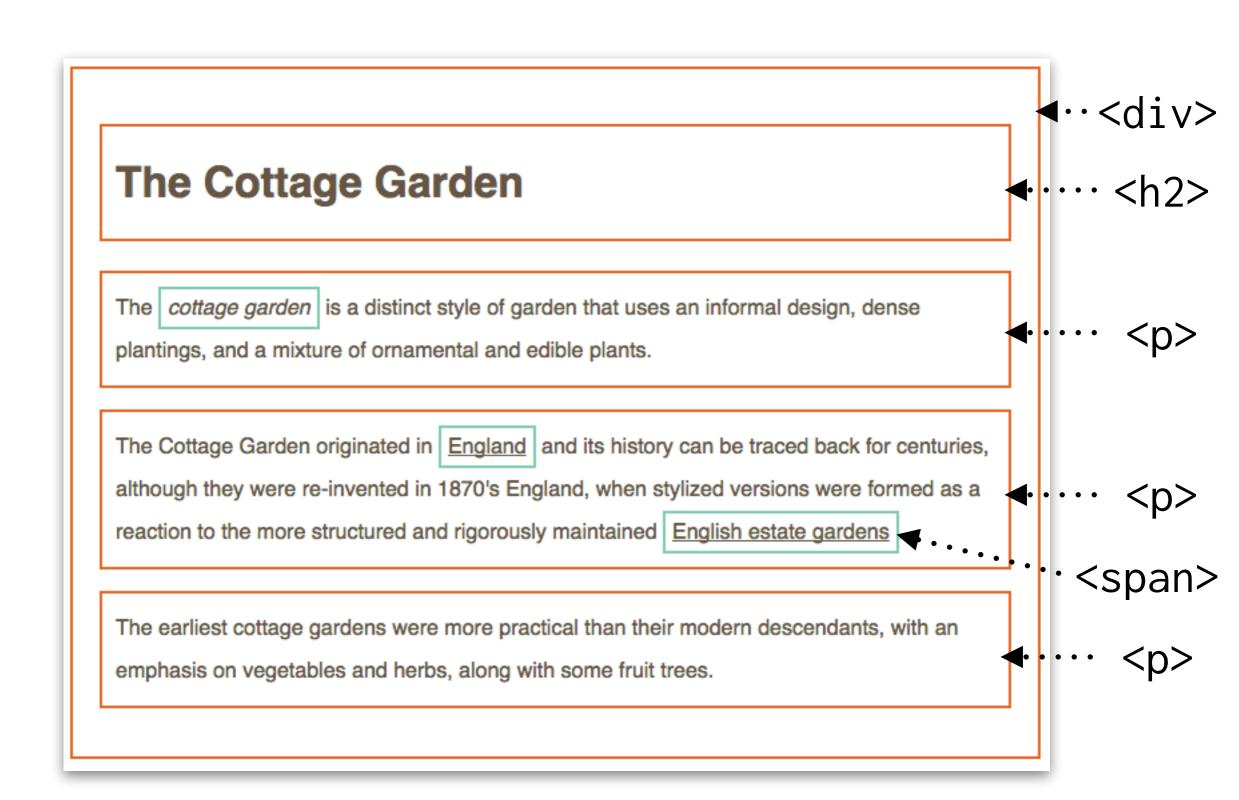
## Intro to CSS

#### The Cottage Garden

The *cottage garden* is a distinct style of garden that uses an informal design, dense plantings, and a mixture of ornamental and edible plants.

The Cottage Garden originated in <u>England</u> and its history can be traced back for centuries, although they were re-invented in 1870's England, when stylized versions were formed as a reaction to the more structured and rigorously maintained <u>English estate gardens</u>.



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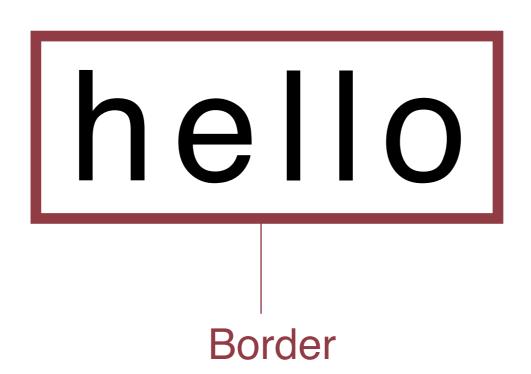
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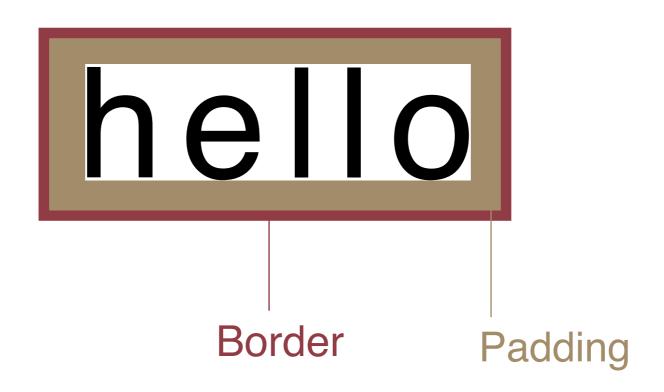
#### The Cottage Garden

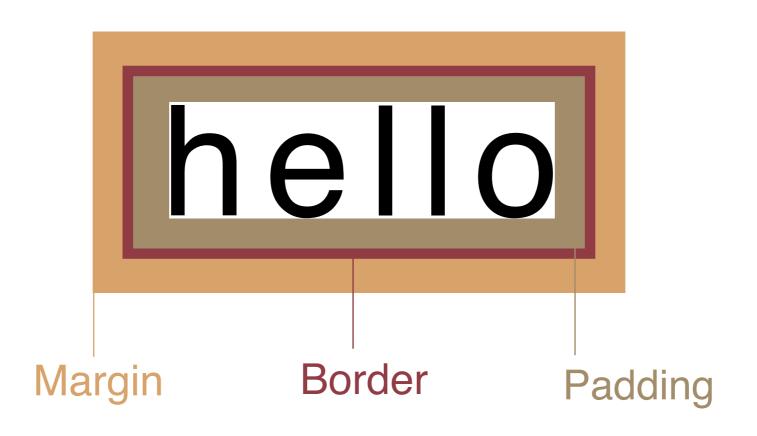
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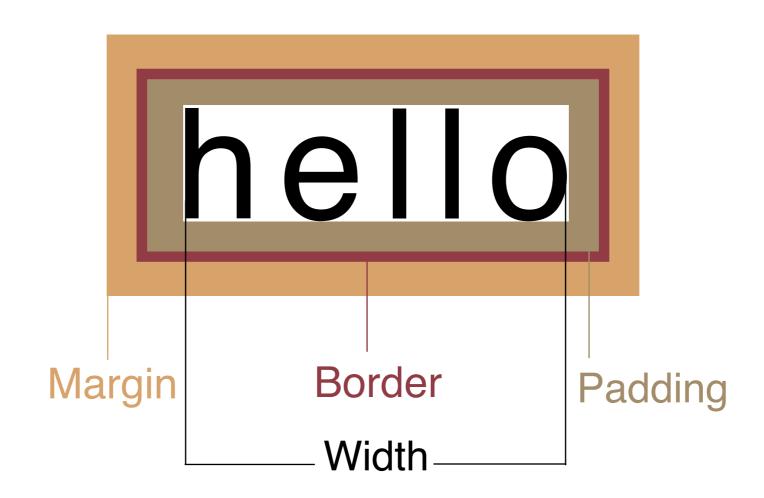
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hello

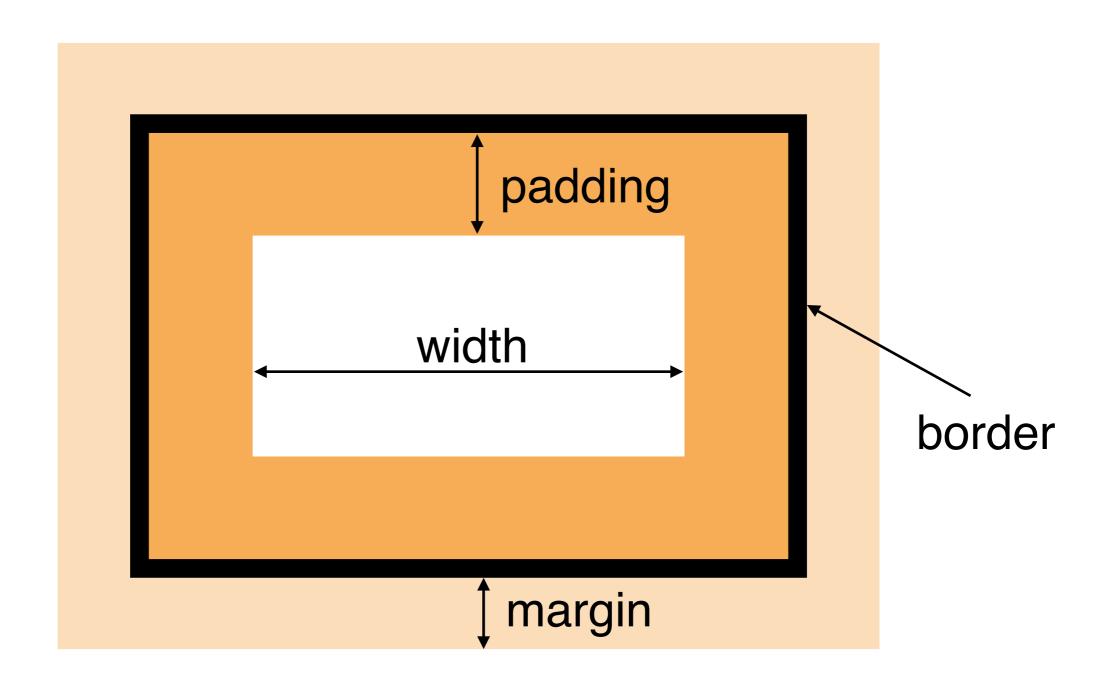








## The Box Model Properties



## Block vs Inline

#### The Cottage Garden

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The Cottage Garden originated in England and its history can be traced back for centuries, although they were re-invented in 1870's England, when stylized versions were formed as a reaction to the more structured and rigorously maintained English estate gardens.

The earliest cottage gardens were more practical than their modern descendants, with an emphasis on vegetables and herbs, along with some fruit trees.

### Block Elements

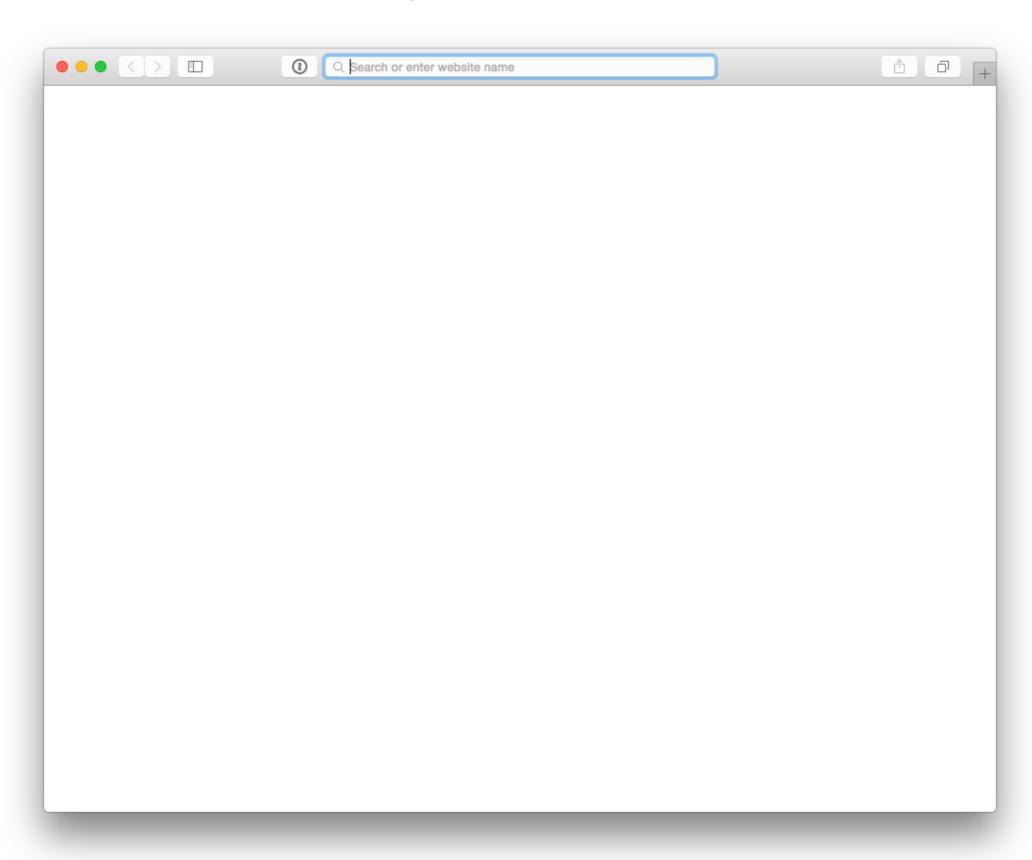
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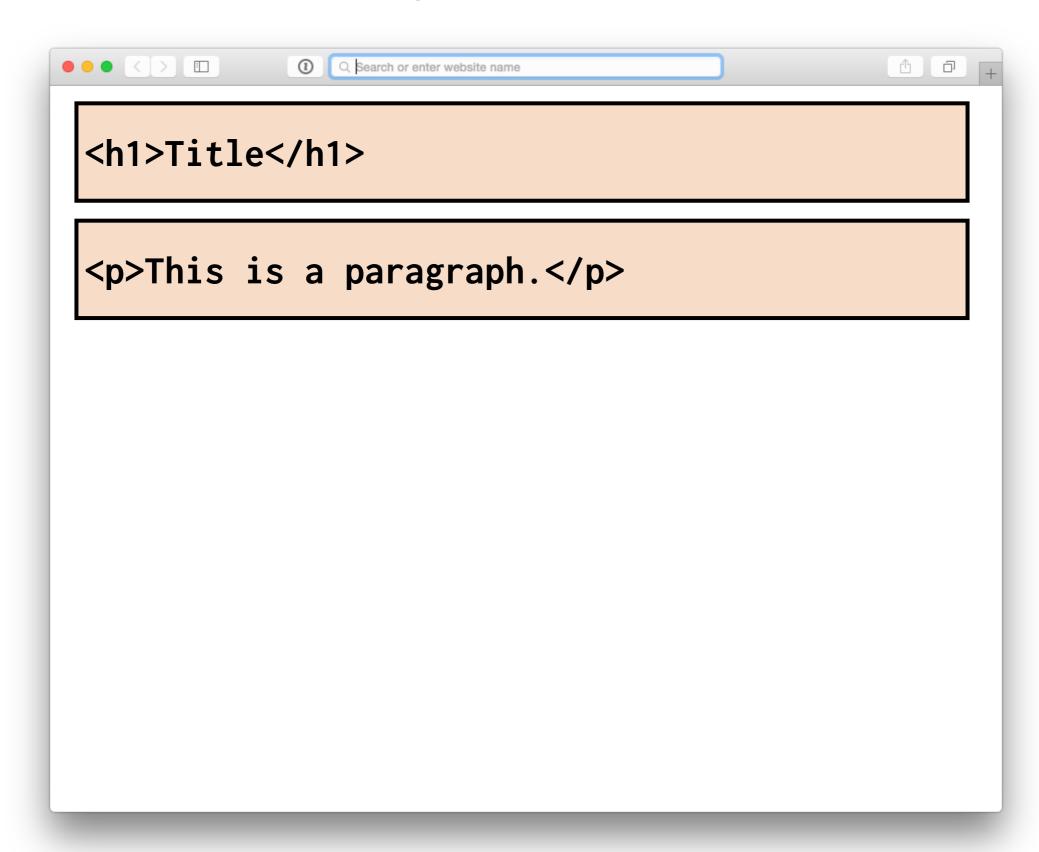
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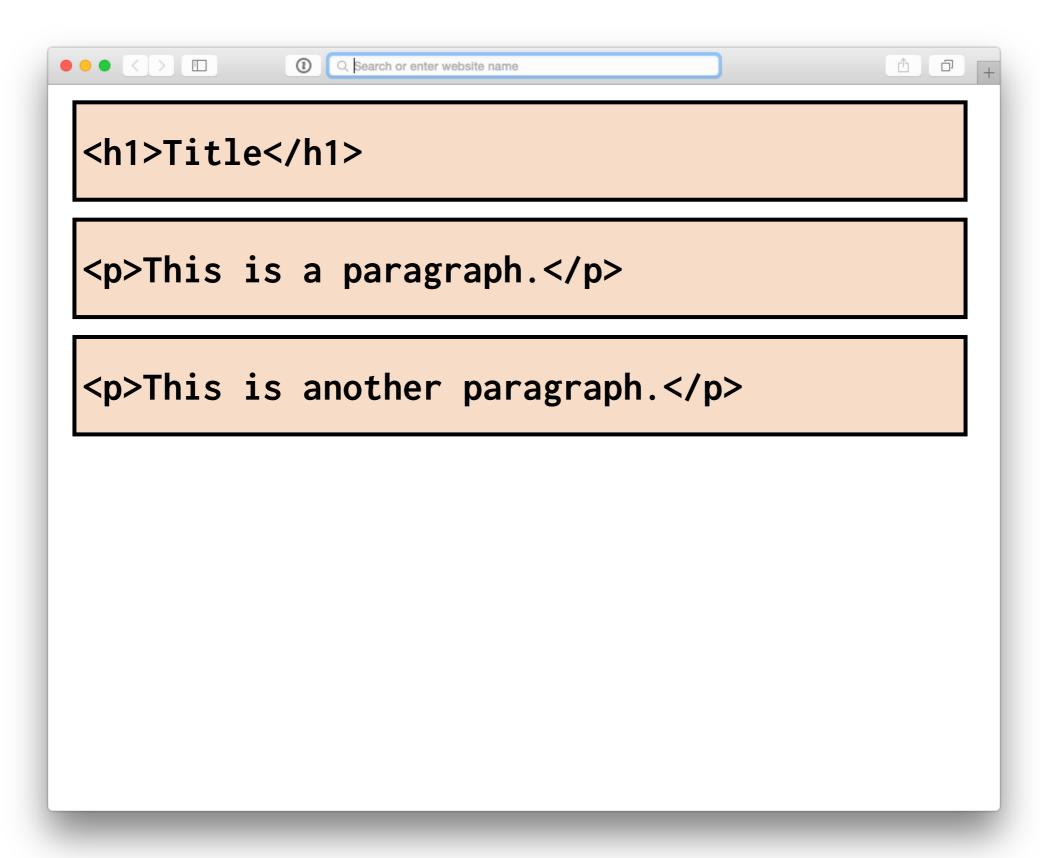
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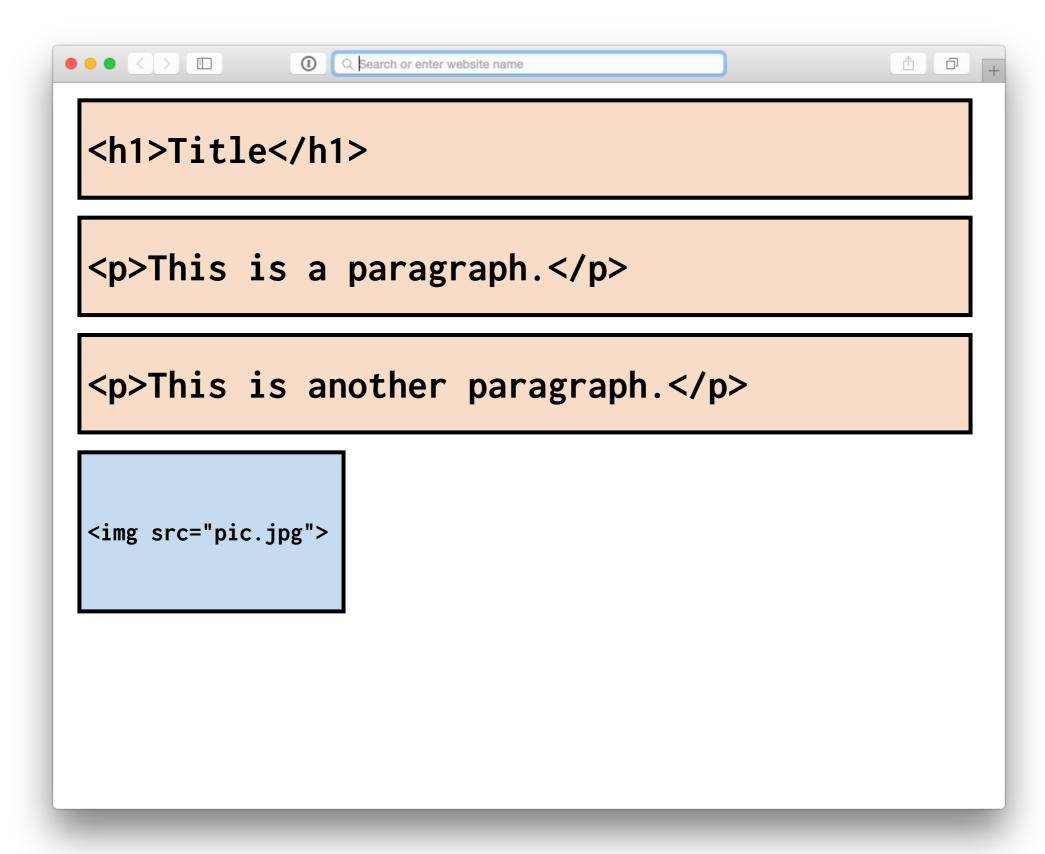
#### Inline Elements

