

CSS Part II

UC Berkeley Graduate School of Journalism

Review

```
p {  
  color : black;  
  font-size : 12px;  
  border : 1px solid blue;  
}
```

Review

```
p {  
  color : black;  
  font-size : 12px;  
  border : 1px solid blue;  
}
```

Review

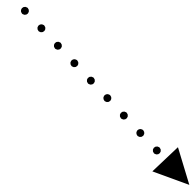
selector



```
{  
color : black;  
font-size : 12px;  
border : 1px solid blue;  
}
```

Review

selector



p {

color : black;

font-size : 12px;

border : 1px solid blue;

}

Review

selector

p {

color : black;

properties

font-size : 12px;

border : 1px solid blue;

}

Review

selector

p {

color : black;

properties

font-size : 12px;

border : 1px solid blue;

}

Review

selector

p {

values

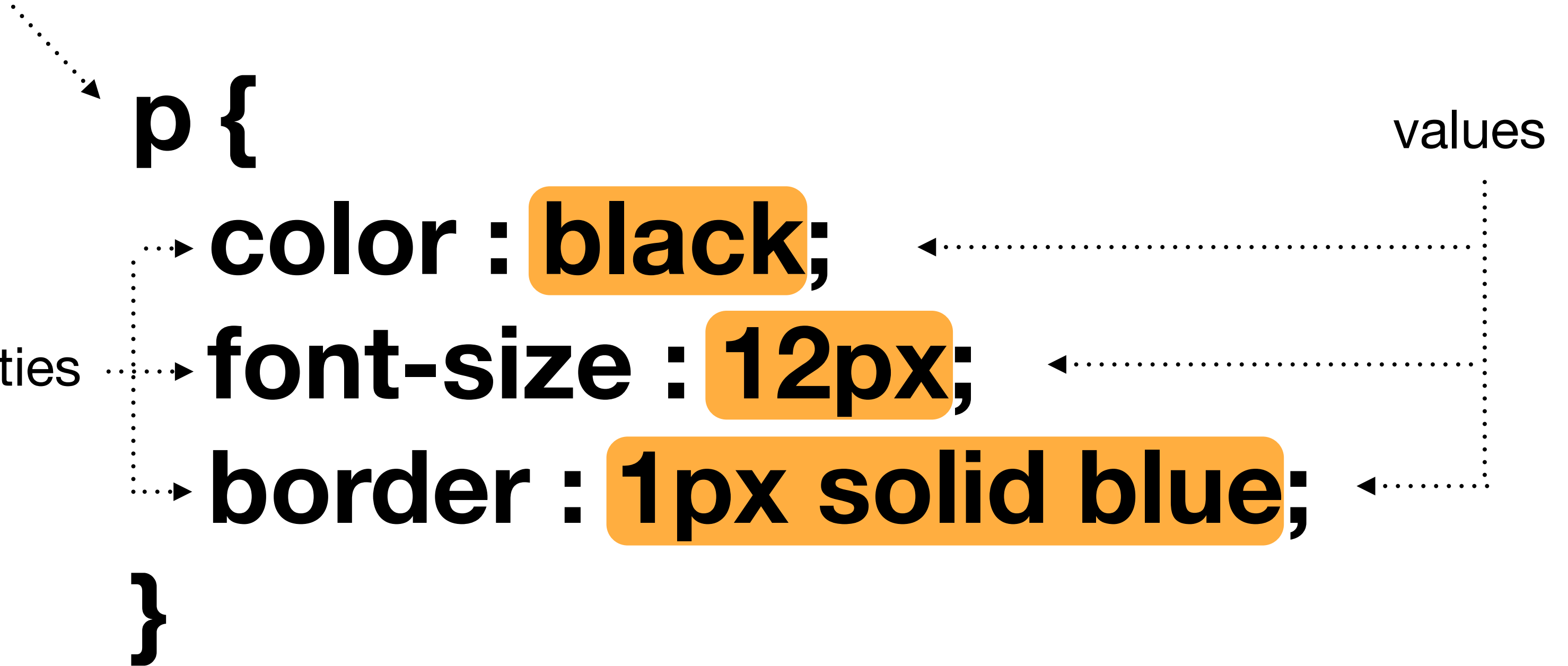
properties

color : black;

font-size : 12px;

border : 1px solid blue;

}



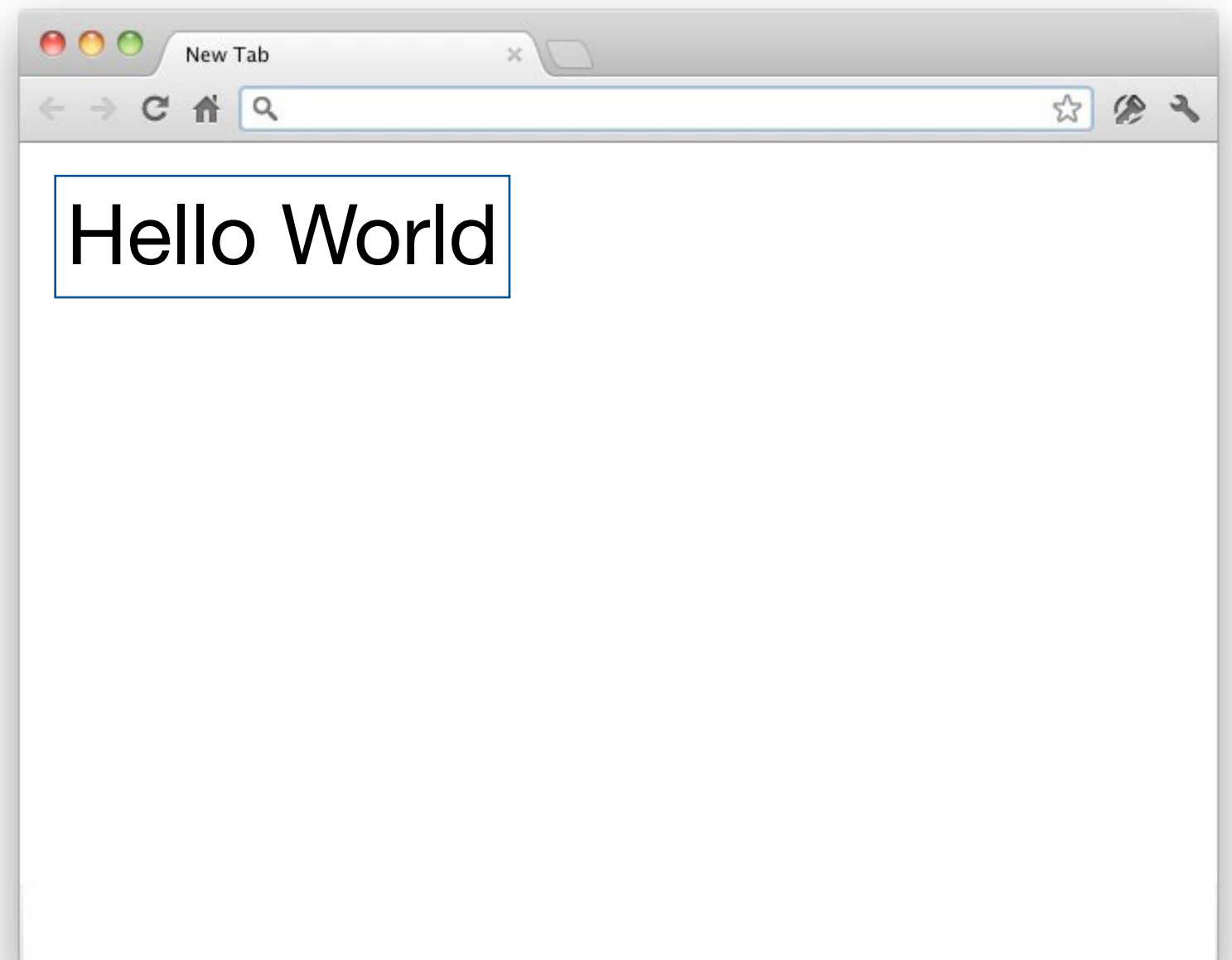
Review

CSS

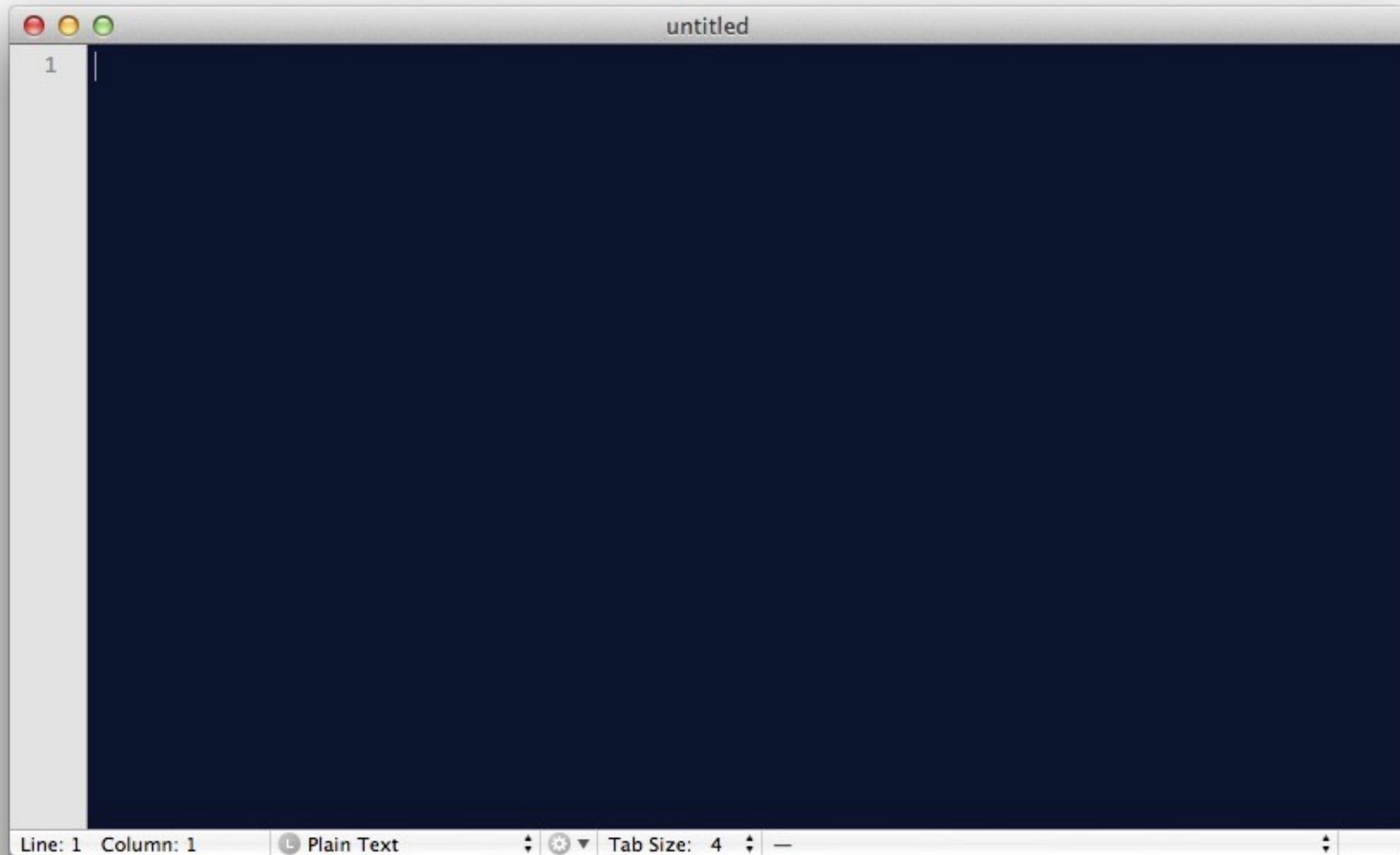
```
#textblock{  
  color:black;  
  border:1px solid blue;  
  font-size:12px;  
}
```

