

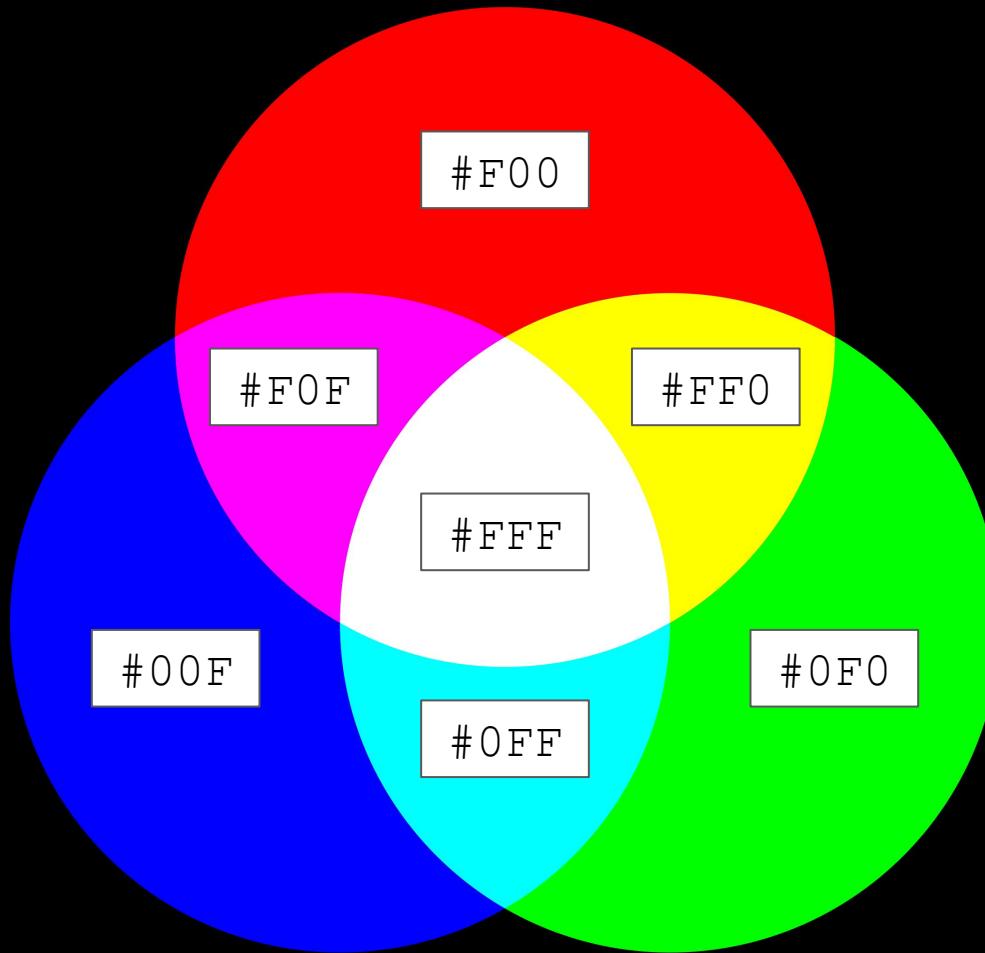
IDs, Classes div Tag, CSS float

*ITP 104
Fall 2018*

CSS Color Formats

1. Color Name
 - o 140 names.
2. RGB
 - o Three numbers 0 - 255.
3. HEX
 - o Three double-digit numbers 00 - FF.
 - o Repeating double-digits can be replaced with a single digit.

```
color: black;  
color: white;  
color: red;  
color: green;  
color: blue;  
  
color: rgb( 0, 0, 0 );  
color: rgb(255, 255, 255 );  
color: rgb(255, 0, 0 );  
color: rgb( 0, 255, 0 );  
color: rgb( 0, 0, 255 );  
  
color: #000000;           color: #000;  
color: #FFFFFF;           color: #FFF;  
color: #FF0000;           color: #F00;  
color: #00FF00;           color: #0F0;  
color: #0000FF;           color: #00F;
```



id Attribute

Uniquely names an HTML element on the page.

All ID values must be unique per page.

