

Chapter 14: Floats

Section 14.1: Float an Image Within Text

The most basic use of a float is having text wrap around an image. The below code will produce two paragraphs and an image, with the second paragraph flowing around the image. Notice that it is always content *after* the floated element that flows around the floated element.

HTML:

```
<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer nec odio. Praesent libero. Sed cursus ante dapibus diam. Sed nisi. Nulla quis sem at nibh elementum imperdiet. Duis sagittis ipsum. Praesent mauris. Fusce nec tellus sed augue semper porta. Mauris massa. Vestibulum lacinia arcu eget nulla. </p>



<p>Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Curabitur sodales ligula in libero. Sed dignissim lacinia nunc. Curabitur tortor. Pellentesque nibh. Aenean quam. In scelerisque sem at dolor. Maecenas mattis. Sed convallis tristique sem. Proin ut ligula vel nunc egestas porttitor. Morbi lectus risus, iaculis vel, suscipit quis, luctus non, massa. Fusce ac turpis quis ligula lacinia aliquet. </p>
```

CSS:

```
img {
  float:left;
  margin-right:1rem;
}
```

This will be the output

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer nec odio. Praesent libero. Sed cursus ante dapibus diam. Sed nisi. Nulla quis sem at nibh elementum imperdiet. Duis sagittis ipsum. Praesent mauris. Fusce nec tellus sed augue semper porta. Mauris massa. Vestibulum lacinia arcu eget nulla.



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[Codepen Link](#)

Section 14.2: clear property

The clear property is directly related to floats. Property Values:

- none - Default. Allows floating elements on both sides
- left - No floating elements allowed on the left side
- right - No floating elements allowed on the right side
- both - No floating elements allowed on either the left or the right side
- initial - Sets this property to its default value. Read about initial
- inherit - Inherits this property from its parent element. Read about inherit

```
<html>
<head>
<style>
img {
  float: left;
```

```
}  
  
p.clear {  
    clear: both;  
}  
  
</style>  
</head>  
<body>  
  
  
<p>Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum Lorem  
ipsum Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum </p>  
<p class="clear">Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum  
Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum Lorem ipsum </p>  
  
</body>  
</html>
```

Section 14.3: Clearfix

The clearfix hack is a popular way to contain floats (N. Gallagher aka @necolas)

Not to be confused with the `clear` property, `clearfix` is a *concept* (that is also related to floats, thus the possible confusion). To *contain floats*, you've to add `.cf` or `.clearfix` class on the container (**the parent**) and style this class with a few rules described below.

3 versions with slightly different effects (sources : [A new micro clearfix hack](#) by N. Gallagher and [clearfix reloaded](#) by T. J. Koblenz):

Clearfix (with top margin collapsing of contained floats still occurring)

```
.cf:after {
    content: "";
    display: table;
}

.cf:after {
    clear: both;
}
```

Clearfix also preventing top margin collapsing of contained floats

```
/**
 * For modern browsers
 * 1. The space content is one way to avoid an Opera bug when the
 *    contenteditable attribute is included anywhere else in the document.
 *    Otherwise it causes space to appear at the top and bottom of elements
 *    that are clearfixed.
 * 2. The use of `table` rather than `block` is only necessary if using
 *    `:before` to contain the top-margins of child elements.
 */
.cf:before,
.cf:after {
    content: " "; /* 1 */
    display: table; /* 2 */
}

.cf:after {
    clear: both;
}
```

```
}
```

Clearfix with support of outdated browsers IE6 and IE7

```
.cf:before,  
.cf:after {  
    content: " ";  
    display: table;  
}  
  
.cf:after {  
    clear: both;  
}  
  
/**  
 * For IE 6/7 only  
 * Include this rule to trigger hasLayout and contain floats.  
 */  
.cf {  
    *zoom: 1;  
}
```

[Codepen showing clearfix effect](#)

Other resource: [Everything you know about clearfix is wrong](#) (clearfix and BFC - Block Formatting Context while hasLayout relates to outdated browsers IE6 maybe 7)

Section 14.4: In-line DIV using float

The div is a block-level element, i.e it occupies the whole of the page width and the siblings are place one below the other irrespective of their width.

```
<div>  
    <p>This is DIV 1</p>  
</div>  
<div>  
    <p>This is DIV 2</p>  
</div>
```

The output of the following code will be



This is DIV 1

This is DIV 2

We can make them in-line by adding a float css property to the div.

HTML:

```
<div class="outer-div">
  <div class="inner-div1">
    <p>This is DIV 1</p>
  </div>
  <div class="inner-div2">
    <p>This is DIV 2</p>
  </div>
</div>
```

CSS

```
.inner-div1 {
  width: 50%;
  margin-right:0px;
  float:left;
  background : #337ab7;
  padding:50px 0px;
}

.inner-div2 {
  width: 50%;
  margin-right:0px;
  float:left;
  background : #dd2c00;
  padding:50px 0px;
}

p {
  text-align:center;
}
```

This is DIV 1

This is DIV 2

[Codepen Link](#)

Section 14.5: Use of overflow property to clear floats

Setting overflow value to `hidden`, `auto` or `scroll` to an element, will clear all the floats within that element.

