

```
<div class="container-box">
```

```
</div>
```



The div and the TAB key

In HTML, you use the TAB key to indent the children of divs.

Text Editors display indents with vertical dotted lines

To help you see where divs start and end, Sublime Text and other text editors display dotted vertical lines, from the top of the div to the end.

Dotted line
to help you
visually
connect
start and end
of div

```
<div class="container bg-purple">
  <h2>A Tale of Two Cities, by Charles Dickens</h2>
  <p>It was the best of times, it was the worst of
    times. It was the age of wisdom, it was the age of
    foolishness. It was the season of Light, it was
    the season of Darkness.</p>
</div>
```

HTML is correct.
But is ...
harder to read
and easier to
make a mistake

```
<div class="container bg-purple">
<h2>A Tale of Two Cities, by Charles Dickens</h2>
<p>It was the best of times, it was the worst of
times. It was the age of wisdom, it was the age of
foolishness. It was the season of Light, it was
the season of Darkness.</p>
</div>
```

Bottomless
dotted line
reveals that
closing div
tag has been
forgotten

```
<div class="container bg-purple">
  <h2>A Tale of Two Cities, by Charles Dickens</h2>
  <p>It was the best of times, it was the worst of
    times. It was the age of wisdom, it was the age of
    foolishness. It was the season of Light, it was
    the season of Darkness.</p>
```

- **Word-processing:** Left edge is typically formatted in a straight, vertical line.
- **HTML:** Left-edge indented to make HTML easier to read and understand - and more difficult to make mistakes.

Introduction

HTML tags (typically) come in pairs: one *opening*

You will find the keys for **angle brackets** <> at your keyboard.

Text editors will typically **autocomplete** HTML.

About HTML elements

A HTML element is typically some text in a HTML *closing tags*. A HTML element could be a single

HTML tags and classes

You can add or more classes to an opening HTML begins with the single word **class**, followed by name(s) of the class(es).

The element is styled according to the property (left) of named class selector(s) in the linked CSS

About HTML tags

You will find the keys for **angle brackets** <> at your keyboard.

Text editors will typically **autocomplete** HTML.

HTML sibling elements

These are elements that are at the *same level* in a page, one after the other.

Each sibling (for example, <p>) begins only *after*

HTML parent-child elements

Some HTML elements can be *nested* inside of

One example of nested elements in HTML is the tags And each child or *inner* element

Another example of parent-child elements are the content within a web page.

```
<h1 class="slide-in-top">Google

<div class="box-font-details">
  <p>Google Font: <b>PT Serif</b>
</div>

<p>Blah blah blah blah blah blah

<div class="box-highlight">
  <h3>SPECIAL OFFER</h3>
  <p>Order before Friday next
  discount.</p>
</div>

<p>Blah blah blah blah blah blah

<div class="container cols-3">
  <div class="col">
    <h5>E-commerce</h5>
    <p>We help ecommerce companies
    sales by delivering image
    customers.</p>
  </div>

  <div class="col">
    <h5>E-commerce</h5>
    <p>We help ecommerce companies
    sales by delivering image
    customers.</p>
  </div>

  <div class="col">
    <h5>E-commerce</h5>
    <p>We help ecommerce companies
    sales by delivering image
    customers.</p>
  </div>
</div>
```

Media queries

Media queries control how web content is displayed on different-sized screens('viewports').

