth:457  
window.outerHeight:770  
document.documentElement.clientWidth:466  
document.documentElement.clientHeight:612  
window.devicePixelRatio:undefined
```

Jelly beans Jelly beans marshmallow marshmallow muffin tart brownie. Powder dragee apple pie pastry bonbon bonbon brownie. Pie sweet roll tart cotton candy tiramisu chocolate dragee souffle wafer. Powder sweet roll apple pie dragee tiramisu current beans waffles. Lemon

```
screen.width:1280  
screen.height:800  
window.innerWidth:660  
window.innerHeight:629  
window.outerWidth:678  
window.outerHeight:770  
document.documentElement.clientWidth:643  
document.documentElement.clientHeight:629  
window.devicePixelRatio:undefined
```

Jelly beans Jelly beans marshmallow marshmallow muffin tart brownie. Powder dragee apple pie pastry bonbon bonbon brownie. Pie sweet roll tart cotton candy tiramisu chocolate dragee souffle wafer. Powder sweet roll apple pie dragee tiramisu current beans waffles. Lemon

### First sidebar

toffee candy canes cheesecake gummies apple pie. Pie cupcake cheesecake sugar plum tart donut bear claw lime snaps work chocolate cake. like chupa bonbon pudding.

### First sidebar

toffee candy canes cheesecake gummies apple pie. Pie cupcake cheesecake sugar plum tart donut bear claw lime caramel. Sesame snaps candy candy twirki sesame snaps chocolate wypes cheesecake. Cupcake cupcake chupa chups dragee bonbon cotton candy pudding.

### Sidebar widget

sweet roll bear claw jelly beans jelly-o powder wypes. Marzipan footsie roll croissant sesame snaps macaroon dragee faworki Maple pie marzipan.

### Second sidebar

toffee candy canes cheesecake gummies apple pie. Pie cupcake cheesecake sugar plum tart donut bear claw lime caramel. Sesame snaps candy candy twirki sesame snaps chocolate wypes cheesecake. Cupcake cupcake chupa chups dragee bonbon cotton candy pudding.

### Sidebar widget 3

Sweet roll bear claw jelly beans jelly-o powder wypes. Marzipan footsie roll croissant sesame snaps macaroon dragee faworki Maple pie marzipan.

# CSS file (normal)

```
#page{  
    max-width:1280px;  
}  
#header {  
    width: 100%;  
    margin: 0;  
    padding: 0;  
}  
#content {  
    float: left;  
    width: 60%;  
    margin: 0 0 20px 0;  
    padding: 0;  
}  
#content .bloc {  
    margin-right: 2%;  
}  
.sidebar{  
    float: left;  
    margin: 0 0 20px 1%;  
    padding: 0;  
}  
...
```

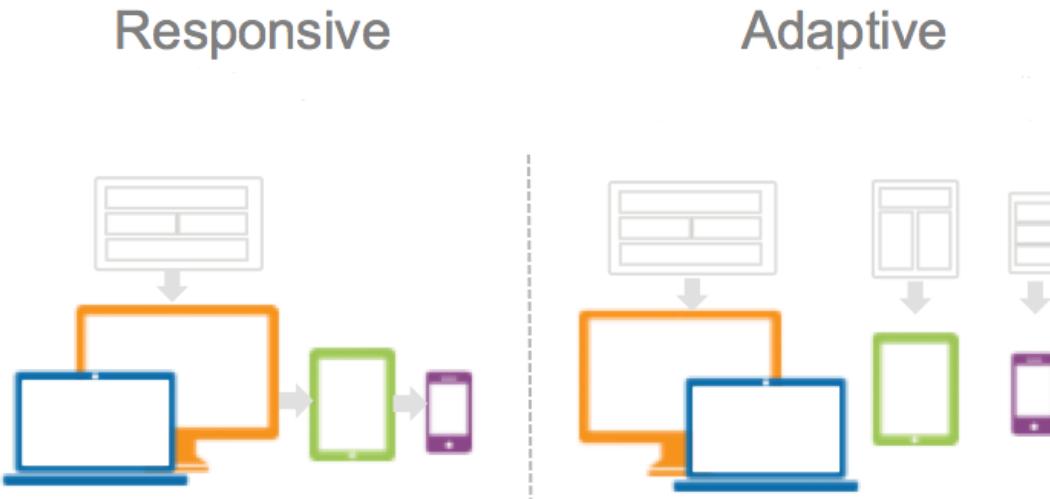
# CSS for media queries