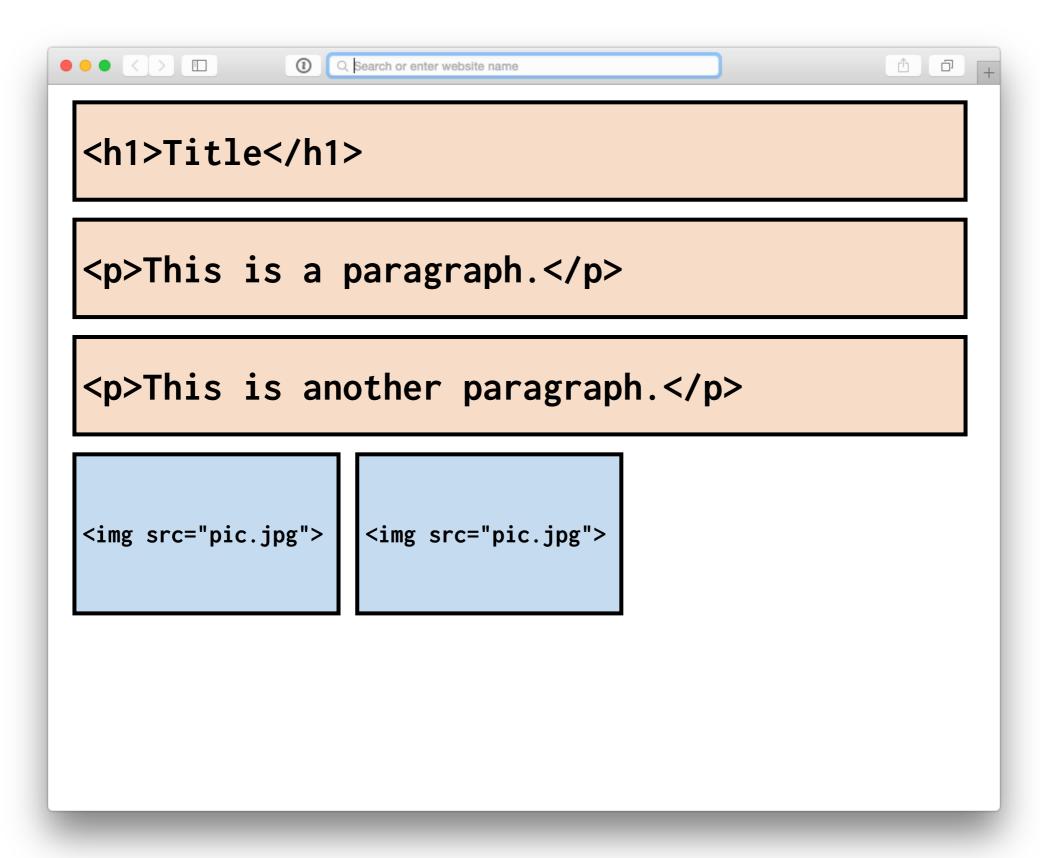


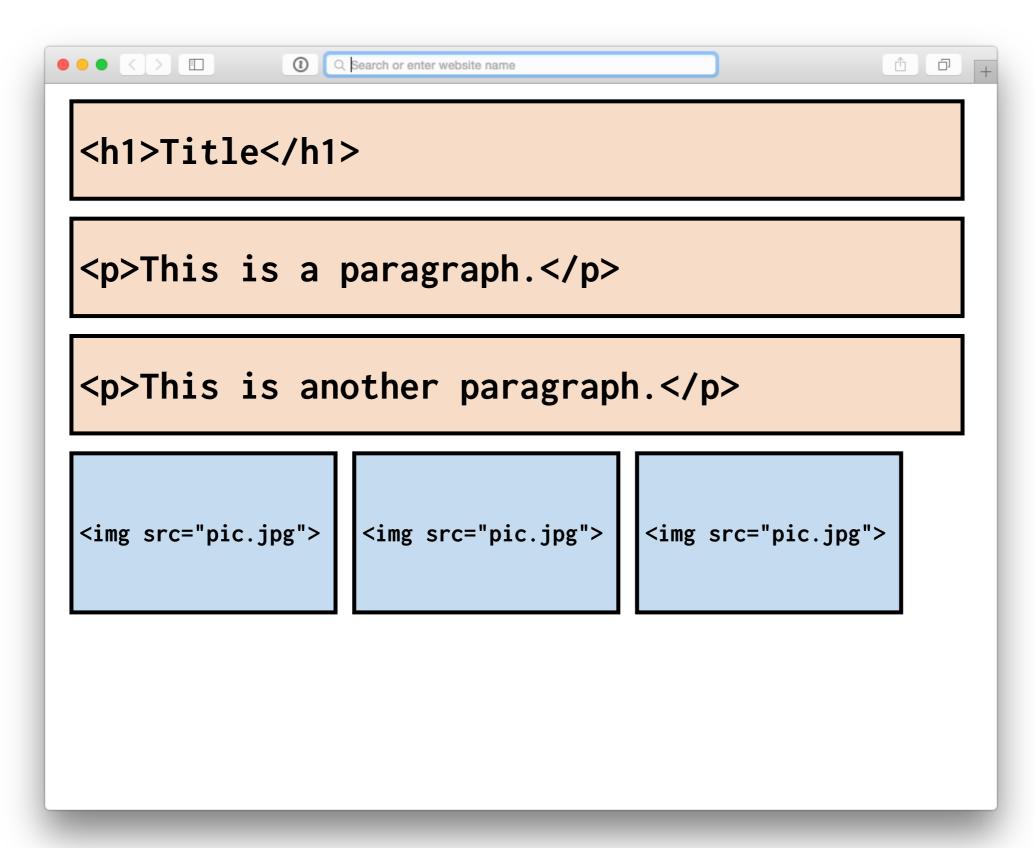


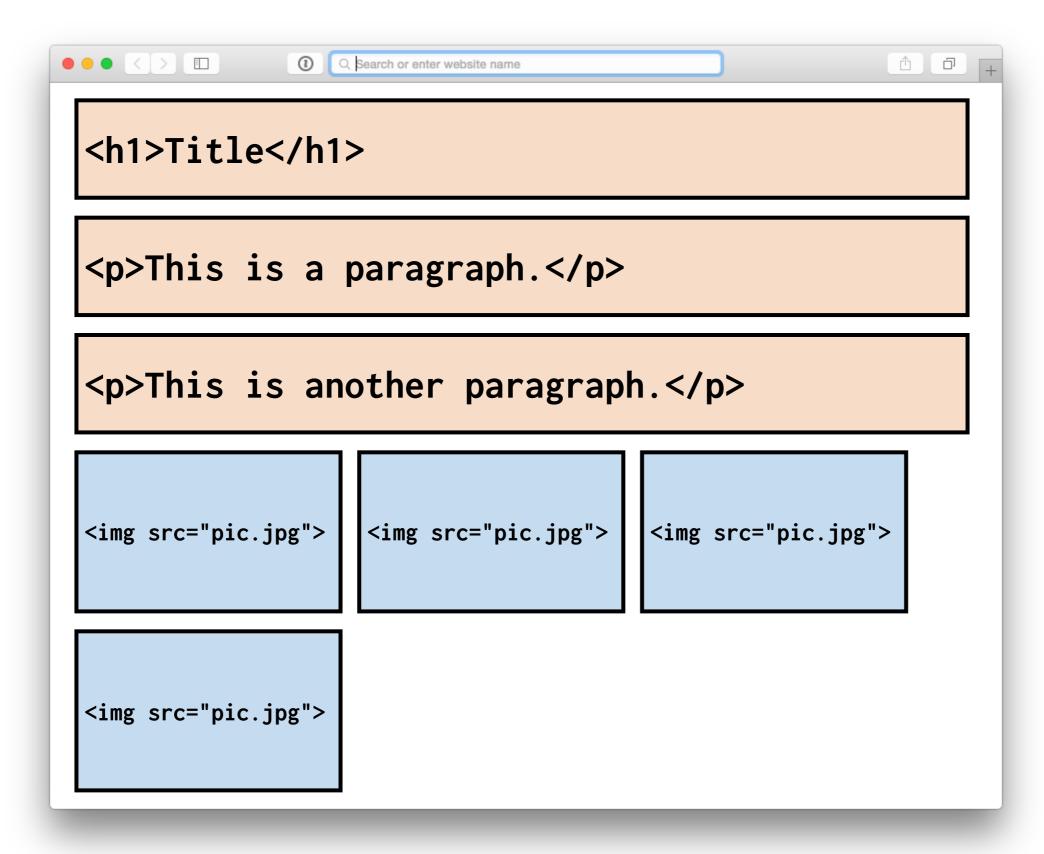


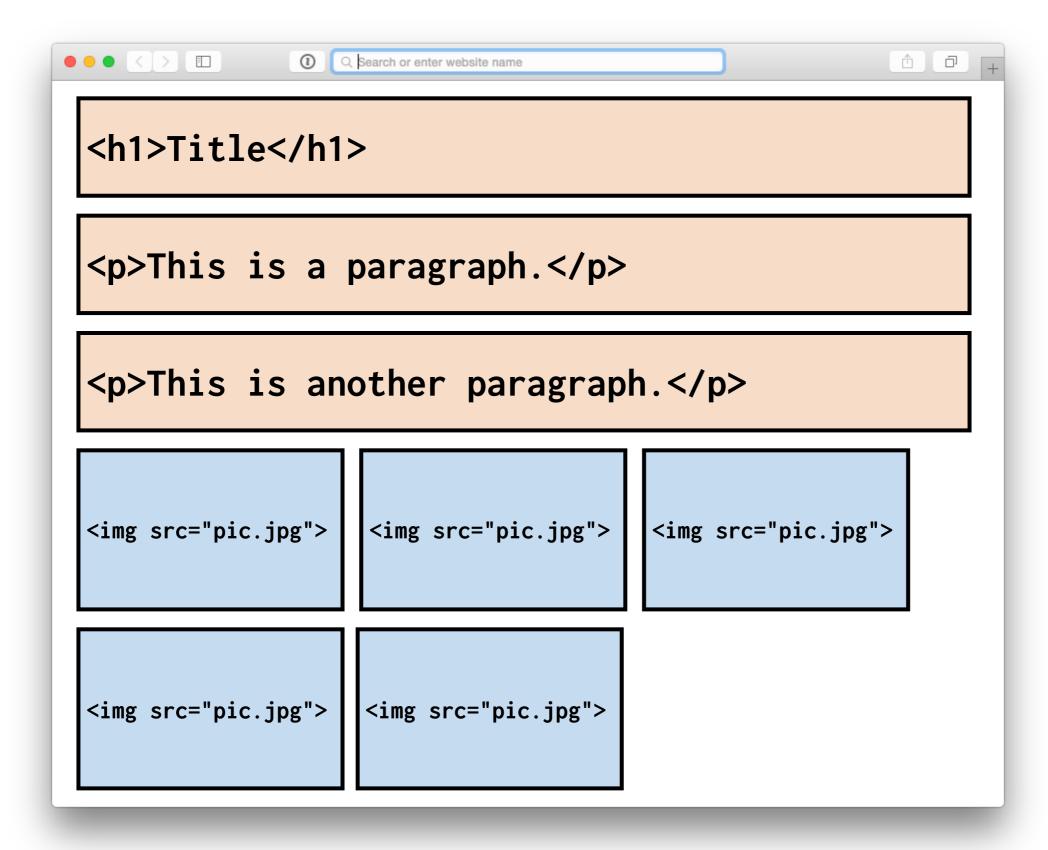


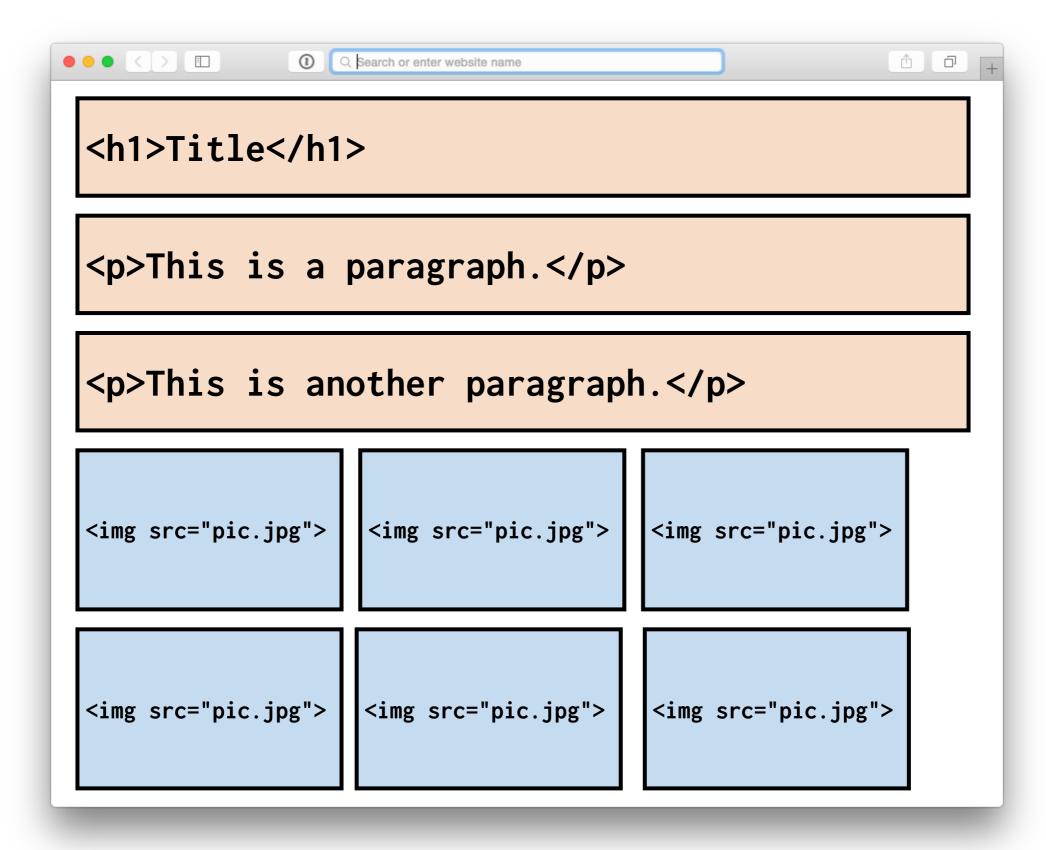








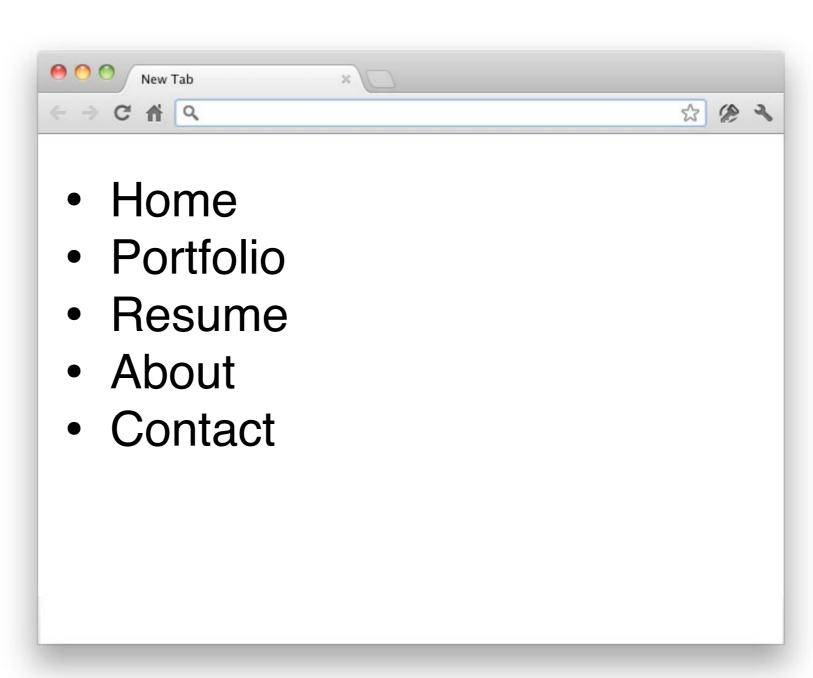




#### **CSS**

```
li {
}
```

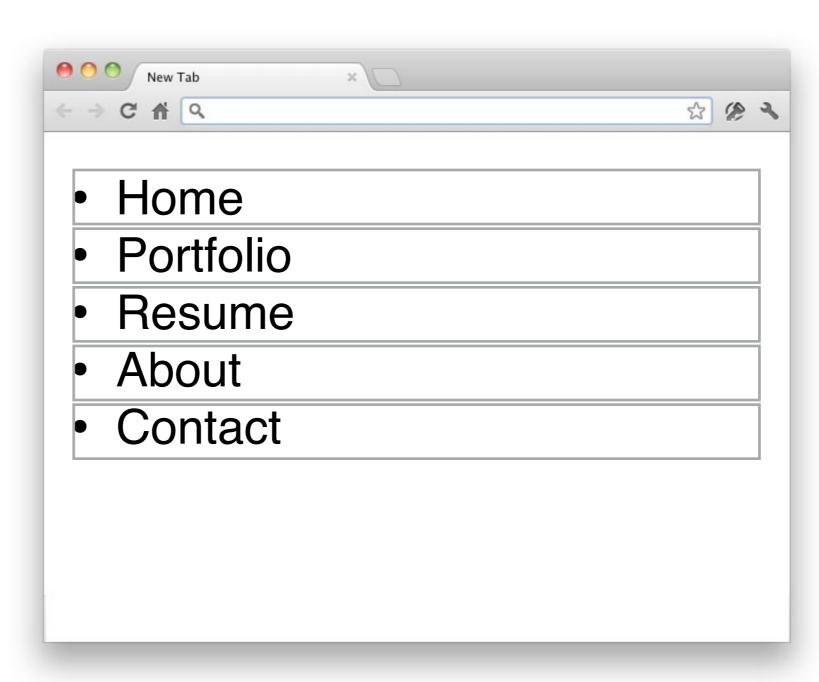
```
    Home
    Portfolio
    Resume
    About
    Contact
```



#### **CSS**

```
li {
}
```

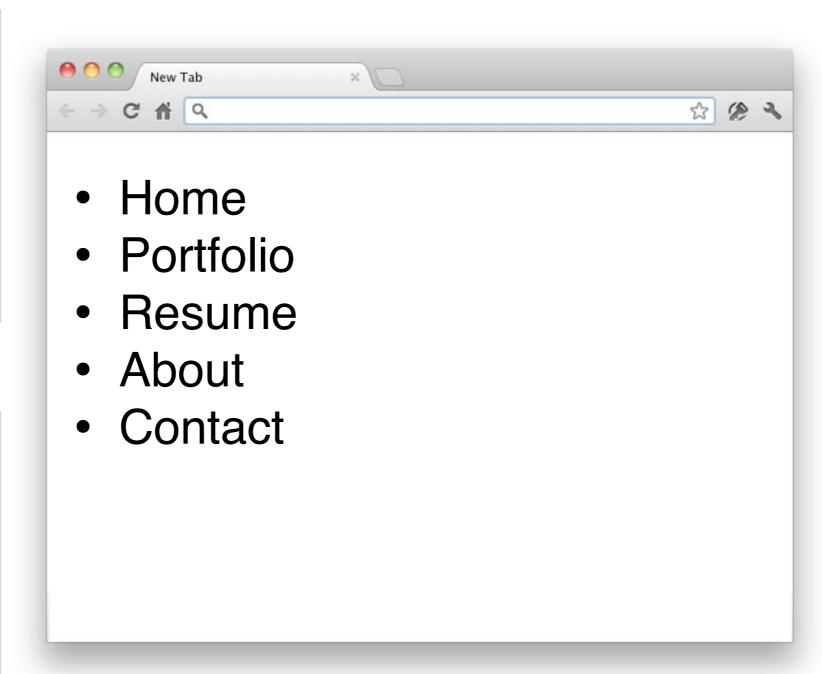
```
    Home
    Portfolio
    Resume
    About
    Contact
```



#### **CSS**

```
li {
  display: inline;
}
```

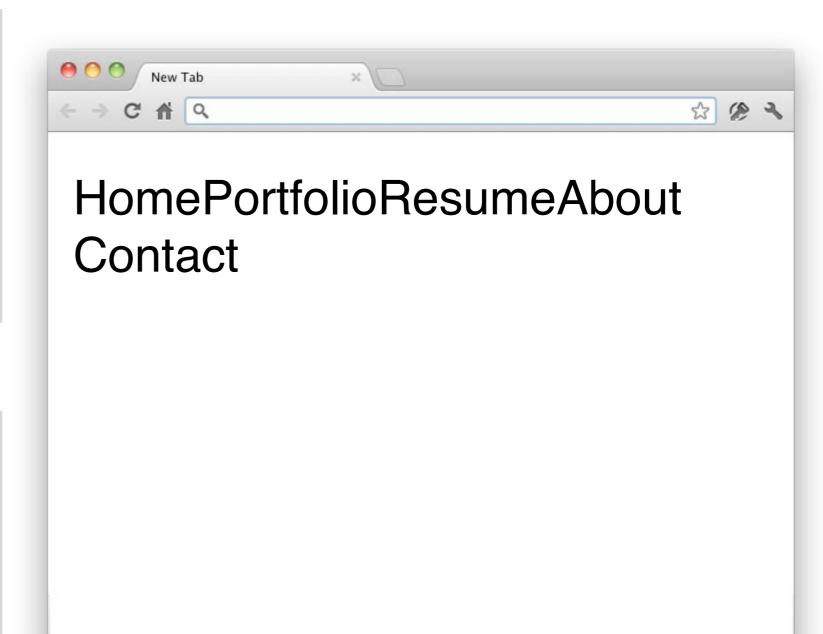
```
    Home
    Portfolio
    Resume
    About
    Contact
```



#### **CSS**

```
li {
   display: inline;
}
```

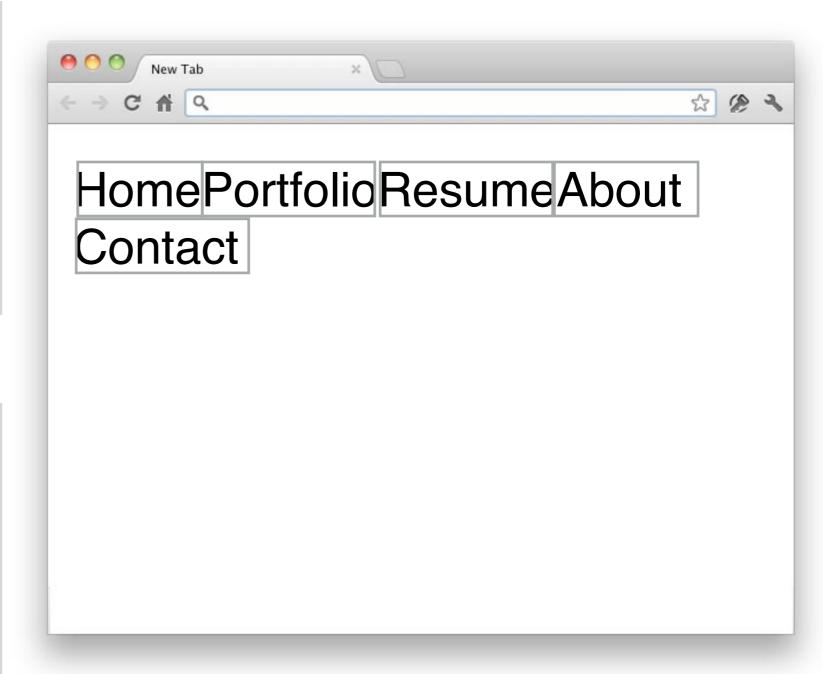
```
    Home
    Portfolio
    Resume
    About
    Contact
```



