

Component	Bootstrap 3	Bootstrap 4
Big Change	-	Flexbox
CSS preprocessors	LESS LESS is JavaScript based	SCSS Sass is Ruby based
Grid System	4 Columns (xs, sm, md, lg)	5 Columns (xs, sm, md, lg, xl)
Glyphicon	Supported	Not Supported
Primary CSS Unit	px	rem
Global Font Size	14px	16px
Dropdown Structure	Created with ul and li	Created with ul or div
Offsetting Columns	col-md-offset-4	offset-md-4
Images	.img-responsive	.img-fluid

B

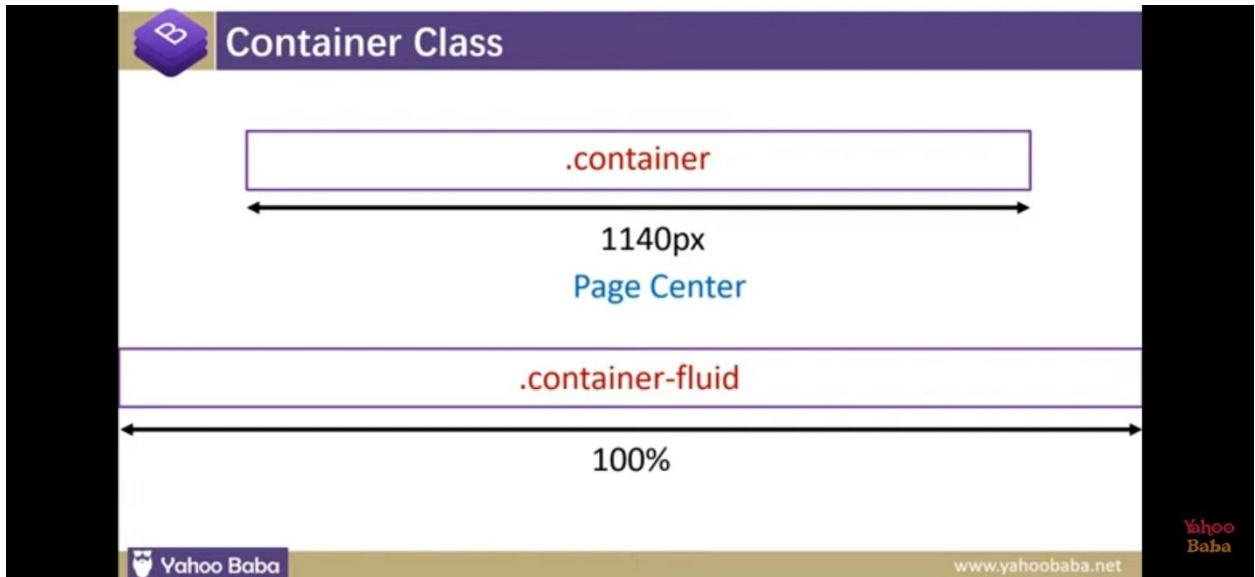
Container Class with different Break Points

Container Width		
Extra Large	>= 1200px	1140px
Large	>= 992px	960px
Medium	>= 768px	720px
Small	>= 576px	540px
Extra Small	< 576px	Auto

Yahoo Baba

www.yahooibaba.net

 Yahoo Baba



Container Class with different Break Points

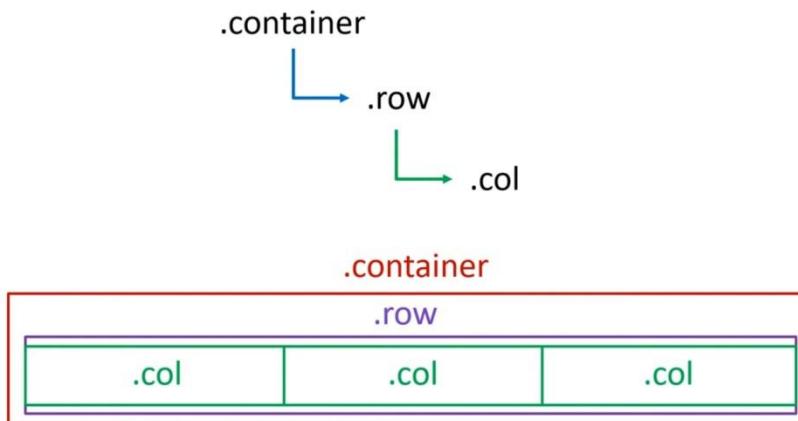
A table showing the container width for different screen sizes based on break points:

Container Width		
Extra Large	$\geq 1200\text{px}$	1140px
Large	$\geq 992\text{px}$	960px
Medium	$\geq 768\text{px}$	720px
Small	$\geq 576\text{px}$	540px
Extra Small	$< 576\text{px}$	Auto

Both the top and bottom sections include the **Yahoo Baba** logo and the URL www.yahooibaba.net.

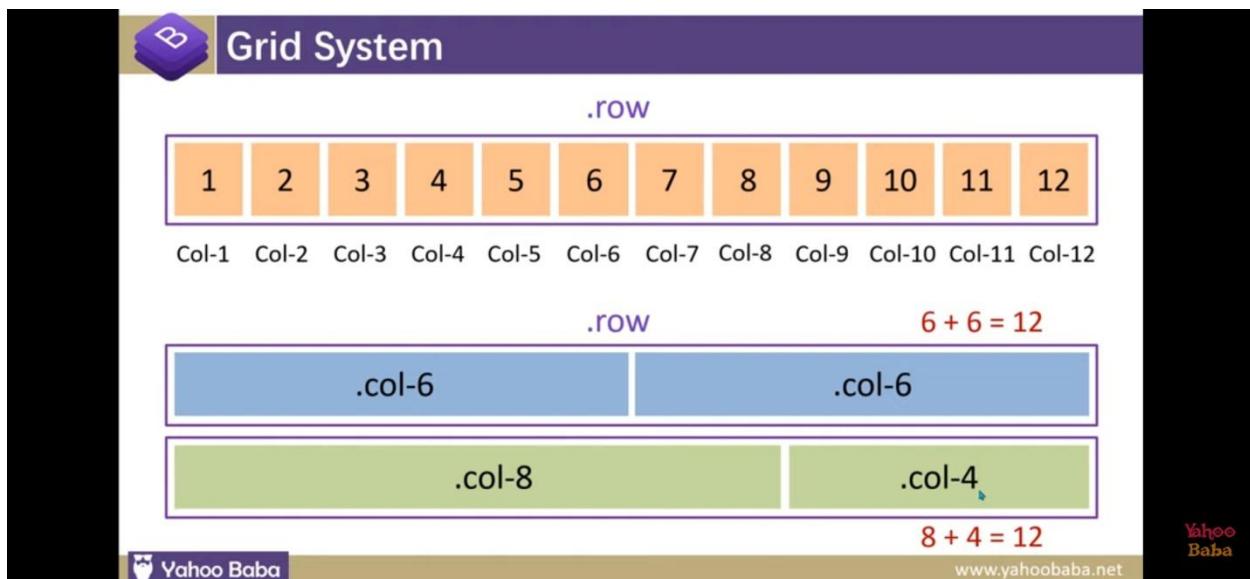


Layout Classes Sequence



Different Position Values

- 1). Relative
- 2). Absolute
- 3). Fixed
- 4). Sticky
- 5). Static



The screenshot shows the Bootstrap v5.0 documentation page for "Available breakpoints".

Available breakpoints:

Bootstrap includes six default breakpoints, sometimes referred to as *grid tiers*, for building responsively. These breakpoints can be customized if you're using our source Sass files.

Breakpoint	Class infix	Dimensions
X-Small	<i>None</i>	0-576px
Small	<i>sm</i>	≥576px
Medium	<i>md</i>	≥768px
Large	<i>lg</i>	≥992px
Extra large	<i>xl</i>	≥1200px
Extra extra large	<i>xxl</i>	≥1400px

Each breakpoint size was chosen to be a multiple of 12 and to be representative of a subset of common device sizes and viewport dimensions. They don't specifically target every use case or



Padding Classes for different Break Points

	Padding	Padding-right	Padding-left	Padding-top	Padding-bottom
Extra Large	.p-xl-*	.pr-xl-*	.pl-xl-*	.pt-xl-*	.pb-xl-*
Large	.p-lg-*	.pr-lg-*	.pl-lg-*	.pt-lg-*	.pb-lg-*
Medium	.p-md-*	.pr-md-*	.pl-md-*	.pt-md-*	.pb-md-*
Small	.p-sm-*	.pr-sm-*	.pl-sm-*	.pt-sm-*	.pb-sm-*
Extra Small					

0 - 5

About CSS Flexbox :



- New module in CSS3 to easily align elements in different directions and orders
- Flexbox gives container the ability to expand and shrink elements to best use all the available space
- CSS Flexbox Layout replaces float layout
- New way to build one-dimensional layouts

The screenshot shows a code editor interface with the following details:

- EXPLORER** sidebar on the left containing files: fonts, images (1.jpg, 2.png, 3.png, 4.png), arrow.png, object.jpg, sprite.png, index.html, and style.css.
- OPEN EDITORS** section showing "style.css" is open.
- Editor Area:**

```
# style.css > {} @media screen and (min-width: 400px) and (max-width: 768px){  
16  
17     #div1{  
18         width: 50%;  
19     }  
20     #div2{  
21         width: 50%;  
22     }  
23 }  
24  
25 @media screen and (min-width: 400px) and (max-width: 768px){  
26     #div1{  
27         width: 100%;  
28     }  
29     #div2{  
30         width: 100%;  
31         color: white;  
32         background-color: black;  
33     }  
34 }  
35 }
```
- Bottom Right Corner:** TECHGUN logo.