Note: using `overflow:scroll` will always show the scrollbar

Section 14.6: Simple Two Fixed-Width Column Layout

A simple two-column layout consists of two fixed-width, floated elements. Note that the sidebar and content area are not the same height in this example. This is one of the tricky parts with multi-column layouts using floats, and requires workarounds to make multiple columns appear to be the same height.

HTML:

```
<div class="wrapper">

<div class="sidebar">
  <h2>Sidebar</h2>

  <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer nec odio.</p>
</div>

<div class="content">
  <h1>Content</h1>

  <p>Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Curabitur sodales ligula in libero. Sed dignissim lacinia nunc. Curabitur tortor. Pellentesque nibh. Aenean quam. In scelerisque sem at dolor. Maecenas mattis. Sed convallis tristique sem. Proin ut ligula vel nunc egestas porttitor. Morbi lectus risus, iaculis vel, suscipit quis, luctus non, massa. Fusce ac turpis quis ligula lacinia aliquet. </p>
</div>

</div>
```

CSS:

```
.wrapper {
  width:600px;
  padding:20px;
  background-color: #f08080;

  /* Floated elements don't use any height. Adding "overflow:hidden;" forces the
     parent element to expand to contain its floated children. */
  overflow:hidden;
}

.sidebar {
  width:150px;
  float:left;
  background-color: #0000FF;
}
```

```

}

.content {
  width:450px;
  float:right;
  background-color:yellow;
}

```

Section 14.7: Simple Three Fixed-Width Column Layout

HTML:

```

<div class="wrapper">
  <div class="left-sidebar">
    <h1>Left Sidebar</h1>
    <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. </p>
  </div>
  <div class="content">
    <h1>Content</h1>
    <p>Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Curabitur sodales ligula in libero. Sed dignissim lacinia nunc. Curabitur tortor. Pellentesque nibh. Aenean quam. In scelerisque sem at dolor. Maecenas mattis. Sed convallis tristique sem. Proin ut ligula vel nunc egestas porttitor. Morbi lectus risus, iaculis vel, suscipit quis, luctus non, massa. </p>
  </div>
  <div class="right-sidebar">
    <h1>Right Sidebar</h1>
    <p>Fusce ac turpis quis ligula lacinia aliquet.</p>
  </div>
</div>

```

CSS:

```

.wrapper {
  width:600px;
  background-color:pink;
  padding:20px;

  /* Floated elements don't use any height. Adding "overflow:hidden;" forces the
     parent element to expand to contain its floated children. */
  overflow:hidden;
}

.left-sidebar {
  width:150px;
  background-color:blue;
  float:left;
}

.content {
  width:300px;
  background-color:yellow;
  float:left;
}

.right-sidebar {
  width:150px;
  background-color:green;
  float:right;
}

```

Section 14.8: Two-Column Lazy/Greedy Layout

This layout uses one floated column to create a two-column layout with no defined widths. In this example the left sidebar is "lazy," in that it only takes up as much space as it needs. Another way to say this is that the left sidebar is "shrink-wrapped." The right content column is "greedy," in that it takes up all the remaining space.

HTML:

```
<div class="sidebar">
<h1>Sidebar</h1>

</div>

<div class="content">
<h1>Content</h1>
<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer nec odio. Praesent libero. Sed cursus ante dapibus diam. Sed nisi. Nulla quis sem at nibh elementum imperdiet. Duis sagittis ipsum. Praesent mauris. Fusce nec tellus sed augue semper porta. Mauris massa. Vestibulum lacinia arcu eget nulla. </p>
<p>Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Curabitur sodales ligula in libero. Sed dignissim lacinia nunc. Curabitur tortor. Pellentesque nibh. Aenean quam. In scelerisque sem at dolor. Maecenas mattis. Sed convallis tristique sem. Proin ut ligula vel nunc egestas porttitor. Morbi lectus risus, iaculis vel, suscipit quis, luctus non, massa. Fusce ac turpis quis ligula lacinia aliquet. Mauris ipsum. Nulla metus metus, ullamcorper vel, tincidunt sed, euismod in, nibh. </p>
</div>
```

CSS:

```
.sidebar {
  /* `display:table;` shrink-wraps the column */
  display:table;
  float:left;
  background-color:blue;
}

.content {
  /* `overflow:hidden;` prevents `.content` from flowing under `.sidebar` */
  overflow:hidden;
  background-color:yellow;
}
```

[Fiddle](#)