HTML

```
<p id="textblock">  
Hello World  
</p>
```



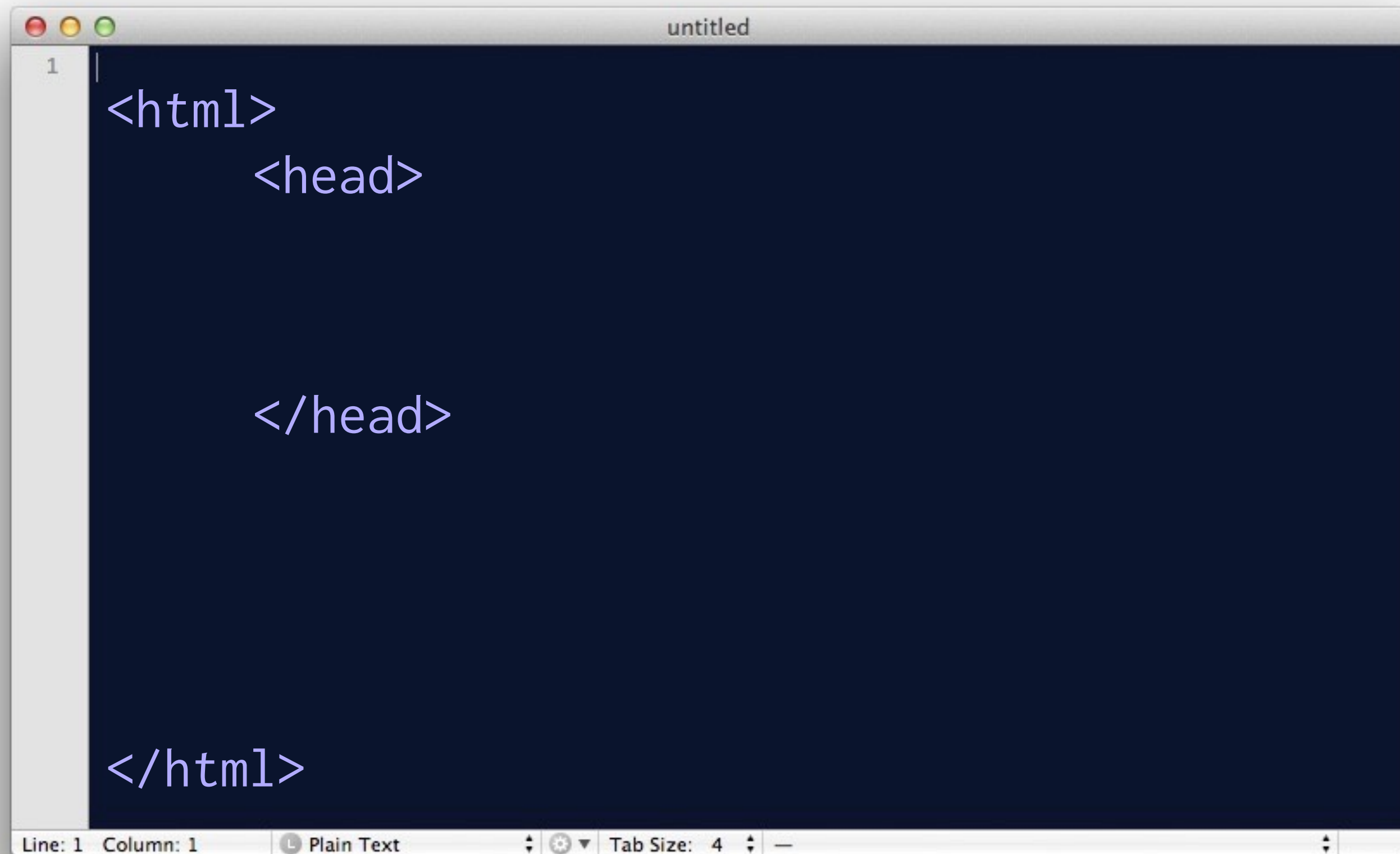
Review



Review

[illegible]

Review

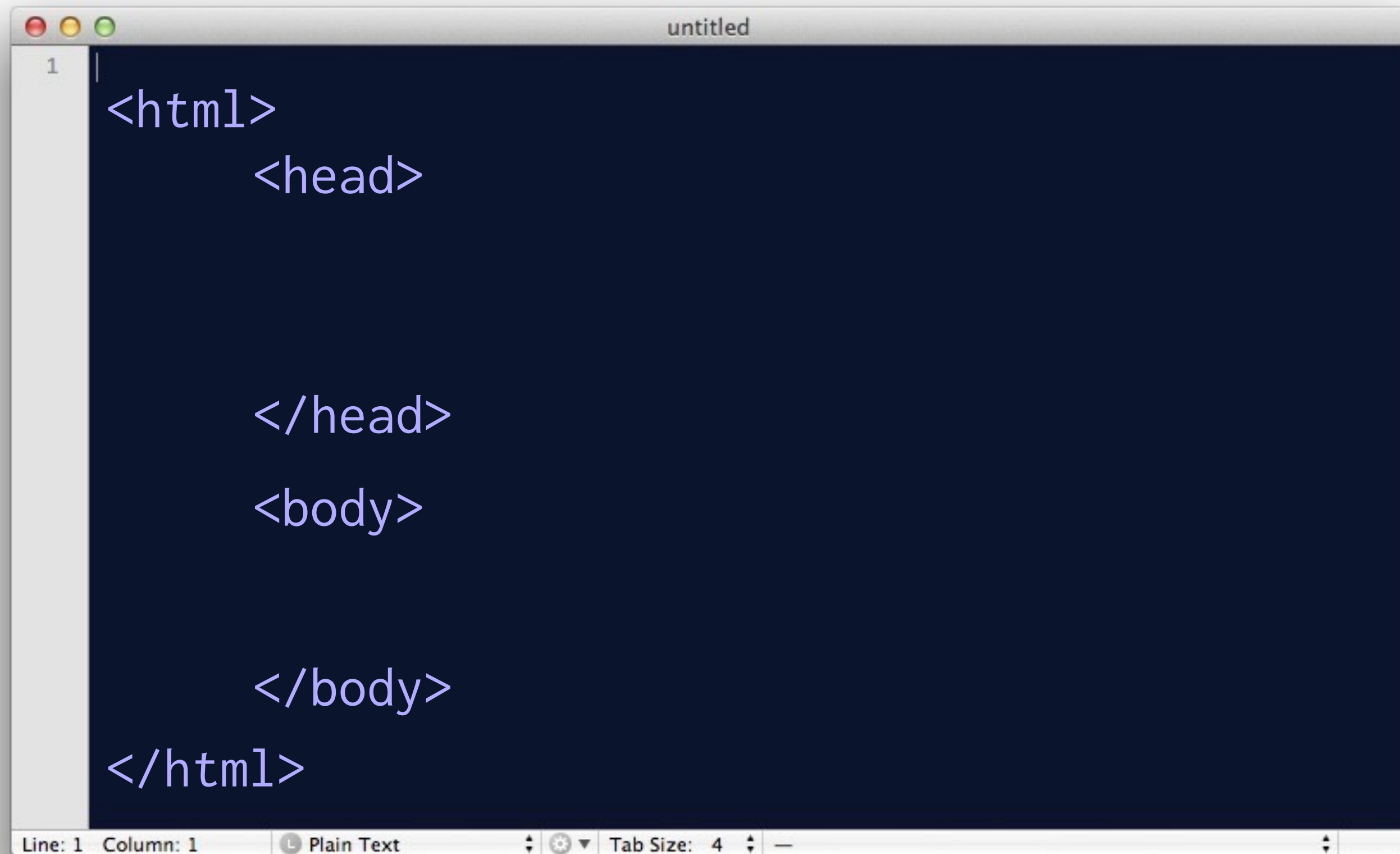


A screenshot of a code editor window titled "untitled". The editor has a dark blue background and a light gray sidebar on the left. The sidebar shows a line number "1" next to a vertical cursor. The main editing area contains the following HTML code in a light blue font:

```
<html>  
  <head>  
  
  </head>  
  
</html>
```

The status bar at the bottom of the window displays "Line: 1 Column: 1", "Plain Text", a settings icon, "Tab Size: 4", and a scrollbar.