The screenshot shows a code editor interface with the following details:

- EXPLORER** sidebar on the left containing files: fonts, images (1.jpg, 2.png, 3.png, 4.png), arrow.png, object.jpg, sprite.png, index.html, and style.css.
- OPEN EDITORS** section showing "style.css" is open.
- Editor Area:**

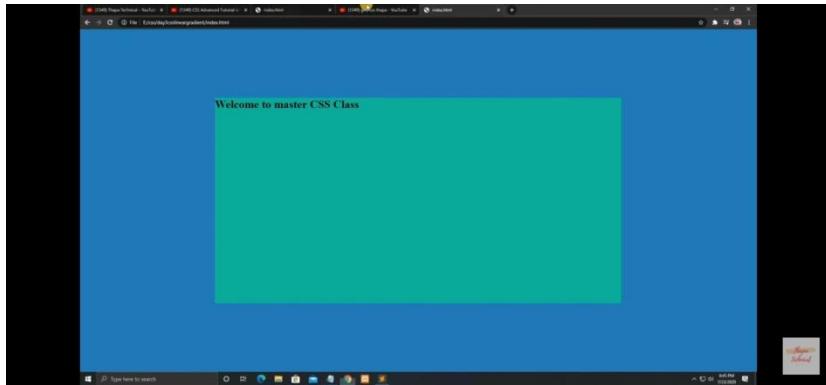
```
# style.css > video  
26     @media screen and (min-width: 400px) and (max-width: 768px){  
27         #div1{  
28             width: 100%;  
29         }  
30         #div2{  
31             width: 100%;  
32             color: white;  
33             background-color: black;  
34         }  
35     }  
36  
37     img{  
38         width: 100%;  
39         height: auto;  
40     }  
41  
42     video{  
43         width: 100%;  
44         height: auto;}
```
- Bottom Right Corner:** TECHGUN logo.

The screenshot shows the 'Can I use...' website interface. At the top, it displays 'July 18, 2018 - New feature: Shared Array Buffer'. Below this, there's a section for 'CSS Grid Layout' with a brief description: 'Method of using a grid concept to lay out content, providing a mechanism for authors to divide available space for layout into columns and rows using a set of predictable sizing behaviors. Includes support for all `grid-`* properties and the `fr` unit.' To the right, there's a statistics panel showing usage percentages: Global (84.53% + 3.2% = 87.73%) and unprefixed (84.53%). Below the description is a table showing browser support and usage percentages. The table includes columns for IE, Edge, Firefox, Chrome, Safari, iOS Safari, Opera Mini, Chrome for Android, UC Browser for Android, and Samsung Internet. The 'grid-template-columns' row shows values like 49%, 66%, 10.3%, etc. The 'grid-template-rows' row shows values like 11, 17, 61, 68, 11.1, 11.4, etc. The 'grid-template-areas' row shows values like 18, 62, 69, 12, 12, etc. The 'grid-template' row shows values like 63, 70, TP, etc.

CSS Grid Properties:

- `grid-template-rows`
- `grid-template-columns`
- `grid-template-areas`
- `grid-template`
- `grid-row-gap`
- `grid-column-gap`
- `grid-gap`
- `justify-items`
- `align-items`
- `justify-content`
- `align-content`
- `grid-auto-rows`
- `grid-auto-columns`
- `grid-auto-flow`
- `grid-row-start`
- `grid-row-end`
- `grid-row`
- `grid-column-start`
- `grid-column-end`
- `grid-column`
- `grid-area`
- `justify-self`
- `align-self`
- `order`

Yahoo Baba



```
*{  
    margin: 0; padding: 0;  
    box-sizing: border-box;  
}  
.parent_div{  
    width: 100vw;  
    height: 100vh;  
    background: #2980b9;  
    display: flex;  
    justify-content: center;  
    align-items: center;  
}  
.child_div{  
    width: 60vw;  
    height: 60vh;  
    background: #1abc9c;  
    position: absolute;
```

The screenshot shows a Sublime Text editor window with the following CSS code:

```
Elizab/day/colorgradient/index.html (css) - Sublime Text (UNREGISTERED)
File Edit Selection Find View Data Tools Project Preferences Help Browser Sync

FOLDERS index.html
css
dayColorGradient
dayColorGradient
dayColorGradient
Impress.css

9
}
10 .parent_div{
11     width: 100vw;
12     height: 100vh;
13     background: #2980b9;
14     /*display: flex;
15     justify-content: center;
16     align-items: center; */
17     display: grid;
18     place-items:center;
19
20 }
21 .child_div{
22     width: 60vw;
23     height: 60vh;
24     background:#1abc9c;
25     /*position: absolute;
26     left: 50%;
```

C:\Users\Latinder\Desktop\social_icons\style.css (css) - Sublime Text (UNREGISTERED)

```
1 * {  
2   margin: 0px;  
3   padding: 0px;  
4 }  
5 }  
6 html, body {  
7   height: 100%;  
8 }  
9 .withbg {  
10   height: 100%;  
11   background-image: url("images/laptop.jpg");  
12   background-position: center;  
13   background-size: cover;  
14 }  
15 }  
16 }
```

Line 15, Column 28: Saved C:\Users\Latinder\Desktop\social_icons\style.css (UTF-8)

Tab Size: 4 CSS 12:24 PM 2/1/2019

File Edit Selection View Go Debug --- styles.css 4 ways to center div with css - VU... 127.0.0.1:5500/index.html

```
29   align-items: center;  
30   z-index: 999;  
31 }  
32 #example-div {  
33   background: url("logo_large.png") #cc0000 no-repeat;  
34   background-size: 100%;  
35   width: 200px;  
36   height: 200px;  
37   border-radius: 50%;  
38 }  
39 .parent-div {  
40   display: flex;  
41   justify-content: center;  
42   align-items: center;  
43 }  
44
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
Watching...

Change Detected...

127.0.0.1:5500/index.html

Quickest ways to Center Div

A red circle containing a white phone icon is centered on the page.

A screenshot of a code editor and a browser window. The code editor on the left shows a file named 'index.html' with the following CSS:

```
31 }
32 .example-div {
33   background: url("logo_large.png") #cc0000 no-repeat;
34   background-size: 100%;
35   width: 200px;
36   height: 200px;
37   border-radius: 50%;
38   position: absolute;
39   top: 50%;
40   left: 50%;
41   transform: translate(-50%, -50%);
42 }
43 .parent-div {
44   /* nothing */
45 }
```

The browser window on the right displays a red circular background with a white logo in the center, titled "Quickest ways to Center Div". Below the browser is a text overlay: "center of the screen and will ignore all other elements very useful if you want".

A screenshot of a code editor showing a file named 'center.html'. The code uses flexbox to center a div:

```
4 <meta charset="utf-8">
5 <title></title>
6 <style type="text/css">
7   body, html{
8     width: 100%;
9     height: 100%;
10    margin: 0;
11    padding: 0;
12    display: flex;
13    justify-content: center;
14    align-items: center;
15  }
16  #box_outer{
17    width: 300px;
18    height: 300px;
19    background: violet;
20  }
21 </style>
22 </head>
23 <body>
24 <div id="box_outer">
25
26 </div>
```

A screenshot of a code editor showing a file named 'center.html'. The code is as follows:

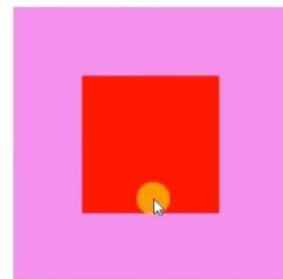
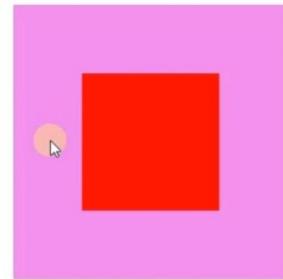
```
13 justify-content: center;
14 align-items: center;
15 }
16 #box_outer{
17     width: 300px;
18     height: 300px;
19     background: violet;
20     position: relative;
21 }
22 #box_inner{
23     width: 150px;
24     height: 150px;
25     background: red;
26     position: absolute;
27     top: 0;
28     left: 0;
29     bottom: 0;
30     right: 0;
31     margin: auto; |
```

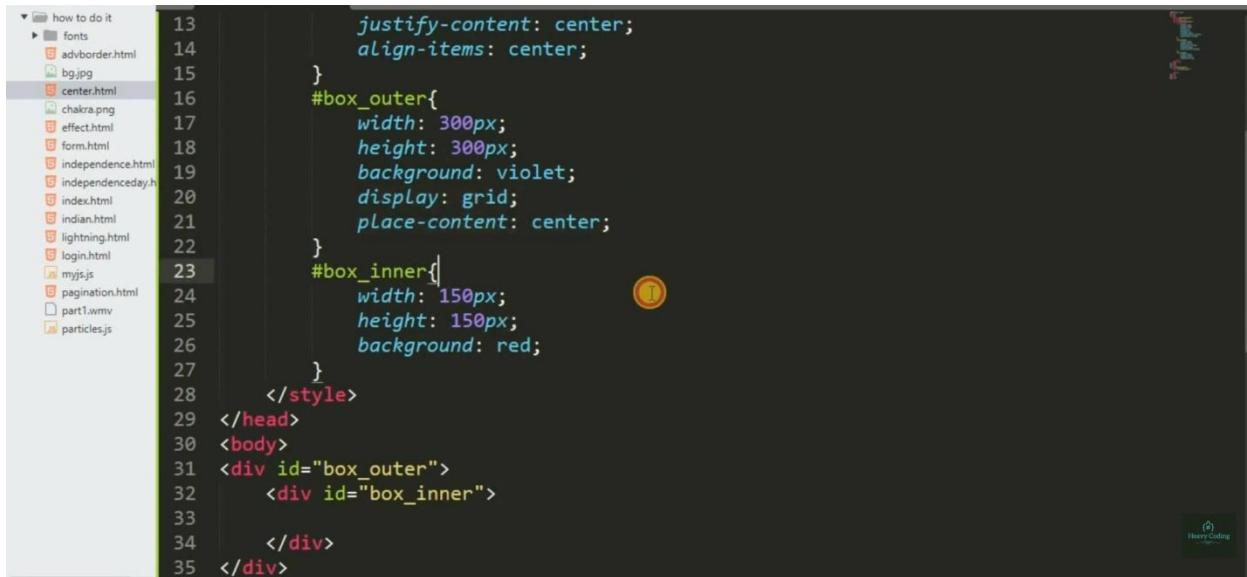
A screenshot of a code editor showing the same file 'center.html' with a modification at line 28:

```
13 justify-content: center;
14 align-items: center;
15 }
16 #box_outer{
17     width: 300px;
18     height: 300px;
19     background: violet;
20     position: relative;
21 }
22 #box_inner{
23     width: 150px;
24     height: 150px;
25     background: red;
26     position: absolute;
27     top: 50%;
28     left: 50%; |
```

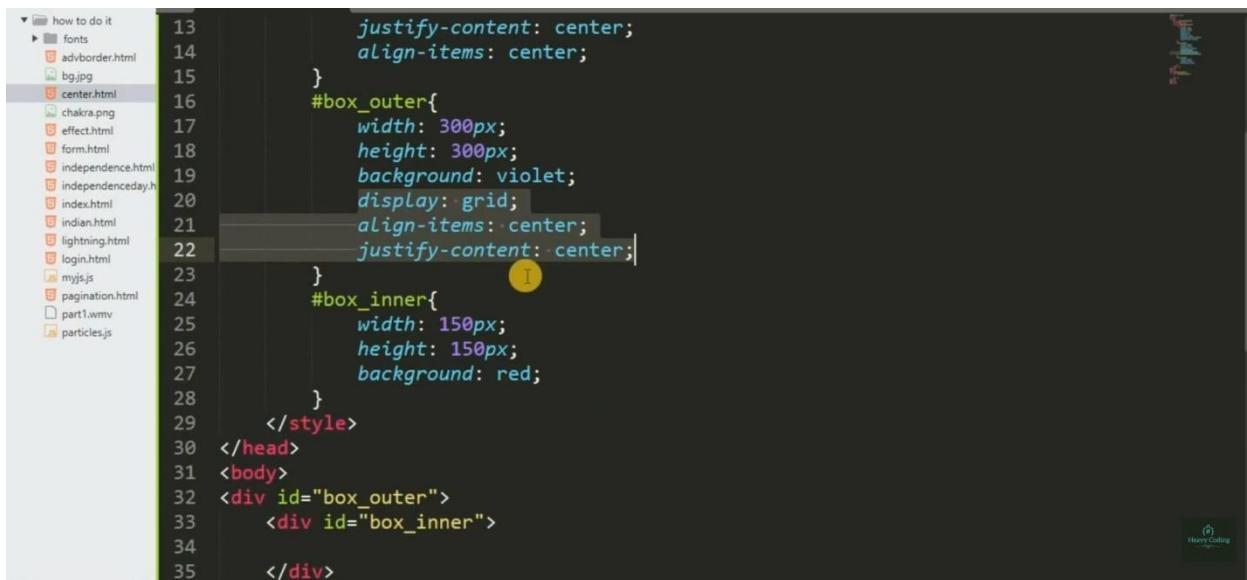
The cursor is at the end of the line 'left: 50%;'. A yellow circle highlights the 't' in 'translate' and the '50%' values.

```
29     transform: translate(-50%, -50%);
```





```
13     justify-content: center;
14     align-items: center;
15   }
16   #box_outer{
17     width: 300px;
18     height: 300px;
19     background: violet;
20     display: grid;
21     place-content: center;
22   }
23   #box_inner{
24     width: 150px;
25     height: 150px;
26     background: red;
27   }
28 </style>
29 </head>
30 <body>
31 <div id="box_outer">
32   <div id="box_inner">
33
34   </div>
35 </div>
```



```
13     justify-content: center;
14     align-items: center;
15   }
16   #box_outer{
17     width: 300px;
18     height: 300px;
19     background: violet;
20     display: grid;
21     align-items: center;
22     justify-content: center;
23   }
24   #box_inner{
25     width: 150px;
26     height: 150px;
27     background: red;
28   }
29 </style>
30 </head>
31 <body>
32 <div id="box_outer">
33   <div id="box_inner">
34
35 </div>
```

Bootstrap 5 first alpha was officially released on June 16, 2020.

Summary of the most important changes:

- jQuery was removed
- Switch to Vanilla JavaScript
- Drop Internet Explorer 10 and 11 support
- Improved grid system
- Improved documentation
- Improved modularity
- Improved forms
- New responsive font
- New utilities & helpers
- Easier customization & theming
- Lighter package
- New API available

About CSS Flexbox :

- New module in CSS3 to easily align elements in different directions and orders
- Flexbox gives container the ability to expand and shrink elements to best use all the available space
- CSS Flexbox Layout replaces float layout
- New way to build one-dimensional layouts

Justify-content Values:

Horizontal Alignment



- flex-start
- flex-end
- center
- space-around
- space-between
- space-evenly

CSS Flex-direction values:

- row
 - row-reverse
 - column
 - column-reverse

Align-items Values:

- flex-start
 - flex-end
 - center
 - stretch
 - baseline

Vertical Alignment



Rows - Grid System	Typography	Tables
Rows are in .container or .container-fluid	.h1 .h2 .h3 .h4 .h5 .h6 .small <small> .lead @font-size-base @line-height-base	.table .table-striped .table-bordered .table-hover .table-condensed .table-responsive
Columns	Align	Wrap .table in .table-responsive <div class='table-responsive'> ...table </div>
.col-xs- Always Full .col-sm- >768 750 wide .col-md- >992 970 wide .col-lg- >1200 1170 wide	.text-left .text-right .text-center .text-justify	
Resets, Offsets, Pushes, Pulls	Text Helpers	Rows or Cells
.clearfix .col-xs-offset- (sm, md, lg) Nest using a .row inside a col .col-xs-push- (sm, md, lg) .col-xs-pull- (sm, md, lg) .visible-xs (sm, md, lg) .hidden-xs (sm, md, lg) .visible-print .hidden-print	.text-muted .text-primary .text-success .text-info .text-warning .text-danger .bg-primary .bg-success .bg-info .bg-warning .bg-danger .text-hide .sr-only	.active .success .info .warning .danger
Grid Variables	Lists	Tags
@grid-columns: 12 @grid-gutter-width: 30px @grid-float-breakpoint: 768px	.list-unstyled .list-inline	abbr <abbr title="attribute">attr</abbr>
Using Grid Mixin CSS	Descriptions	address <address> Twitter, Inc. 795 Folsom Ave, Suite 600 San Francisco, CA 94107 <abbr title="Phone">P:</abbr> (123) 456-7890 </address>
.wrapper {.make-row();} .content-main {.make-lg-column(8);} .content-secondary { make-lg-column(3); make-lg-column-offset(1); }	<dl> <dt>...</dt> <dd>...</dd> </dl> .dl-horizontal	blockquote <blockquote> <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Integer&r/></p> </blockquote>
Using Grid Mixin HTML	Images	blockquote footer <footer>Someone famous in <cite title="Source Title">Source Title</cite>--</footer>
<div class="wrapper"> <div class="content-main">...</div> <div class="content-secondary">...</div> </div>	.img-responsive (max-width:100%, height:auto) .img-rounded .img-circle .img-thumbnail (double border)	blockquote right justify <.blockquote-reverse
Buttons	Forms	code <code><section></code>
<button type="button" class="btn btn-default">Default</button> Primary link	NEED TO DO	kbd Keyboard Entry <kbd>cd</kbd>
Button Classes	Labels	.pre-scrollable Max Height 350px box, with y-axis scrollbar. Used with pre tag
.btn-default .btn-primary .btn-success .btn-info .btn-warning .btn-danger .btn-link (to look like a link) .btn-lg .btn-sm .btn-xs .btn-block active (A tag) .disabled (A tag) disabled="disabled"	.label .label-default primary, success, info, warning, danger New	close button <button type="button" class="close" aria-hidden="true">×</button>
	Badge	Caret
	42	Floats <.pull-left .pull-right
	Alerts	Float Mixin <.element { .pull-left(); }>
	.alert .alert-success success, info, warning, or danger .alert-dismissible <button type="button" class="close" data-dismiss="alert" aria-hidden="true">×</button> ...	Clear Floats <.clearfix>
		Center Block (mixin also) <.center-block (display:block, margin auto)> <.center-block0>
		Show (mixin also) <.show .show0>
		Hide (mixin also) <.hide .hide0>
		Glyphicons

Default CSS Property Values

Desk Reference

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Default CSS Property Values