#### **CSS**

```
li {
   display: inline;
}
```

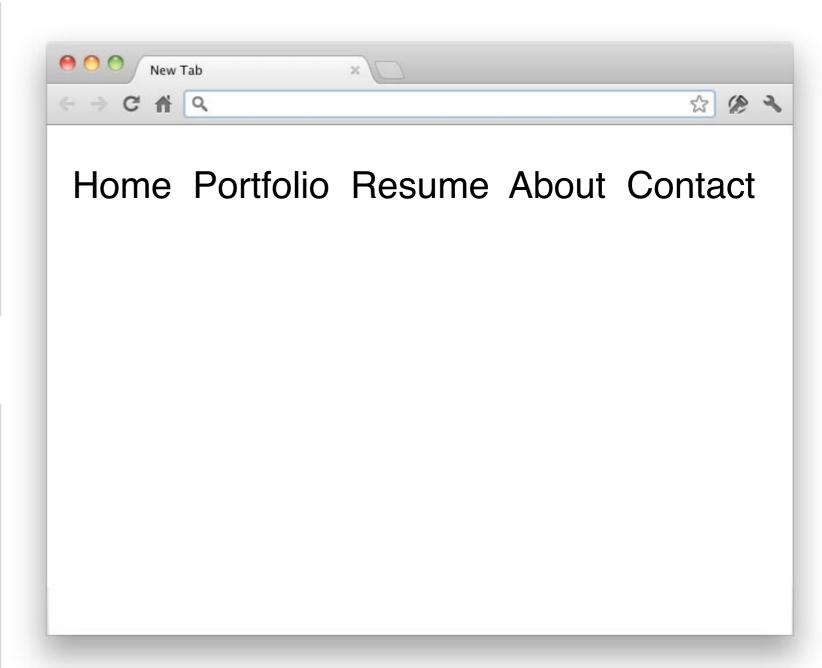
```
HomeHomePortfolioResumeAboutContact
```



#### **CSS**

```
li {
    display: inline;
    padding: 5px;
    font-size: 12px;
}
```

```
HomeHomePortfolioResumeAboutContact
```



## Learning the rules

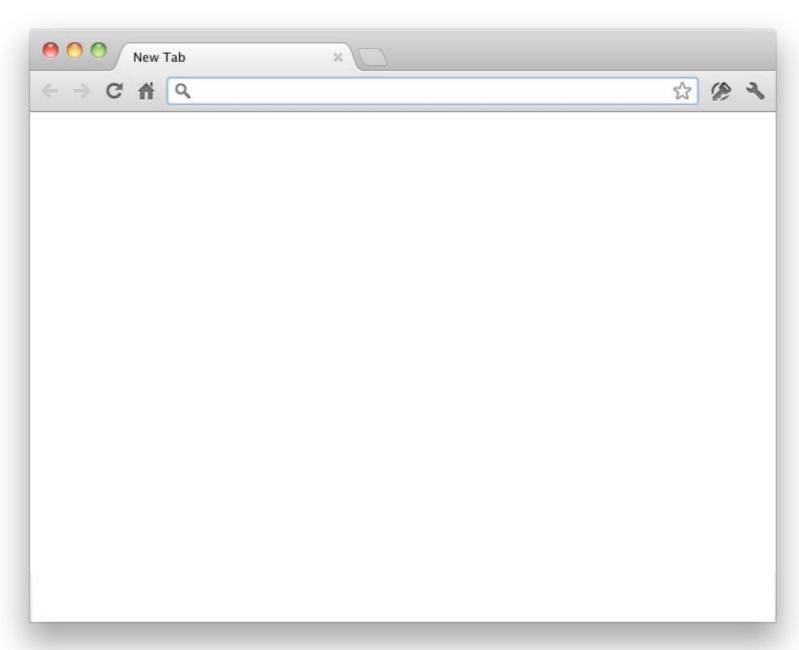
## Rules for Block-level Elements

- By default a box will have a width of "auto", or the full width of its container.
- By default a box will have a height that conforms to the content of that box.
- If you set a height in CSS, that overrides the content.
- By default a box will stack from the top down.

#### **CSS**



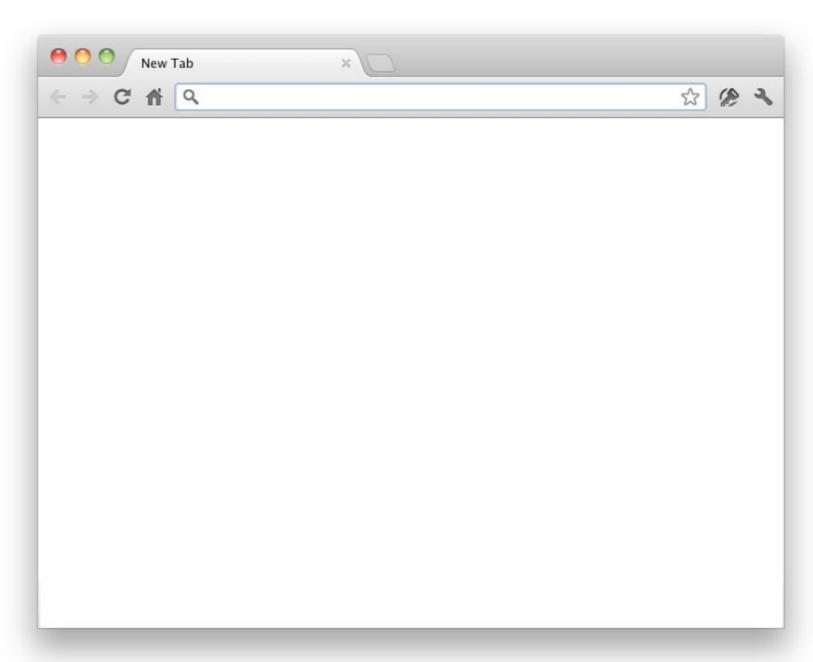




#### **CSS**

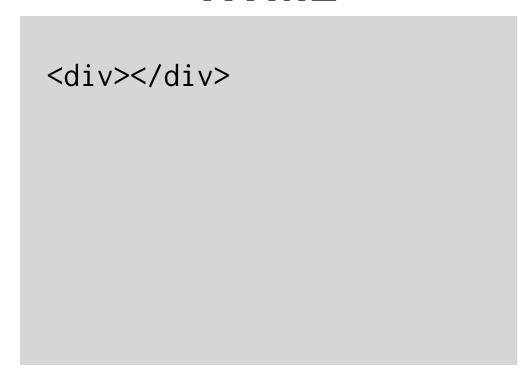
```
div {
  border:1px solid black;
}
```

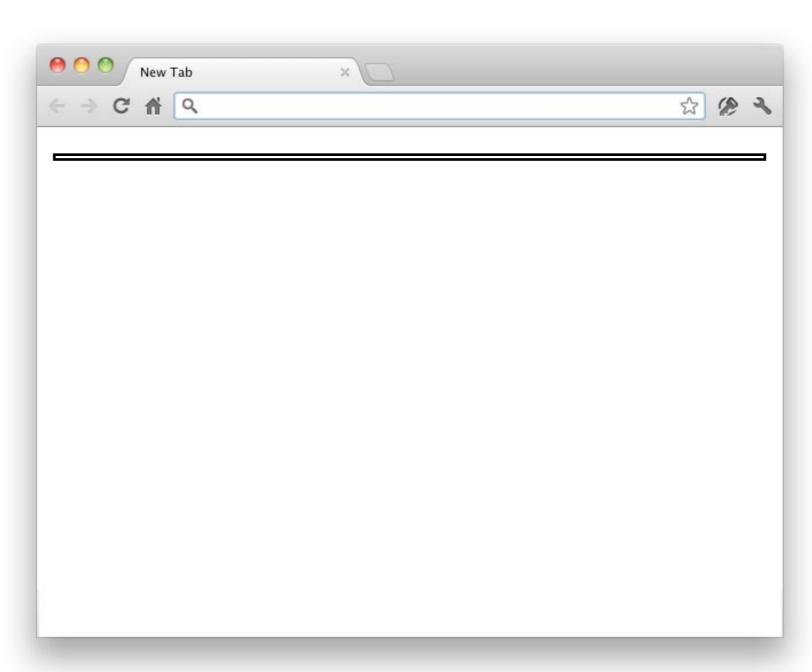




#### **CSS**

```
div {
  border:1px solid black;
}
```

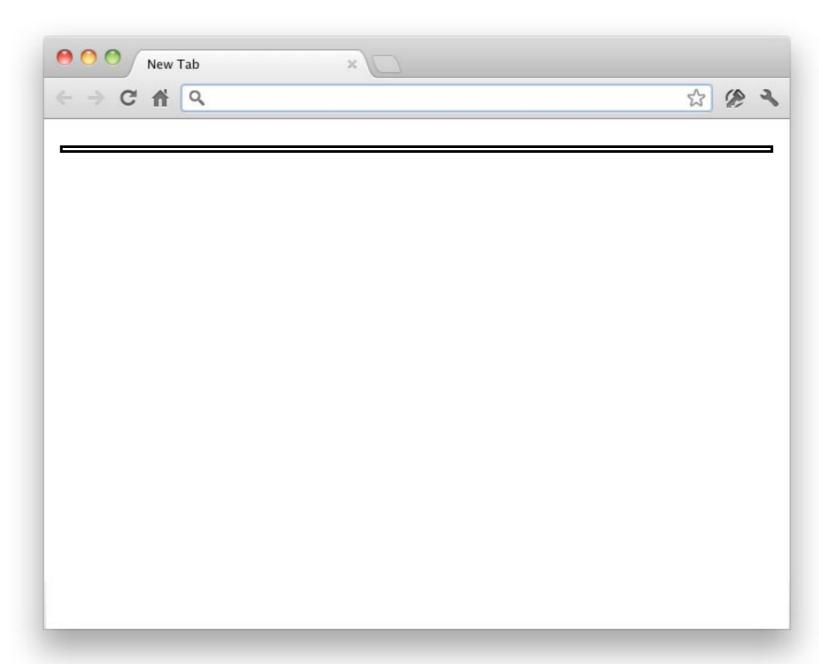




#### **CSS**

```
div {
  border:1px solid black;
}
```

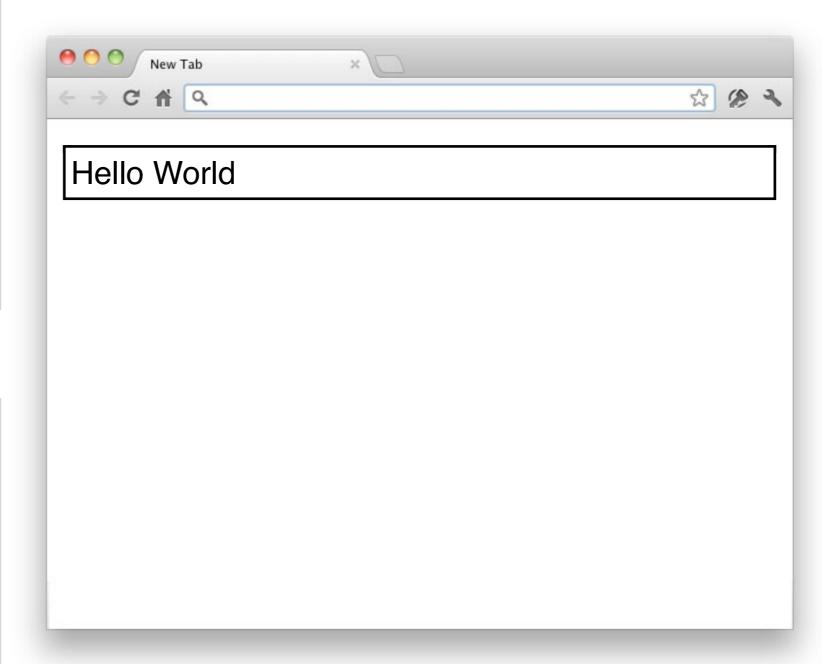
```
<div>
Hello World!
</div>
```



#### **CSS**

```
div {
  border:1px solid black;
}
```

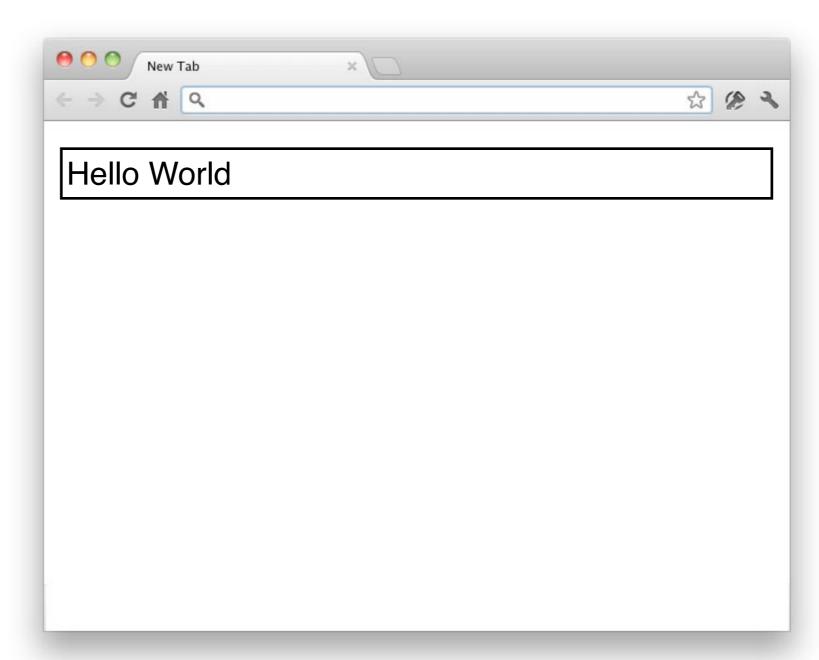
```
<div>
Hello World!
</div>
```



#### **CSS**

```
div {
  border:1px solid black;
  height: 5px;
}
```

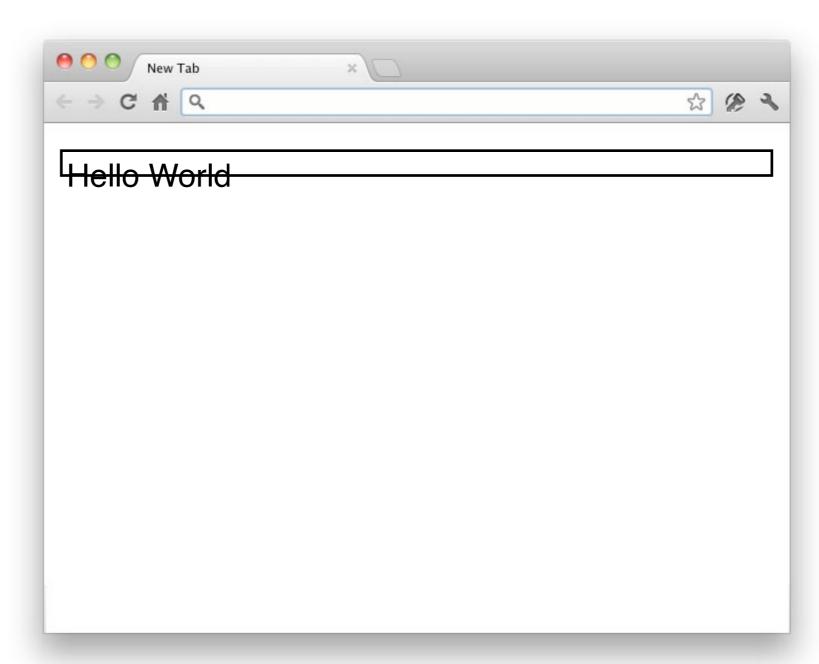
```
<div>
Hello World!
</div>
```



#### **CSS**

```
div {
  border:1px solid black;
  height: 5px;
}
```

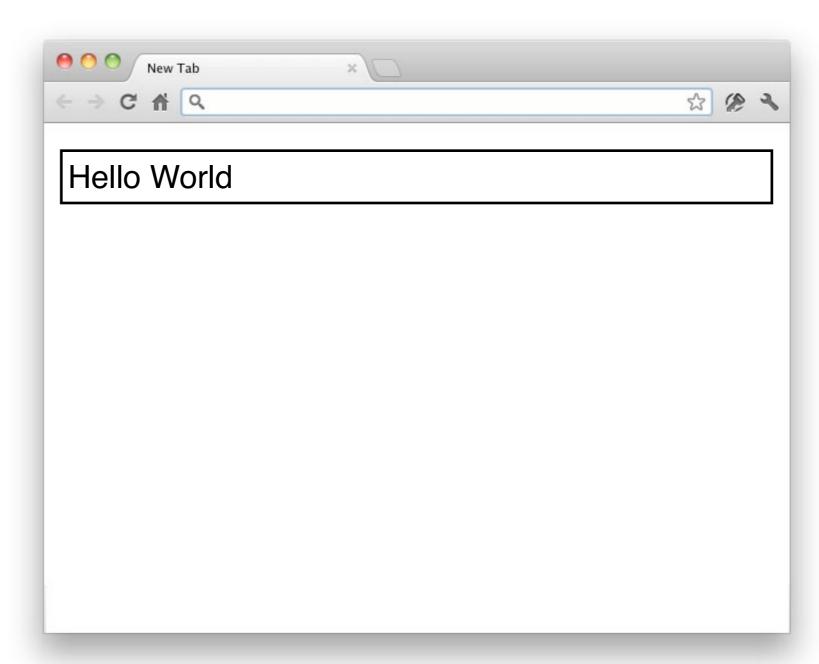
```
<div>
Hello World!
</div>
```



#### **CSS**

```
div {
  border:1px solid black;
}
```

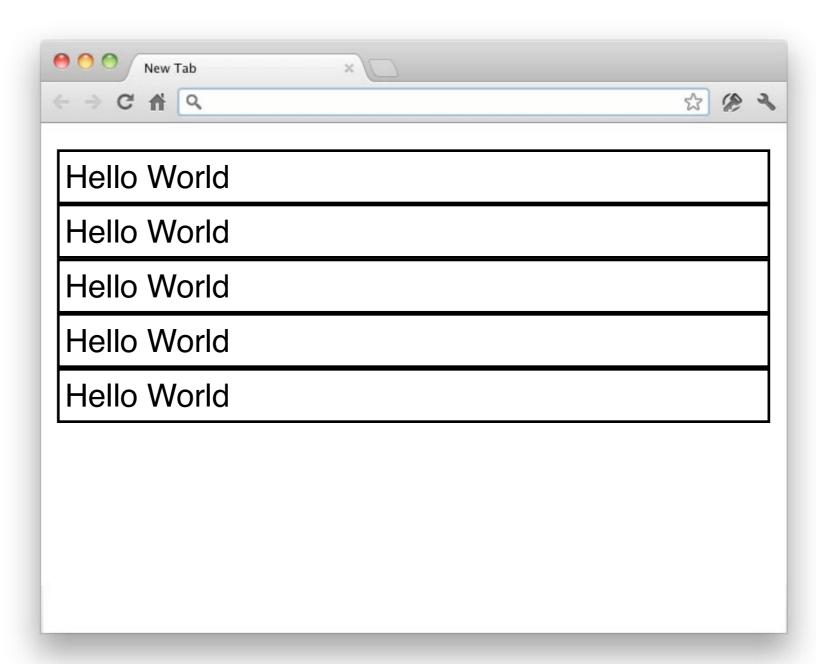
```
<div>Hello World!</div>
<div>Hello World!</div>
<div>Hello World!</div>
<div>Hello World!</div>
<div>Hello World!</div>
```