Review

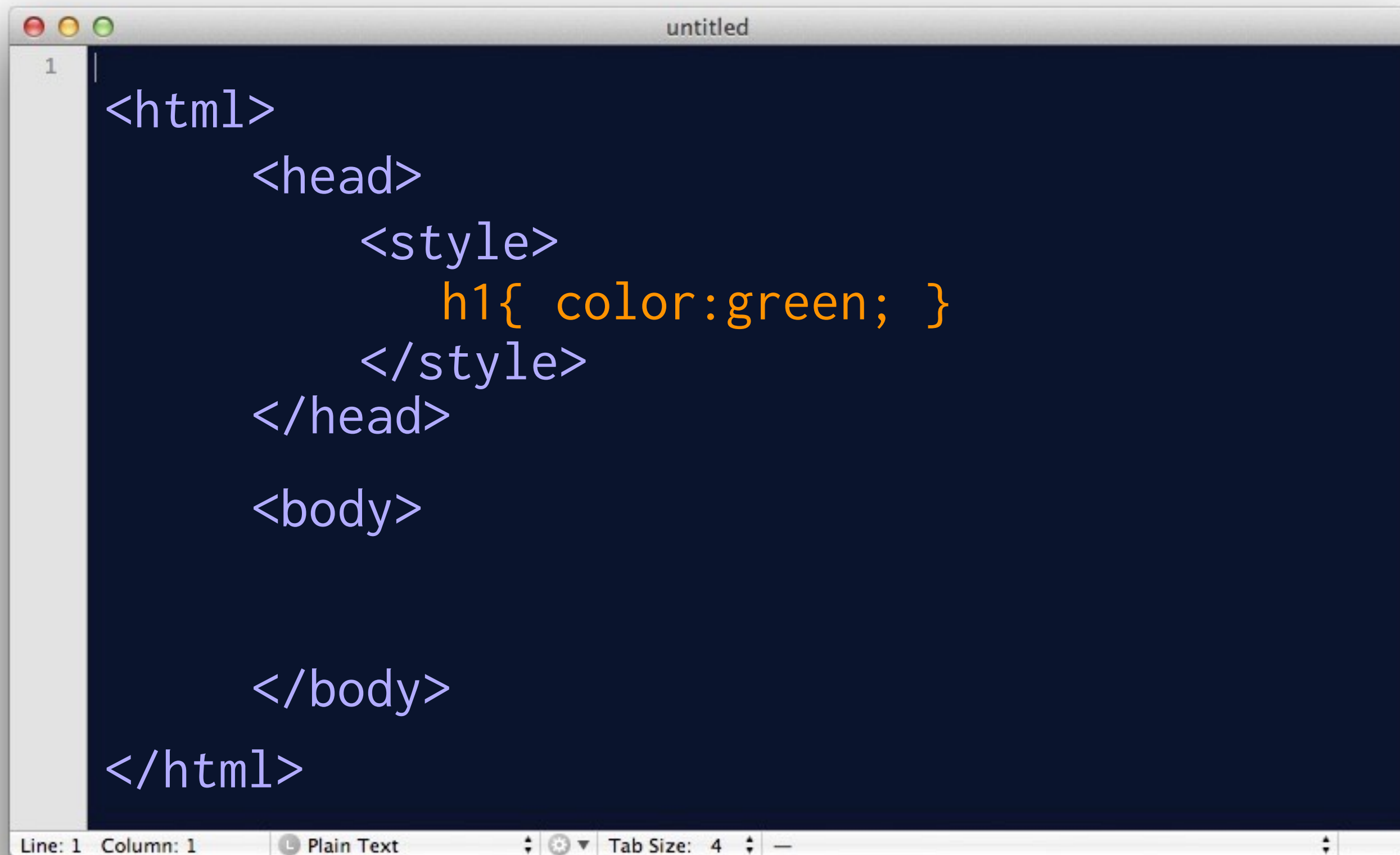


The image shows a screenshot of a code editor window with a dark blue background. The window has a title bar with three colored buttons (red, yellow, green) on the left and the text 'untitled' in the center. On the left side of the editor, there is a light gray vertical bar with the number '1' at the top. The main area of the editor contains the following HTML code in a light blue font:

```
<html>  
  <head>  
  
  </head>  
  <body>  
  
  </body>  
</html>
```

At the bottom of the window, there is a status bar with the following information: 'Line: 1 Column: 1', a gear icon followed by 'Plain Text', a settings icon, 'Tab Size: 4', and a minus sign icon.

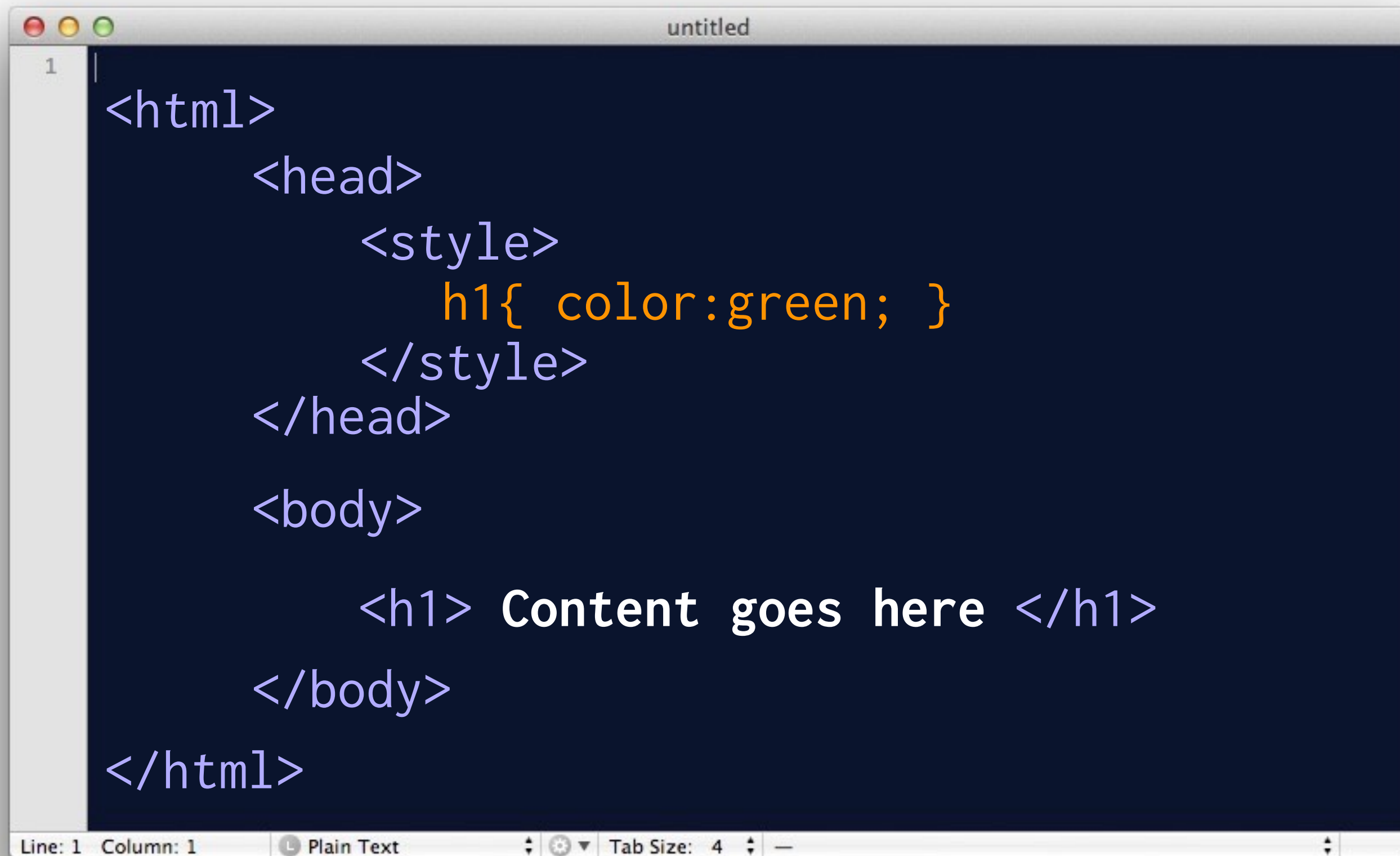
Review



```
1 |  
<html>  
  <head>  
    <style>  
      h1{ color:green; }  
    </style>  
  </head>  
  
  <body>  
  
    </body>  
  
</html>
```

Line: 1 Column: 1 Plain Text Tab Size: 4

Review



```
1 |  
<html>  
  <head>  
    <style>  
      h1{ color:green; }  
    </style>  
  </head>  
  
  <body>  
  
    <h1> Content goes here </h1>  
  
  </body>  
  
</html>
```

Line: 1 Column: 1 Plain Text Tab Size: 4

Review

```
div {  
  color : black;  
  font-size : 10px;  
}
```

```
#oneitem {  
  color : black;  
  font-size : 10px;  
}
```

```
.group {  
  color : black;  
  font-size : 10px;  
}
```

Review

Type (name) selector

```
div {  
    color : black;  
    font-size : 10px;  
}
```

```
#oneitem {  
    color : black;  
    font-size : 10px;  
}
```

```
.group {  
    color : black;  
    font-size : 10px;  
}
```

Review

Type (name) selector

```
div {  
    color : black;  
    font-size : 10px;  
}
```

ID selector

```
#oneitem {  
    color : black;  
    font-size : 10px;  
}
```

```
.group {  
    color : black;  
    font-size : 10px;  
}
```

Review

Type (name) selector

```
div {  
    color : black;  
    font-size : 10px;  
}
```

ID selector

```
#oneitem {  
    color : black;  
    font-size : 10px;  
}
```

Class selector

```
.group {  
    color : black;  
    font-size : 10px;  
}
```