```
animation : none;
animation-delay : 0;
animation-direction : normal;
animation-duration : 0;
animation-fill-mode : none;
animation-iteration-count : 1;
animation-name : none;
animation-play-state : running;
animation-timing-function : ease;
backface-visibility : visible;
background : 0;
background-attachment : scroll;
background-clip : border-box;
background-color : transparent;
background-image : none;
background-origin : padding-box;
background-position : 0 0;
background-position-x : 0;
background-position-y : 0;
background-repeat : repeat;
background-size : auto auto;
border : 0;
border-style : none;
border-width : medium;
border-color : inherit;
border-bottom : 0;
border-bottom-color : inherit;
border-bottom-left-radius : 0;
border-bottom-right-radius : 0;
border-bottom-style : none;
border-bottom-width : medium;
border-collapse : separate;
border-image : none;
border-left : 0;
```

CSS Vendor Prefixes

-ms-	Microsoft
mso-	Microsoft Office
-moz-	Mozilla Foundation (Gecko-based browsers)
-o-, -xv-	Opera Software
-atsc-	Advanced Television Standards Committee
-wap-	The WAP Forum
-webkit-	Safari, Chrome (and other WebKit-based browsers)
-khtml-	Konqueror browser
-apple-	Webkit supports properties using the -apple- prefixes as well
prince-	YesLogic
-ah-	Antenna House
-hp-	Hewlett Packard
-ro-	Real Objects
-rim-	Research In Motion
-tc-	Tall Components



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Default CSS Property Values

Desk Reference

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Default CSS Property Values cont.

```
border-left-color : inherit;  
border-left-style : none;  
border-left-width : medium;  
border-radius : 0;  
border-right : 0;  
border-right-color : inherit;  
border-right-style : none;  
border-right-width : medium;  
border-spacing : 0;  
border-top : 0;  
border-top-color : inherit;  
border-top-left-radius : 0;  
border-top-right-radius : 0;  
border-top-style : none;  
border-top-width : medium;  
bottom : auto;  
box-shadow : none;  
box-sizing : content-box;  
caption-side : top;  
clear : none;  
clip : auto;  
color : inherit;  
columns : auto;  
column-count : auto;  
column-fill : balance;  
column-gap : normal;  
column-rule : medium none currentColor;  
column-rule-color : currentColor;  
column-rule-style : none;  
column-rule-width : none;  
column-span : 1;  
column-width : auto;  
content : normal;  
counter-increment : none;
```

CSS Selectors

.class	:invalid
#id	:lang(language)
*	:last-child
element	:last-of-type
element,element	:link
element element	:not(selector)
element>element	:nth-child(n)
element+element	:nth-last-child(n)
element1~element2	:nth-last-of-type(n)
[attribute]	:nth-of-type(n)
[attribute=value]	:only-of-type
[attribute~=value]	:only-child
[attribute =value]	:optional
[attribute^=value]	:out-of-range
[attribute\$=value]	:read-only
[attribute*=value]	:read-write
:active	:required
::after	:root
::before	::selection
:checked	:target
:disabled	:valid
:empty	:visited
:enabled	
::first-child	
::first-letter	
::first-line	
::first-of-type	
:focus	
:hover	
:in-range	



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Default CSS Property Values

Desk Reference

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Default CSS Property Values cont.

```
counter-reset : none;
cursor : auto;
direction : ltr;
display : inline;
empty-cells : show;
float : none;
font : normal;
font-family : inherit;
font-size : medium;
font-style : normal;
font-variant : normal;
font-weight : normal;
height : auto;
hyphens : none;
left : auto;
letter-spacing : normal;
line-height : normal;
list-style : none;
list-style-image : none;
list-style-position : outside;
list-style-type : disc;
margin : 0;
margin-bottom : 0;
margin-left : 0;
margin-right : 0;
margin-top : 0;
max-height : none;
max-width : none;
min-height : 0;
min-width : 0;
opacity : 1;
orphans : 0;
outline : 0;
outline-color : invert;
outline-style : none;
outline-width : medium;
overflow : visible;
overflow-x : visible;
overflow-y : visible;
padding : 0;
padding-bottom : 0;
padding-left : 0;
padding-right : 0;
padding-top : 0;
page-break-after : auto;
page-break-before : auto;
page-break-inside : auto;
perspective : none;
perspective-origin : 50% 50%;
position : static;
/* May need to alter quotes
for different locales (e.g
fr) */
quotes : '\201C' '\201D'
'\2018' '\2019';
right : auto;
tab-size : 8;
table-layout : auto;
text-align : inherit;
text-align-last : auto;
text-decoration : none;
text-decoration-color : inherit;
text-decoration-line : none;
text-decoration-style : solid;
text-indent : 0;
text-shadow : none;
text-transform : none;
top : auto;
transform : none;
transform-style : flat;
transition : none;
transition-delay : 0s;
transition-duration : 0s;
transition-property : none;
transition-timing-function : ease;
unicode-bidi : normal;
vertical-align : baseline;
visibility : visible;
white-space : normal;
widows : 0;
width : auto;
word-spacing : normal;
z-index : auto;
```



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Bootstrap 3 CSS Classes

Desk Reference

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Grid

Basic grid - full width is 12 columns wide

```
<!-- change .container to .container-fluid to be full width -->
<div class="container">
  <!-- Columns are always 50% wide, on mobile and desktop -->
  <div class="row">
    <div class="col-xs-6">.col-xs-6</div>
    <div class="col-xs-6">.col-xs-6</div>
  </div>
  <!-- nested columns example -->
  <div class="row">
    <div class="col-xs-6">.col-xs-6</div>
    <div class="col-xs-6">.col-xs-6
      <div class="row">
        <div class="col-md-6">100% mobile 50% everywhere else</div>
        <div class="col-md-6">100% mobile 50% everywhere else</div>
      </div>
    </div>
  </div>
</div>
```

Media queries

```
/* Extra small devices (phones, less than 768px) No media query since this is the default in Bootstrap */
/* small (tablets, 768px and up) */
@media (min-width: @screen-sm-min) { ... }
/* medium (desktops, 992px and up) */
@media (min-width: @screen-md-min) { ... }
/* large (large desktops, 1200px and up) */
@media (min-width: @screen-lg-min) { ... }
```

Text & Images

.text-left Left aligned text
.text-center Center aligned text
.text-right Right aligned text
.text-justify Justified text
.text nowrap No wrap text
.text-lowercase Lowercase text
.text-uppercase Uppercase text
.text-capitalize Capitalized text
.lead Good for first paragraph of article
.list-unstyled Removes default list margin/padding
.list-inline Makes list items inline
.dl-horizontal Makes list items two columns
.img-responsive Make an image responsive
.img-rounded Adds rounded corners to image
.img-circle Crops image to be circle
.img-thumbnail Adds rounded corner and border to an image
.pull-left Floats item left
.pull-right Floats item right
.center-block Set an element to block with auto left and right margin
.clearfix Clear floats by adding this class to the parent container

Blockquote

```
<blockquote><p>Lorem ipsum dolor</p>
<footer>Someone famous in <cite title="Source Title">Source Title</cite></footer></blockquote>
```

Headings

```
<h1>h1. Bootstrap heading <small>Secondary text</small></h1>
<p class="h1">Paragraph that looks like heading</p>
```



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Navbar

```
<!-- Fixed top navbar with brand as logo image tags -->
<nav class="navbar navbar-default navbar-fixed-top">
  <div class="container-fluid">
    <!-- Brand and toggle get grouped for better mobile display -->
    <div class="navbar-header">
      <button type="button" class="navbar-toggle collapsed" data-toggle="collapse" data-target="#bs-example-navbar-collapse-1" aria-expanded="false">
        <span class="sr-only">Toggle navigation</span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
        <span class="icon-bar"></span>
      </button>
      <a class="navbar-brand" href="#"></a>
    </div>
    <!-- Collect the nav links, forms, and other content for toggling -->
    <div class="collapse navbar-collapse" id="bs-example-navbar-collapse-1">
      <ul class="nav navbar-nav">
        <li class="active"><a href="#">Link <span class="sr-only">(current)</span></a></li>
        <li><a href="#">Link</a></li>
        <li class="dropdown">
          <a href="#" class="dropdown-toggle" data-toggle="dropdown" role="button" aria-haspopup="true" aria-expanded="false">Dropdown <span class="caret"></span></a>
          <ul class="dropdown-menu">
            <li><a href="#">Action</a></li>
            <li role="separator" class="divider"></li>
            <li><a href="#">Separated link</a></li>
          </ul>
        </li>
      </ul>
    </div><!-- /.navbar-collapse -->
  </div><!-- /.container-fluid -->
</nav>
```

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Forms