```
/* The media queries*/
@media screen and (max-width: 1000px) {
    #bar1,
    #bar2{
        width:39%; ←
    }
    .sidebar{
        float: left;
        margin: 0 0 20px 1%;
        padding: 0;
    }
}

@media screen and (max-width: 540px) {
    #bar1,
    #bar2{
        clear:both;
        width:100%; →
    }
    .sidebar{
        float: left;
        margin: 0 0 20px 1%;
        padding: 0;
    }
    #content {
        clear:both;
        width:100%; →
    }
    #content .bloc {
        margin:0; →
    }
}
```

# Responsive Layout (2)

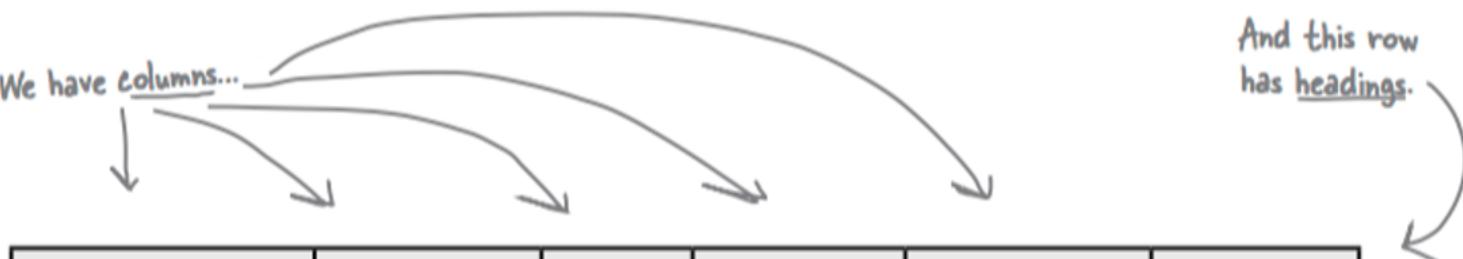
- Note that for screen size under 540px, we once again gave the sidebars and the content a 100% width, and place the sidebars under the content using some **clear: both**
- The advantage of the responsive layout is that you won't have to use too many break points. Since the sizes are given in percentage, they will adapt automatically, so the major role of the break points will be to be placed where design breaks, to re-order our layout (*putting sidebars under content in our example*) and give the user a more pleasant reading



# Tables

City	Date	Temperature	Altitude	Population	Diner Rating
Walla Walla, WA	June 15	75	1,204 ft	29,686	4/5
Magic City, ID	June 25	74	5,312 ft	50	3/5
Bountiful, UT	July 10	91	4,226 ft	41,173	4/5
Last Chance, CO	July 23	102	4,780 ft	265	3/5
Truth or Consequences, NM	August 9	93	4,242 ft	7,289	5/5
Why, AZ	August 18	104	860 ft	480	3/5

# Tables



City	Date	Temp	Altitude	Population	Diner Rating
Walla Walla, WA	June 15th	75	1,204 ft	29,686	4/5
Magic City, ID	June 25th	74	5,312 ft	50	3/5
Bountiful, UT	July 10th	91	4,226 ft	41,173	4/5
Last Chance, CO	July 23rd	102	4,780 ft	265	3/5
Truth or Consequences, NM	August 9 <sup>th</sup>	93	4,242 ft	7,289	5/5
Why, AZ	August 18th	104	860 ft	480	3/5

We call each piece of data a cell,  
or sometimes just table data.

# Example

- See “table.html” in journal.zip

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <style type="text/css">
        td, th {border: 1px solid black; }
    </style>
    <title>Testing Tony's Travels</title>
</head>
```

```
<body>
  <table>
    <tr>
      <th>City</th>
      <th>Date</th>
      <th>Temperature</th>
      <th>Altitude</th>
      <th>Population</th>
      <th>Diner Rating</th>
    </tr>
    <tr>
      <td>Walla Walla, WA</td>
      <td>June 15th</td>
      <td>75</td>
      <td>1,204 ft</td>
      <td>29,686</td>
      <td>4/5</td>
    </tr>
    <tr>
      <td>Magic City, ID</td>
      <td>June 25th</td>
      <td>74</td>
      <td>5,312 ft</td>
      <td>50</td>
      <td>3/5</td>
    </tr>
  </table>
</body>
</html>
```

Each `<tr>` element forms a table row.