Review

Type (name) selector

```
div {  
  color : black;  
  font-size : 10px;  
}
```

ID selector

```
#oneitem {  
  color : black;  
  font-size : 10px;  
}
```

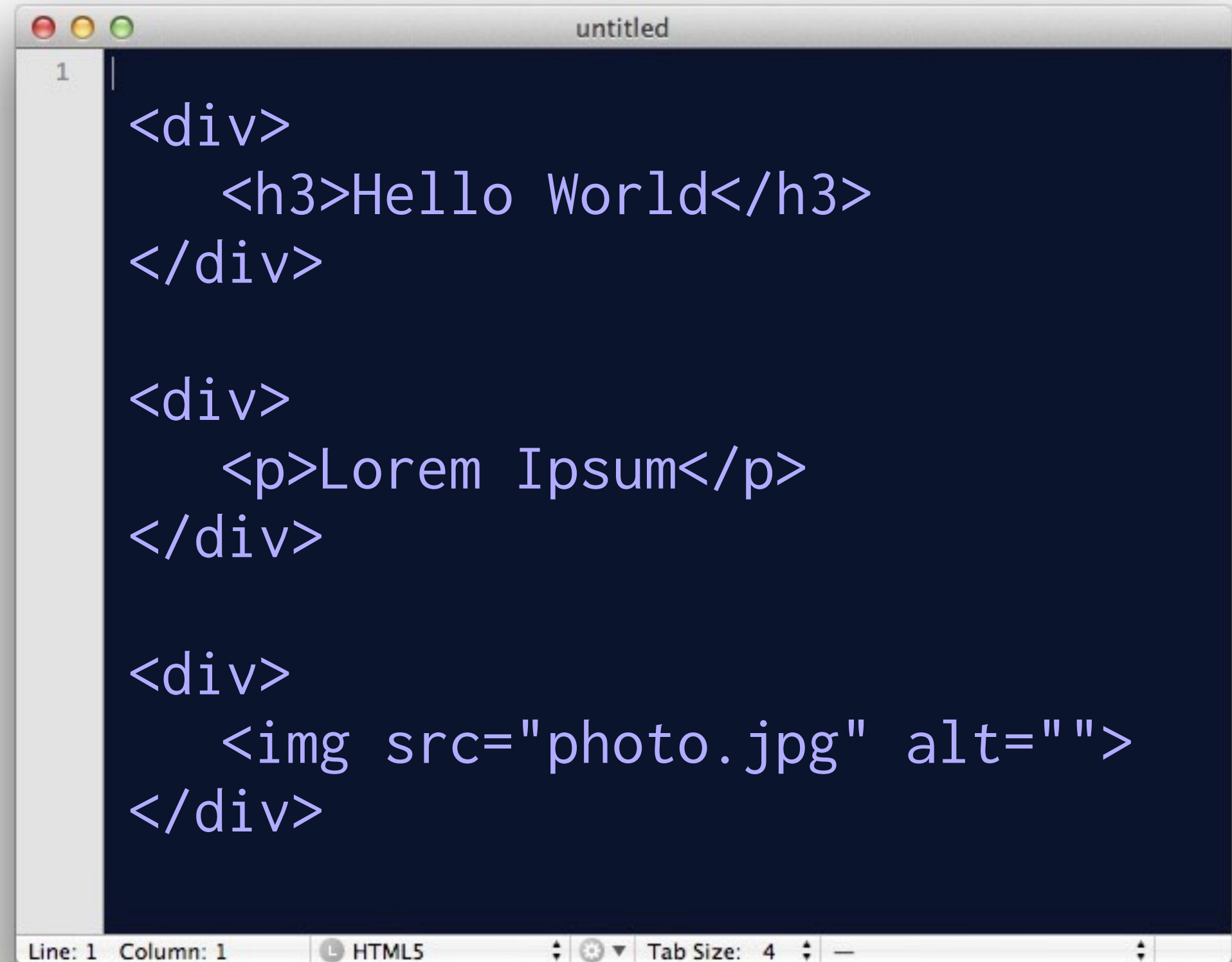
Class selector

```
.group {  
  color : black;  
  font-size : 10px;  
}
```

- ID selectors can only be used once, while Class selectors can be used over and over to group similar items.
- IDs and Classes are arbitrary names we pick (hopefully meaningful)

Review

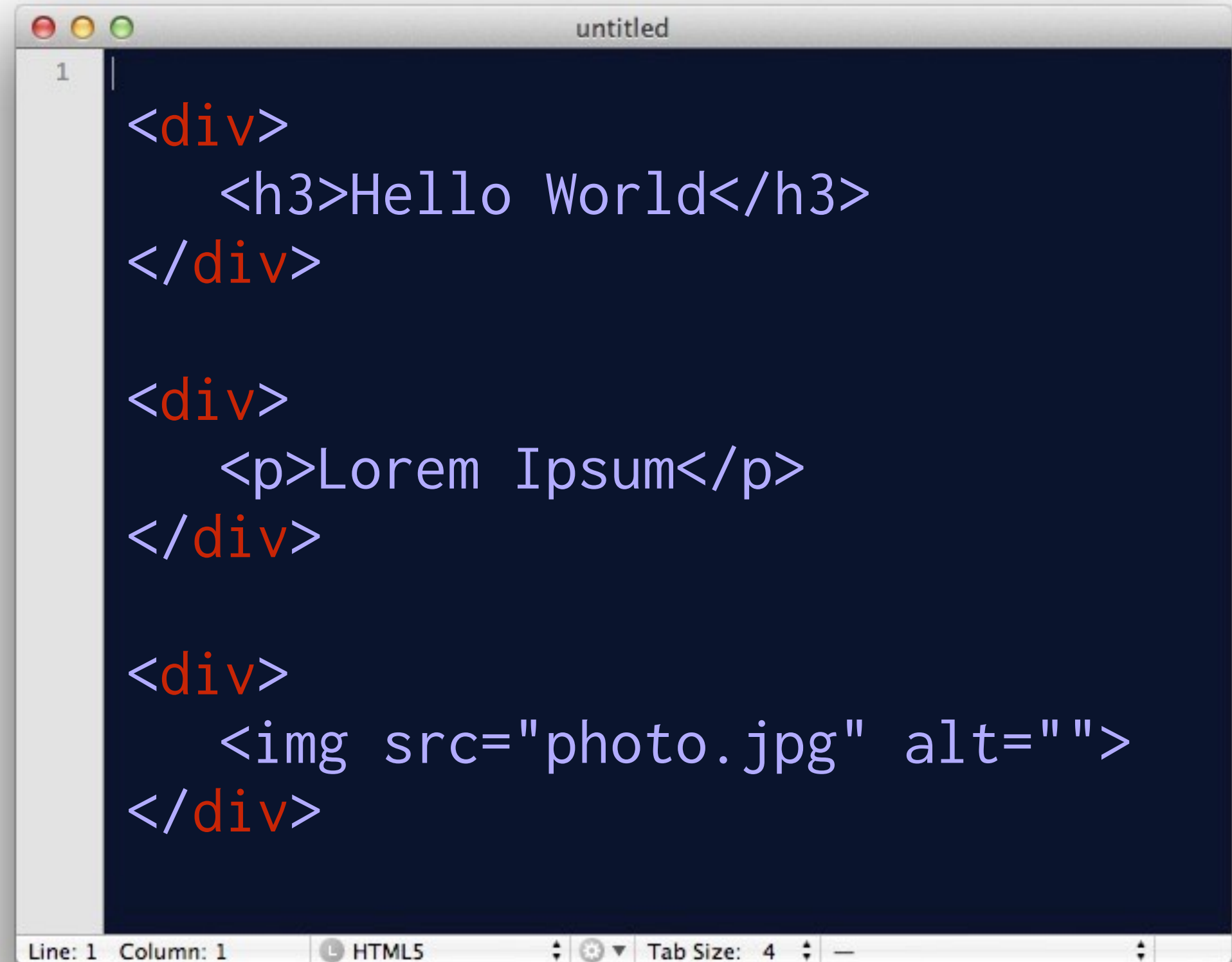
```
div {  
  color : black;  
  font-size : 10px;  
}
```

A screenshot of a code editor window titled "untitled". The editor has a dark blue background and a light gray sidebar on the left. The code is written in a light blue font. The code consists of three separate HTML blocks, each enclosed in a <div> tag. The first block contains an <h3>Hello World</h3> tag. The second block contains a <p>Lorem Ipsum</p> tag. The third block contains an tag. The status bar at the bottom shows "Line: 1 Column: 1", "HTML5", and "Tab Size: 4".

```
<div>  
  <h3>Hello World</h3>  
</div>  
  
<div>  
  <p>Lorem Ipsum</p>  
</div>  
  
<div>  
    
</div>
```

Review

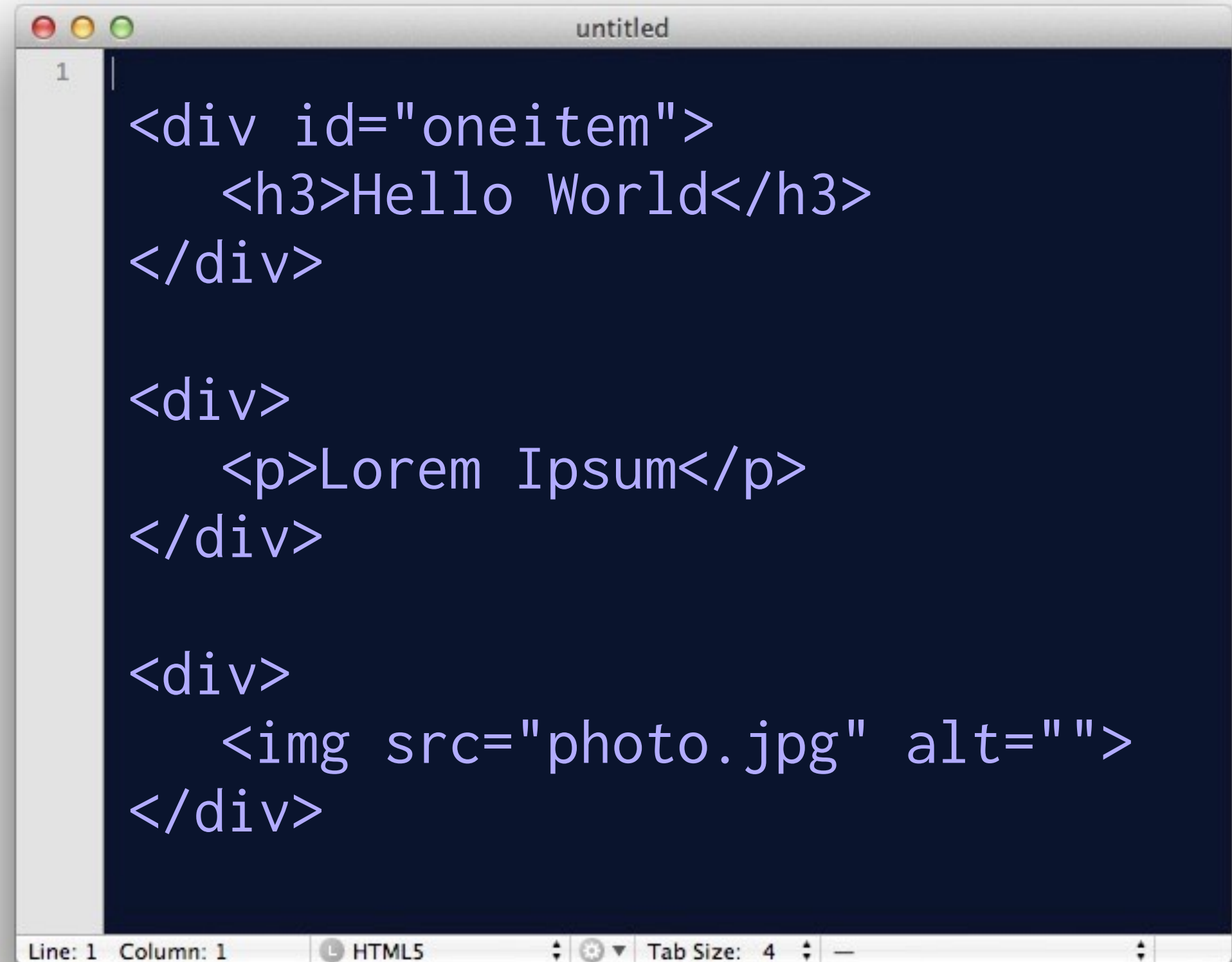
```
div {  
  color : black;  
  font-size : 10px;  
}
```



```
<div>  
  <h3>Hello World</h3>  
</div>  
  
<div>  
  <p>Lorem Ipsum</p>  
</div>  
  
<div>  
    
</div>
```