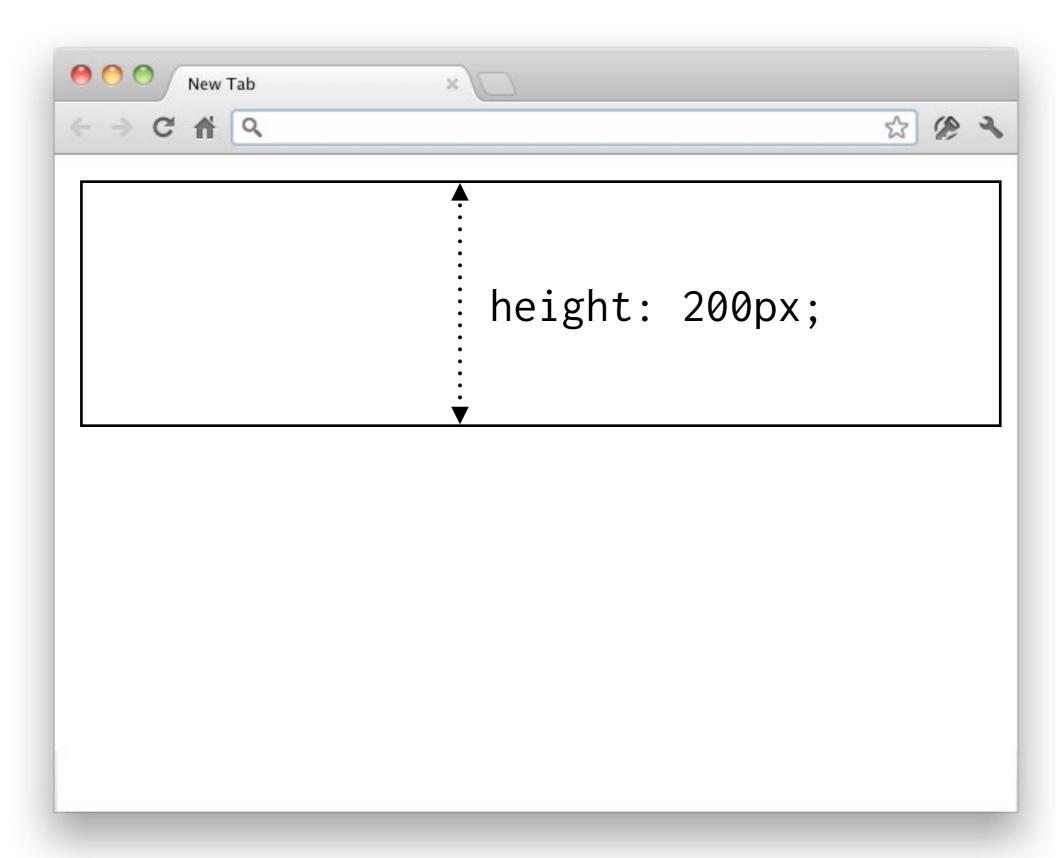


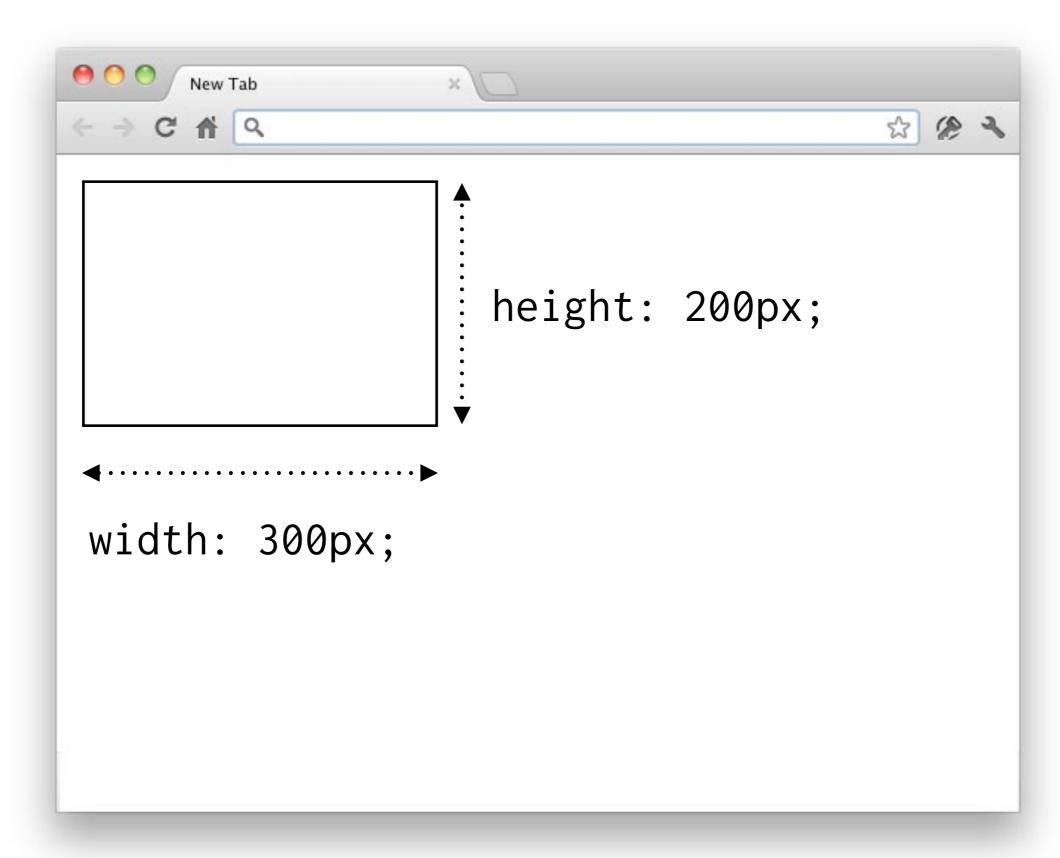
#### **CSS**

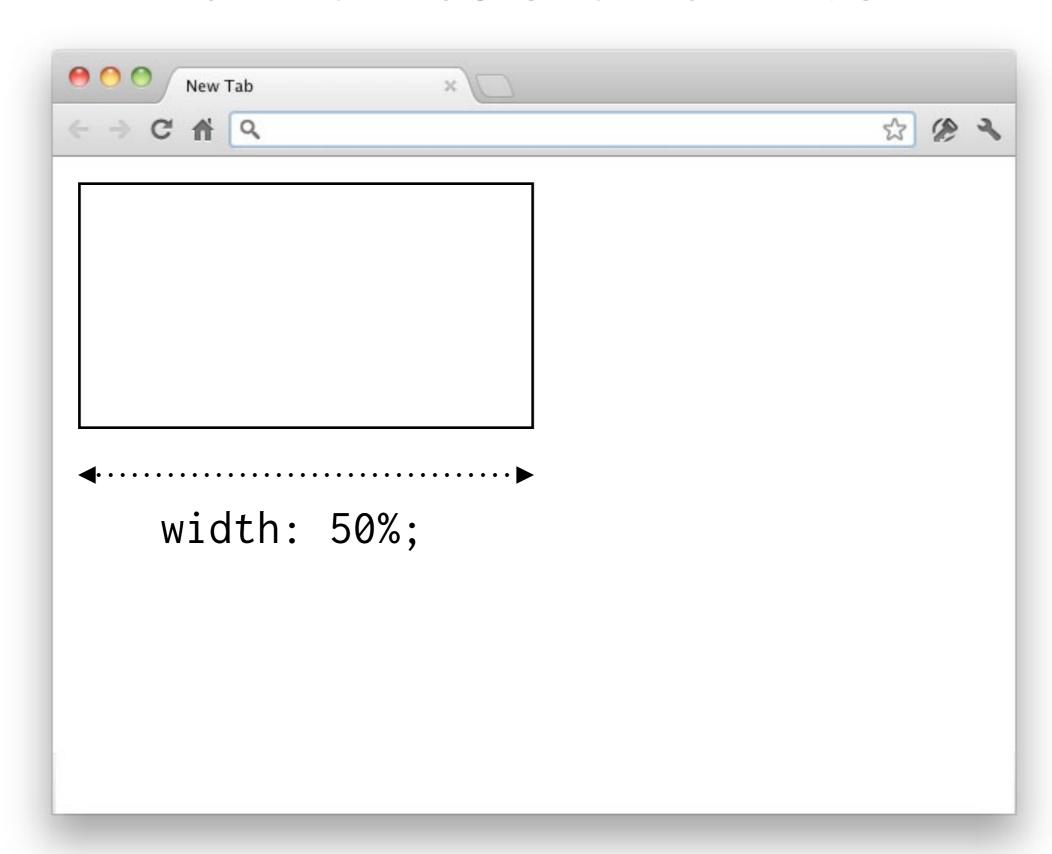
```
div {
  border:1px solid black;
}
```

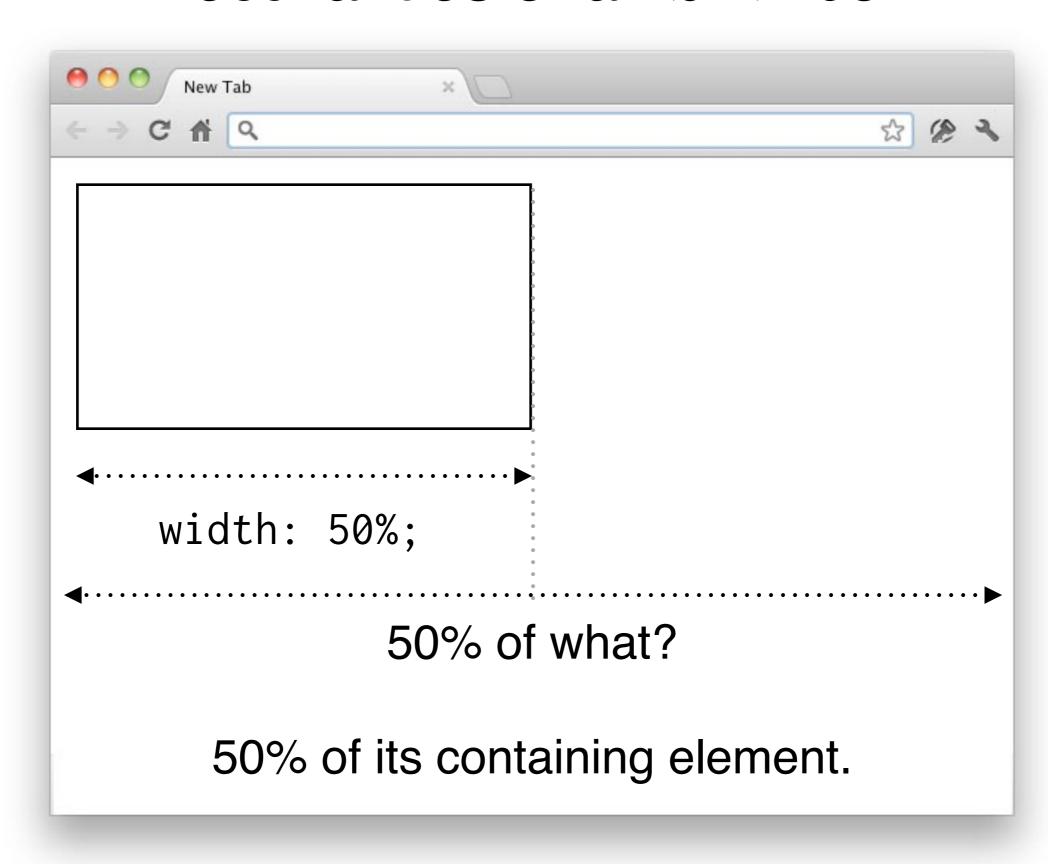
```
<div>Hello World!</div>
<div>Hello World!</div>
<div>Hello World!</div>
<div>Hello World!</div>
<div>Hello World!</div>
```

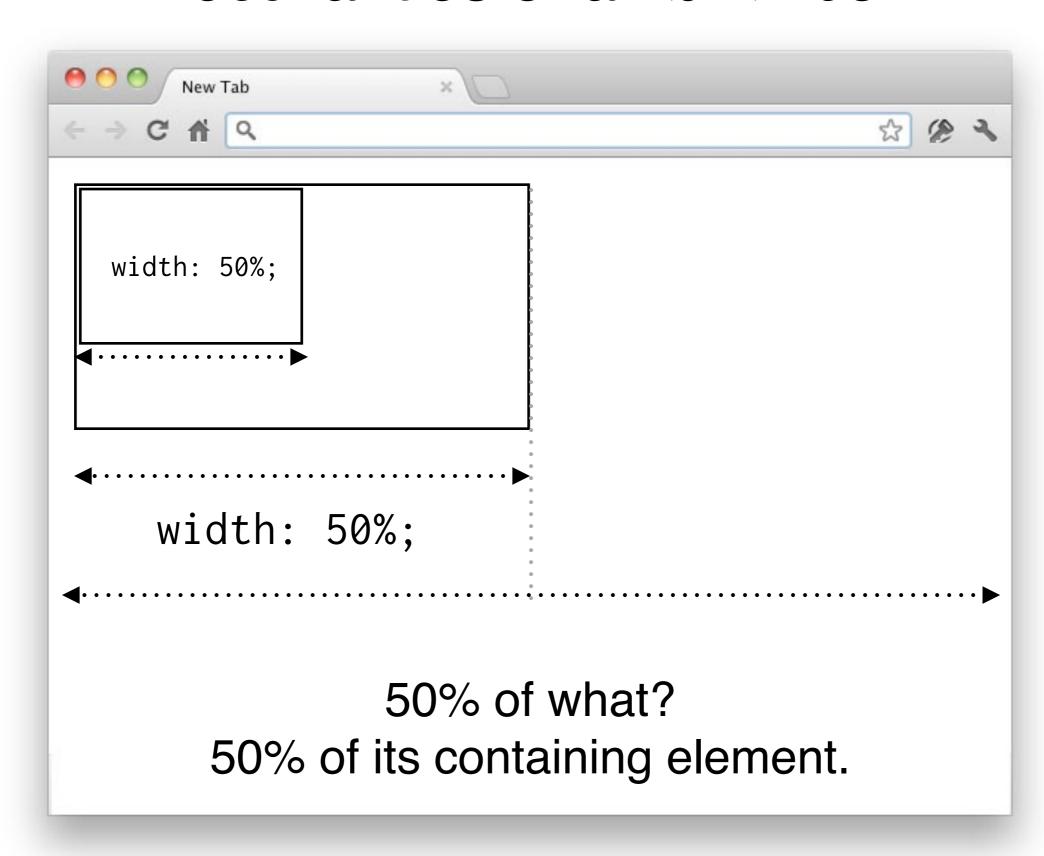








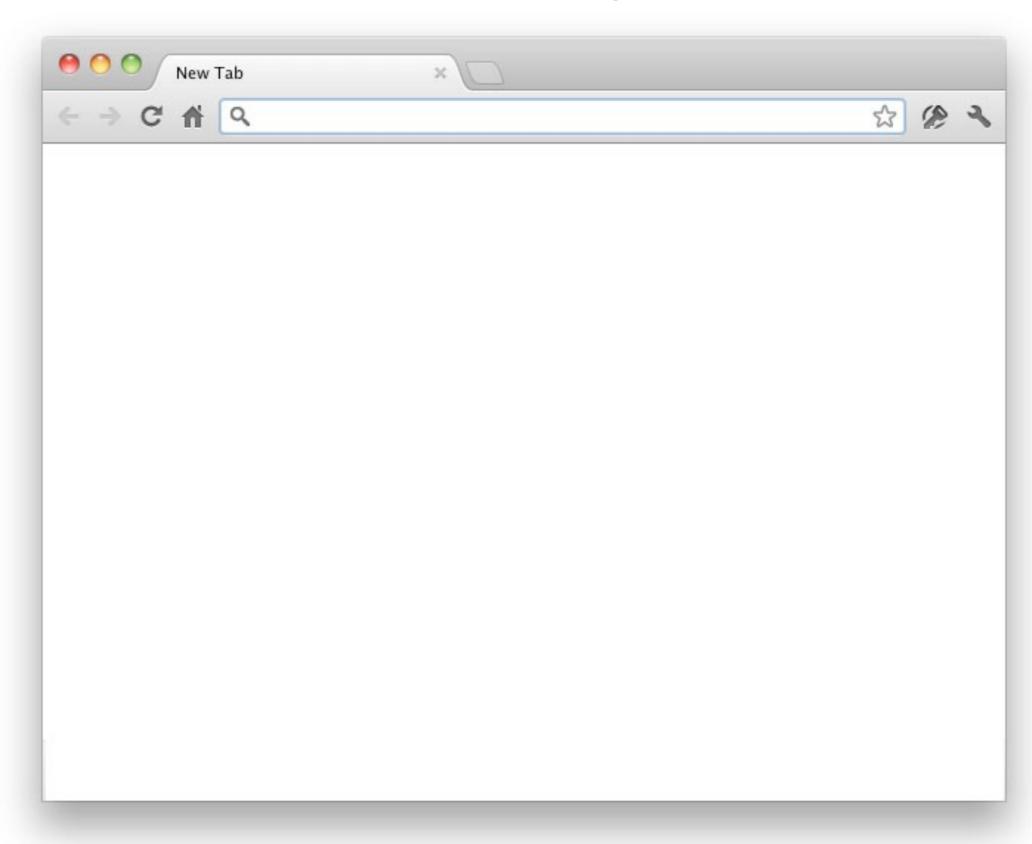




# Learning the quirks

The <body> tag is a box on your page.

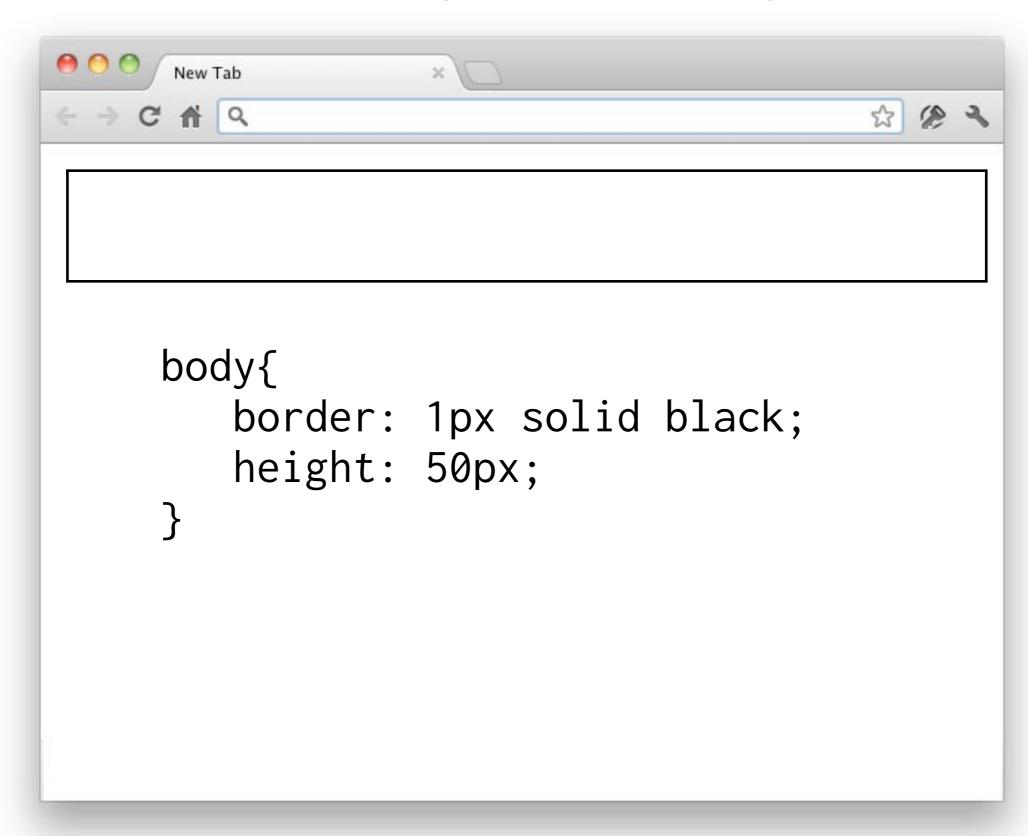
# The <body> tag is there



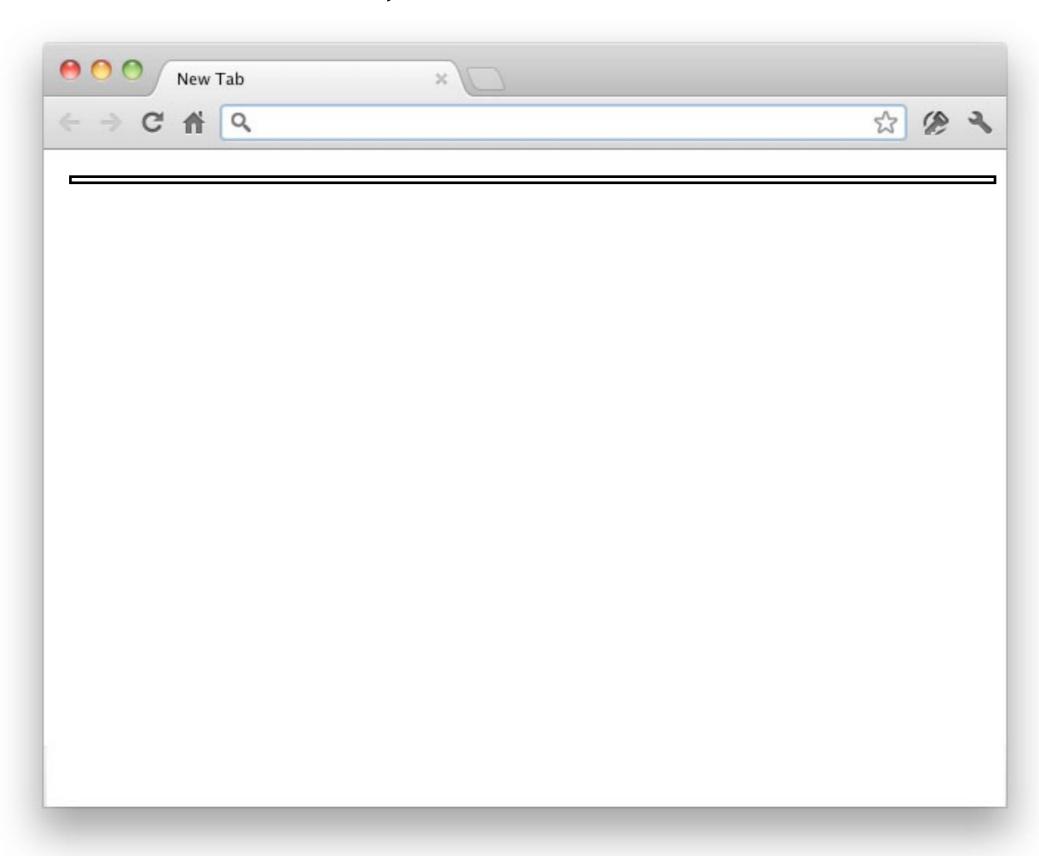
# Style it with a border and you'll see it.

```
New Tab
← → C A Q
     body{
        border: 1px solid black;
```

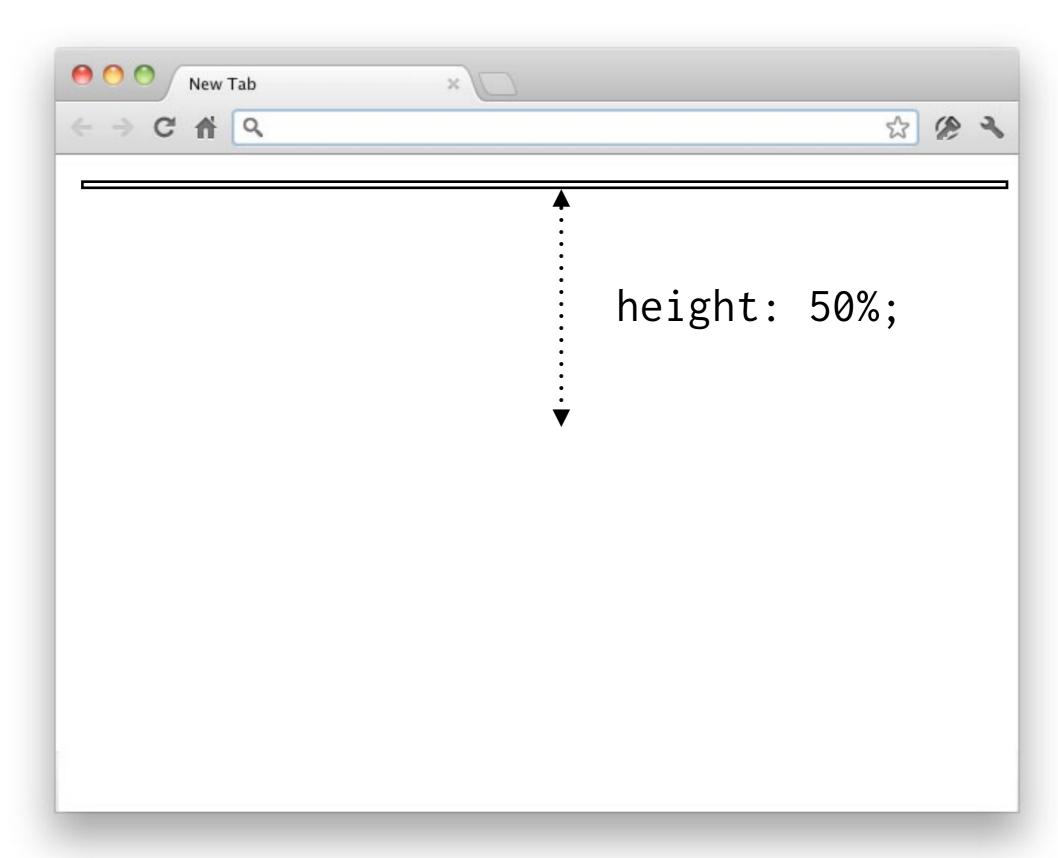
# You can give it a height.