Naming rules:

- Must start with a letter, underscore (_), or dash (-),
- Can only contain letters, numbers, underscores, or dashes.

```
<!DOCTYPE html>
<html>
<head>
    <title>Page Title</title>
</head>
<body>
    <p id="example-id">Paragraph 1</p>
    <p id="example-id">Paragraph 2</p>
</body>
</html>
```

Invalid: Same ID values.

```
<!DOCTYPE html>
<html>
<head>
    <title>Page Title</title>
</head>
<body>
    <p id="example-id">Paragraph 1</p>
    <p id="different-id">Paragraph 2</p>
</body>
</html>
```

Valid: Different ID Values.

id Attribute

IDs are often used to apply styles to a single element.

CSS Selector Syntax: #id-name

Result:

This is the first paragraph.

This is the second paragraph.

This is the third paragraph.

```
<!DOCTYPE html>
<html>
<head>
  <title>Page Title</title>
  <style>
    p {
      background-color: lightblue;
    }
    #first-p {
      background-color: yellow;
    }
  </style>
</head>
<body>
  <p id="first-p">This is the first paragraph.</p>
  <p>This is the second paragraph.</p>
  <p>This is the third paragraph.</p>
</body>
</html>
```

class Attribute

Names one or more elements on the page.

Naming rules: same as for `id` attribute.

CSS Selector Syntax: `.class-name`

Result:

This is the first paragraph.

This is the second paragraph.

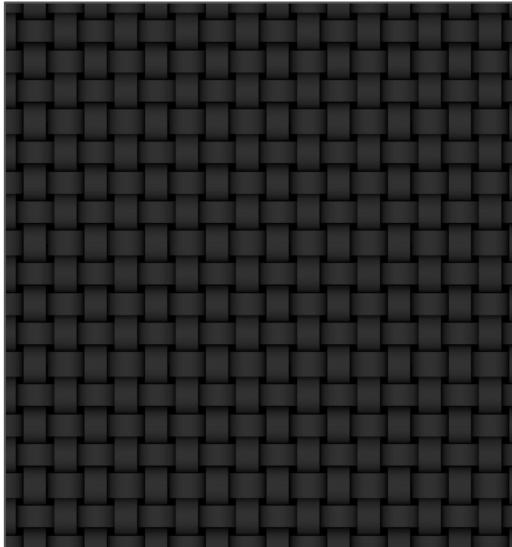
This is the third paragraph.

```
<!DOCTYPE html>
<html>
<head>
  <title>Page Title</title>
  <style>
    p {
      background-color: lightblue;
    }
    .example-class {
      background-color: yellow;
    }
  </style>
</head>
<body>
  <p>This is the first paragraph.</p>
  <p class="example-class">This is the second paragraph.</p>
  <p class="example-class">This is the third paragraph.</p>
</body>
</html>
```

Background Images

Specify images to be used as background of an element.

Result:

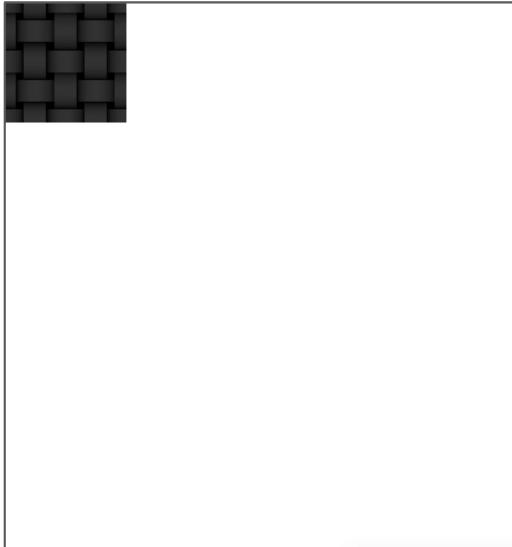


```
body {  
  background-image: url('tile.jpg');  
}
```

Background Images

Specify images to be used as background of an element.

Result:

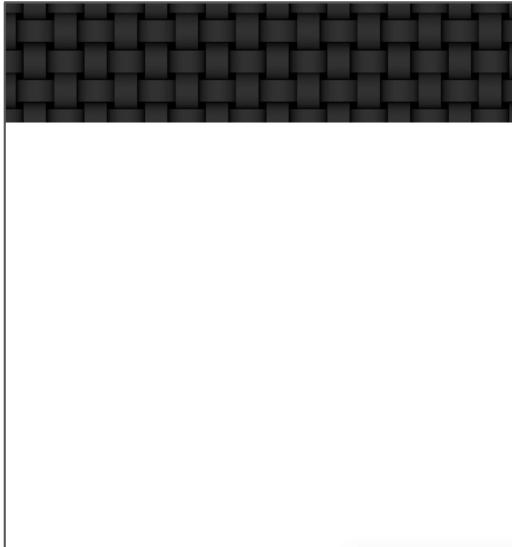


```
body {  
  background-image: url('tile.jpg');  
  background-repeat: no-repeat;  
}
```

Background Images

Specify images to be used as background of an element.