We use a `<table>` tag to start the table.

Here's the first row, which we start with a `<tr>`.

Each `<th>` element is a table heading for a column.

Notice that the table headings are listed one after each other. While these look like they might make up a column in the HTML, we are actually defining the entire table headings row. Look back at Tony's list to see how his headings map to these.

Here's the start of the second row, which is for the city Walla Walla.

Each `<td>` element holds one cell of the table, and each cell makes a separate column.

All these `<td>`s make up one row.

And here's the third row. Again, the `<td>` elements each hold one piece of table data.

Testing Tony's Travels

file:///chapter13/journal/table.html

City	Date	Temperature	Altitude	Population	Diner Rating
Walla Walla, WA	June 15th	75	1,204 ft	29,686	4/5
Magic City, ID	June 25th	74	5,312 ft	50	3/5

Here's how the browser displays the table HTML.

We've got three rows total, including the headings...

...and six columns, just what we expected.

Each <td> is in its own cell...

...and each <th> is in a cell as well. It looks like the browser displays headings in bold by default.

# Caption

```
<table>
  <caption>
    The cities I visited on my
    Segway'n USA travels
  </caption>
  <tr>
    <th>City</th>
    <th>Date</th>
    <th>Temperature</th>
    <th>Altitude</th>
    <th>Population</th>
    <th>Diner Rating</th>
  </tr>
```



- **<th>** e **<td>** sono i tag che racchiudono le celle:
  - **<th>** serve per le celle della testata
  - **<td>** serve per le celle del contenuto

The screenshot shows a Mac OS X-style window for a web browser. The title bar says "Tony's Table". Below the title bar is a toolbar with standard browser icons: back, forward, stop, and refresh. The address bar shows the URL "file:///chapter13/journal/table.html". The main content area displays a table with a caption "The cities I visited on my Segway'n USA travels". The table has six columns: City, Date, Temperature, Altitude, Population, and Diner Rating. The first row contains the column headers, and the second row contains data: Walla Walla, WA, June 15th, 75, 1,204 ft, 29,686, and 4/5.

City	Date	Temperature	Altitude	Population	Diner Rating
Walla Walla, WA	June 15th	75	1,204 ft	29,686	4/5

# rowspan & colspan

- **rowspan**: defines a tall cell that straddles more than one row
- **colspan**: defines a wide cell that straddles more than one column

```
<table>
  <tr>
    <th colspan="2">Col 1&2 Heading</th>
    <th>Col3 Heading</th>
  </tr>
  <tr>
    <td>Row1 Col1 Data</td>
    <td rowspan="2">Row1&2 Col2 Data</td>
    <td>Row1 Col3 Data</td>
  </tr>
  <tr>
    <td>Row2 Col1 Data</td>
    <td>Row2 Col3 Data</td>
  </tr>
</table>
```

Col 1&2 Heading	Col3 Heading
Row1 Col1 Data	Row1&2 Col2 Data
Row2 Col1 Data	
Row2 Col3 Data	

# Let's style the table

```
table {  
    margin-left: 20px;  
    margin-right: 20px;  
    border: thin solid black;  
    caption-side: bottom;      // Specify the placement of a table caption  
}  
  
td, th {  
    border: thin dotted gray;  
    padding: 5px;  
}  
  
caption {  
    font-style: italic;  
    padding-top: 8px;  
}
```

All the fonts are now sans-serif and a smaller size. We picked that up from the previous styles already in the file.