Mobile Phones

| | |
|--------------------------------------|---------------|
| iPhone 5 | 320px x 568px |
| Samsung Galaxy S3, S4 | 320px x 640px |
| Samsung Galaxy S5, S7 | 360px x 640px |
| Samsung Galaxy S8, S9 | 360px x 740px |
| iPhone 6, 7, 8 | 375px x 667px |
| iPhone X | 375px x 812px |
| Google Pixel, Google Pixel 2 | 412px x 732px |
| Google Pixel 3 | 412px x 824px |
| Nexus 6P, 5X | 412px x 732px |
| iPhone 6 Plus, 7 Plus, 8 Plus | 414px x 736px |
| iPhone XS Max, XR | 414px x 896px |

Tablets

| | |
|------------------------------|-----------------|
| iPad | 768px x 1024px |
| iPad Pro | 1024px x 1366px |
| Nexus 9 | 768px x 1024px |
| Samsung Galaxy Tab 10 | 800px x 1280px |
| Chromebook Pixel | 1280px x 850px |

Laptops/Desktops

| | |
|---------------------------|-----------------|
| Common widths and heights | 1280px x 800px |
| | 1280px x 1024px |
| | 1440px x 900px |
| | 1366px x 768px |
| | 1600px x 1280px |
| | 1800px x 1440px |
| | 1920px x 1080px |
| | 2560px x 1600px |
| | 2560px x 1700px |
| | 2880px x 1800px |

DESKTOP (768px or wider)

```
/* Desktop */  
@media all and (min-width:768px) {  
  
}  
}
```

MEDIA QUERY




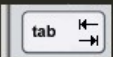

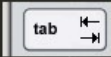


MOBILE (767px or narrower)

```
/* Mobile */  
@media all and (max-width:767px) {  
  
}  
}
```

MEDIA QUERY



```
/* Desktop */  
@media all and (min-width:768px) {  
   .hero-block {  
     height: 480px;  
     margin-bottom: 80px  
  }  
}  
  
/* Mobile */  
@media all and (max-width:767px) {  
   .hero-block {  
     height: 380px;  
     margin-bottom: 40px  
  }  
}
```

THE SAME

```
/* === HERO BLOCK === */  
  
.hero-block {  
  width: 100%;  
  background-color: lightblue  
}
```



WIDTH Always 100%



BACKGROUND Always light blue

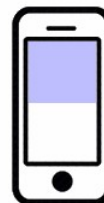
DIFFERENT

```
/* Desktop */  
@media all and (min-width:768px) {  
  .hero-block {  
    height: 480px;  
    margin-bottom: 80px  
  }  
}
```



TABLET / LAPTOP /
DESKTOP
480px high

```
/* Mobile */  
@media all and (max-width:767px) {  
  .hero-block {  
    height: 380px;  
    margin-bottom: 40px  
  }  
}
```



MOBILE
PHONE
380px high


```
.hero-block {  
  width: 100%;  
  background-color: lightblue  
}
```

START

END

VERTICAL STRAIGHT LINES

```
.hero-block {  
  width: 100%;  
  background-color: lightblue  
}
```

USE TAB KEYS

```
.hero-block {  
  width: 100%;  
  background-color: lightblue  
}
```


COLON AND SEMI-COLON KEYS

```
.hero-block {  
  width : 100%;  
  background-color : lightblue  
}
```

MEDIA QUERY

```
/* Desktop */  
@media all and (min-width:768px) {  
  .hero-block {  
    height: 480px;  
    margin-bottom: 80px  
  }  
}
```


CSS



MEDIA QUERY

```
/* Mobile */  
@media all and (max-width:767px) {  
  .hero-block {  
    height: 380px;  
    margin-bottom: 40px  
  }  
}
```

CSS



VERTICAL STRAIGHT LINE

MEDIA QUERY START



```
/* Desktop */  
@media all and (min-width:768px) {  
  
}
```

MEDIA QUERY END

MEDIA QUERY START

```
/* Mobile */  
@media all and (max-width:767px) {  
  
}
```

MEDIA QUERY END



VERTICAL STRAIGHT LINE

CSS START

```
/* Desktop */  
@media all and (min-width:768px) {  
  .hero-block {  
    height: 480px;  
    margin-bottom: 80px  
  }  
}
```

CSS END

CSS START

```
/* Mobile */  
@media all and (max-width:767px) {  
  .hero-block {  
    height: 380px;  
    margin-bottom: 40px  
  }  
}
```

CSS END