Result:

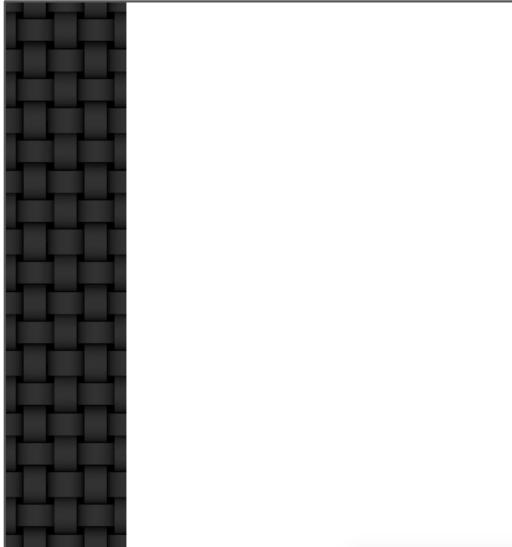


```
body {  
  background-image: url('tile.jpg');  
  background-repeat: no-repeat;  
  background-repeat: repeat-x;  
}
```

Background Images

Specify images to be used as background of an element.

Result:



```
body {  
background-image: url('tile.jpg');  
background-repeat: no-repeat;  
background-repeat: repeat-x;  
background-repeat: repeat-y;  
}
```

<div> Tag

Container used to divide or group elements on a page.

Result:

Lore ipsum dolor

Consectetur adipiscing elit. Quisque et porta odio, vel condimentum sem. Nunc facilisis diam et neque fringilla, ac efficitur lectus sodales. Morbi cursus ac eros vitae condimentum.

Etiam placerat

Elit a vulputate tincidunt, nisi dui iaculis neque, ac gravida mi libero eget diam. Sed risus diam, ultricies ut scelerisque a, dignissim in lacus. Sed vestibulum lorem id pulvinar egestas.

<**h2h2**>

<**p**>Consectetur adipiscing elit. Quisque et porta odio, vel condimentum sem. Nunc facilisis diam et neque fringilla, ac efficitur lectus sodales. Morbi cursus ac eros vitae condimentum.</**p**>

<**h2**>Etiam placerat</**h2**>

<**p**>Elit a vulputate tincidunt, nisi dui iaculis neque, ac gravida mi libero eget diam. Sed risus diam, ultricies ut scelerisque a, dignissim in lacus. Sed vestibulum lorem id pulvinar egestas.</**p**>

<div> Tag

Container used to divide or group elements on a page.

Result:

Lore ipsum dolor

Consectetur adipiscing elit. Quisque et porta odio, vel condimentum sem. Nunc facilisis diam et neque fringilla, ac efficitur lectus sodales. Morbi cursus ac eros vitae condimentum.

Etiam placerat

Elit a vulputate tincidunt, nisi dui iaculis neque, ac gravida mi libero eget diam. Sed risus diam, ultricies ut scelerisque a, dignissim in lacus. Sed vestibulum lorem id pulvinar egestas.

```
<div> ←  
<h2>Lorem ipsum dolor</h2>  
<p>Consectetur adipiscing elit. Quisque et porta odio, vel  
condimentum sem. Nunc facilisis diam et neque fringilla, ac  
efficitur lectus sodales. Morbi cursus ac eros vitae  
condimentum.</p>  
</div> ←  
<div> ←  
<h2>Etiam placerat</h2>  
<p>Elit a vulputate tincidunt, nisi dui iaculis neque, ac  
gravida mi libero eget diam. Sed risus diam, ultricies ut  
scelerisque a, dignissim in lacus. Sed vestibulum lorem id  
pulvinar egestas.</p>  
</div> ←
```

USC Homepage Layout

1. Header

The screenshot shows the official website of the University of Southern California (USC). The header features the USC logo and navigation links for students, alumni, parents, faculty, employees, and sports. A search bar and links for popular links and site map are also present. The main content area includes a large banner image of a library, a headline about research innovation, and three news snippets. On the right side, there's a sidebar with links for exploring USC, campaign news, events calendar, USC news, journalists, maps, and visiting the university.