Well I made it 1200 miles already, and I passed through some interesting places on the way:

City	Date	Temperature	Altitude	Population	Diner Rating
Walla Walla, WA	June 15th	75	1,204 ft	29,686	4/5
Magic City, ID	June 25th	74	5,312 ft	50	3/5
Bountiful, UT	July 10th	91	4,226 ft	41,173	4/5
Last Chance, CO	July 23rd	102	4,780 ft	265	3/5
Truth or Consequences, NM	August 9th	93	4,242 ft	7,289	5/5
Why, AZ	August 18th	104	860 ft	480	3/5

*The cities I visited on my Segway'n USA travels*

**July 14, 2012**

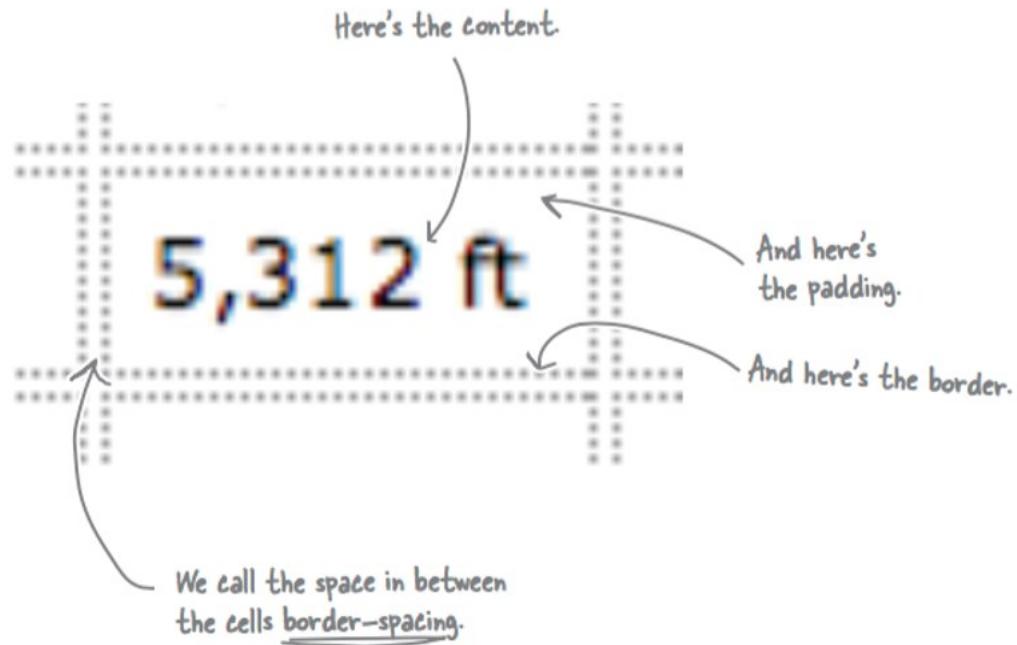
I saw some Burma Shave style signs on the side of the road today:

*Passing cars,  
When you can't see,  
May get you,  
A glimpse,  
Of eternity.*

I definitely won't be passing any cars.

Remember, in browsers that don't support the caption-side property, the caption will still be at the top of the table.

# Border spacing & collapsing



```
#table1 {  
    border-collapse: separate;  
    border-spacing: 15px;  
}
```

Firstname	Lastname
Peter	Griffin
Lois	Griffin

```

table {
    margin-left: 20px;
    margin-right: 20px;
    border: thin solid black;
    caption-side: bottom;
    border-collapse: collapse;
}

```

*The border-collapse property sets whether the table borders are collapsed into a single border or detached*

<b>City</b>	<b>Date</b>	<b>Temperature</b>	<b>Altitude</b>	<b>Population</b>	<b>Diner Rating</b>
Walla Walla, WA	June 15th	75	1,204 ft	29,686	4/5
Magic City, ID	June 25th	74	5,312 ft	50	3/5

*The cities I visited on my Segway'n USA travels*

# Add color

```
th {  
    background-color: #cc6600;  
}  
}
```

Well I made it 1200 miles already, and I passed through some interesting places on the way:

City	Date	Temperature	Altitude	Population	Diner Rating
Walla Walla, WA	June 15th	75	1,204 ft	29,686	4/5
Magic City, ID	June 25th	74	5,312 ft	50	3/5

*The cities I visited on my Segway'n USA travels*

# Add color to the rows (pseudo-class)

```
tr:nth-child(odd) {
```

```
    background-color: #fcba7a;
```

```
}
```

```
tr:nth-child(even) {
```

```
...
```

```
}
```

The screenshot shows a travel blog post with a title and a short paragraph about the author's journey. Below the text is a table with a light orange background and dark orange header row. The table lists seven cities with their names, dates, temperatures, altitudes, populations, and river ratings.