Review

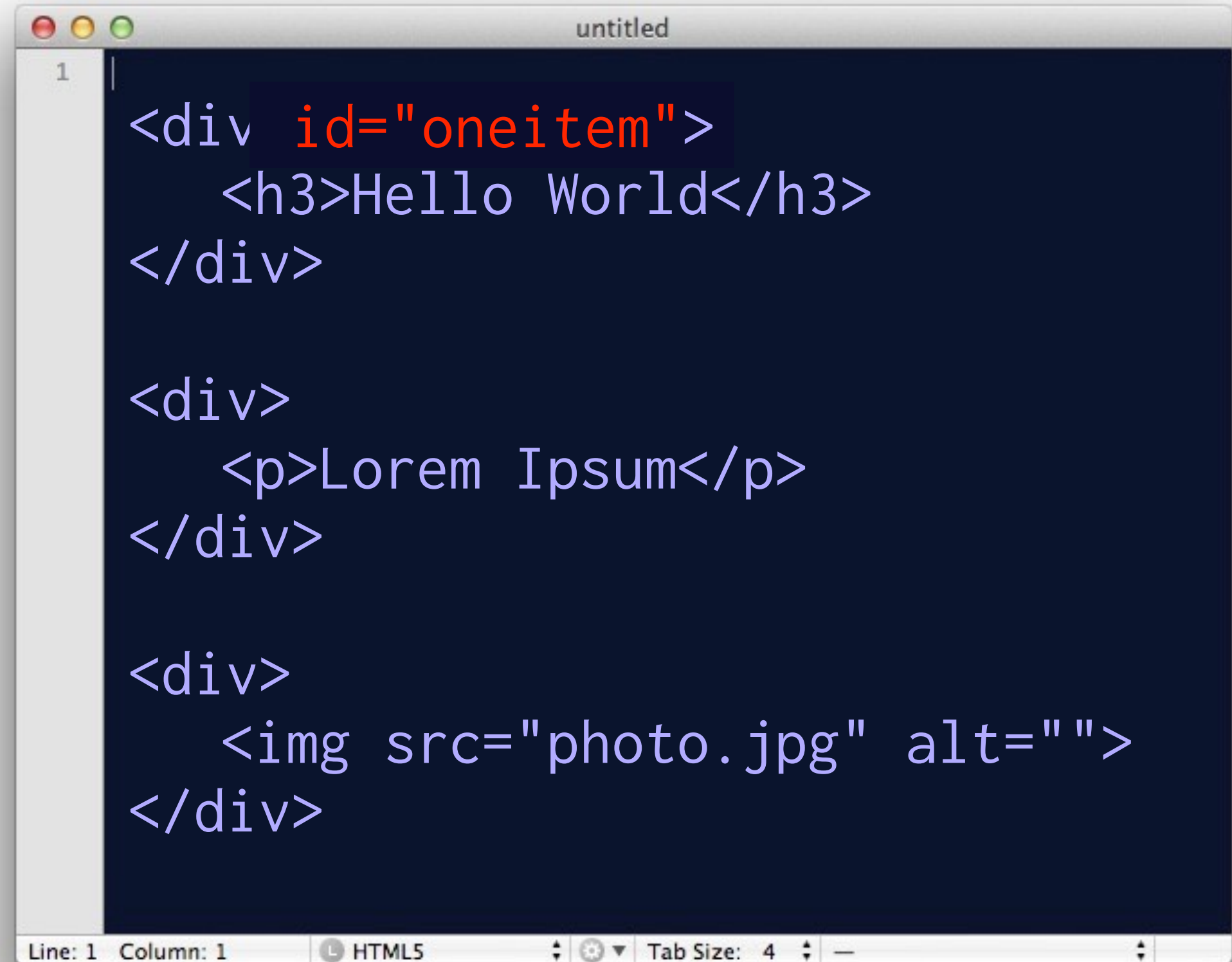
```
#oneitem {  
  color : black;  
  font-size : 10px;  
}
```

A screenshot of a code editor window titled "untitled". The editor has a dark blue background and a light gray sidebar on the left. The code is written in a light blue font. The code consists of three HTML blocks: a div with an id of "oneitem" containing an h3 element with the text "Hello World", a div containing a p element with the text "Lorem Ipsum", and a div containing an img element with src="photo.jpg" and alt="". The status bar at the bottom shows "Line: 1 Column: 1", "HTML5", and "Tab Size: 4".

```
1 |  
  <div id="oneitem">  
    <h3>Hello World</h3>  
  </div>  
  
  <div>  
    <p>Lorem Ipsum</p>  
  </div>  
  
  <div>  
      
  </div>
```

Review

```
#oneitem {  
  color : black;  
  font-size : 10px;  
}
```

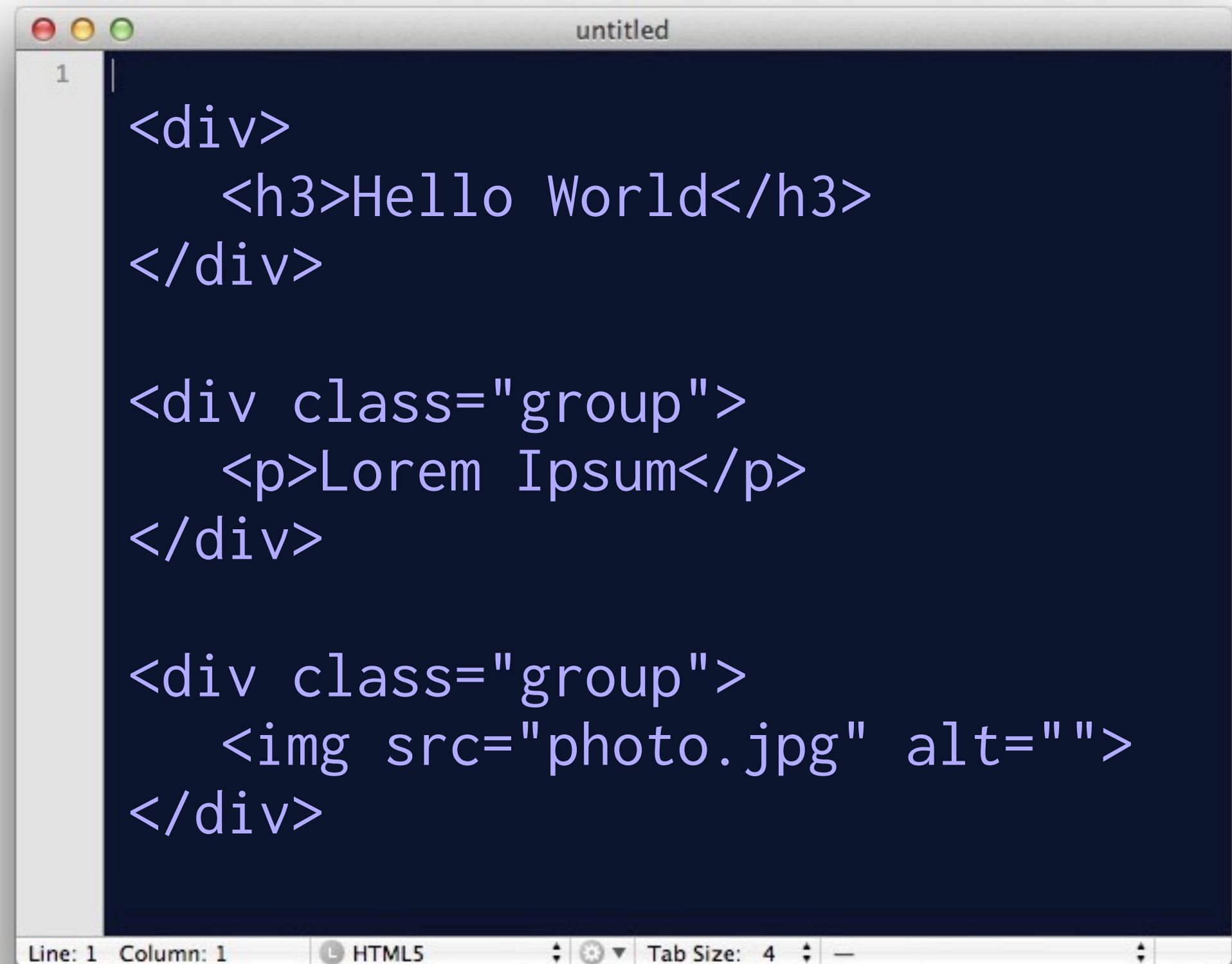


```
1 |  
  <div id="oneitem">  
    <h3>Hello World</h3>  
  </div>  
  
  <div>  
    <p>Lorem Ipsum</p>  
  </div>  
  
  <div>  
      
  </div>
```

Line: 1 Column: 1 HTML5 Tab Size: 4

Review

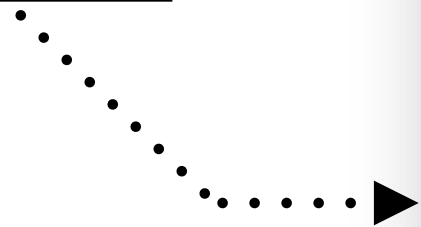
```
.group {  
  color : black;  
  font-size : 10px;  
}
```

A screenshot of a code editor window titled "untitled". The editor has a dark blue background and a light gray sidebar on the left. The code is written in a light blue font. The code consists of three HTML snippets. The first snippet is a div containing an h3 element with the text "Hello World". The second snippet is a div with a class attribute of "group" containing a p element with the text "Lorem Ipsum". The third snippet is a div with a class attribute of "group" containing an img element with a src attribute of "photo.jpg" and an alt attribute of an empty string. The status bar at the bottom shows "Line: 1 Column: 1", "HTML5", and "Tab Size: 4".

```
1 |  
  <div>  
    <h3>Hello World</h3>  
  </div>  
  
  <div class="group">  
    <p>Lorem Ipsum</p>  
  </div>  
  
  <div class="group">  
      
  </div>
```