header navigation: students, alumni, parents, faculty, employees, sports, popular links, site map

main banner: An innovative push for research

news snippets (left): AI helps researcher deliver HIV info to homeless youth

news snippets (middle): Incoming scholar's path to USC includes an escape from Syria

news snippets (right): Drinking coffee — regular or decaf — could lead to longer life

right sidebar: JOIN US IN TOKYO! USC GLOBAL CONFERENCE 2017, Explore USC, Campaign for USC, Events Calendar, USC News, For Journalists, USC Maps, Visit USC

bottom left sidebar: Currently at USC, Campus Locations, TommyCam, USC Photo Gallery

bottom right sidebar: Health Sciences Campus (Map), University Park Campus (Map), Vis a USC, Careers at USC, Office Directory, Campus Safety

USC Homepage Layout

1. Header

2. Main content

The screenshot shows the official website of the University of Southern California (USC). At the top, there's a dark red header bar with the USC logo and the text "University of Southern California". Below the header, a navigation menu includes links for "about", "administration", "admission", "academics", "research", "patient care", "community", "arts", and "global initiatives". The main content area features a large banner image of a library interior with people studying. Overlaid on the banner is a text box that reads "An innovative push for research" followed by a brief description of a USC Libraries initiative. Below the banner are several smaller news snippets with images and titles, such as "USC helps researcher deliver HIV info to homeless youth", "Incoming scholar's path to USC includes an escape from Syria", and "Drinking coffee... regular or decaf... could lead to longer life". To the right of the main content area is a sidebar with various links: "JOIN US IN TOKYO! USC GLOBAL CONFERENCE 2017", "Explore USC", "Campaign for USC", "Events Calendar", "USC News", "For Journalists", "USC Maps", and "Visit USC".

This section of the page provides information about current events and campus locations. On the left, there's a "Currently at USC" section featuring a night photograph of a university plaza with lights and a "TommyCam" link. On the right, there are two "Campus Locations" sections: "University Park Campus" (with a map) and "Health Sciences Campus" (with a map). Both sections provide addresses and contact numbers. At the bottom, there are links for "To Report an Emergency", "Call the USC Department of Public Safety", and "Health Sciences Campus". Social media icons for Facebook, Instagram, Twitter, YouTube, and LinkedIn are also present.

USC Homepage Layout

1. Header
2. Main content
3. Footer

The screenshot shows the official website of the University of Southern California (USC). At the top, there's a dark red header bar with the USC logo and the text "University of Southern California". Below the header, a large banner image depicts a library interior with rows of bookshelves and people studying at tables. A red overlay box on the left side of the banner contains the text "An innovative push for research" and a brief description about a USC Libraries initiative. To the right of the banner, there's a sidebar with various links: "JOIN US IN TOKYO! USC GLOBAL CONFERENCE 2017", "Explore USC", "Campaign for USC", "Events Calendar", "USC News", "For Journalists", "USC Maps", and "Visit USC". The main content area below the banner features several news stories with images and "Read the full story at USC News" buttons.

The footer section of the USC website has a green background. It includes a "Currently at USC" section showing a night view of a campus building, a "Campus Locations" section listing "University Park Campus" and "Health Sciences Campus" with their addresses and phone numbers, and a "To Report an Emergency" section with contact information for the USC Department of Public Safety. Social media icons for Facebook, Instagram, Twitter, and LinkedIn are located in the bottom right corner.

USC Homepage Layout

1. Header
2. Main content
3. Footer
4. Banner

The screenshot displays the official website of the University of Southern California (USC). At the top, a dark red header bar contains the USC logo and the text "University of Southern California". Below the header, a navigation menu includes links for students, alumni, parents, faculty, employees, sports, and "popular links" which lead to "Search USC". The main content area features a large banner image of a library interior with people working at desks. Overlaid on the banner is the text "An innovative push for research" and a subtitle: "A USC Libraries initiative couples scholars in three pilot areas: history of L.A. and the West, Holocaust and genocide studies, and LGBTQ history." Below the banner are four news cards with images and titles: "AI helps researcher deliver HIV info to homeless youth", "Incoming scholar's path to USC includes an escape from Syria", "Drinking coffee — regular or decaf — could lead to longer life", and "Read the full story at USC News". To the right of the news cards is a sidebar with links to "JOIN US IN TOKYO! USC GLOBAL CONFERENCE 2017", "Explore USC", "Campaign for USC", "Events Calendar", "USC News", "For Journalists", "USC Maps", and "Visit USC". At the bottom, there are sections for "Currently at USC" (with a "TommyCam" video), "Campus Locations" (listing University Park Campus and Health Sciences Campus with their addresses and phone numbers), and "To Report an Emergency" (with links to Public Safety and the Photo Gallery).