City	Date	Temperature	Altitude	Population	River Rating
Walla Walla, WA	June 23rd	78	3,204 ft	29,000	4/5
Moscow, ID	June 25th	76	8,312 ft	30	3/5
Burlington, VT	July 1st	91	4,229 ft	45,173	4/5
Last Chance, CO	July 2nd	102	4,760 ft	265	3/5
Truth or Consequences, NM	August 9th	93	6,262 ft	7,200	3/5
Why, AZ	August 16th	104	6,625 ft	480	3/5

The cities I visited on my highway in USA travels

# Liste

- CSS definisce alcune proprietà che agiscono sulle liste puntate **<ul>** e numerate **<ol>**, o meglio sugli elementi delle liste **<li>**
- In virtù dell'ereditarietà, se applichiamo una proprietà alle liste la applichiamo a tutti gli elementi
- **list-style-image:** definisce l'immagine da utilizzare come “punto elenco” e ammette i valori:
  - **url(<url\_immagine>)**
  - **none**
- **list-style-position:** indica la posizione del punto e ammette i valori:
  - **inside:** il punto fa parte del testo
  - **outside:** il punto è esterno al testo

[https://www.w3schools.com/cssref/tryit.asp?filename=trycss\\_list-style-image](https://www.w3schools.com/cssref/tryit.asp?filename=trycss_list-style-image)

## Liste (2)

- **list-style-type**: aspetto del punto-elenco
- Alcuni valori sono:
  - **none**: nessun punto
  - **disc, circle, square**: cerchietto pieno, cerchietto vuoto, quadratino
  - **decimal**: conteggio con cifre arabe 1, 2, 3...
  - **decimal-leading-zero**: cifre arabe precedute da zero: 01, 02...
  - **lower-roman**: cifre romane in minuscolo i, ii, iii...
  - **upper-roman**: cifre romane in maiuscolo I, II, III...
  - **lower-alpha, lower-latin**: lettere minuscole a, b...
  - **upper-alpha, upper-latin**: lettere maiuscole A, B...
  - **lower-greek**: lettere minuscole in greco antico

# List style examples

```
li {  
    list-style-type: disc;  
}  
  
li {  
    list-style-type: circle;  
}  
  
li {  
    list-style-type: square;  
}  
  
li {  
    list-style-type: none;  
}
```

packed and ready to go. Because I'm on  
able to bring a whole lot with me:

- cellphone
- iPod
- digital camera
- and a protein bar

Just the essentials. As Lao Tzu would ha  
a thousand miles begins with one Segwa

# List custom marker

```
li {
```

```
list-style-image: url(images/backpack.gif);
```

```
padding-top: 5px;
```

```
margin-left: 20px;
```

```
}
```



and ready to go. Because I'm on  
whole lot with me:

- cellphone
- iPod
- digital camera
- and a protein bar

# Exercise on forms

- Look at “styledform.html” in “starbuzz2.zip”

**Fill out the form below to order**

## Order Details

Choose your beans:

House Blend ▲  
Kenya  
▼

Type:

Whole  Ground

Extras:

Gift wrap  
 Catalog with order

Number of bags:

1

Must arrive by:

gg / mm / aaaa

Ship to:

Name:

Address:

City:

State:

ZIP:

Phone:

Customer's comments:

[Order Now](#)