```
<form>
  <div class="form-group">
    <label for="exampleInputEmail1">Email address</label>
    <input type="email" class="form-control" id="exampleInputEmail1" placeholder="Email">
  </div>
  <div class="form-group">
    <label for="exampleInputPassword1">Password</label>
    <input type="password" class="form-control" id="exampleInputPassword1" placeholder="Password">
  </div>
  <div class="form-group">
    <label for="exampleInputFile">File input</label>
    <input type="file" id="exampleInputFile">
    <p class="help-block">Example block-level help text here.</p>
  </div>
  <div class="checkbox">
    <label>
      <input type="checkbox"> Check me out
    </label>
  </div>
  <button type="submit" class="btn btn-default">Submit</button>
</form>
```

Buttons

.btn Needs to be added to all buttons because it adds padding and margin
.btn-default The default button style
.btn-primary The button that has the primary action in a group
.btn-success Could be used on the last submit button in a form
.btn-info Informational button
.btn-link Removes background color and add text color
.btn-lg Large button
.btn-sm Smaller than default button
.btn-xs Even smaller
.btn-block Button that spans full width of parent

```
<a class="btn btn-default" href="#" role="button">Link</a>
<button class="btn btn-primary" type="submit">Button</button>
```



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Carousel

```
<div id="carousel-example-generic" class="carousel slide" data-ride="carousel">
  <!-- Indicators -->
  <ol class="carousel-indicators">
    <li data-target="#carousel-example-generic" data-slide-to="0" class="active"></li>
    <li data-target="#carousel-example-generic" data-slide-to="1"></li>
  </ol>
  <!-- Wrapper for slides -->
  <div class="carousel-inner" role="listbox">
    <div class="item active">
      
      <div class="carousel-caption">
        ...
      </div>
    </div>
    <div class="item">
      
      <div class="carousel-caption">
        ...
      </div>
    </div>
    ...
  </div>
  <!-- Controls -->
  <a class="left carousel-control" href="#carousel-example-generic" role="button" data-slide="prev">
    <span class="glyphicon glyphicon-chevron-left" aria-hidden="true"></span>
    <span class="sr-only">Previous</span>
  </a>
  <a class="right carousel-control" href="#carousel-example-generic" role="button" data-slide="next">
    <span class="glyphicon glyphicon-chevron-right" aria-hidden="true"></span>
    <span class="sr-only">Next</span>
  </a>
</div>
```



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Jumbotron

```
<div class="jumbotron">
  <h1>Hello, world!</h1>
  <p>...</p>
  <p><a class="btn btn-primary btn-lg" href="#" role="button">Learn more</a></p>
</div>
```

To make the jumbotron full width, and without rounded corners, place it outside all .containers and instead add a .container within.

```
<div class="jumbotron">
  <div class="container">
    ...
  </div>
</div>
```

Page header

```
<div class="page-header">
  <h1>Example page header <small>Subtext for header</small></h1>
</div>
```

Breadcrumbs

```
<ol class="breadcrumb">
  <li><a href="#">Home</a></li>
  <li><a href="#">Library</a></li>
  <li class="active">Data</li>
</ol>
```

Responsive embed

```
<!-- 16:9 aspect ratio - change aspect ratio by replacing 16by9 with 4by3 -->
<div class="embed-responsive embed-responsive-16by9">
  <iframe class="embed-responsive-item" src="..."></iframe>
</div>
```



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Tables