students alumni parents faculty employees sports [popular links](#) [Search USC](#)

about administration admission academics research patient care community arts global initiatives

An innovative push for research

A USC Libraries initiative couples scholars in three pilot areas: history of L.A. and the West, Holocaust and genocide studies, and LGBTQ history.

AI helps researcher deliver HIV info to homeless youth

Incoming scholar's path to USC includes an escape from Syria

Drinking coffee — regular or decaf — could lead to longer life

Read the full story at USC News

Read the full story at USC News

Read the full story at USC News

JOIN US IN TOKYO!
USC GLOBAL CONFERENCE 2017

Explore USC

Campaign for USC

Events Calendar

USC News

For Journalists

USC Maps

Visit USC

Currently at USC

At 10:06 am on Sunday, July 16, 2017, it's 73° and mostly clear in Los Angeles.

Summer classes are in session. If you're taking a summer class, check its [session code](#), since start and end dates vary.

To Report an Emergency

Call the USC Department of Public Safety
University Park Campus:
213-740-4321
Health Sciences Campus:
323-442-1000

TommyCam

USC Photo Gallery

Campus Locations

University Park Campus ([Map](#))
University of Southern California
Los Angeles, CA 90089
213-740-2311

Health Sciences Campus ([Map](#))
University of Southern California
Los Angeles, CA 90033
323-442-2000

Visa USC

Careers at USC

Office Directory

Campus Safety

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USC Homepage Layout

1. Header
2. Main content
3. Footer
4. Banner
5. Content Columns

The screenshot shows the official website of the University of Southern California (USC). At the top, there's a dark red header bar with the USC logo and the text "University of Southern California". Below the header, a large banner image of a library interior is displayed. Overlaid on this image is a red box containing the text "An innovative push for research" and a smaller text block about a USC Libraries initiative. To the right of the banner, there's a grid of four news cards, each with a small image and a headline. Below these cards, there's a sidebar with various links like "Explore USC", "Campaign for USC", "Events Calendar", "USC News", "For Journalists", "USC Maps", and "Visit USC". At the bottom of the page, there are sections for "Currently at USC" (with a weather forecast and links to TommyCam and the photo gallery), "Campus Locations" (listing University Park Campus and Health Sciences Campus with their addresses and phone numbers), and social media links for Facebook, Instagram, Twitter, YouTube, and LinkedIn.

students alumni parents faculty employees sports [popular links](#) [Search USC](#)

University of Southern California

about administration admission academics research patient care community arts global initiatives

An innovative push for research

A USC Libraries initiative couples curators with scholars in three pilot areas: history of L.A. and the West, Holocaust and genocide studies, and LGBTQ history.

USC helps researcher deliver HIV info to homeless youth

Associate Professor Eric Rice needed a better way to identify peer-to-peer educators, so he teamed up with engineering Professor Milind Tambe to develop artificial intelligence that picks out the peer leaders based on the extent of their social networks.

Read the full story at [USC News](#)

Coming scholar's path to USC includes an escape from Syria

Jordan Boston was born in Syria and mostly grew up in Damascus. Lana Briff has big ideas and a special calling inspired by what she's experienced firsthand. She'll arrive on the University Park Campus next month with a future in biological research in mind.

Read the full story at [USC News](#)

Drinking coffee — regular or decaf — could lead to longer life

Here's another reason to start the day with a cup of joe: A new study finds people who drink coffee appear to live longer. "If you like to drink coffee, drink up!" If you're not a coffee drinker, then you need to consider if you should start," says V. Wendy Setiawan of the Keck School of Medicine of USC, senior author of the study.