## Which means, if we have a <div> box



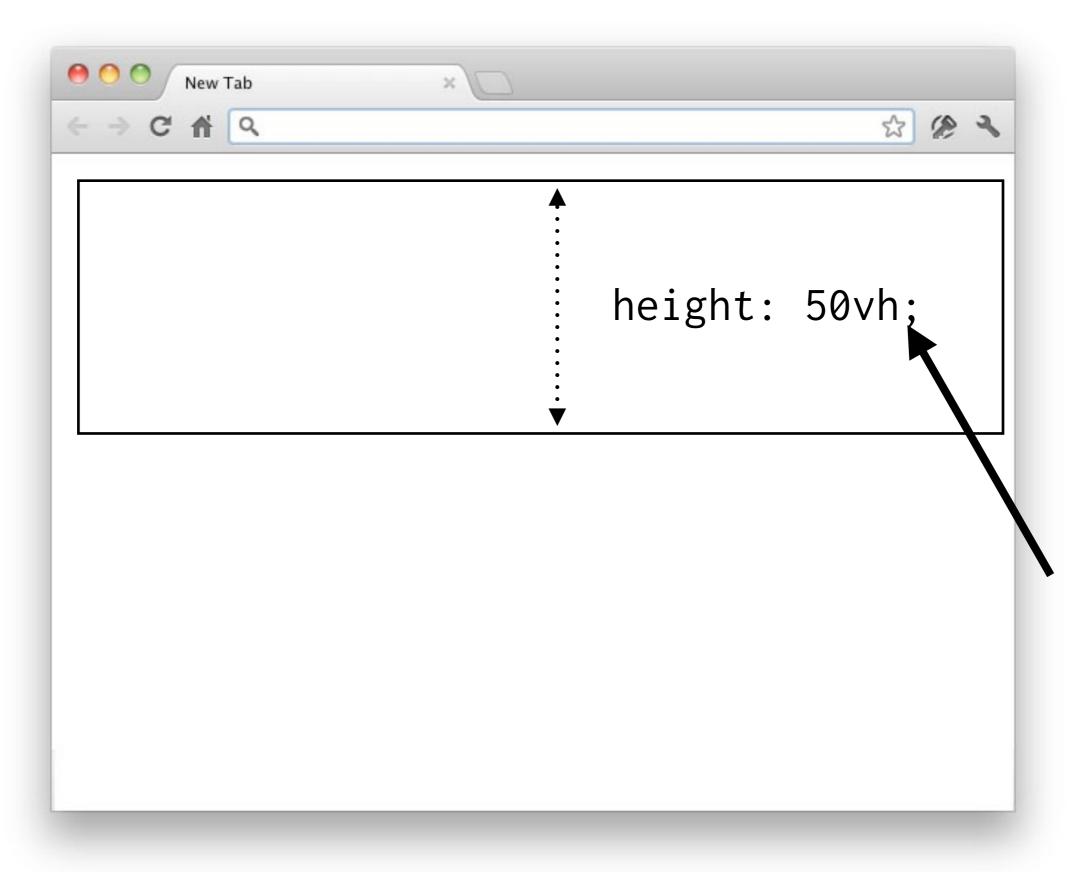
## 50% of what?