Review

```
.group {  
  color : black;  
  font-size : 10px;  
}
```



```
untitled  
1  
<div>  
  <h3>Hello World</h3>  
</div>  
  
<div class="group">  
  <p>Lorem Ipsum</p>  
</div>  
  
<div class="group">  
    
</div>
```

Line: 1 Column: 1 HTML5 Tab Size: 4

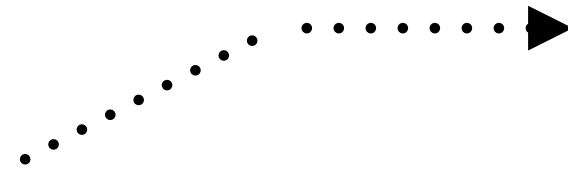
Two new ways to write
selectors

Comma separated

```
p, div, h1 {  
  color : black;  
  font-size : 12px;  
}
```

Comma separated

```
p, div, h1 {  
  color : black;  
  font-size : 12px;  
}
```



```
p {  
  color:black;  
  font-size:12px;  
}
```



```
div {  
  color:black;  
  font-size:12px;  
}
```



```
h1 {  
  color:black;  
  font-size:12px;  
}
```

HTML:

```
<div id="container"></div>
```

```
<div id="wrapper"></div>
```

```
<div id="sidebar"></div>
```

```
<div id="aside"></div>
```

CSS:

```
#container, #wrapper, #sidebar{
```

```
    background: orange;
```

```
}
```

HTML:

```
<div id="container"></div>
```

```
<div id="wrapper"></div>
```

```
<div id="sidebar"></div>
```

```
<div id="aside"></div>
```

CSS:

```
#container, #wrapper, #sidebar{
```

```
    background: orange;
```

```
}
```

Commas allow
the CSS rule to
be applied to
multiple selectors

Next way: Space Separated

Space separated

```
div h1 {  
  color : black;  
  font-size : 12px;  
}
```

```
#container h2 {  
  color : green;  
  font-size : 12px;  
}
```

```
#wrapper .out {  
  color : blue;  
  font-size : 12px;  
}
```

Space separated

```
div h1 {  
  color : black;  
  font-size : 12px;  
}
```

only h1 inside div tag

```
#container h2 {  
  color : green;  
  font-size : 12px;  
}
```

```
#wrapper .out {  
  color : blue;  
  font-size : 12px;  
}
```

Space separated

```
div h1 {  
  color : black;  
  font-size : 12px;  
}
```

only h1 inside div tag

```
#container h2 {  
  color : green;  
  font-size : 12px;  
}
```

only h2 inside container

```
#wrapper .out {  
  color : blue;  
  font-size : 12px;  
}
```

Space separated

```
div h1 {  
  color : black;  
  font-size : 12px;  
}
```

only h1 inside div tag

```
#container h2 {  
  color : green;  
  font-size : 12px;  
}
```

only h2 inside container

```
#wrapper .out {  
  color : blue;  
  font-size : 12px;  
}
```

only .out inside #wrapper

HTML:

```
<p>Hello World</p>
```

```
<div id="container">
```

```
  <p>Hola</p>
```

```
  <p>Bonjour</p>
```

```
  <p>Ciao</p>
```

```
  <a href="http://google.com"></a>
```

```
</div>
```

CSS:

```
#container p{  
  background: orange;  
}
```

HTML:

```
<p>Hello World</p>

<div id="container">
  <p>Hola</p>
  <p>Bonjour</p>
  <p>Ciao</p>
  <a href="http://google.com"></a>
</div>
```

CSS:

```
#container p{
  background: orange;
}
```

Spaces in the selector indicate "nested" elements, or "child" elements

Pop Quiz

Which of the HTML tags is being targeted by the following CSS?

```
.headlines{  
  
}
```

1.

```
<div id="headlines">  
</div>
```

2.

```
<div>  
</div>
```

3.

```
<div class="headlines">  
</div>
```

Which of the HTML tags is being targeted by the following CSS?

```
.headlines{  
  
}
```

1.

```
<div id="headlines">  
</div>
```

2.

```
<div>  
</div>
```

3.

```
<div class="headlines">  
</div>
```

Which of the HTML tags is being targeted by the following CSS?

```
#container{  
  
}
```

1.

```
<div id="container">  
</div>
```

2.

```
<div>  
</div>
```

3.

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

Which of the HTML tags is being targeted by the following CSS?

```
#container{  
  
}
```

1.

```
<div id="container">  
</div>
```

2.

```
<div>  
</div>
```

3.

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

Which of the HTML tags is being targeted by the following CSS?

```
.items{  
  
}
```

1.

```
<div class="items">  
</div>
```

2.

```
<div>  
</div>
```

3.

```
<div class="items">  
</div>
```

Which of the HTML tags is being targeted by the following CSS?

```
.items{  
  
}
```

1.

```
<div class="items">  
</div>
```

2.

```
<div>  
</div>
```

3.

```
<div class="items">  
</div>
```

Which of the HTML tags is being targeted by the following CSS?

```
div{  
}
```

1.

```
<div id="container">  
</div>
```

2.

```
<div>  
</div>
```

3.

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

Which of the HTML tags is being targeted by the following CSS?

```
div{  
}
```

1.

```
<div id="container">  
</div>
```

2.

```
<div>  
</div>
```

3.

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

Which of the HTML tags is being targeted by the following CSS?

```
#quote, .citation{  
  
}
```

1.

```
<div id="quote">  
</div>
```

2.

```
<div>  
</div>
```

3.

```
<div class="citation">  
</div>
```

Which of the HTML tags is being targeted by the following CSS?

```
#quote, .citation{  
  
}
```

1.

```
<div id="quote">  
</div>
```

2.

```
<div>  
</div>
```

3.

```
<div class="citation">  
</div>
```

Which of the HTML tags is being targeted by the following CSS?

```
.citation p{  
  
}
```

1.

```
<div class="citation">
```

```
<p>Lorem Ipsum</p>
```

```
<p>Lorem Ipsum</p>
```

```
</div>
```

2.

```
<p>Lorem Ipsum</p>
```

3.

```
<div id="container">
```

```
<p>Lorem Ipsum</p>
```

```
</div>
```

Which of the HTML tags is being targeted by the following CSS?

```
.citation p{  
  
}
```

1.

```
<div class="citation">
```

```
<p>Lorem Ipsum</p>
```

```
<p>Lorem Ipsum</p>
```

```
</div>
```

2.

```
<p>Lorem Ipsum</p>
```

3.

```
<div id="container">
```

```
<p>Lorem Ipsum</p>
```

```
</div>
```

Comma separated

apply the same rules to multiple elements

Space separated

apply the rules to only elements
nested within another element

<div> tags

Working with `<div>` tags

Working with `<div>` tags

- By default, div boxes are invisible.

Working with `<div>` tags

- By default, div boxes are invisible.
- By default a box will have a width of "auto", or the full width of its container.

Working with `<div>` tags

- By default, div boxes are invisible.
- 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.

Working with `<div>` tags

- By default, div boxes are invisible.
- 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.

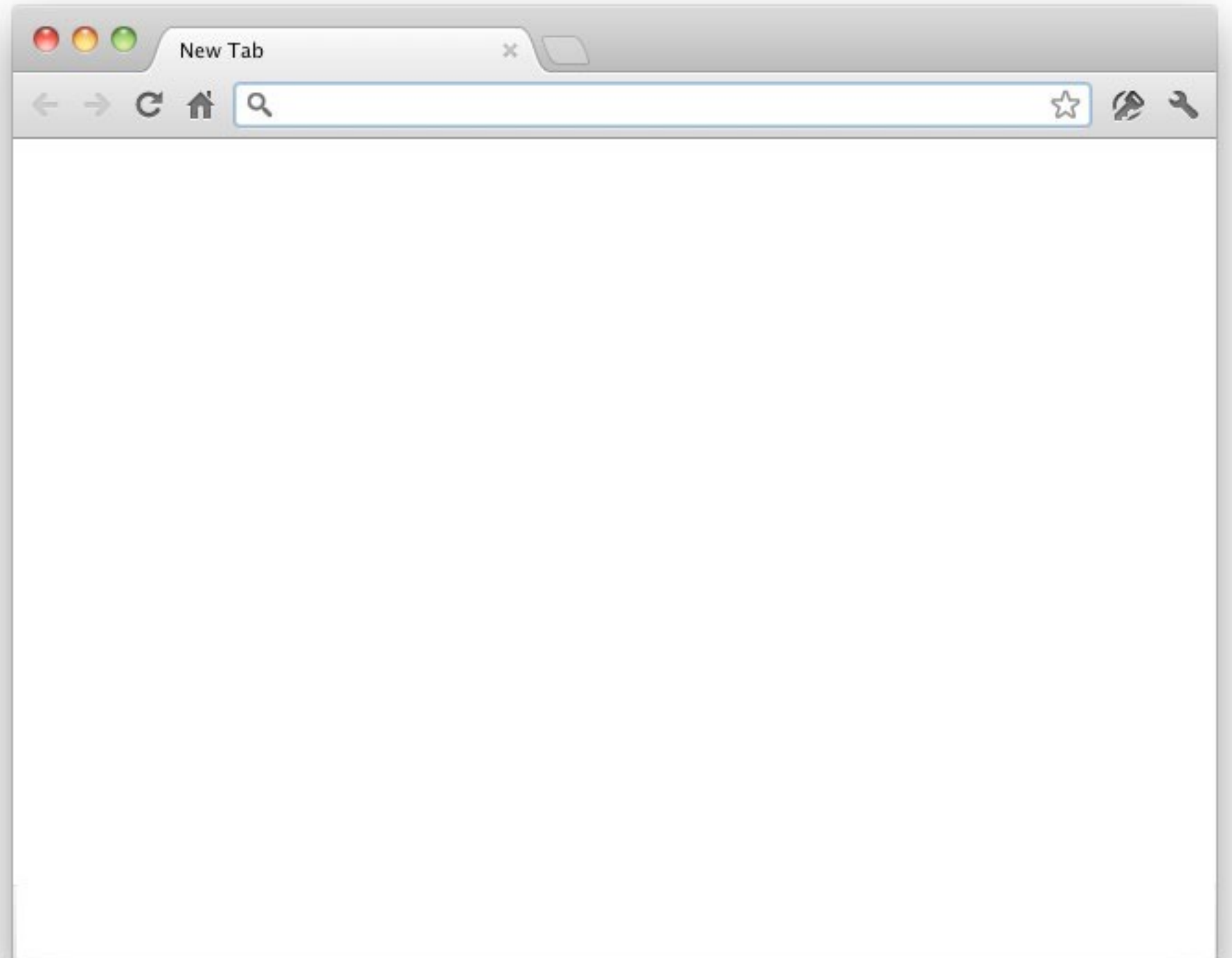
Working with `<div>` tags

CSS

div {

HTML

<div></div>



Working with `<div>` tags

- By default, div boxes are invisible.
- By default a box will have a width of 100%, 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.