Read the full story at [USC News](#)

JOIN US IN TOKYO! USC GLOBAL CONFERENCE 2017

Explore USC

Campaign for USC

Events Calendar

USC News

For Journalists

USC Maps

Visit USC

Currently at USC

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TommyCam

USC Photo Gallery

Campus Locations

University Park Campus ([Map](#))
University of Southern California
Los Angeles, CA 90089
213-740-2311

Health Sciences Campus ([Map](#))
University of Southern California
Los Angeles, CA 90033
323-442-2000

Visit USC

Careers at USC

Office Directory

Campus Safety

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CSS float

Positions elements and creates page layouts.

Allows text to wrap around floating elements.

Result:



USC

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi euismod non purus eget tincidunt. Suspendisse sed nisl id sem luctus elementum vitae in elit. Fusce luctus enim iaculis orci fringilla facilisis.

Etiam fermentum lacinia massa et volutpat. Sed ac tempor lectus, a accumsan magna. Sed aliquam ligula a cursus scelerisque.

Phasellus at elit consectetur, vehicula magna id, aliquet dui. Integer id eros est. Nullam rhoncus accumsan metus quis sollicitudin.

Ut sollicitudin diam a dui aliquam molestie. Nunc non libero dignissim, suscipit dui eget, luctus odio. Cras nulla tellus, dictum facilisis turpis vel, tempor aliquet nulla.

Nulla odio lectus, aliquam non ex ac, porttitor laoreet felis. Aliquam at enim gravida, finibus ante in, porttitor massa.

<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi euismod non purus eget tincidunt. Suspendisse sed nisl id sem luctus elementum vitae in elit. Fusce luctus enim iaculis orci fringilla facilisis.</p>

<p>Etiam fermentum lacinia massa et volutpat. Sed ac tempor lectus, a accumsan magna. Sed aliquam ligula a cursus scelerisque.</p>

<p>Phasellus at elit consectetur, vehicula magna id, aliquet dui. Integer id eros est. Nullam rhoncus accumsan metus quis sollicitudin.

</p>

<p>Ut sollicitudin diam a dui aliquam molestie. Nunc non libero dignissim, suscipit dui eget, luctus odio. Cras nulla tellus, dictum facilisis turpis vel, tempor aliquet nulla.</p>

<p>Nulla odio lectus, aliquam non ex ac, porttitor laoreet felis. Aliquam at enim gravida, finibus ante in, porttitor massa.</p>

CSS float

Positions elements and creates page layouts.

Allows text to wrap around floating elements.

Result:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi euismod non purus eget tincidunt. Suspendisse sed nisl id sem luctus elementum vitae in elit. Fusce luctus enim iaculis orci fringilla facilisis.



Etiam fermentum lacinia massa et volutpat. Sed ac tempor lectus, a accumsan magna. Sed aliquam ligula a cursus scelerisque.

Phasellus at elit consectetur, vehicula magna id, aliquet dui. Integer id eros est. Nullam rhoncus accumsan metus quis sollicitudin.

Ut sollicitudin diam a dui aliquam molestie. Nunc non libero dignissim, suscipit dui eget, luctus odio. Cras nulla tellus, dictum facilisis turpis vel, tempor aliquet nulla.

Nulla odio lectus, aliquam non ex ac, porttitor laoreet felis. Aliquam at enim gravida, finibus ante in, porttitor massa.

```
img {  
    float: left;  
}
```

```
<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi euismod non purus eget tincidunt. Suspendisse sed nisl id sem luctus elementum vitae in elit. Fusce luctus enim iaculis orci fringilla facilisis.</p>
```

```

```

```
<p>Etiam fermentum lacinia massa et volutpat. Sed ac tempor lectus, a accumsan magna. Sed aliquam ligula a cursus scelerisque.</p>
```

```
<p>Phasellus at elit consectetur, vehicula magna id, aliquet dui. Integer id eros est. Nullam rhoncus accumsan metus quis sollicitudin.</p>
```

```
<p>Ut sollicitudin diam a dui aliquam molestie. Nunc non libero dignissim, suscipit dui eget, luctus odio. Cras nulla tellus, dictum facilisis turpis vel, tempor aliquet nulla.</p>
```

```
<p>Nulla odio lectus, aliquam non ex ac, porttitor laoreet felis. Aliquam at enim gravida, finibus ante in, porttitor massa.</p>
```

CSS float

Positions elements and creates page layouts.

Allows text to wrap around floating elements.

Result:



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi euismod non purus eget tincidunt. Suspendisse sed nisl id sem luctus elementum vitae in elit. Fusce luctus enim iaculis orci fringilla facilisis.