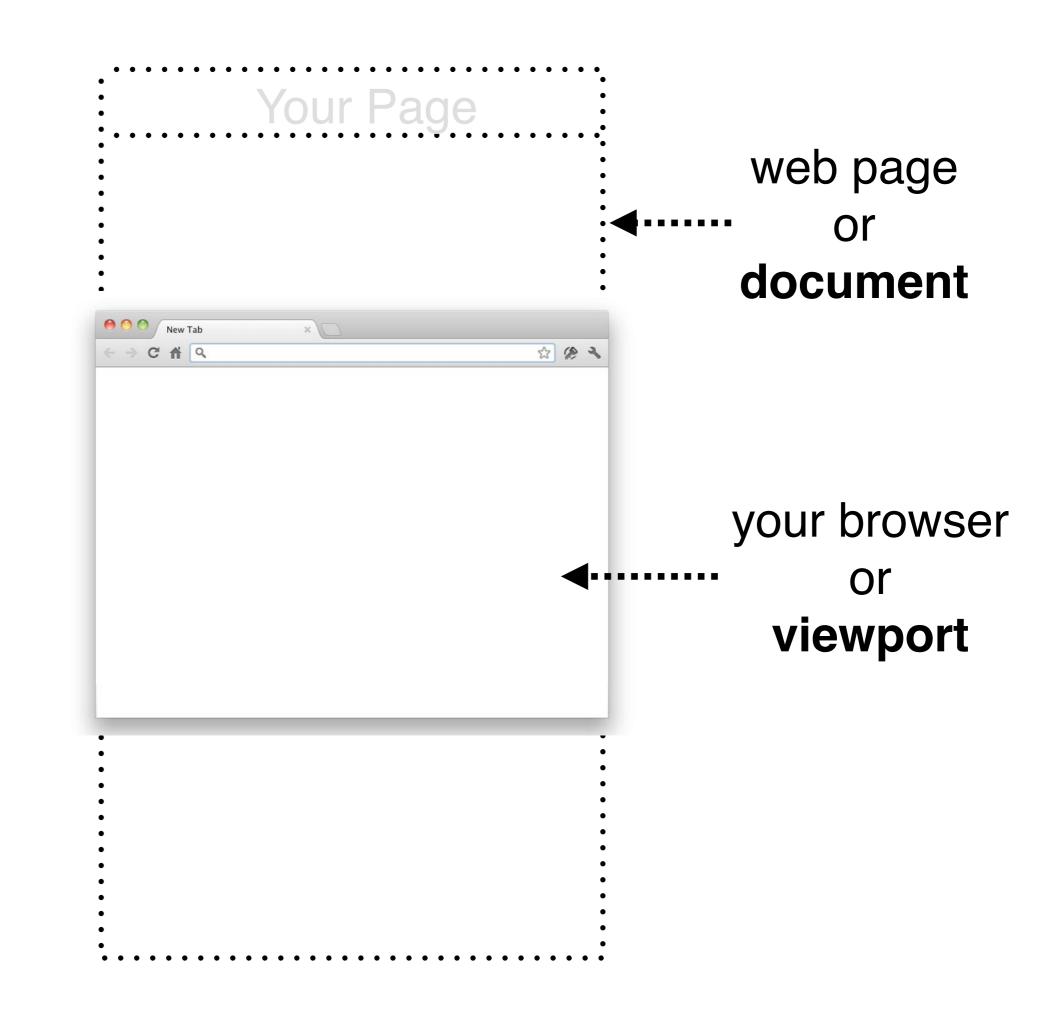


# Width and Height

```
New Tab
← → C A Q
                           height: 50%;
   body{
     height: 1000px;
```

## The viewport height (vh) measurement is based on the browser



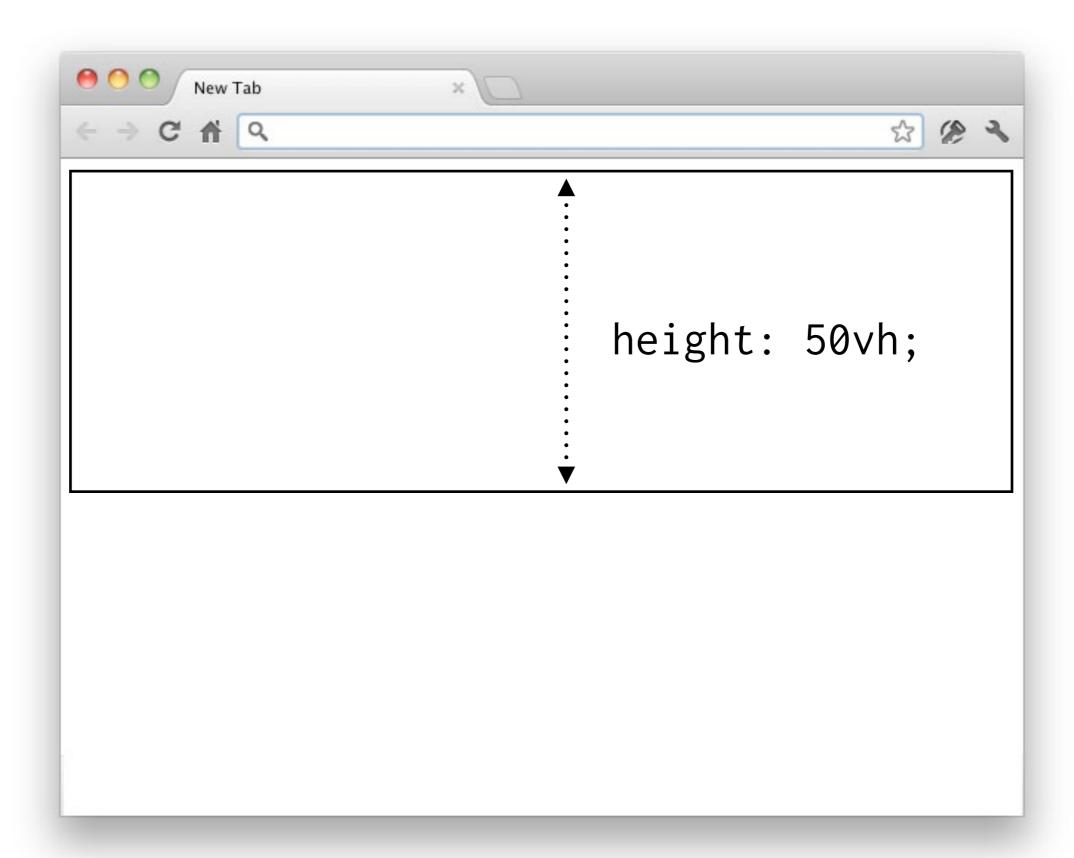


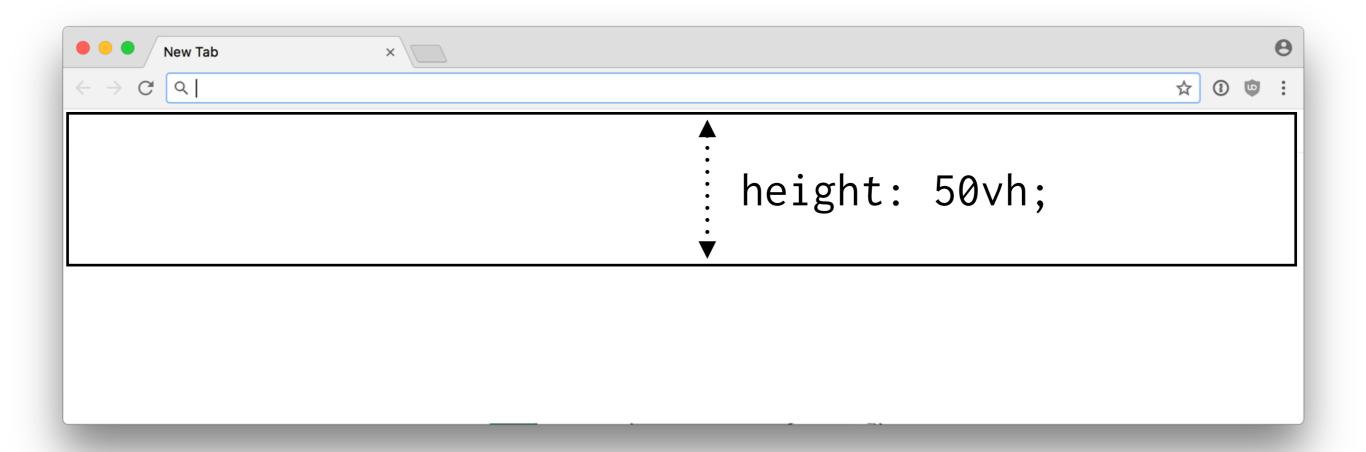
## Viewport Measurements

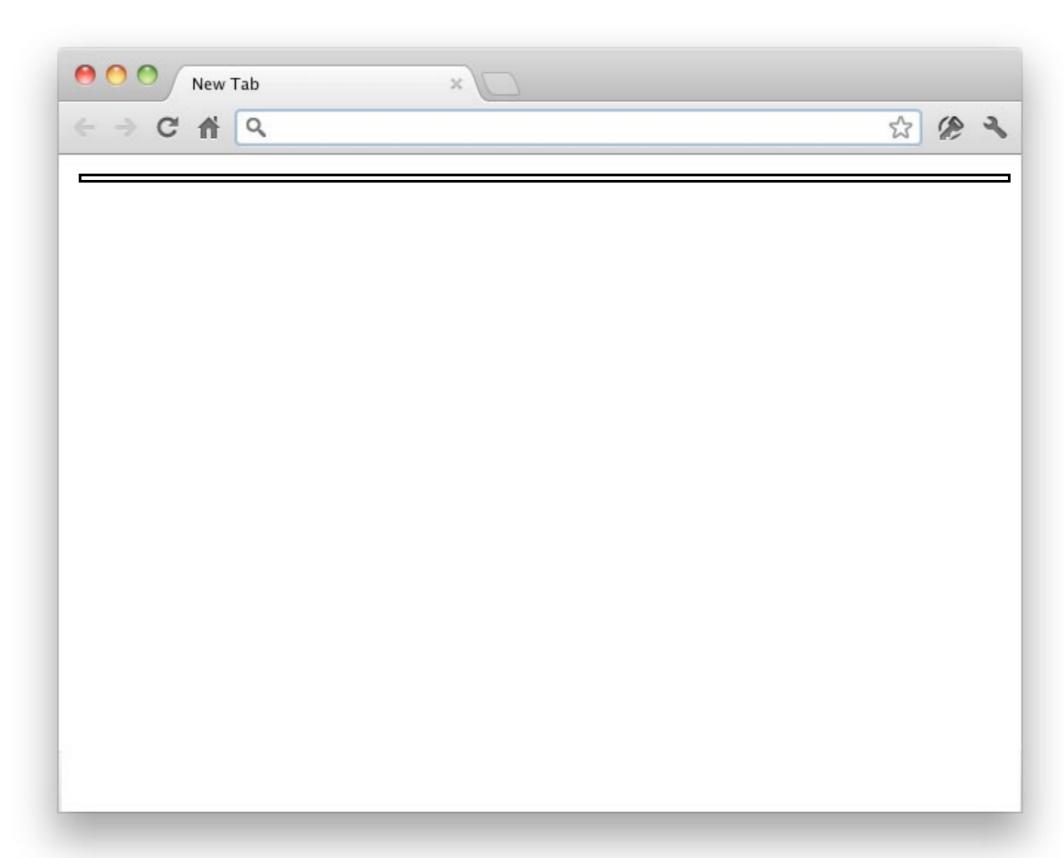
**vw** = 80% of the viewport width

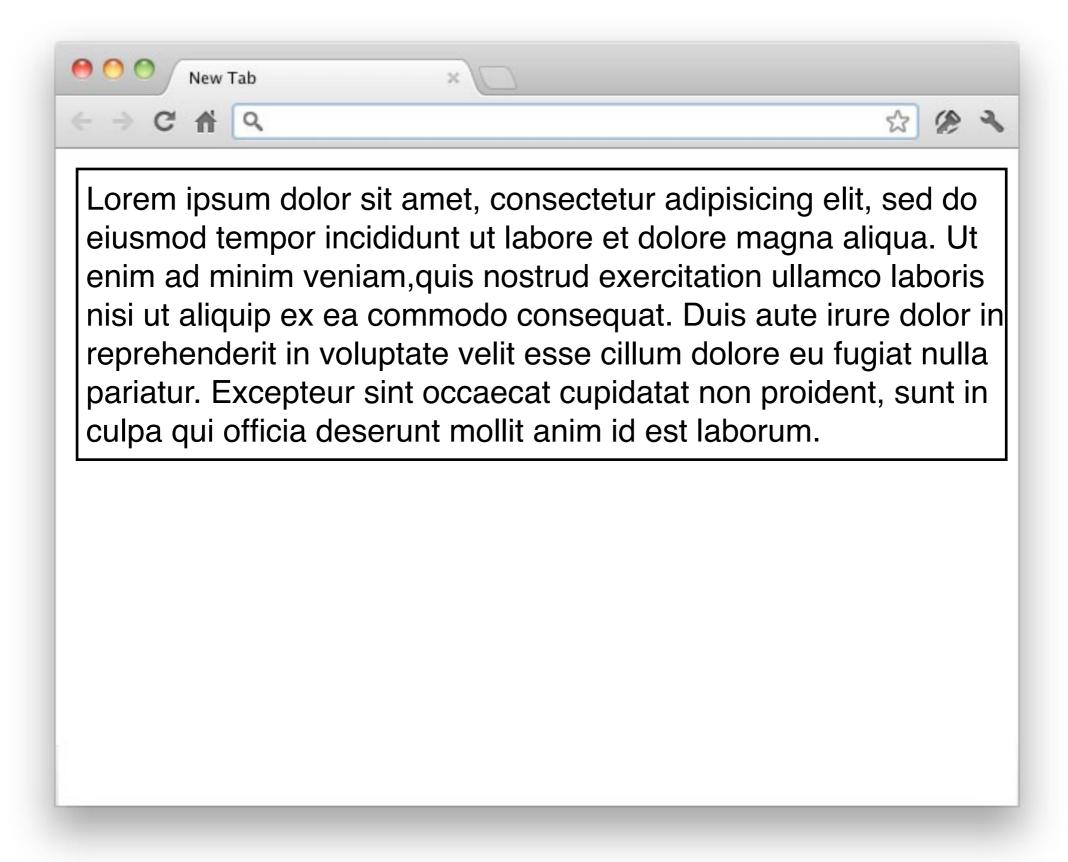
**vh** = 100% of the viewport height

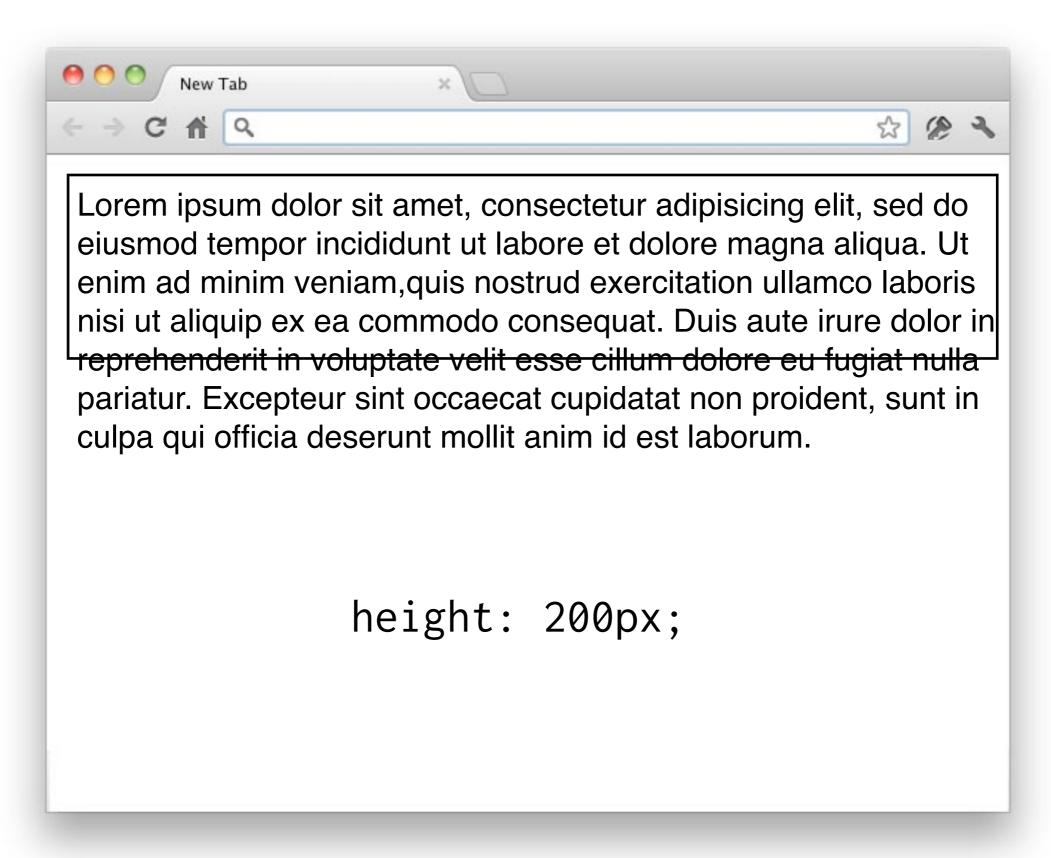
**vh** = 5% of the viewport height

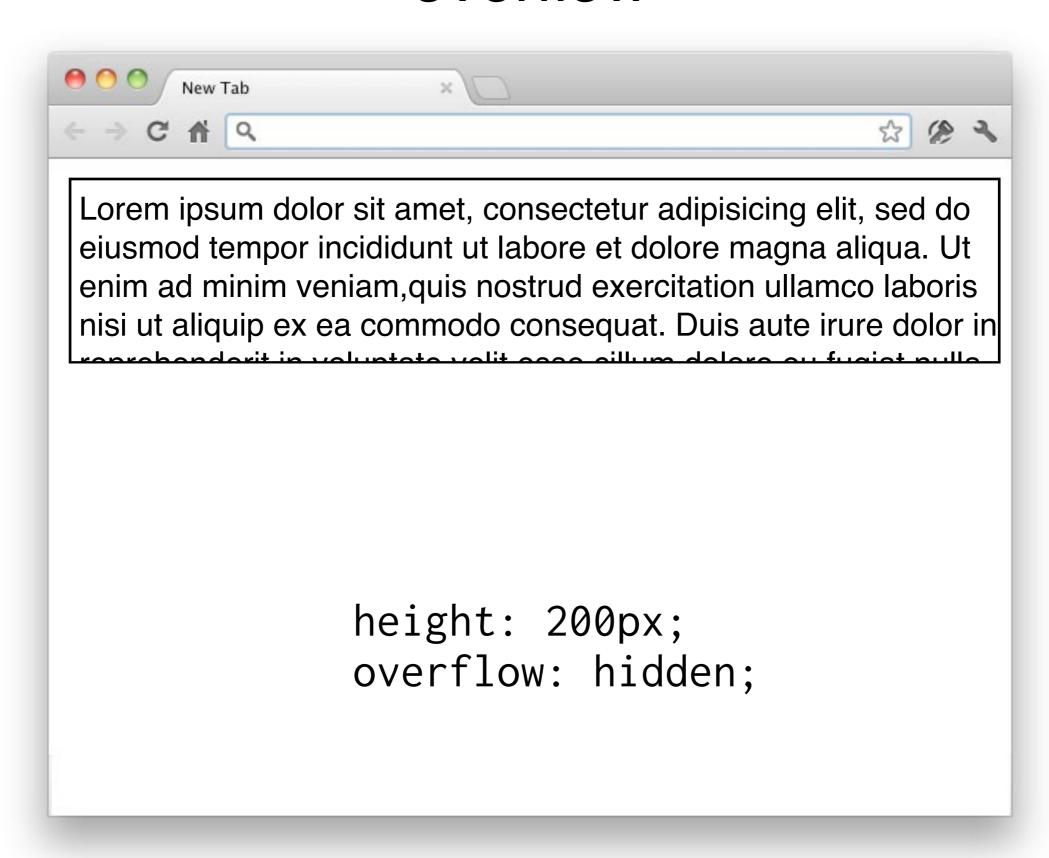


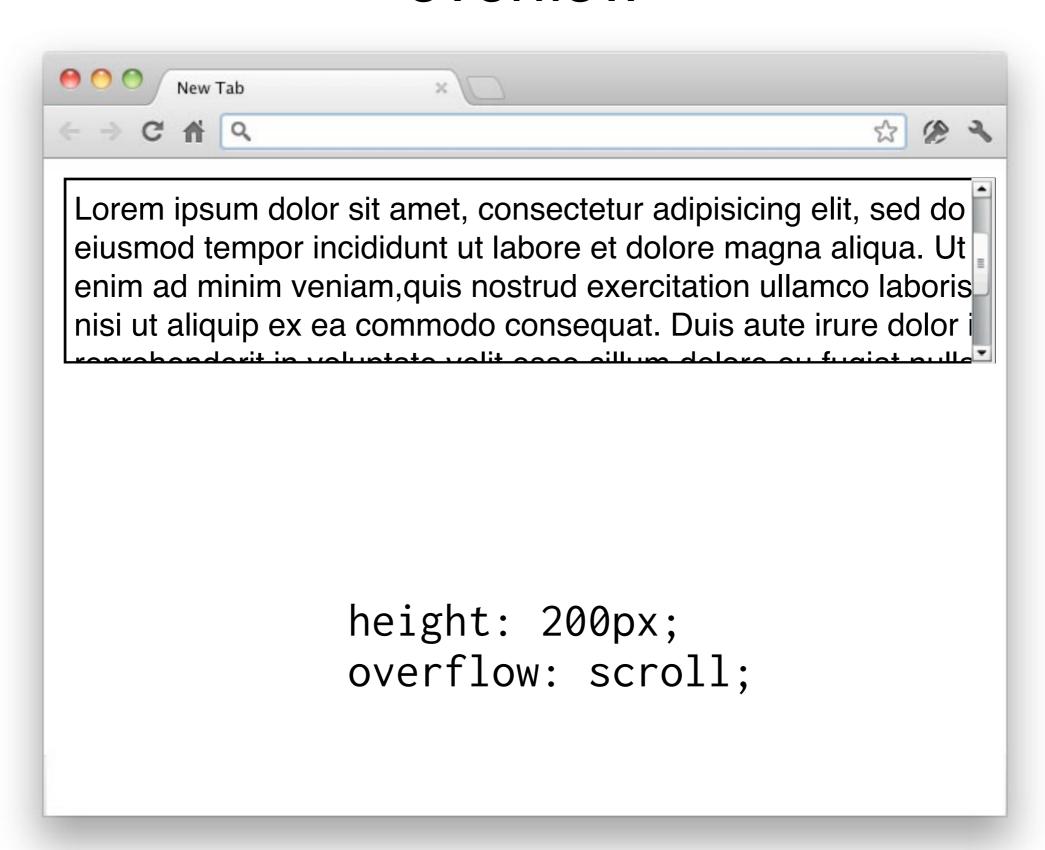






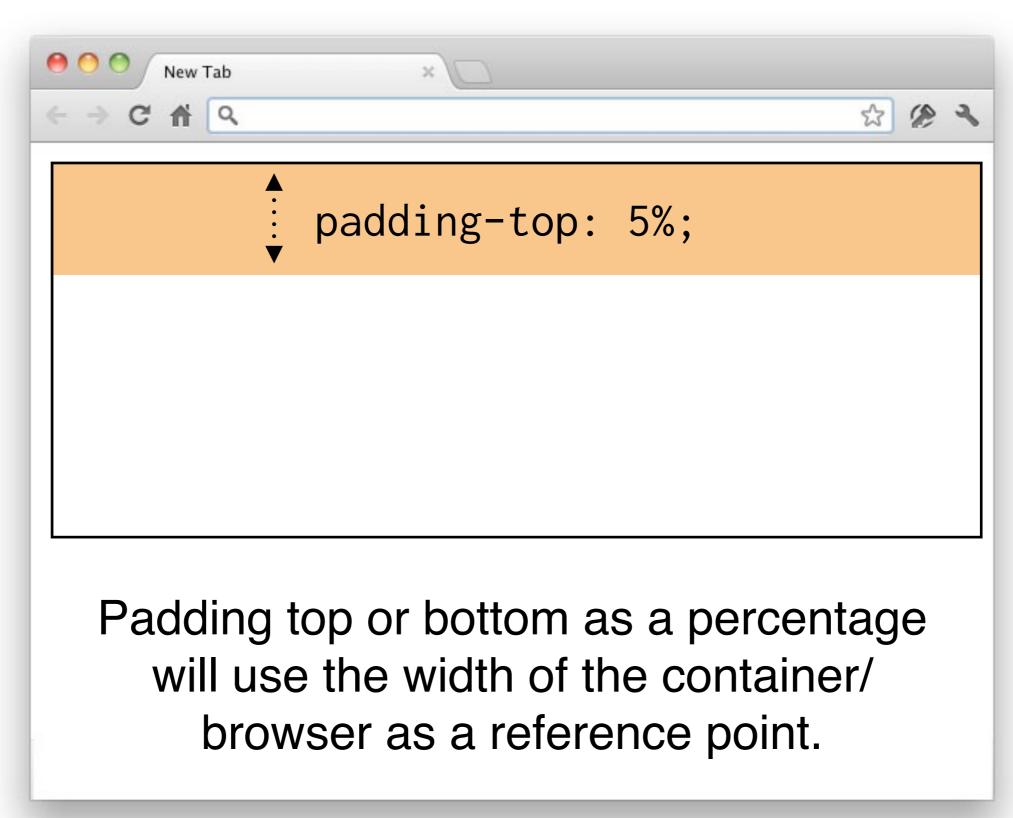




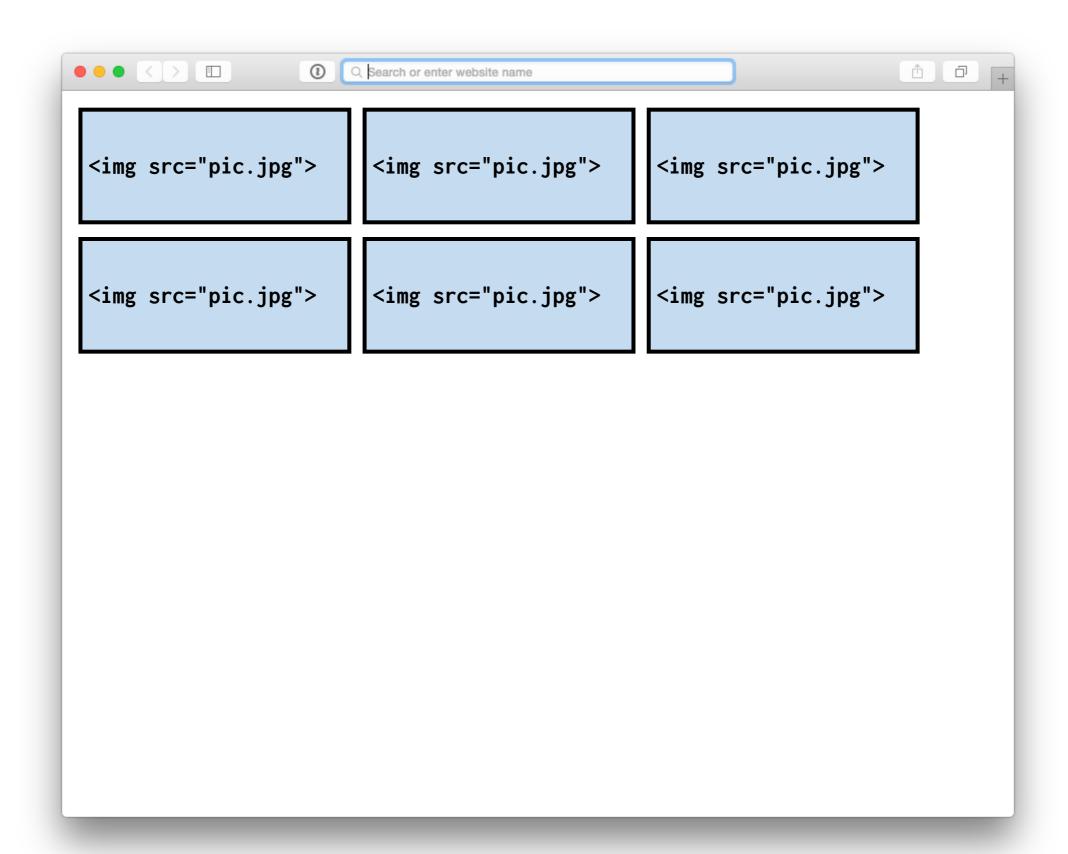


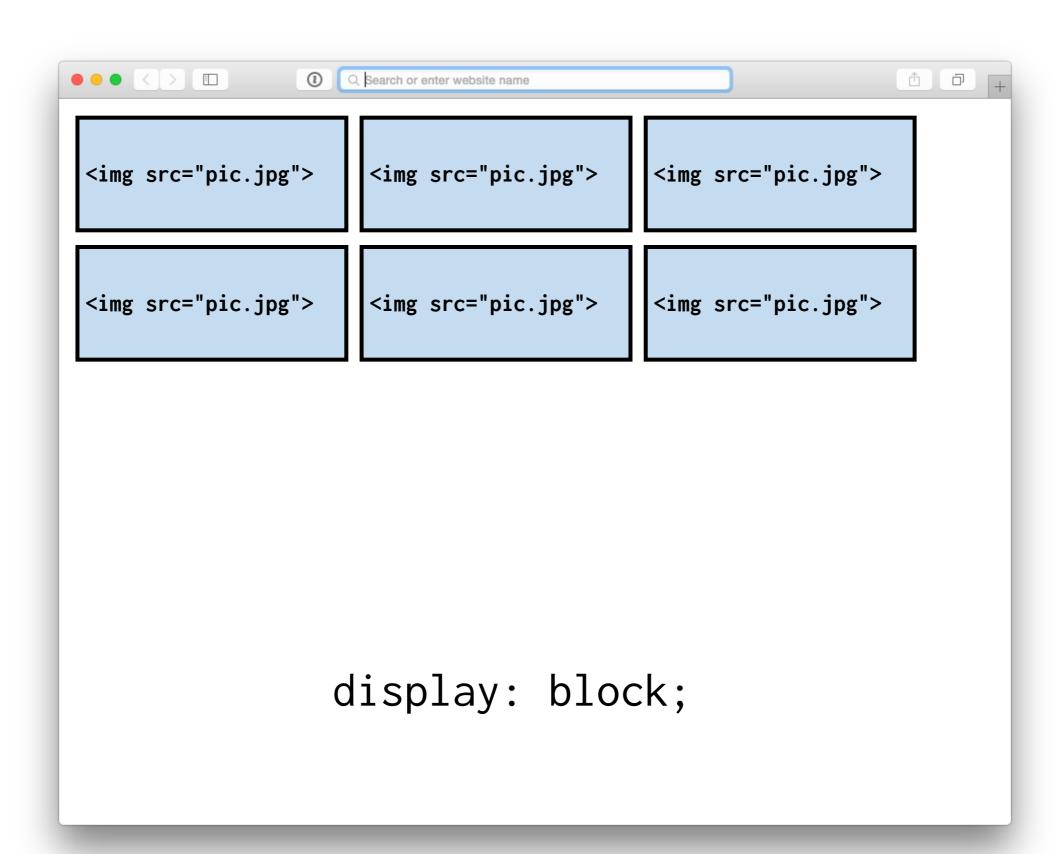
# Padding Margin

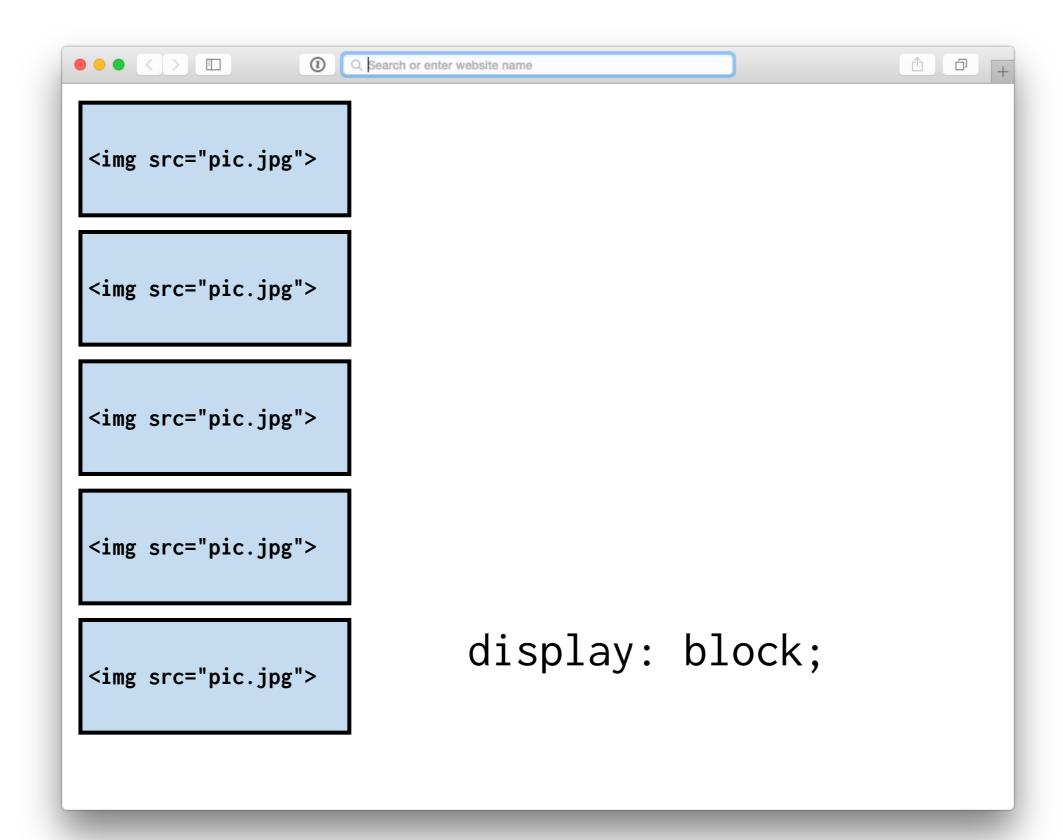
# Padding/Margin



# Display Property







# Hiding Elements

### Hiding Elements

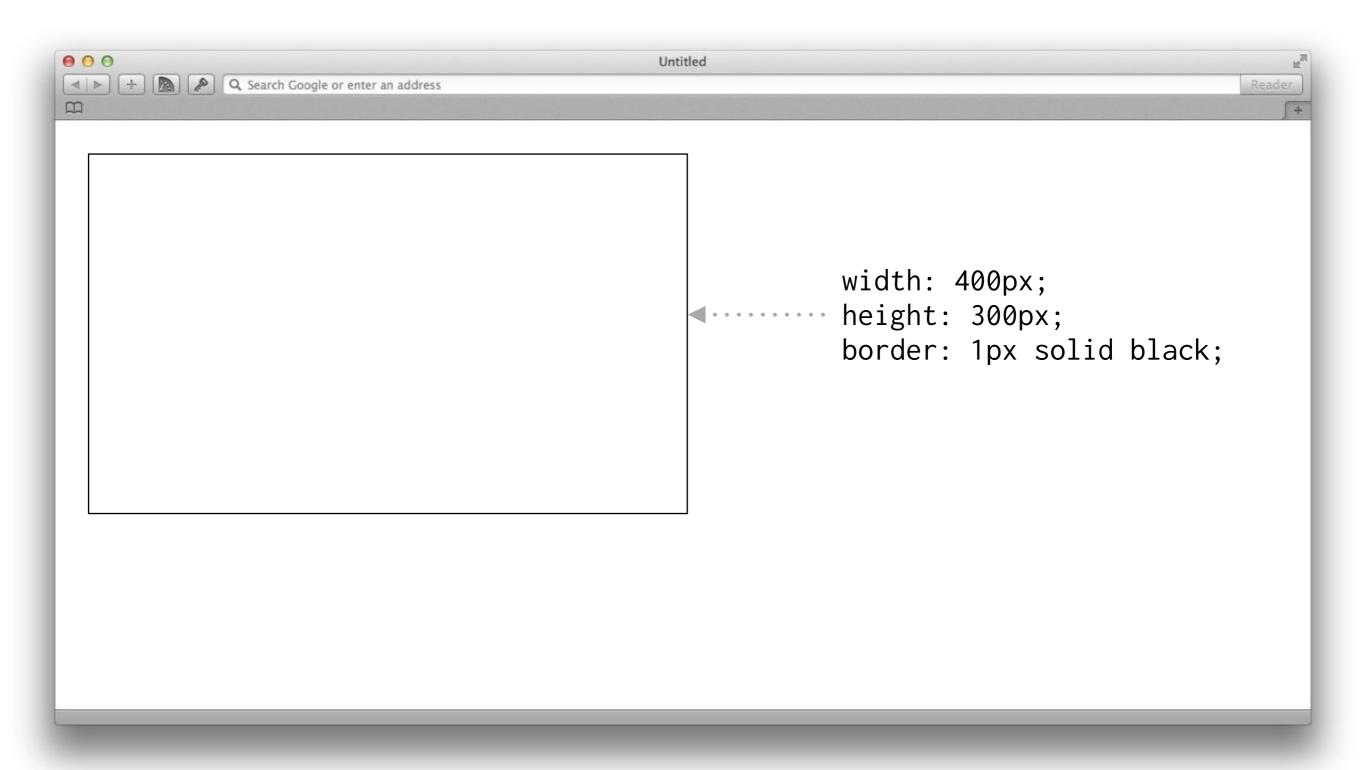
display: none;

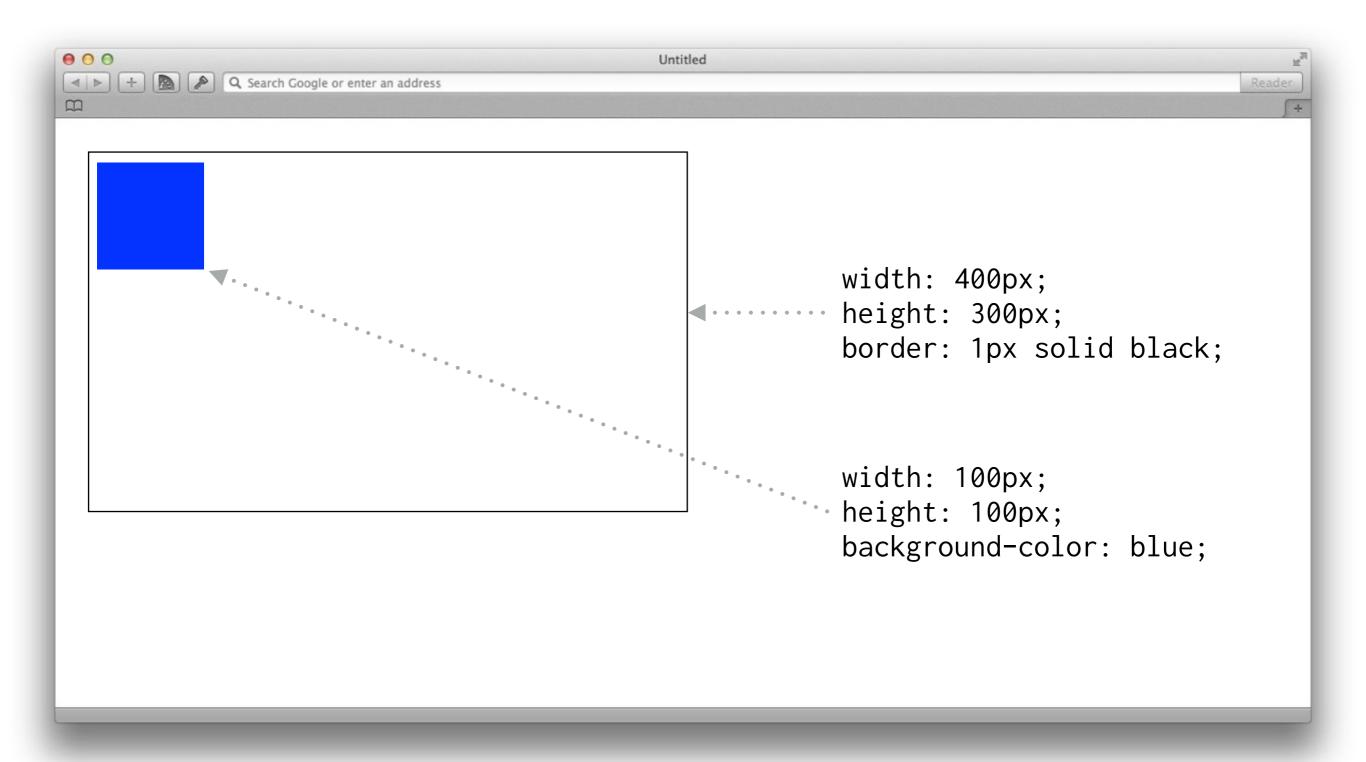
Remove completely from the document flow, as if it never existed.

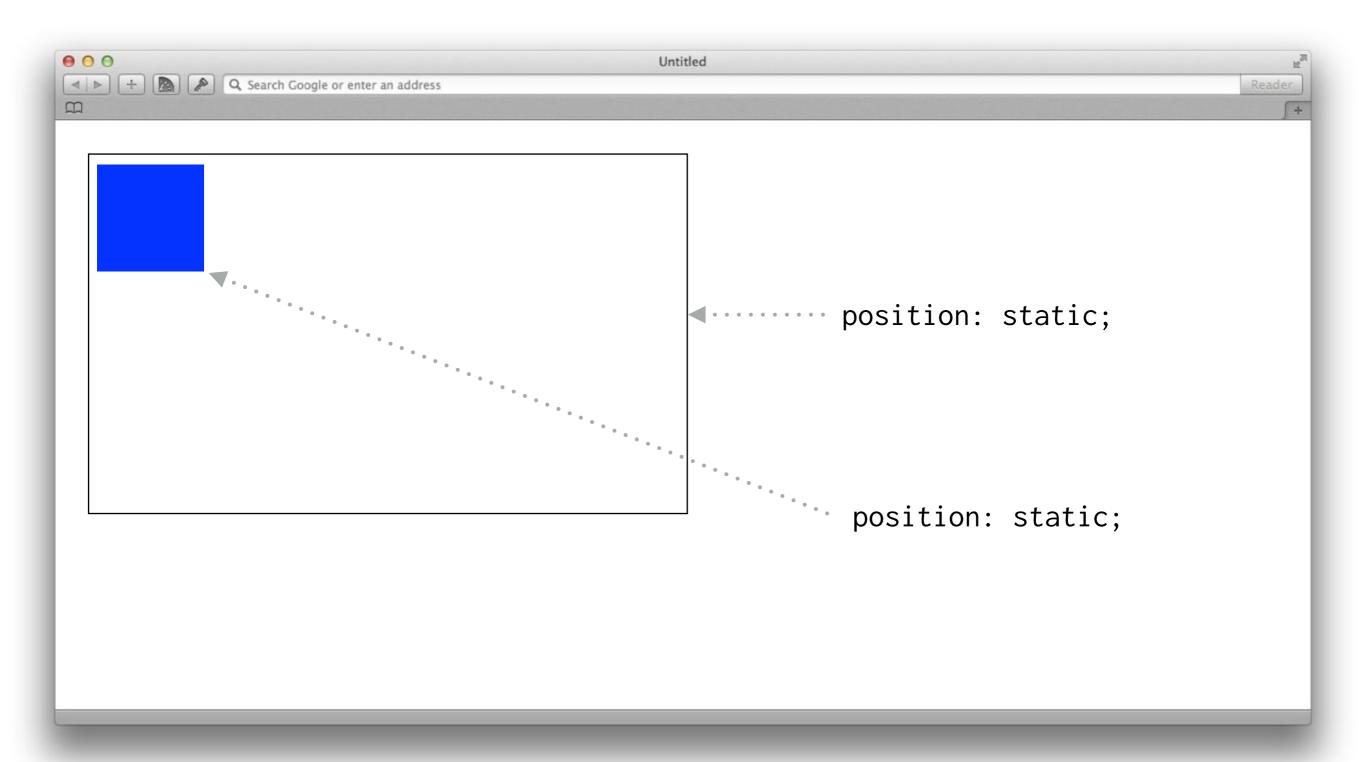
visibility: hidden;

Make it hidden, but it's still there and affects elements around it.