Working with `<div>` tags

- By default, div boxes are invisible.
- By default a box will have a width of 100%, 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.

Working with `<div>` tags

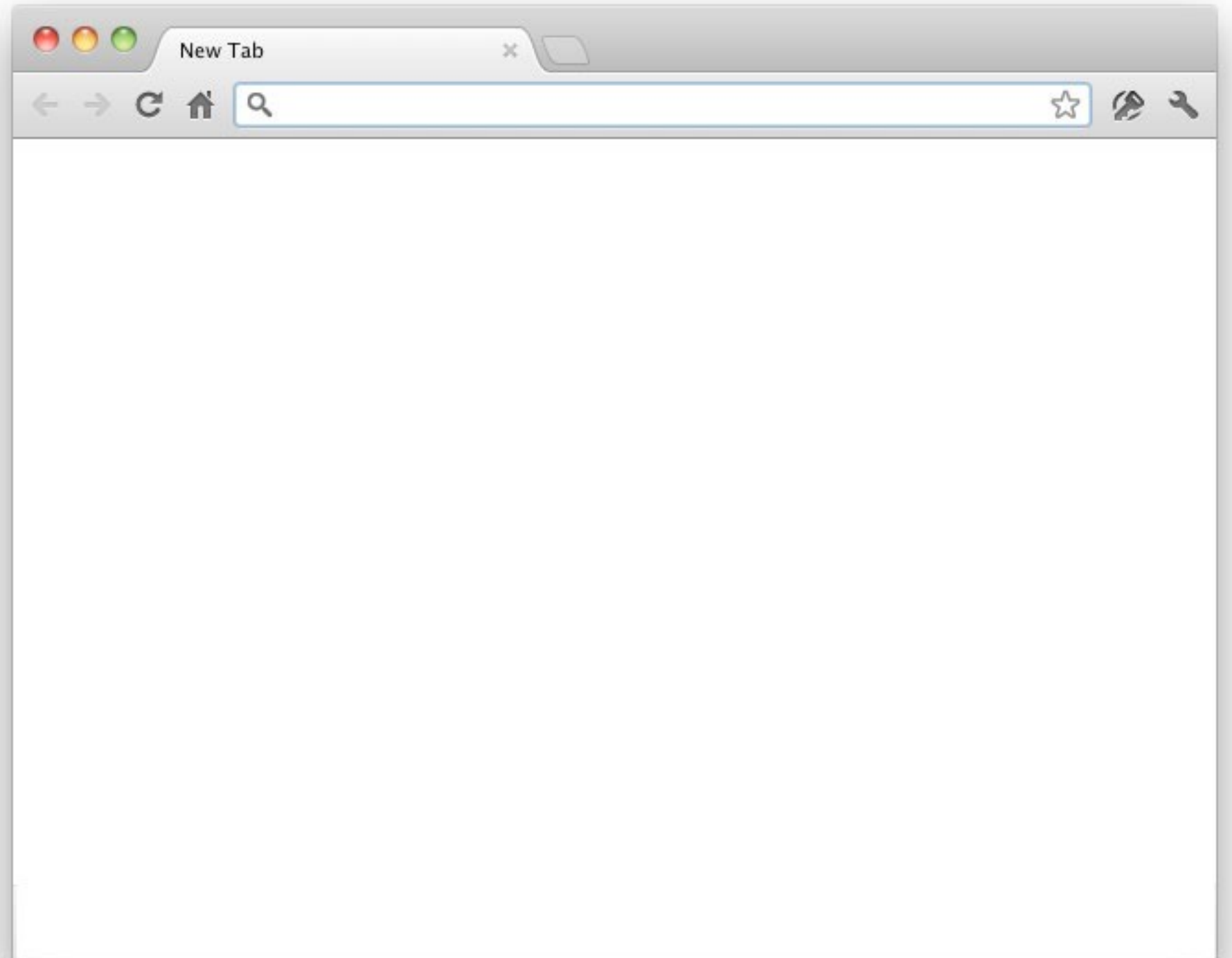
CSS

div {

}

HTML

<div></div>



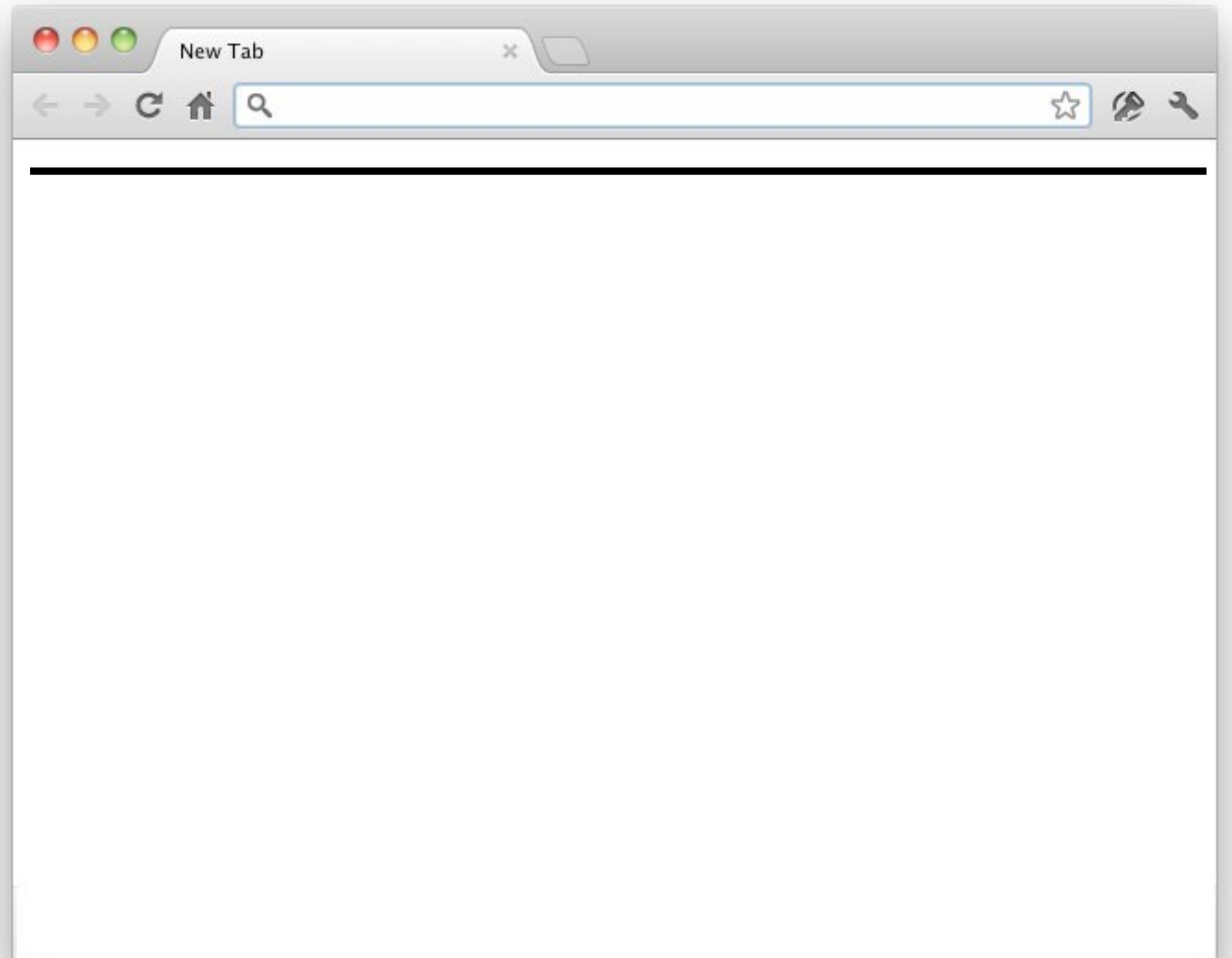
Working with <div> tags

CSS

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

HTML

```
<div></div>
```



Working with `<div>` tags

- By default, div boxes are invisible.
- By default a box will have a width of 100%, 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.

Working with `<div>` tags

- By default, div boxes are invisible.
- By default a box will have a width of 100%, 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.