Etiam fermentum lacinia massa et volutpat. Sed ac tempor lectus, a accumsan magna. Sed aliquam ligula a cursus scelerisque.

Phasellus at elit consectetur, vehicula magna id, aliquet dui. Integer id eros est. Nullam rhoncus accumsan metus quis sollicitudin.

Ut sollicitudin diam a dui aliquam molestie. Nunc non libero dignissim, suscipit dui eget, luctus odio. Cras nulla tellus, dictum facilisis turpis vel, tempor aliquet nulla.

Nulla odio lectus, aliquam non ex ac, porttitor laoreet felis. Aliquam at enim gravida, finibus ante in, porttitor massa.

```
img {  
    float: left;  
    float: right; ←  
}
```

```
<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi euismod non purus eget tincidunt. Suspendisse sed nisl id sem luctus elementum vitae in elit. Fusce luctus enim iaculis orci fringilla facilisis.</p>
```

```

```

```
<p>Etiam fermentum lacinia massa et volutpat. Sed ac tempor lectus, a accumsan magna. Sed aliquam ligula a cursus scelerisque.</p>
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```
<p>Phasellus at elit consectetur, vehicula magna id, aliquet dui. Integer id eros est. Nullam rhoncus accumsan metus quis sollicitudin.</p>
```

```
<p>Ut sollicitudin diam a dui aliquam molestie. Nunc non libero dignissim, suscipit dui eget, luctus odio. Cras nulla tellus, dictum facilisis turpis vel, tempor aliquet nulla.</p>
```

```
<p>Nulla odio lectus, aliquam non ex ac, porttitor laoreet felis. Aliquam at enim gravida, finibus ante in, porttitor massa.</p>
```

Margins & Paddings

Margins create space outside element's borders.

Paddings create space within element's borders.

Result:

```
    <div>
      Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi
      euismod non purus eget tincidunt. Suspendisse sed nisl id sem
      luctus elementum vitae in elit. Fusce luctus enim iaculis orci
      fringilla facilisis.
    </div>
```

```
<div>
```

```
  Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi
  euismod non purus eget tincidunt. Suspendisse sed nisl id sem
  luctus elementum vitae in elit. Fusce luctus enim iaculis orci
  fringilla facilisis.
```

```
</div>
```

Margins & Paddings

Margins create space outside element's borders.

Paddings create space within element's borders.

Result:

```
div {  
  margin: 50px;  
}  
  
.....  
  
<div>  
  Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi euismod non purus eget tincidunt. Suspendisse sed nisl id sem luctus elementum vitae in elit. Fusce luctus enim iaculis orci fringilla facilisis.  
</div>
```

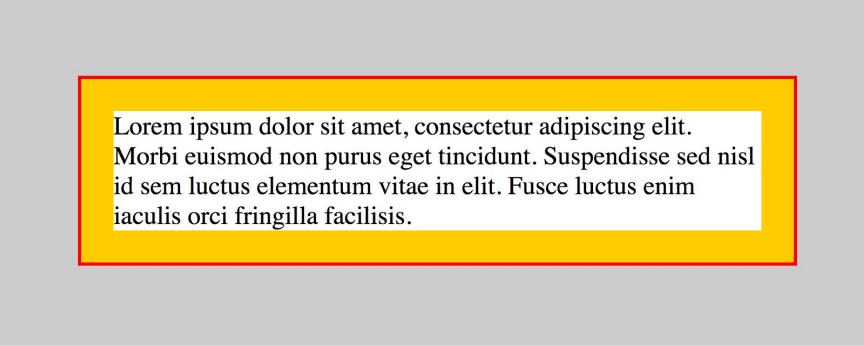
© 2018 Zune Nguyen

Margins & Paddings

Margins create space outside element's borders.

Paddings create space within element's borders.

Result:



Lorem ipsum dolor sit amet, consectetur adipiscing elit.
 Morbi euismod non purus eget tincidunt. Suspendisse sed nisl id sem
 luctus elementum vitae in elit. Fusce luctus enim iaculis orci
 fringilla facilisis.

```
div {  
  margin: 50px;  
  padding: 20px;  
}
```

```
<div>
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Morbi
 euismod non purus eget tincidunt. Suspendisse sed nisl id sem
 luctus elementum vitae in elit. Fusce luctus enim iaculis orci
 fringilla facilisis.

```
</div>
```

Browser Developer Tools

Useful for debugging and testing.