```
<!-- Responsive table with all of the options applied -->
<div class="table-responsive">
  <table class="table table-condensed table-hover table-bordered table-striped">
    <tr class="active">...</tr>
    <tr>
      <td class="info">...</td>
    </tr>
  </table>
</div>
```

Alphabetical Index of CSS Classes

.active	.btn-danger	.center-block
.affix	.btn-default	.checkbox
.alert	.btn-group	.checkbox-inline
.alert-danger	.btn-group-justified	.close
.alert-dismissible	.btn-group-vertical	.col-lg-* /*(1-12)*/
.alert-info	.btn-info	.col-lg-offset-* /*(0-12)*/
.alert-link	.btn-link	.col-lg-pull-* /*(0-12)*/
.alert-success	.btn-primary	.col-lg-push-* /*(0-12)*/
.alert-warning	.btn-sm	.col-md-* /*(1-12)*/
.arrow	.btn-success	.col-md-offset-* /*(0-12)*/
.badge	.btn-toolbar	.col-md-pull-* /*(0-12)*/
.bg-danger	.btn-warning	.col-md-push-* /*(0-12)*/
.bg-info	.btn-xs	.col-sm-* /*(1-12)*/
.bg-primary	.caption	.col-sm-offset-* /*(0-12)*/
.bg-success	.caret	.col-sm-pull-* /*(0-12)*/
.bg-warning	.carousel	.col-sm-push-* /*(0-12)*/
.bottom	.carousel-caption	.col-xs-* /*(1-12)*/
.breadcrumb	.carousel-control	.col-xs-offset-* /*(0-12)*/
.btn	.carousel-indicators	.col-xs-pull-* /*(0-12)*/
.btn-block	.carousel-inner	.col-xs-push-* /*(0-12)*/



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.collapse	.hidden-lg	.list-group-item-danger
.collapsing	.hidden-md	.list-group-item-heading
.container	.hidden-print	.list-group-item-info
.container-fluid	.hidden-sm	.list-group-item-success
.control-label	.hidden-xs	.list-group-item-text
.divider	.hide	.list-group-item-warning
.dropdown	.icon-bar	.list-inline
.dropdown-backdrop	.icon-next	.list-unstyled
.dropdown-header	.icon-prev	.mark
.dropdown-menu	.img-circle	.media
.dropdown-menu-left	.img-rounded	.media-body
.dropdown-menu-right	.img-thumbnail	.media-heading
.dropdown-toggle	.in	.media-list
.embed-responsive	.initialism	.media-object
.embed-responsive-16by9	.input-group	.modal
.embed-responsive-4by3	.input-group-addon	.modal-backdrop
.fade	.input-group-btn	.modal-body
.form-control	.input-lg	.modal-content
.form-control-feedback	.input-sm	.modal-dialog
.form-control-static	.invisible	.modal-footer
.form-group	.item	.modal-header
.glyphicon	.jumbotron	.modal-lg
.glyphicon-chevron-left	.label	.modal-open
.glyphicon-chevron-right	.label-danger	.modal-scrollbar-measure
.h1	.label-default	.modal-sm
.h2	.label-info	.modal-title
.h3	.label-primary	.nav
.h4	.label-success	.nav-divider
.h5	.label-warning	.nav-justified
.h6	.lead	.nav-tabs
.has-feedback	.left	.nav-tabs-justified
.help-block	.list-group	.navbar
.hidden	.list-group-item	.navbar-brand

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.navbar-btn	.popover-title	.text-success
.navbar-collapse	.pre-scrollable	.text-uppercase
.navbar-default	.prev	.text-warning
.navbar-fixed-bottom	.progress	.thumbnail
.navbar-fixed-top	.progress-bar	.tooltip
.navbar-form	.progress-bar-danger	.tooltip-arrow
.navbar-header	.progress-bar-info	.tooltip-inner
.navbar-inverse	.progress-bar-striped	.top
.navbar-left	.progress-bar-success	.visible-lg
.navbar-link	.progress-bar-warning	.visible-lg-block
.navbar-nav	.pull-left	.visible-lg-inline
.navbar-right	.pull-right	.visible-lg-inline-block
.navbar-static-top	.right	.visible-md
.navbar-text	.row	.visible-md-block
.navbar-toggle	.show	.visible-md-inline
.next	.small	.visible-md-inline-block
.page-header	.sr-only	.visible-print
.pager	.tab-pane	.visible-print-block
.pagination	.table	.visible-print-inline
.panel	.table-bordered	.visible-print-inline-block
.panel-body	.table-responsive	.visible-sm
.panel-danger	.text-capitalize	.visible-sm-block
.panel-default	.text-center	.visible-sm-inline
.panel-footer	.text-danger	.visible-sm-inline-block
.panel-group	.text-hide	.visible-xs
.panel-heading	.text-info	.visible-xs-block
.panel-info	.text-justify	.visible-xs-inline
.panel-primary	.text-left	.visible-xs-inline-block
.panel-success	.text-lowercase	.well
.panel-title	.text-muted	.well-lg
.panel-warning	.text nowrap	.well-sm
.popover	.text-primary	
.popover-content	.text-right	



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CSS Cheat Sheet http://w3schools.com																																	
Selectors <ul style="list-style-type: none"> * All elements p Selects all <div> elements div * div p All elements within <div> div, p <p> within <div> div + p <p> with parent <div> div + p preceded by <div> .class Elements of class "class" div.class <div> of class "class" #itemid Element with id "itemid" div#itemid <div> with id "itemid" a[attr] <a> with attribute "attr" a[attr="x"] <a> when "attr" is "x" a[class~="x"] <a> when class is a list containing "x" a[lang="en"] <a> when lang begins "en" 	Box Model																																
Pseudo-Selectors and Pseudo-Classes <ul style="list-style-type: none"> :first-child First child element :first-line First line of element :first-letter First letter of element :hover Element with mouse over :active Active element :focus Element with focus :link Unvisited links :visited Visited links :lang(var) Element with language "var" :before Before element :after After element 	Sizes and Colours <table border="0"> <tr> <td>0</td><td>0 requires no unit</td></tr> <tr> <td>Relative Sizes</td><td></td></tr> <tr> <td>em</td><td>1em equal to font size of parent (same as 100%)</td></tr> <tr> <td>ex</td><td>Height of lower case "x"</td></tr> <tr> <td>Percentage</td><td>Percentage</td></tr> <tr> <td>Absolute Sizes</td><td></td></tr> <tr> <td>px</td><td>Pixels</td></tr> <tr> <td>cm</td><td>Centimeters</td></tr> <tr> <td>mm</td><td>Millimeters</td></tr> <tr> <td>in</td><td>Inches</td></tr> <tr> <td>pt</td><td>1pt = 1/72in</td></tr> <tr> <td>pc</td><td>1pc = 12pt</td></tr> <tr> <td>Colours</td><td></td></tr> <tr> <td>#789abc</td><td>RGB Hex Notation</td></tr> <tr> <td>#acf</td><td>Equates to "#aaacff"</td></tr> <tr> <td>rgb(0,25,50)</td><td>Value of each of red, green and blue. 0 to 255, may be swapped for percentages.</td></tr> </table>	0	0 requires no unit	Relative Sizes		em	1em equal to font size of parent (same as 100%)	ex	Height of lower case "x"	Percentage	Percentage	Absolute Sizes		px	Pixels	cm	Centimeters	mm	Millimeters	in	Inches	pt	1pt = 1/72in	pc	1pc = 12pt	Colours		#789abc	RGB Hex Notation	#acf	Equates to "#aaacff"	rgb(0,25,50)	Value of each of red, green and blue. 0 to 255, may be swapped for percentages.
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Positioning <table border="0"> <tr> <td>display</td><td>clear</td></tr> <tr> <td>position</td><td>z-index</td></tr> <tr> <td>top</td><td>direction</td></tr> <tr> <td>right</td><td>unicode-bidi</td></tr> <tr> <td>bottom</td><td>overflow</td></tr> <tr> <td>left</td><td>clip</td></tr> <tr> <td>float</td><td>visibility</td></tr> </table>	display	clear	position	z-index	top	direction	right	unicode-bidi	bottom	overflow	left	clip	float	visibility	Color / Background <table border="0"> <tr> <td>color</td><td>background-repeat</td></tr> <tr> <td>background</td><td>background-image</td></tr> <tr> <td>background-color</td><td>background-position</td></tr> <tr> <td>background-attachment</td><td></td></tr> </table>	color	background-repeat	background	background-image	background-color	background-position	background-attachment											
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float	visibility																																
color	background-repeat																																
background	background-image																																
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background-attachment																																	
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font-variant	font-size-adjust																																
	Tables <table border="0"> <tr> <td>caption-side</td><td>border-spacing</td></tr> <tr> <td>table-layout</td><td>empty-cells</td></tr> <tr> <td>border-collapse</td><td>speak-header</td></tr> </table>	caption-side	border-spacing	table-layout	empty-cells	border-collapse	speak-header																										
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	Aural <table border="0"> <tr> <td>volume</td><td>elevation</td></tr> <tr> <td>speak</td><td>speech-rate</td></tr> <tr> <td>pause</td><td>voice-family</td></tr> <tr> <td>pause-before</td><td>pitch</td></tr> <tr> <td>pause-after</td><td>pitch-range</td></tr> <tr> <td>cue</td><td>stress</td></tr> <tr> <td>cue-before</td><td>richness</td></tr> <tr> <td>cue-after</td><td>speak-punctuation</td></tr> <tr> <td>play-during</td><td>speak-numeral</td></tr> <tr> <td>azimuth</td><td></td></tr> </table>	volume	elevation	speak	speech-rate	pause	voice-family	pause-before	pitch	pause-after	pitch-range	cue	stress	cue-before	richness	cue-after	speak-punctuation	play-during	speak-numeral	azimuth													
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pause-before	pitch																																
pause-after	pitch-range																																
cue	stress																																
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	Miscellaneous <table border="0"> <tr> <td>content</td><td>list-style</td></tr> <tr> <td>quotes</td><td>list-style-type</td></tr> <tr> <td>counter-reset</td><td>list-style-image</td></tr> <tr> <td>counter-increment</td><td>list-style-position</td></tr> </table>	content	list-style	quotes	list-style-type	counter-reset	list-style-image	counter-increment	list-style-position																								
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quotes	list-style-type																																
counter-reset	list-style-image																																
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Resource	Box Model	Selectors	Style	Elements
Online Official Website	Margin <ul style="list-style-type: none"> margin margin-bottom margin-left margin-right margin-top 	Basic Selectors <ul style="list-style-type: none"> .class #id * element element,element element element element>element element+element [attribute] [attribute=value] [attribute~value] [attribute\$=value] [attribute^=value] [attribute =value] 	Background <ul style="list-style-type: none"> background background-attachment background-color background-image background-position background-repeat background-clip background-origin background-size 	Hyperlink <ul style="list-style-type: none"> target target-name target-new target-position