- Static This is the default positioning. Elements are arranged according to the normal document flow.
- **Relative** This is <u>identical</u> to static, but causes elements inside this tag to use it as a frame of reference.
- Absolute Elements are positioned separate from the document flow. Items will be located relative to the first parent element that has any positioning other than static.
- **Fixed** Position elements separate from the document flow, but relative to the browser. Stays in the same spot even when scrolled.

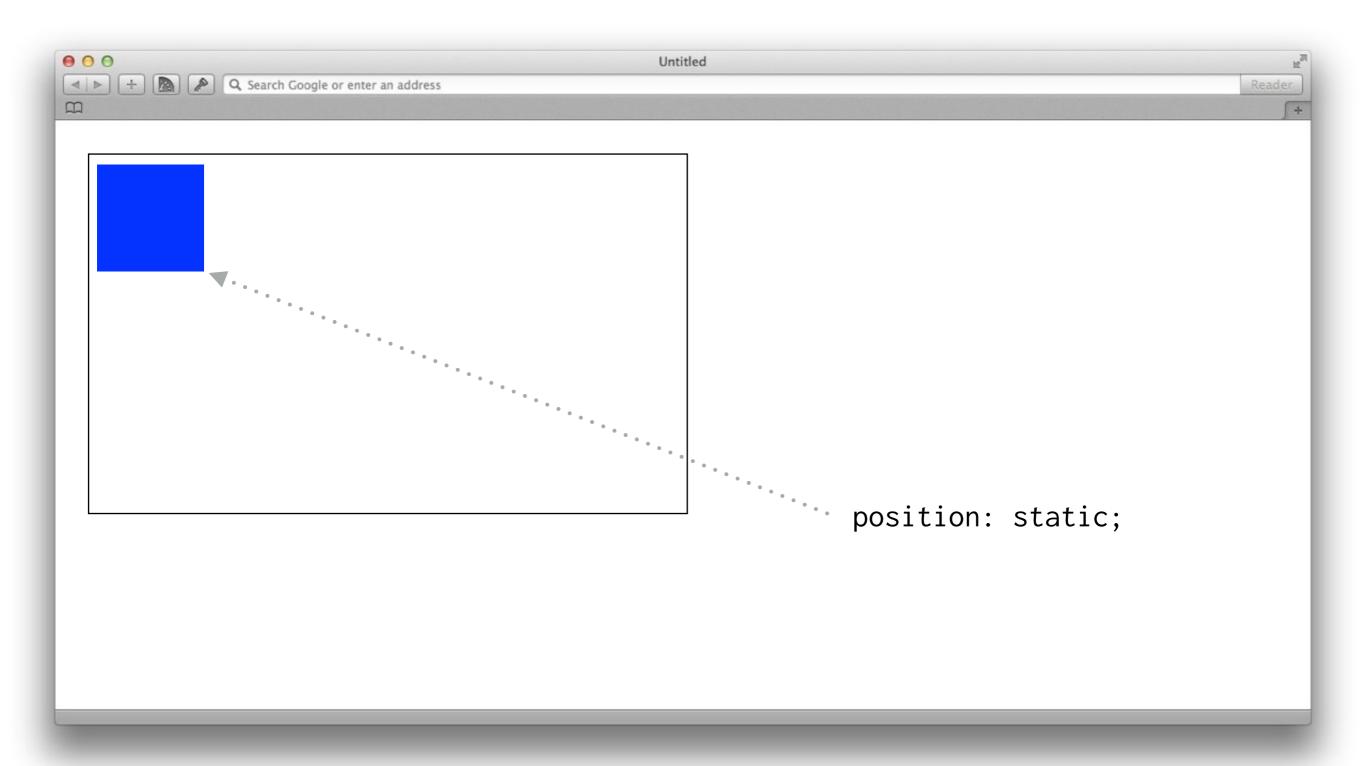


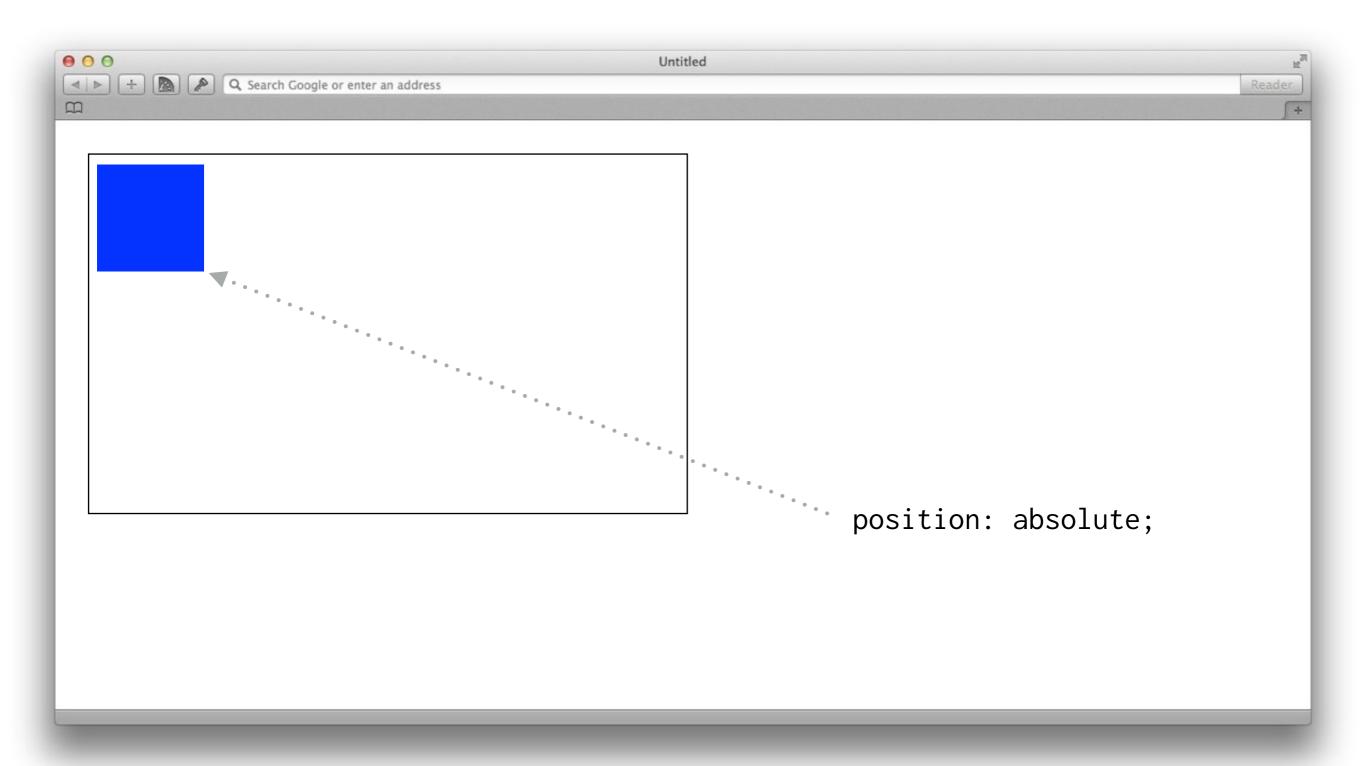


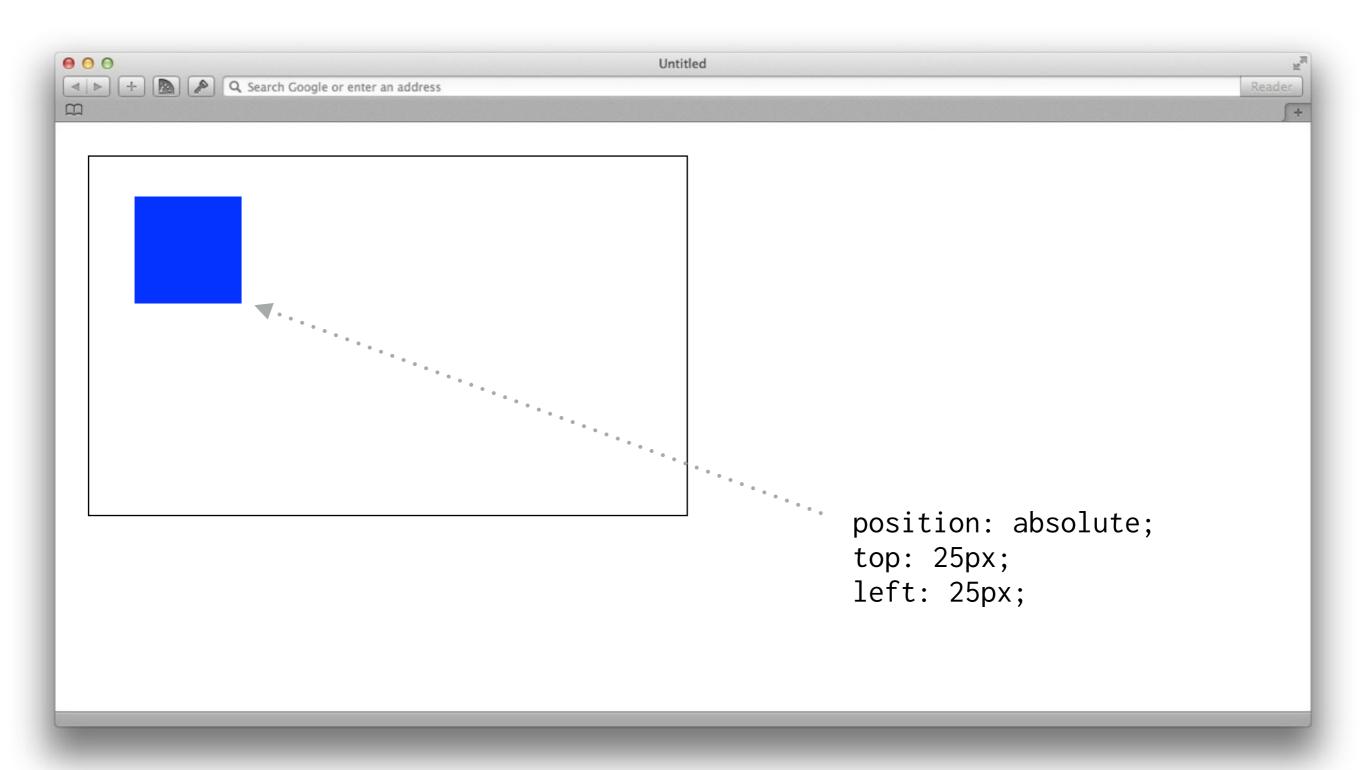


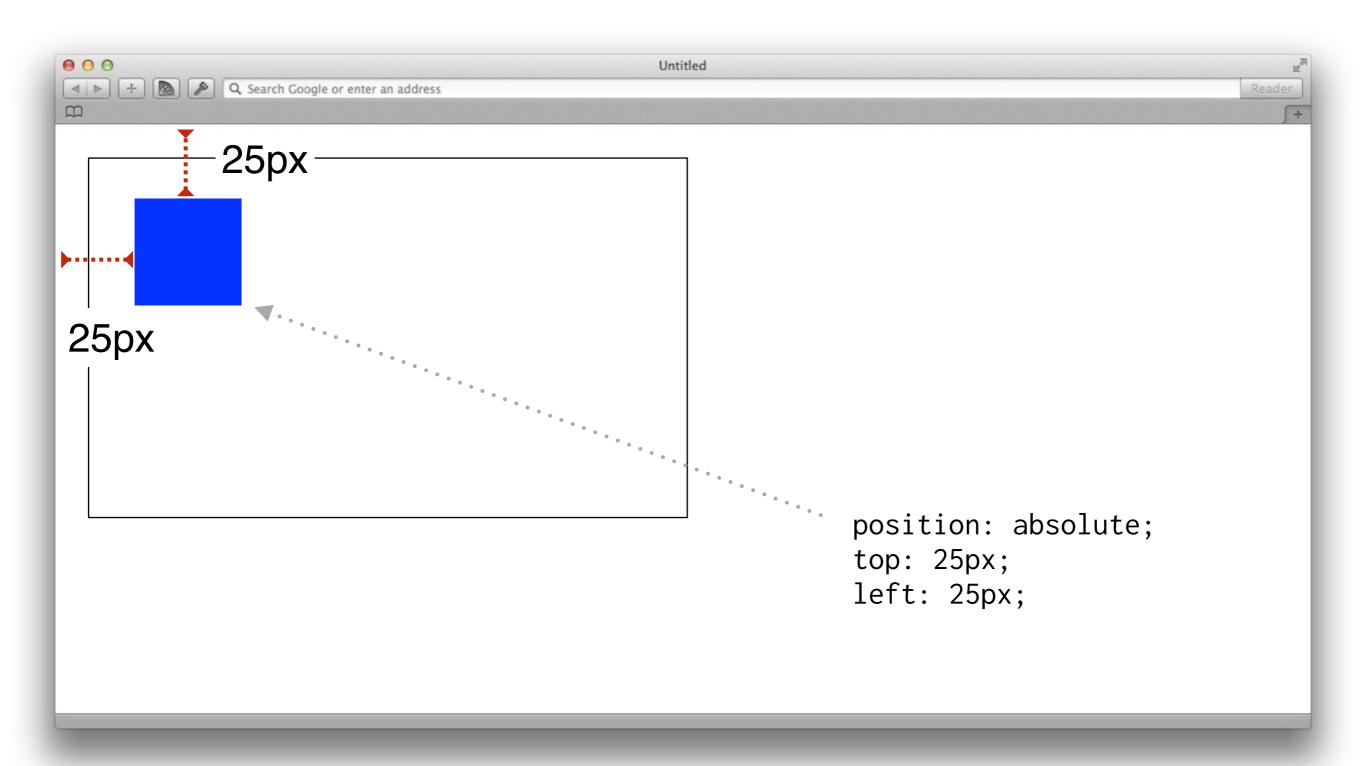
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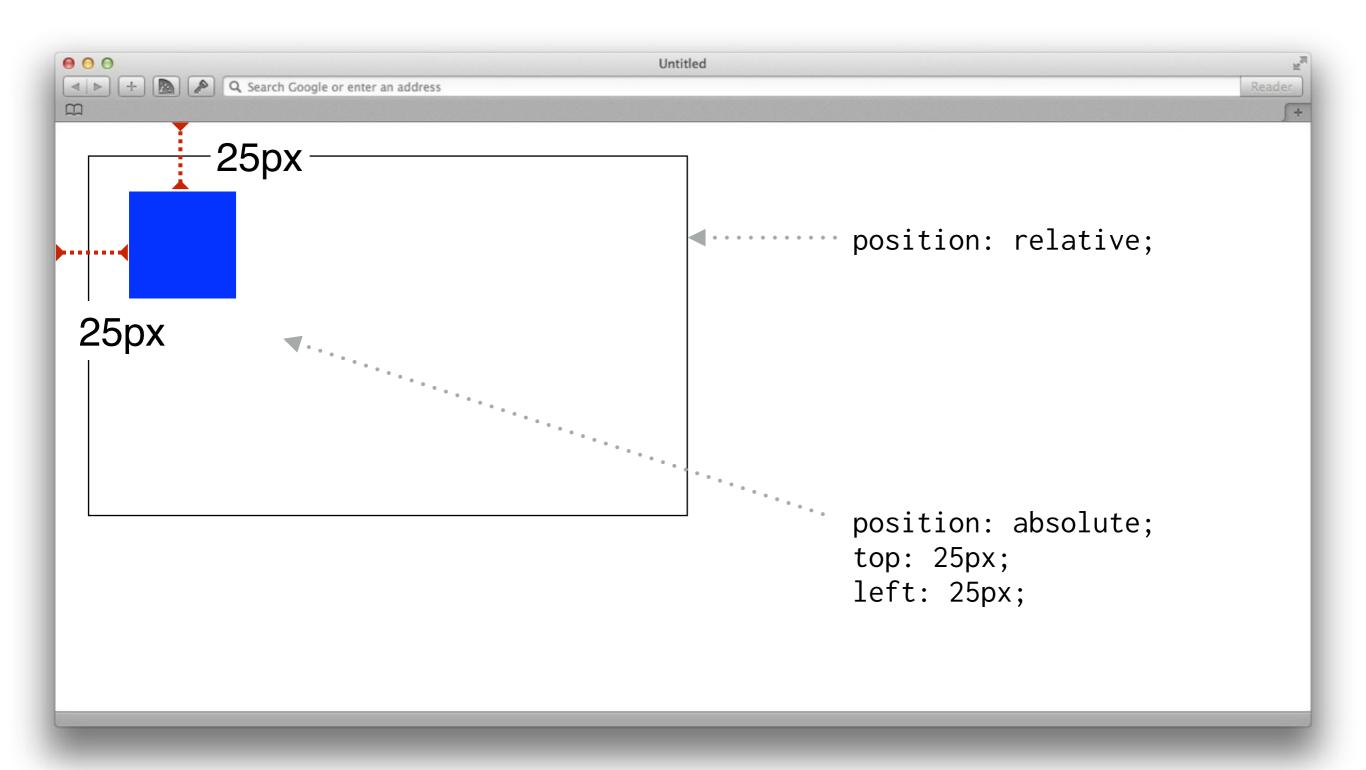