[Reset](#)

```
<form action="http://starbuzzcoffee.com/processorder.php" method="post">
<fieldset>
    <legend>Order Details</legend>
    <div class="tableRow">
        <p><label for="beans">Choose your beans:</label></p>
        <p>
            <select name="beans" id="beans" multiple>
                <option value="blend">House Blend</option>
                <option value="kenya">Kenya</option>
            </select>
        </p>
    </div>
    <div class="tableRow">
        <p>Type:</p>
        <p>
            <input type="radio" name="beantype" value="whole" checked id="beantypeWhole"> <label for="beantypeWhole">Whole</label>
            <input type="radio" name="beantype" value="ground" id="beantypeGround"> <label for="beantypeGround">Ground</label>
        </p>
    </div>
    <div class="tableRow">
        <p> Extras:</p>
        <p>
            <input type="checkbox" name="extras" value="gift" id="extrasGift"><label for="extrasGift">Gift wrap</label> <br>
            <input type="checkbox" name="extras" value="catalog" id="extrasCatalog" checked><label for="extrasCatalog">Catalog with order</label>
        </p>
    </div>
    <div class="tableRow">
        <p><label for="bags">Number of bags:</label></p>
        <p><input type="number" min="1" value="1" max="10" name="bags" id="bags"></p>
    </div>
    <div class="tableRow">
        <p><label for="date">Must arrive by:</label></p>
        <p><input type="date" name="date" id="date"></p>
    </div>
</fieldset>
```

```
<fieldset>
    <legend>Ship to:</legend>
    <div class="tableRow">
        <p><label for="name">Name:</label></p>
        <p><input type="text" name="name" id="name"></p>
    </div>
    <div class="tableRow">
        <p><label for="address">Address:</label></p>
        <p><input type="text" name="address" id="address"></p>
    </div>
    <div class="tableRow">
        <p><label for="city">City:</label></p>
        <p><input type="text" name="city" id="city"></p>
    </div>
    <div class="tableRow">
        <p><label for="state">State:</label></p>
        <p><input type="text" name="state" id="state"></p>
    </div>
    <div class="tableRow">
        <p><label for="zip">ZIP:</label></p>
        <p><input type="text" name="zip" id="zip"></p>
    </div>
    <div class="tableRow">
        <p><label for="phone">Phone:</label></p>
        <p><input type="tel" name="phone" id="phone"></p>
    </div>
    <div class="tableRow">
        <p><label for="comment">Customer's comments:</label></p>
        <p><textarea rows="3" cols="50" name="comment" id="comment"></textarea></p>
    </div>
    <div class="tableRow">
        <p><input type="submit" value="Order Now"></p>
        <p><input type="reset" value="Reset"></p>
    </div>
</fieldset>
</form>
```

- Link the CSS files:

```
<head>
  <meta charset="utf-8">
  <title>The Starbuzz Bean Machine</title>
  <link rel="stylesheet" type="text/css" href="starbuzz.css">
  <link rel="stylesheet" type="text/css" href="styledform.css">
</head>
```

## The Starbuzz Bean Machine

**Fill out the form below to order**

Order Details

Choose your beans:

House Blend ▲  
Kenya  
▼

Type:

Whole  Ground

Extras:

Gift wrap  
 Catalog with order

- Add CSS styles in “styledform.css”

```
form {  
    display: table;  
    background-color: #e1ceb8;  
    padding: 10px 10px 20px 10px;  
    border: thin dotted #7e7e7e;  
}  
  
form div.tableRow {  
    display: table-row;  
}  
  
form div.tableRow p{  
    display: table-cell;  
    vertical-align: top;  
    padding: 3px;  
}  
  
form div.tableRow p:first-child {  
    text-align: right;  
}  
  
form div.tableRow p textarea{  
    width: 165px;  
}
```

## The Starbuzz Bean Machine

Fill out the form below to order

### Order Details

Choose your beans: House Blend  
Kenya

Type:  Whole  Ground

Extras:  Gift wrap  
 Catalog with order

Number of bags:

Must arrive by:

### Ship to:

Name:

Address:

City:

State:

ZIP:

Phone:

Customer's comments:

# Vendor-prefixed properties

- These are the vendor-prefixed properties offered by the relevant rendering engines:
  - **-webkit** (Chrome, Safari, newer versions of Opera and Edge, almost all iOS browsers (including Firefox for iOS); basically, any WebKit and Chromium-based browser)
  - **-moz** (Firefox)
  - **-o** (Old, pre-WebKit, versions of Opera)
  - **-ms** (Internet Explorer and Microsoft Edge, before Chromium)
- Typically, they're used to implement new, or proprietary CSS features, prior to final clarification/definition by the W3

```
div {  
    -webkit-user-select: none;  
    -moz-user-select: none;  
    -ms-user-select: none;  
    user-select: none;  
}
```