Download <ul style="list-style-type: none"> CSS in one page [html] (css.html) CSS Cheat Sheet [png] (css.png) CSS Cheat Sheet [pdf] (css.pdf) CSS Level 1 Quick Reference Document (css.pdf) CSS Level 2 Quick Reference B Benjamin Jung (css.pdf) 	Padding <ul style="list-style-type: none"> padding padding-bottom padding-left padding-right padding-top 	Pseudo-Selectors <ul style="list-style-type: none"> :link :visited :active :hover :focus :first-letter :first-line :first-child :before :after :lang(language) :first-of-type :last-of-type :only-of-type :only-child :nth-child(n) :nth-last-child(n) :nth-of-type(n) :last-child :root :empty :enabled :disabled :checked 	Color <ul style="list-style-type: none"> color-profile opacity rendering-intent 	Text <ul style="list-style-type: none"> color direction letter-spacing line-height text-align text-decoration text-indent text-transform unicode-bidi vertical-align white-space word-spacing text-outline text-overflow text-shadow text-wrap word-break word-wrap
Related <ul style="list-style-type: none"> Blueprint HTML DOM HTML JavaScript Selenium XHTML XPath 	Dimension <ul style="list-style-type: none"> height width max-height max-width min-height min-width 		Font <ul style="list-style-type: none"> font font-family font-size font-style font-variant font-weight @font-face font-size-adjust font-stretch 	List <ul style="list-style-type: none"> list-style list-style-image list-style-position list-style-type
Page	Border and Outline <ul style="list-style-type: none"> border border-bottom border-bottom-color border-bottom-style border-bottom-width border-color border-left border-left-color border-left-style border-left-width border-right border-right-color border-right-style border-right-width border-style border-top border-top-color border-top-style border-top-width border-width outline 		Positioning <ul style="list-style-type: none"> bottom clear clip cursor display float left overflow position right top visibility z-index 	Table <ul style="list-style-type: none"> border-collapse border-spacing caption-side empty-cells table-layout
Content for Page Media <ul style="list-style-type: none"> bookmark-label bookmark-level bookmark-target float-offset hyphenate-after hyphenate-before hyphenate-character hyphenate-lines hyphenate-resource hyphens image-resolution marks string-set 				Marquee <ul style="list-style-type: none"> marquee-direction marquee-play-count marquee-speed
Generated Content				

Cascading Style Sheets (CSS 3)

BACKGROUND		BORDER		BOX MODEL	
background	<i>background-image background-position background-size background-repeat background-attachment background-origin background-clip background-color</i>	border-top	<i>border-top-width border-style border-color</i>	float	<i>left right none</i>
background-attachment	<i>scroll fixed</i>	border-top-color	<i>border-color</i>	height	<i>auto length %</i>
background-break	<i>bounding-box each-box continuous</i>	border-top-style	<i>border-style</i>	max-height	<i>none length %</i>
background-clip	<i>length % border-box padding-box content-box no-clip</i>	border-top-width	<i>thin medium thick length</i>	max-width	<i>none length %</i>
background-color	<i>color transparent</i>	border-radius	<i>border-top-right-radius border-bottom-right-radius border-bottom-left-radius border-top-left-radius</i>	min-height	<i>none inherit length %</i>
background-image	<i>uri none</i>	border-top-right-radius	<i>length</i>	min-width	<i>none inherit length %</i>
background-origin	<i>border-box padding-box content-box</i>	border-bottom-right-radius	<i>length</i>	width	<i>auto % length</i>
background-position	<i>top left top center top right center left center center center right bottom left bottom center bottom right x-% y-% x-pos y-pos</i>	border-bottom-left-radius	<i>length</i>	margin	<i>margin-top margin-right margin-bottom margin-left</i>
background-repeat	<i>repeat repeat-x repeat-y no-repeat</i>	border-top-left-radius	<i>length</i>	margin-bottom	<i>auto length %</i>
background-size	<i>length % auto cover contain</i>	box-shadow	<i>inset [length, length, length, length <color>] none</i>	margin-left	<i>auto length %</i>
BORDER		FONT		margin-right	<i>auto length %</i>
border	<i>border-width border-style border-color</i>	font	<i>font-style font-variant font-weight font-size/line-height font-family caption icon menu message-box small-caption status-bar</i>	margin-top	<i>auto length %</i>
border-break	<i>border-width border-style color close</i>	font-family	<i>family-name generic-family inherit</i>	padding	<i>padding-top padding-right padding-bottom padding-left</i>
border-bottom	<i>border-bottom-width border-style border-color</i>	font-size	<i>xx-small x-small small medium large x-large xx-large smaller larger inherit length %</i>	padding-bottom	<i>length %</i>
border-bottom-color	<i>border-color</i>	font-size-adjust	<i>none inherit number</i>	padding-left	<i>length %</i>
border-bottom-style	<i>border-style</i>	font-stretch	<i>normal wider narrower ultra-condensed extra-condensed condensed semi-condensed semi-expanded expanded extra-expanded ultra-expanded inherit</i>	padding-right	<i>length %</i>
border-bottom-width	<i>thin medium thick length</i>	font-style	<i>normal italic oblique inherit</i>	padding-top	<i>length %</i>
border-collapse	<i>collapse separate</i>	font-variant	<i>normal small-caps inherit</i>	marquee-direction	<i>forward reverse</i>
border-color	<i>color</i>	font-weight	<i>normal bold bolder lighter 100 200 300 400 500 600 700 800 900 inherit</i>	marquee-loop	<i>infinite number</i>
border-image	<i>image [number / % border-width stretch repeat round] none</i>	BOX MODEL		marquee-play-count	<i>infinite integer</i>
border-left	<i>border-left-width border-style border-color</i>	clear	<i>left right both none</i>	marquee-speed	<i>slow normal fast</i>
border-left-color	<i>border-color</i>		<i>none inline block inline-block list-item run-in compact table inline-table table-row-group table-header-group table-footer-group table-row table-column-group table-column table-cell table-caption ruby ruby-base ruby-text ruby-base-group ruby-text-group</i>	marquee-style	<i>scroll slide alternate</i>
border-left-style	<i>border-style</i>	display	<i>visible hidden scroll auto no-display no-content overflow-x overflow-y</i>	overflow	<i>visible hidden scroll auto no-display no-content overflow-x overflow-y</i>
border-left-width	<i>thin medium thick length</i>		<i>auto marquee-line marquee-block</i>	overflow-style	<i>visible hidden scroll auto no-display no-content</i>
border-right	<i>border-right-width border-style border-color</i>	display	<i>none inline block inline-block list-item run-in compact table inline-table table-row-group table-header-group table-footer-group table-row table-column-group table-column table-cell table-caption ruby ruby-base ruby-text ruby-base-group ruby-text-group</i>	overflow-x	<i>visible hidden scroll auto no-display no-content</i>
border-right-color	<i>border-color</i>			overflow-y	<i>visible hidden scroll auto no-display no-content</i>
border-right-style	<i>border-style</i>			rotation	<i>angle</i>
border-right-width	<i>thin medium thick length</i>			rotation-point	<i>position (paired value offset)</i>
				visibility	<i>visible hidden collapse</i>

<html>

Document Outline		Lists		Objects	
<!DOCTYPE>	Version of (X)HTML		Ordered list	<object>	Object
<html>	HTML document		Unordered list	<param />	Parameter
<head>	Page information		List item		
<body>	Page contents	<dl>	Definition list		
Comments		<dt>	Definition term		
<!-- Comment Text -->		<dd>	Term description		
Page Information		Forms		Empty Elements	
<base />	Base URL	<form>	Form	<area />	
<meta />	Meta data	<fieldset>	Collection of fields	<base />	<input />
<title>	Title	<legend>	Form legend	 	<link />
<link />	Relevant resource	<label>	Input label	<col />	<meta />
<style>	Style resource	<input />	Form input	<hr />	<param />
<script>	Script resource	<select>	Drop-down box		
Document Structure		<optgroup>	Group of options		
<h[1-6]>	Heading	<option>	Drop-down options		
<div>	Page section	<textarea>	Large text input		
	Inline section	<button>	Button		
<p>	Paragraph				
 	Line break				
<hr />	Horizontal rule				
Links		Tables		Core Attributes	
	Page link	<table>	Table	class	style
"	Email link	<caption>	Caption	id	title
	Anchor	<thead>	Table header	Note: Core Attributes may not be used in base, head, html, meta, param, script, style or title elements.	
	Link to anchor	<tbody>	Table body		
		<tfoot>	Table footer		
		<colgroup>	Column group		
		<col />	Column		
		<tr>	Table row		
		<th>	Header cell		
		<td>	Table cell		
Text Markup		Images and Image Maps		Language Attributes	
	Strong emphasis		Image	dir	lang
	Emphasis	<map>	Image Map	Note: Language Attributes may not be used in base, br, frame, frameset, hr, iframe, param or script elements.	
<blockquote>	Long quotation	<area />	Area of Image Map		
<q>	Short quotation				
<abbr>	Abbreviation				
<acronym>	Acronym				
<address>	Address				
<pre>	Pre-formatted text				
<dfn>	Definition				
<code>	Code				
<cite>	Citation				
	Deleted text				
<ins>	Inserted text				
<sub>	Subscript				
<sup>	Superscript				
<bdo>	Text direction				
Common Character Entities		Keyboard Attributes		Window Events	
"	"		Image	onLoad	onUnload
&	&	<map>	Image Map		
<	<	<area />	Area of Image Map		
>	>				
@	@				
€	€				
•	•				
™	™				
£	£				
 					
©	©				
Keyboard Events		Form Events		Mouse Events	
onkeydown		onBlur	onReset	onClick	onMouseout
onkeypress		onChange	onSelect	onDbclick	onMouseover
		onFocus	onSubmit	onMousedown	onMouseup
				onMousemove	



Cheat Sheet [TAGS]

New [tags added in HTML5]

<article>	self-contained composition that is independently distributable
<aside>	section of page that consists of content tangentially related to content around it
<audio>	sound content
<bdi>	span of text to be isolated from surroundings for bidirectional formatting purposes
<canvas>	area that can be used to draw graphics via JavaScript
<command>	user invokable command
<datalist>	dropdown list
<datatemplate>	data template
<details>	details of an element
<embed>	embedded content
<figcaption>	caption of figure element
<figure>	group of media content
<footer>	footer for section or page
<header>	header for section or page
<hgroup>	group of headings for section
<keygen>	generated key in a form
<mark>	marked text
<meter>	measurement in defined range
<nav>	navigation links
<output>	represents results of calculation
<progress>	progress of any kind of task
<r>	parenthesized ruby text
<rt>	ruby text
<ruby>	ruby annotations
<section>	section in a document
<source>	media resources
<summary>	header of a detail element
<time>	date/time
<video>	video
<wbr>	possible line break

Old [unsupported tags]

<acronym>	acronym
<applet>	applet
<basefont>	base font
<bgsound>	background sound
<big>	big text
<center>	centered text
<fn>	footnotes
	text font, size, and color
<frame>	sub window
<frameset>	set of frames
<isindex>	provides searchable index related to current document
<dir>	directory list
<noembed>	no embed section
<noframes>	no frame section
<s>	strikethrough text
<strike>	strike-through text