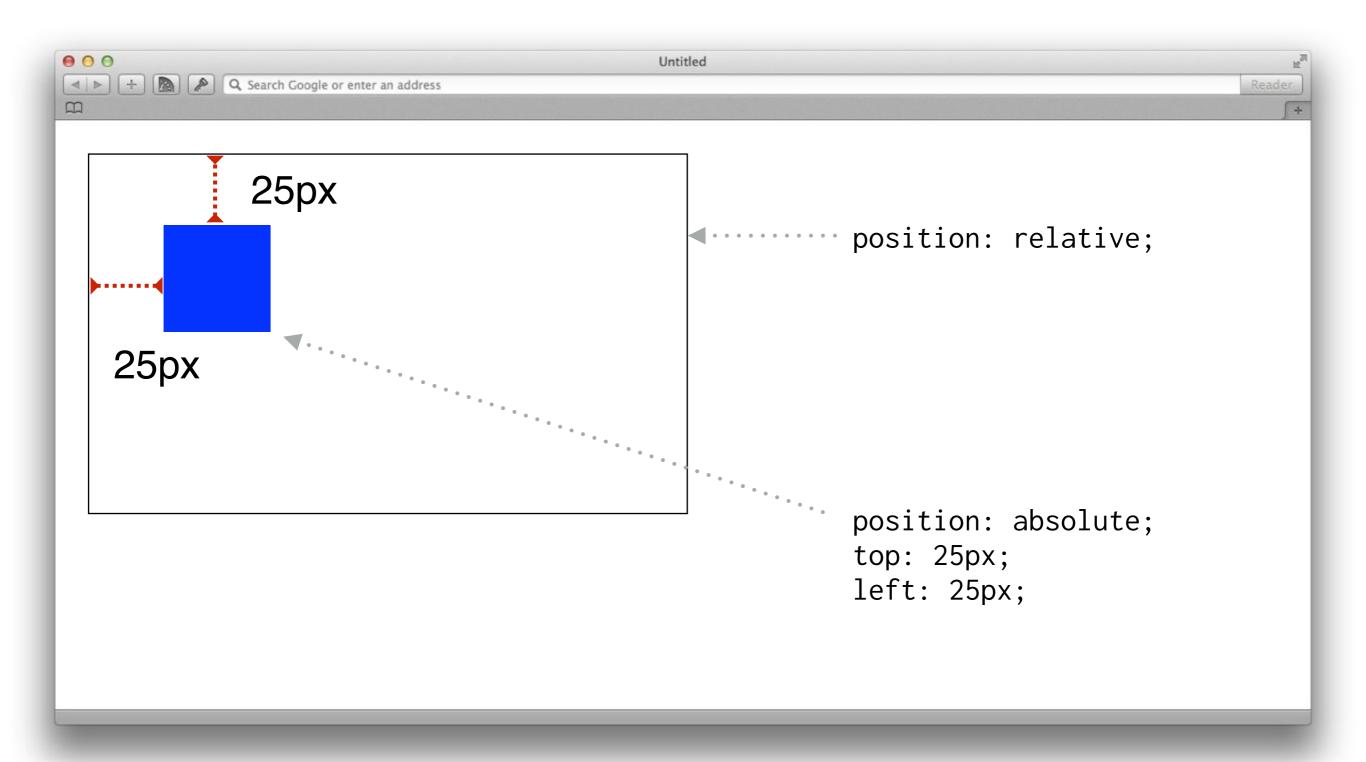




- Static This is the default positioning. Elements are arranged according to the normal document flow.
- **Relative** This is <u>identical</u> to static, but causes elements inside this tag to use it as a frame of reference.
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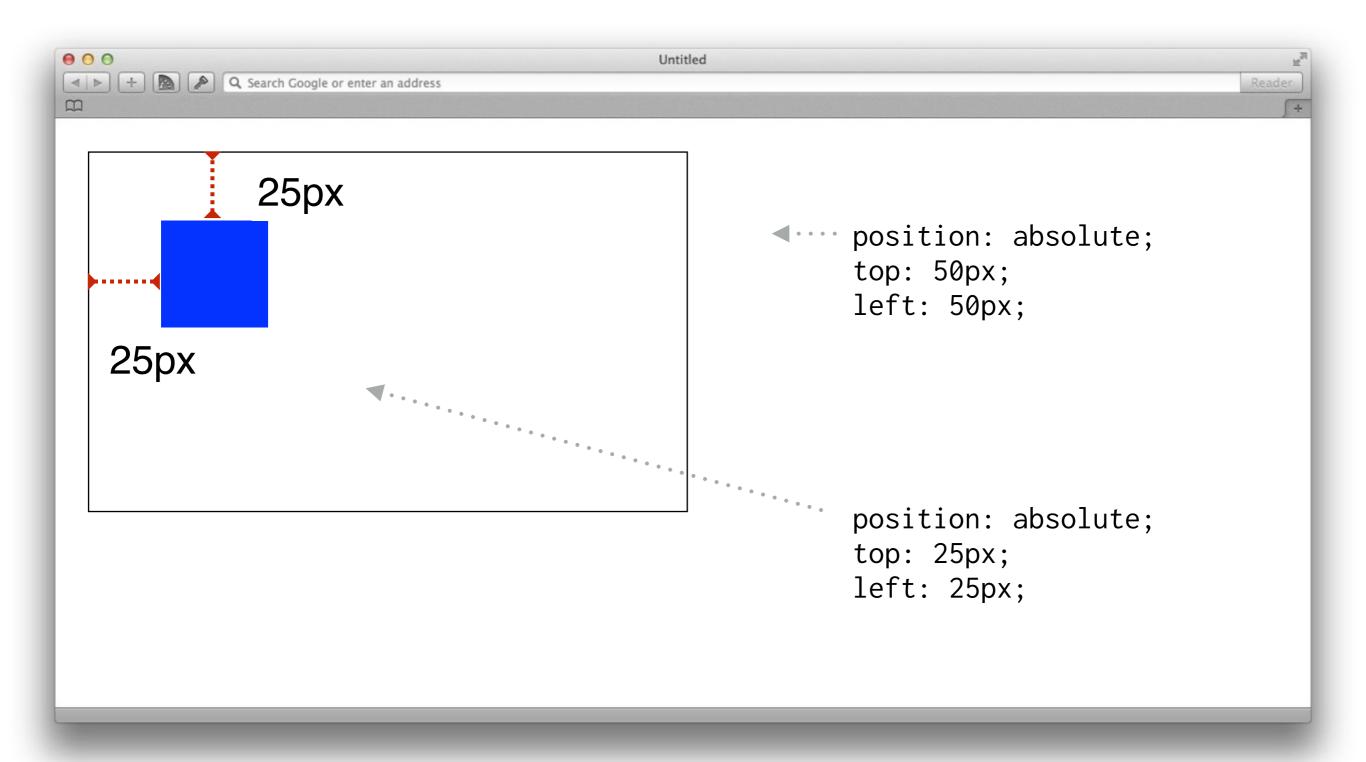
- **Static** This is the default positioning. Elements are arranged according to the normal document flow.
- **Relative** This is <u>identical</u> to static, but causes elements inside this tag to use it as a frame of reference.
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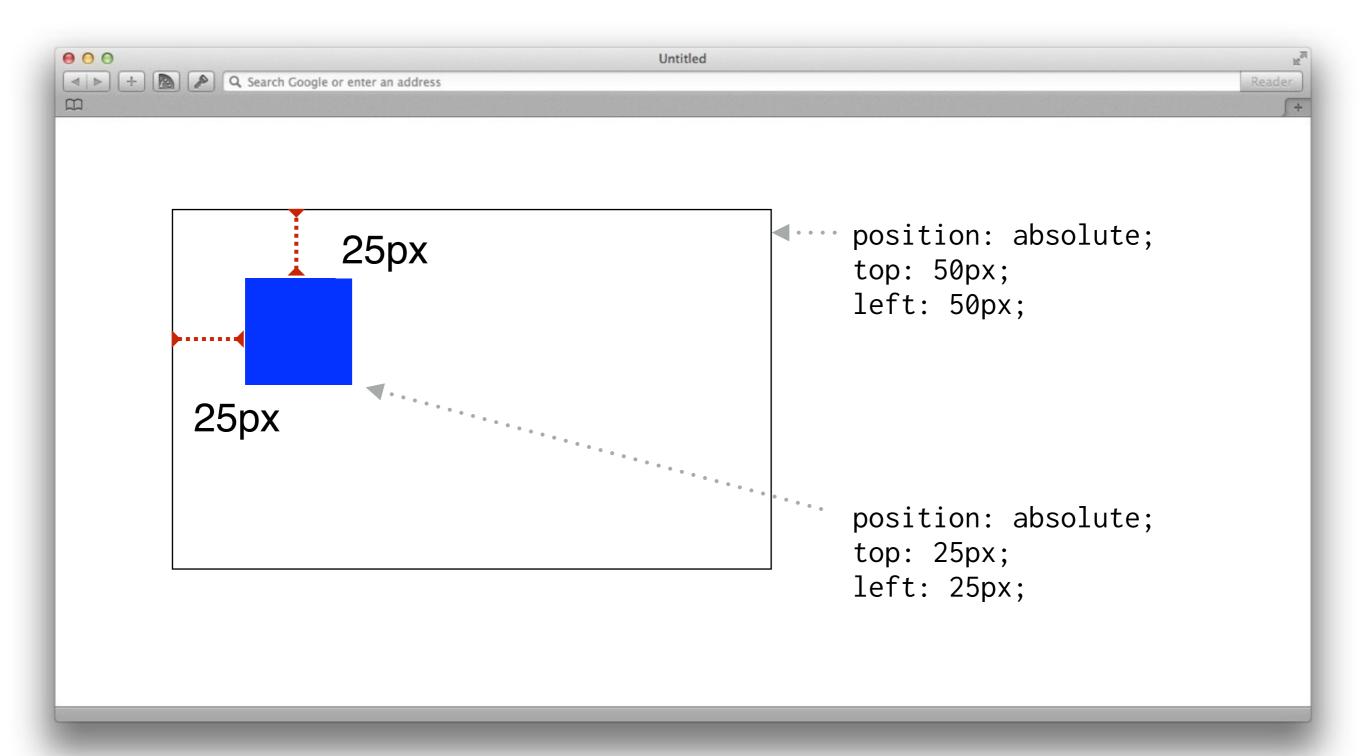




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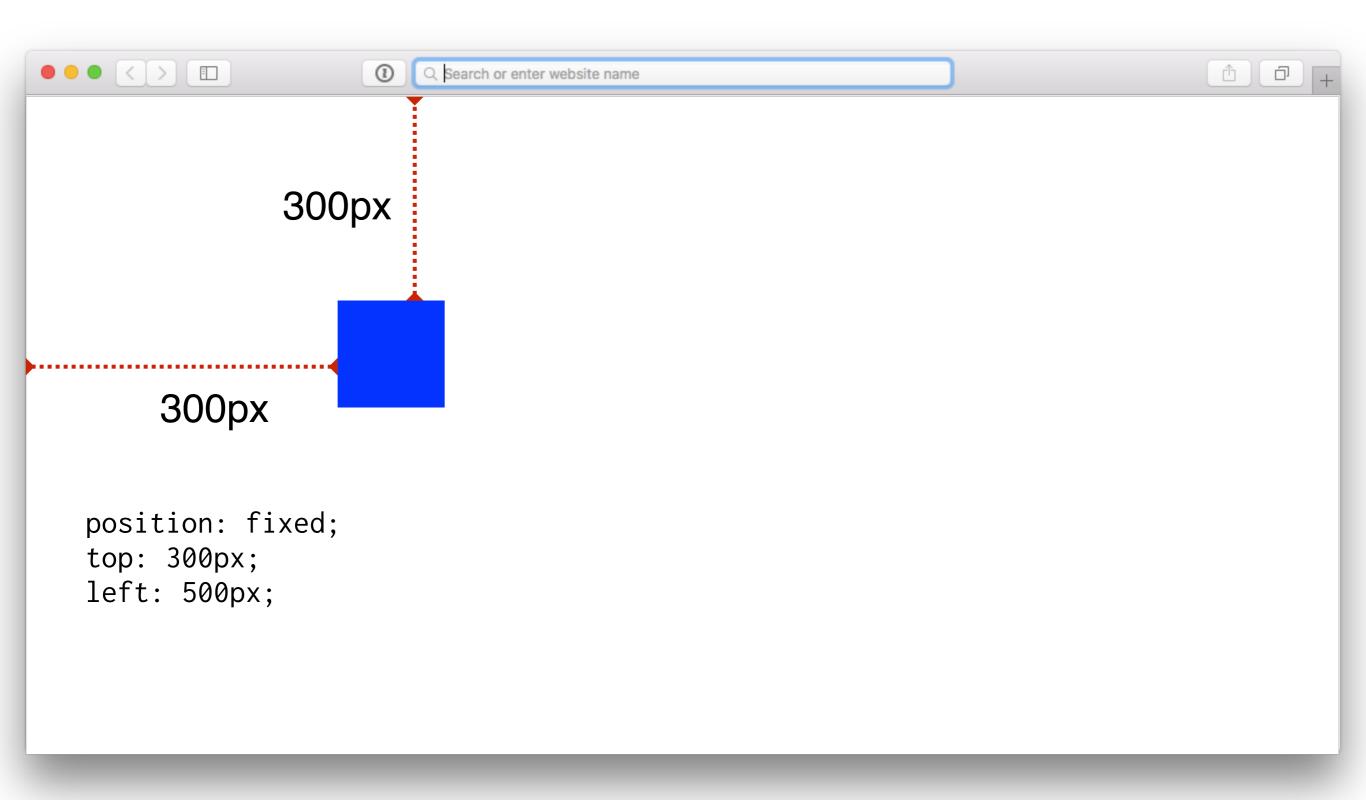
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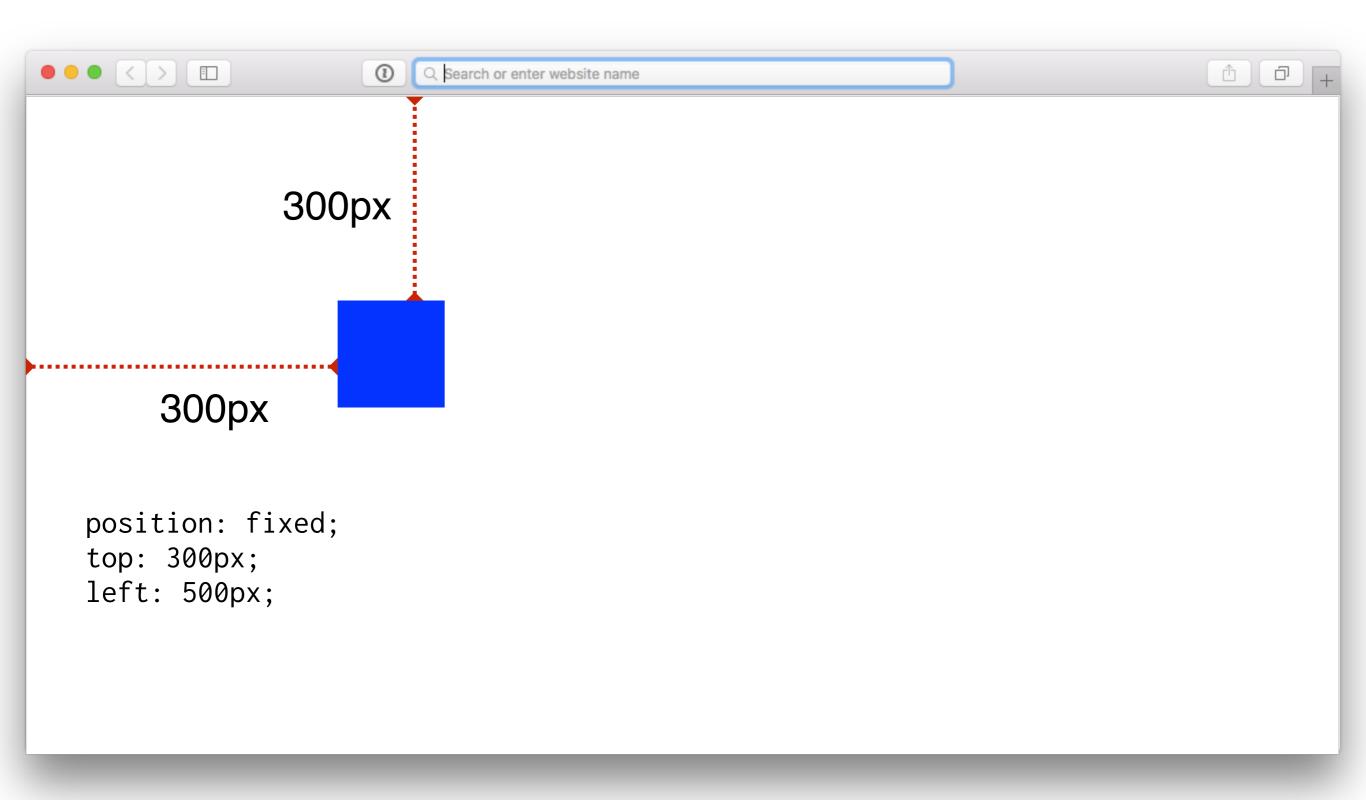




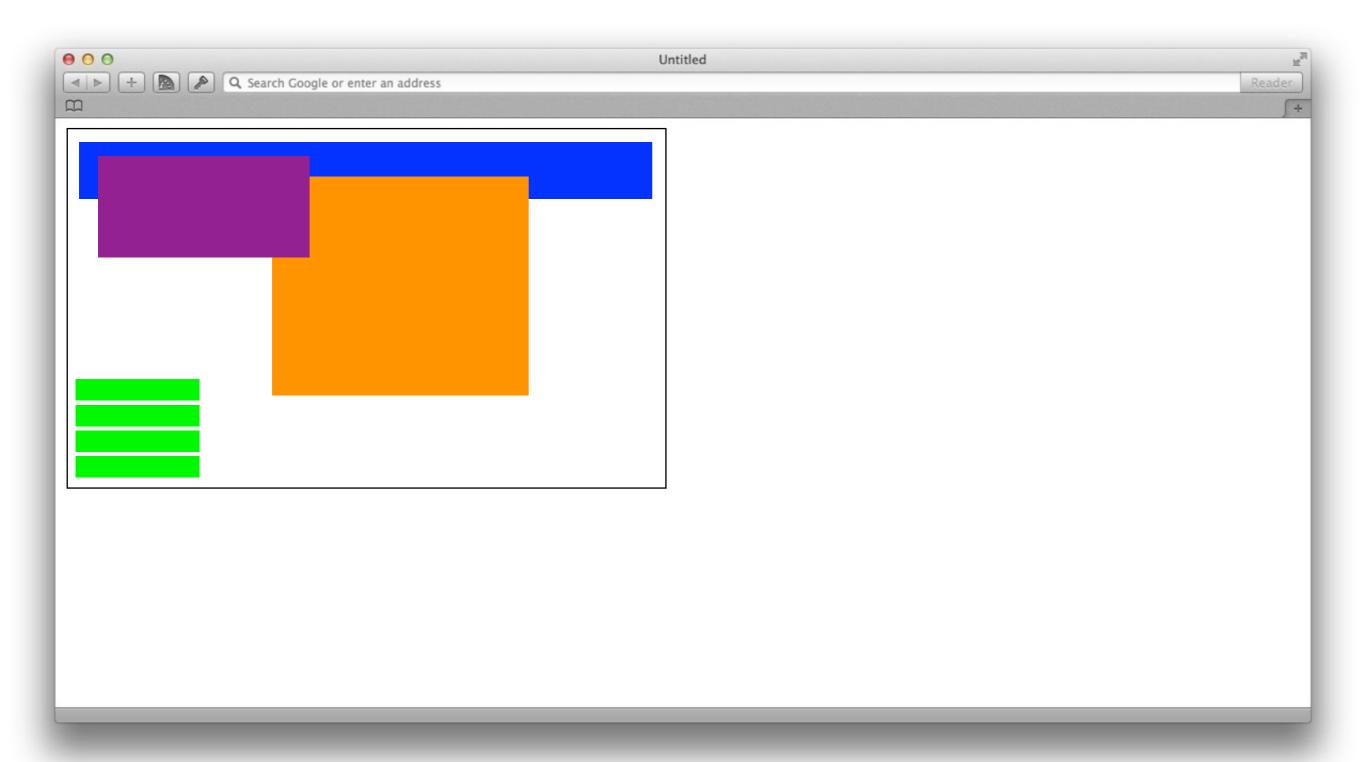
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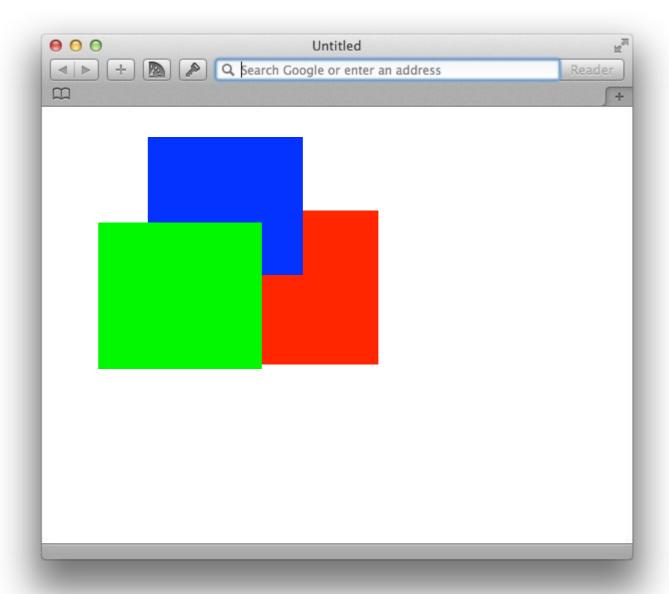
## z-index



- z-index property is an arbitrary number that determines the stacking order.
- A higher z-index number will indicate those elements should be on top. A lower number means they should appear underneath other elements.
- z-index property can only be applied to elements that are positioned with *relative*, absolute or *fixed*, but **not** the default static.

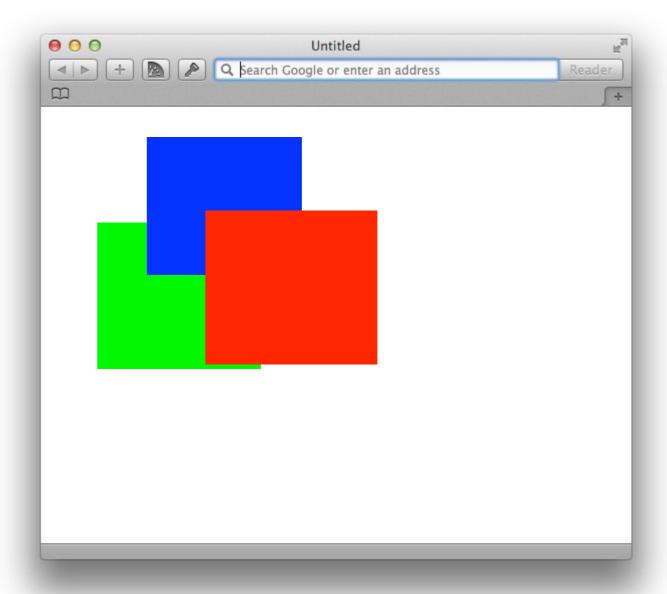
```
<div class="container">
        <div class="redbox"></div>
        <div class="bluebox"></div>
        <div class="greenbox"></div>
        </div>
```

```
.redbox{
   position:absolute;
   top: 100px; left:300px;
}
.bluebox{
   position:absolute;
   top: 10px; left: 200px;
}
.greenbox{
   position:absolute;
   top:110px; left: 50px;
}
```



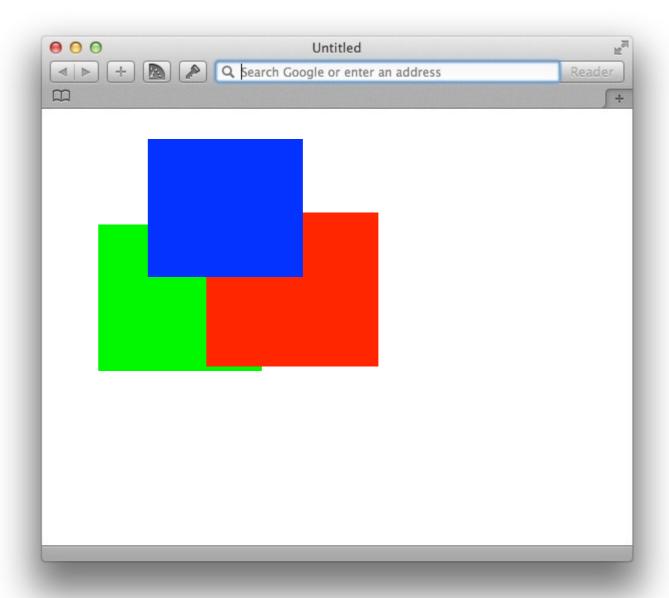
```
<div class="container">
     <div class="redbox"></div>
     <div class="bluebox"></div>
     <div class="greenbox"></div>
</div>
```

```
.redbox{
   position:absolute;
   z-index: 100;
}
.bluebox{
   position:absolute;
   z-index: 50;
}
.greenbox{
   position:absolute;
   z-index: 1;
}
```



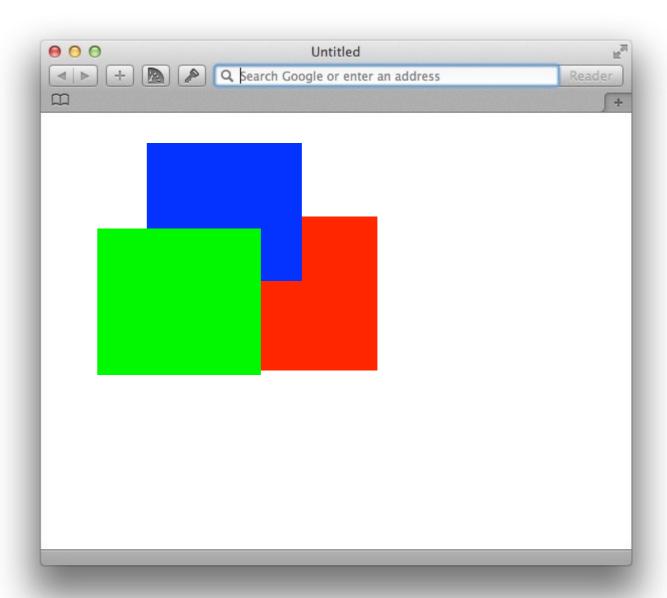
```
<div class="container">
    <div class="redbox"></div>
    <div class="bluebox"></div>
    <div class="greenbox"></div>
</div>
```

```
.redbox{
   position:absolute;
   z-index: 500000000000000;
}
.bluebox{
   position:absolute;
   z-index: 5000000000001;
}
.greenbox{
   position:absolute;
   z-index: -100;
}
```



```
<div class="container">
     <div class="redbox"></div>
     <div class="bluebox"></div>
     <div class="greenbox"></div>
</div>
```

```
.redbox{
   position:absolute;
   z-index: 10;
}
.bluebox{
   position:absolute;
   z-index: 10;
}
.greenbox{
   position:absolute;
   z-index: 11;
}
```



## transforms

- Transforms are based on an element's current position.
- Transforms are x value first (horizontal) and y value second (vertical)

#### **Transforms**

```
transform: translate(10px,5px);
transform: translateX(10px);
transform: translateY(5px);
```

### Transform rotation, scale

```
transform: rotate(7deg);
transform: scale(1.2);
```

### Multiple transforms

```
transform: translateX(5px) rotate(7deg) scale(1.2);
```