<t>	teletype text
<u>	underlined text
<xmp>	preformatted text

Existing [tags in HTML4 & 5]

<!---->	comment
<!doctype>	document type
<a>	hyperlink
<abbr>	abbreviation
<address>	address element
<area>	image map area
	bold text
<base>	base URL for all links in page relative to document root
<bdo>	text direction
<blockquote>	long quotation
<body>	body element
 	single line break
<button>	push button
<caption>	table caption
<cite>	citation
<code>	code text
<col>	attributes for columns
<colgroup>	groups of columns
<dd>	definition description
	deleted text
<div>	generic block-level element
<dfn>	defining instance of a term
<dl>	definition list
<dt>	definition term
	emphasized text
<fieldset>	logically group items in a form
<form>	defines a form
<h1> to <h6>	header 1 to header 6
<head>	document information
<hr>	horizontal rule
<html>	html document
<i>	italic text
<iframes>	inline sub window
	image
<input>	input field
<ins>	inserted text
<kbd>	keyboard text
<label>	label for a form control
<legend>	title in a fieldset
	list item
<link>	resource reference
	ordered list
<optgroup>	option group
<option>	option in a drop-down list
<p>	paragraph
<param>	parameter for an object
<pre>	preformatted object
<q>	short quotation
<samp>	sample computer code
<script>	script
<select>	selectable list
<small>	small text
	inline generic container
	strong text
<style>	style definition
<sub>	subscripted text
<sup>	superscripted text
<table>	table
<tbody>	table body
<td>	table cell
<textarea>	text area
<tfoot>	table footer
<th>	table header
<thead>	wraps row containing table headers
<title>	document title
<tr>	table row
	unordered list
<var>	variable

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HTML 5 NEW TAG	
TAG NOT SUPPORTED IN HTML 5	
<!--><!--></td> <td>Define a comment</td>	Define a comment
<!DOCTYPE>	Defines the document type
<a>	Defines a hyperlink href, hreflang, media, ping, rel, target, type
<abbr>	Defines an abbreviation
<acronym>	Used to define an embedded acronym
<address>	Defines an address element
<applet>	Used to define an embedded applet
<area>	Defines an area inside an image map alt, coords, href, hreflang, media, ping, rel, shape, target, type
<article>	Defines an article cite, pubdate
<aside>	Defines content aside from the page content
<audio>	Defines sound content autobuffer, autoplay, controls, src
	Defines bold text
<base>	Defines a base URL for all the links in a page href, target
<basefont>	Used to define a default font-color, font-size, or font-family for all the document
<bdo>	Defines the direction of text display dir
<big>	Used to make text bigger
<blockquote>	Defines a long quotation cite
<body>	Defines the body element
 	Inserts a single line break
<button>	Defines a push button autofocus, disabled, form, formaction, formenctype, formmethod, formnovalidate, formtarget, name, type, value
<canvas>	Defines graphics height, width
<caption>	Defines a table caption
<center>	Used to center align text and content
<cite>	Defines a citation
<code>	Defines computer code text autobuffer, autoplay, controls, src
<col>	Defines attributes for table columns
<colgroup>	Defines groups of table columns span
<command>	Defines a command button checked, disabled, form, label, mediatype, type
<datalist>	Defines a dropdown list
<dd>	Defines a definition description
	Defines deleted text cite, datetime
<details>	Defines details of an element open
<dialog>	Defines a dialog (conversation)
<dfn>	Defines a definition term
<dir>	Used to define a directory list
<div>	Defines a section in a document
<dl>	Defines a definition list
<dt>	Defines a definition term
	Defines emphasized text
<embed>	Defines external interactive content or plugin height, src, type, width
<fieldset>	Defines a fieldset disabled, form, name
<figure>	Defines a group of media content, and their caption
	Used to define font face, font size, and font color of text
<footer>	Defines a footer for a section or page
<form>	Defines a form accept-charset, action, autocomplete, enctype, method, name, novalidate, target
<frame>	Used to define one particular window frame within a frameset
<frameset>	Used to define a frameset, which organizes multiple windows (frames)
<h1> to <h6>	Defines header 1 to header 6
<head>	Defines information about the document
<header>	Defines a header for a section or page
<hgroup>	Defines information about a section in a document
<hr>	Defines a horizontal rule
<html>	Defines an html document manifest, xhtml
<i>	Defines italic text
<iframe>	Defines an inline sub window height, name, sandbox, seamless, src, width
	Defines an image alt, src, height, ismap, usemap, width
<input>	Defines an input field accept, alt, autocomplete, autofocus, checked, disabled, form, formaction, formenctype, formmethod, formnovalidate, formtarget, height, list, max, maxlength, min, multiple, name, pattern, placeholder, readonly, required, size, src, step, type, value, width
<ins>	Defines inserted text cite, datetime
<keygen>	Defines a generated key in a form autofocus, challenge, disabled, form, keytype, name
<kbd>	Defines keyboard text
<label>	Defines an inline sub window for, form
<legend>	Defines a title in a fieldset
	Defines a list item value
<link>	Defines a resource reference href, hreflang, media, rel, sizes, type
<map>	Defines an image map name
<mark>	Defines marked text
<menu>	Defines a menu list label, type
<meta>	Defines meta information charset, content, http-equiv, name
<meter>	Defines measurement within a predefined range high, low, max, min, optimum, value
<nav>	Defines navigation links
<noframes>	Used to display text for browsers that do not handle frames
<noscript>	Defines a noscript section
<object>	Defines an embedded object data, form, height, name, type, usemap, width
	Defines an ordered list reversed, start
<optgroup>	Defines an option group label, disabled
<option>	Defines an option in a dropdown list disabled, label, selected, value
<output>	Defines some types of output for, form, name
<p>	Defines a paragraph
<param>	Defines a parameter for an object name, value
<pre>	Defines preformatted text
<progress>	Defines progress of a task of any kind max, value
<q>	Defines a short quotation cite
<rp>	Used in ruby annotations to define what to show browsers that do not support the ruby element
<rt>	Defines explanation to ruby annotations
<ruby>	Defines ruby annotations
<s>, <strike>	Used to define strikethrough text.
<script>	Defines sample computer code nsrc, type charset defer, src
<section>	Defines a section cite
<select>	Defines a selectable list autofocus, disabled, form, multiple, name, size
<small>	Defines small text
<source>	Defines media resources media, src, type
	Defines a section in a document
	Defines strong text
<style>	Defines a style definition type, media, scoped
<sub>, <sup>	Defines sub/super-scripted text
<table>	Defines a table summary
<tbody>	Defines a table body summary
<td>	Defines a table cell colspan, headers, rowspan
<textarea>	Defines a text area autofocus, cols, disabled, form, maxlength, name, placeholder, readonly, required, rows, wrap
<tfoot>, <thead>	Defines a table footer / head
<th>	Defines a table header colspan, headers, rowspan, scope
<time>	Defines a date/time datetime
<title>	Defines the document title
<tr>	Defines a table row datetime
<tt>	Used to define teletype text
<u>	Used to define underlined text
	Defines an unordered list
<var>	Defines a variable
<video>	Defines a video autobuffer, autoplay, controls, height, loop, src, width

HTML5 TAG CHEAT SHEET

Created by WebsiteSetup.org



TAGS	MEANING	TAGS	MEANING	TAGS	MEANING
<a>	hyperlink	<h1>	heading level 1	<progress>	progress of a task
<abbr>	abbreviation	<h2>	heading level 2	<q>	short quotation
<address>	address element	<h2>	heading level 2	<rb>	marks the base text component of a ruby annotation.
<area>	area inside an image map	<h3>	heading level 3	<rp>	used for the benefit of browsers that don't support ruby annotations
<article>	article	<h4>	heading level 4		
		<h5>	heading level 5		
<aside>	content aside from the page content	<h6>	heading level 6	<rt>	ruby text component
<audio>	sound content	<head>	information about the document	<rtc>	marks a ruby text container for ruby text components in a ruby annotation.
	bold text	<header>	group of introductory or navigational aids	<ruby>	ruby annotation
<base>	base URL for all the links in a page	<hr>	horizontal rule	<s>	Indicates text that's no longer accurate or relevant.
<bdi>	bi-directional text formatting	<html>	html document		
<bdo>	direction of text display	<i>	italic text	<samp>	sample computer code
<blockquote>	long quotation	<iframe>	inline sub window (frame)	<script>	script
<body>	body element		image	<section>	section
 	single line break	<input>	input field	<select>	selectable list
<button>	push button	<ins>	inserted text	<small>	small text
<canvas>	define graphics	<kbd>	keyboard text	<source>	media resources
<caption>	table caption	<keygen>	generates a key pair		section in a document
<cite>	citation	<label>	label for form control		strong text
<code>	computer code text	<legend>	title in a fieldset	<style>	style definition
<col>	table columns		list item	<sub>	subscripted text
<colgroup>	groups of table columns	<link>	resource reference	<summary>	summary / caption for the <details> element
<data>	Allows machine-readable data to be provided	<main>	main content area of an HTML document.	<sup>	superscripted text
<datalist>	"autocomplete" dropdown list	<map>	image map	<table>	table
<dd>	definition description	<mark>	marked text	<tbody>	table body
	deleted text	<menu>	menu list	<td>	table cell
<details>	details of an element	<menuitem>	command that user can invoke from popup menu	<textarea>	text area
				<tfoot>	table footer
<dfn>	definition term	<meta>	meta information	<th>	table header
<dialog>	part of an application is interactive.	<meter>	measurement within a predefined range	<thead>	table header
<div>	section in a document, definition list	<nav>	navigation links	<time>	date/time
<dl>		<noscript>	noscript section	<title>	document title
<dt>	definition term	<object>	embedded object	<tr>	table row
				<track>	text track for media such as video and audio
	emphasized text		ordered list	<u>	text with a non-textual annotation.
<embed>	external application or interactive content	<optgroup>	option group		unordered list
<fieldset>	fieldset	<option>	option in a drop-down list	<var>	variable
<figcaption>	caption for the figure element.	<output>	types of output	<video>	video
<figure>	group of media content, and their caption	<p>	paragraph	<wbr>	line break opportunity for very long words and strings of text with no spaces.
<footer>	footer section or page	<param>	parameter for an object		
<form>	specifies a form	<pre>	preformatted text		