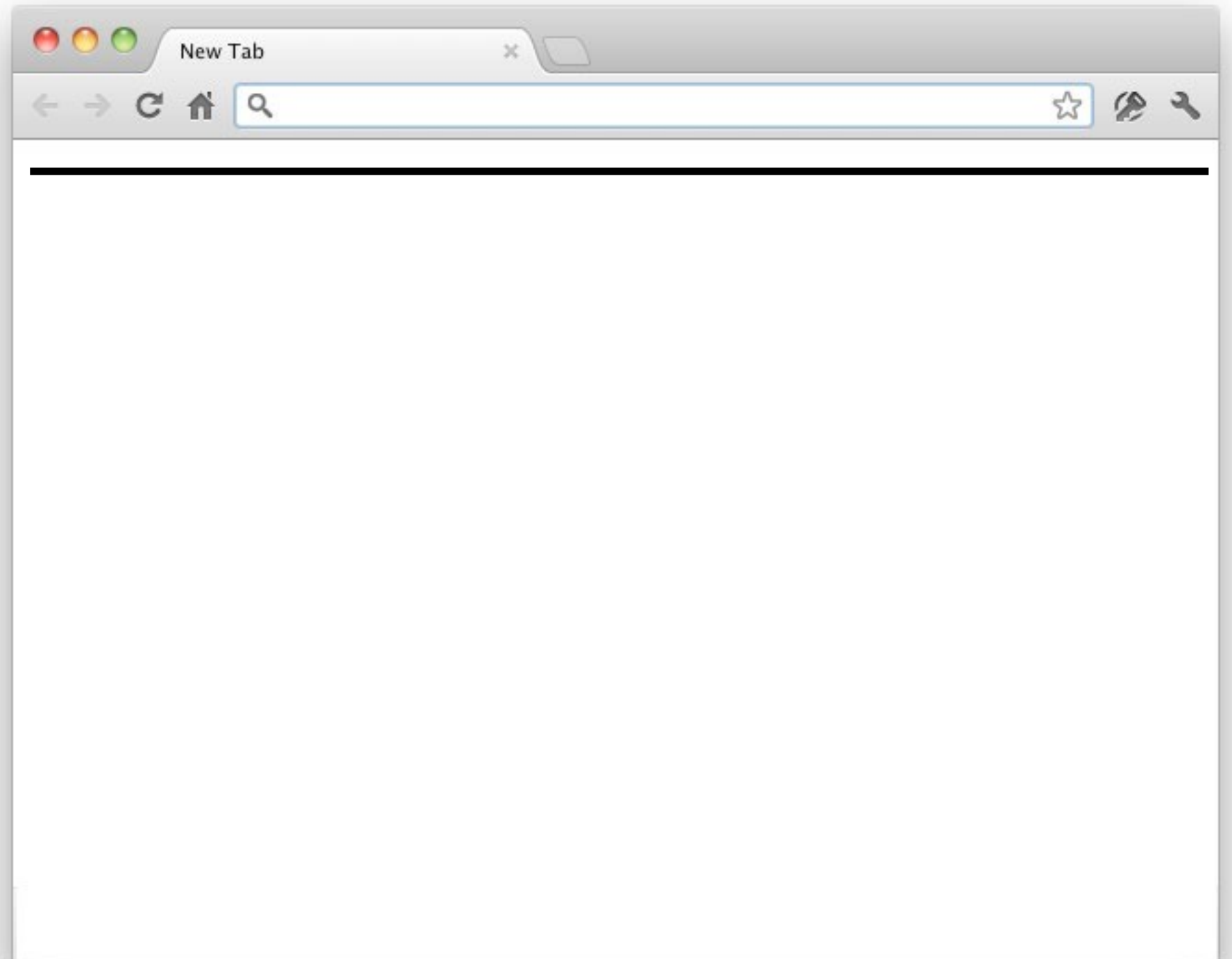
Working with <div> tags

CSS

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

HTML

```
<div></div>
```



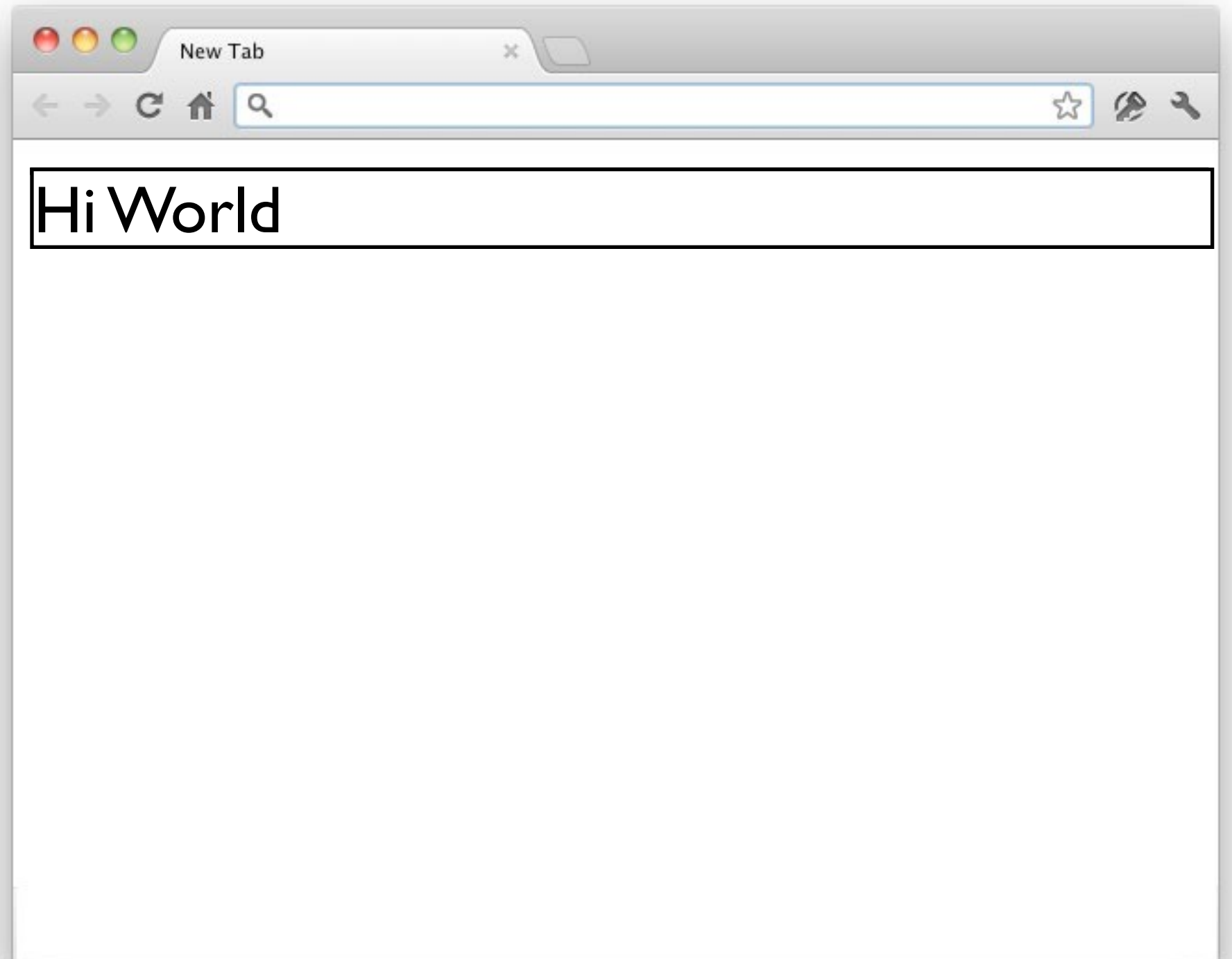
Working with <div> tags

CSS

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

HTML

```
<div>Hi World</div>
```



Working with `<div>` tags

- By default, div boxes are invisible.
- By default a box will have a width of 100%, 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.

Working with `<div>` tags

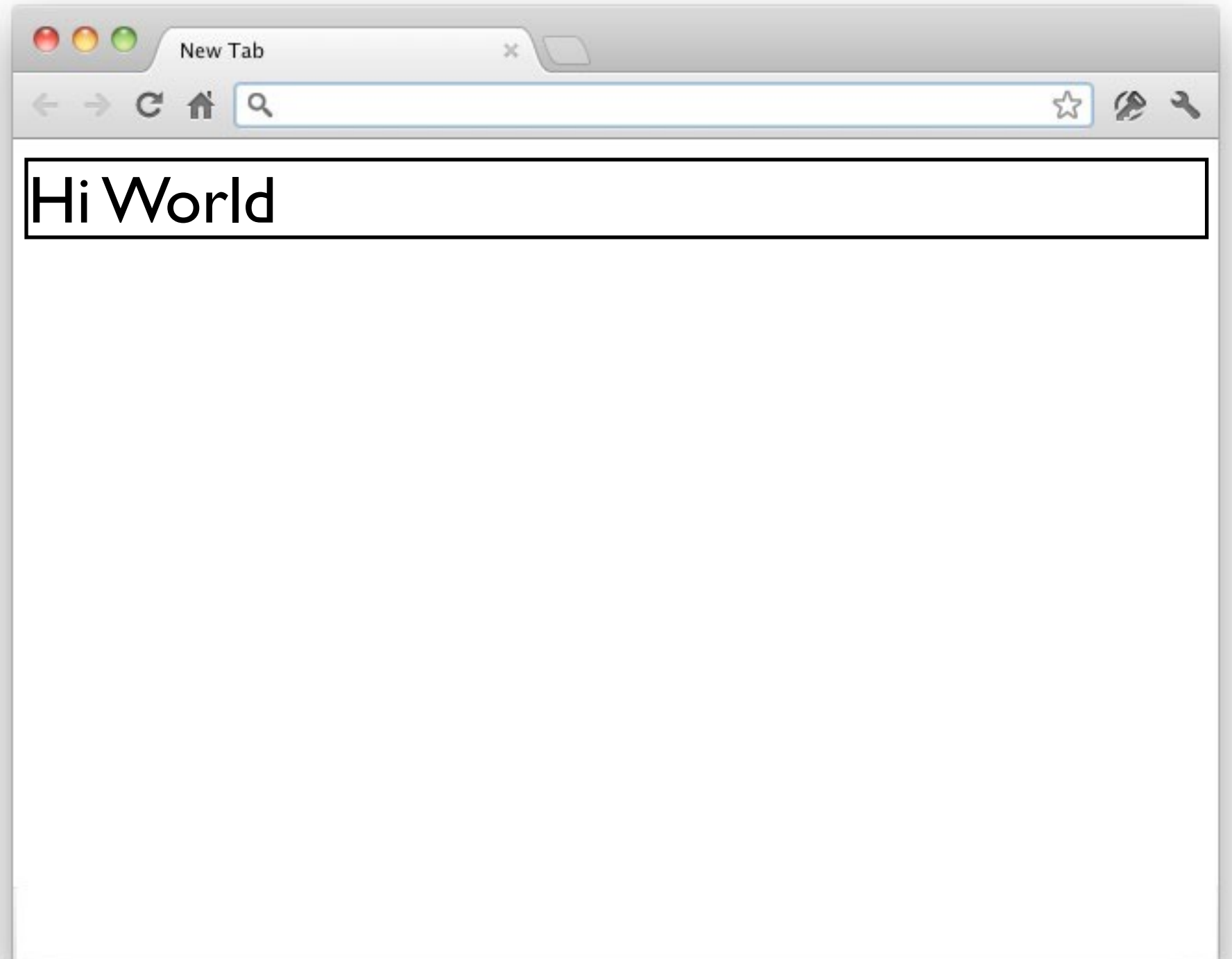
- By default, div boxes are invisible.
- By default a box will have a width of 100%, or the full width of its container.
- By default a box will have a height that conforms to the content of that box.
- If you set a height in CSS, that overrides the content.

Working with <div> tags

CSS

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

HTML



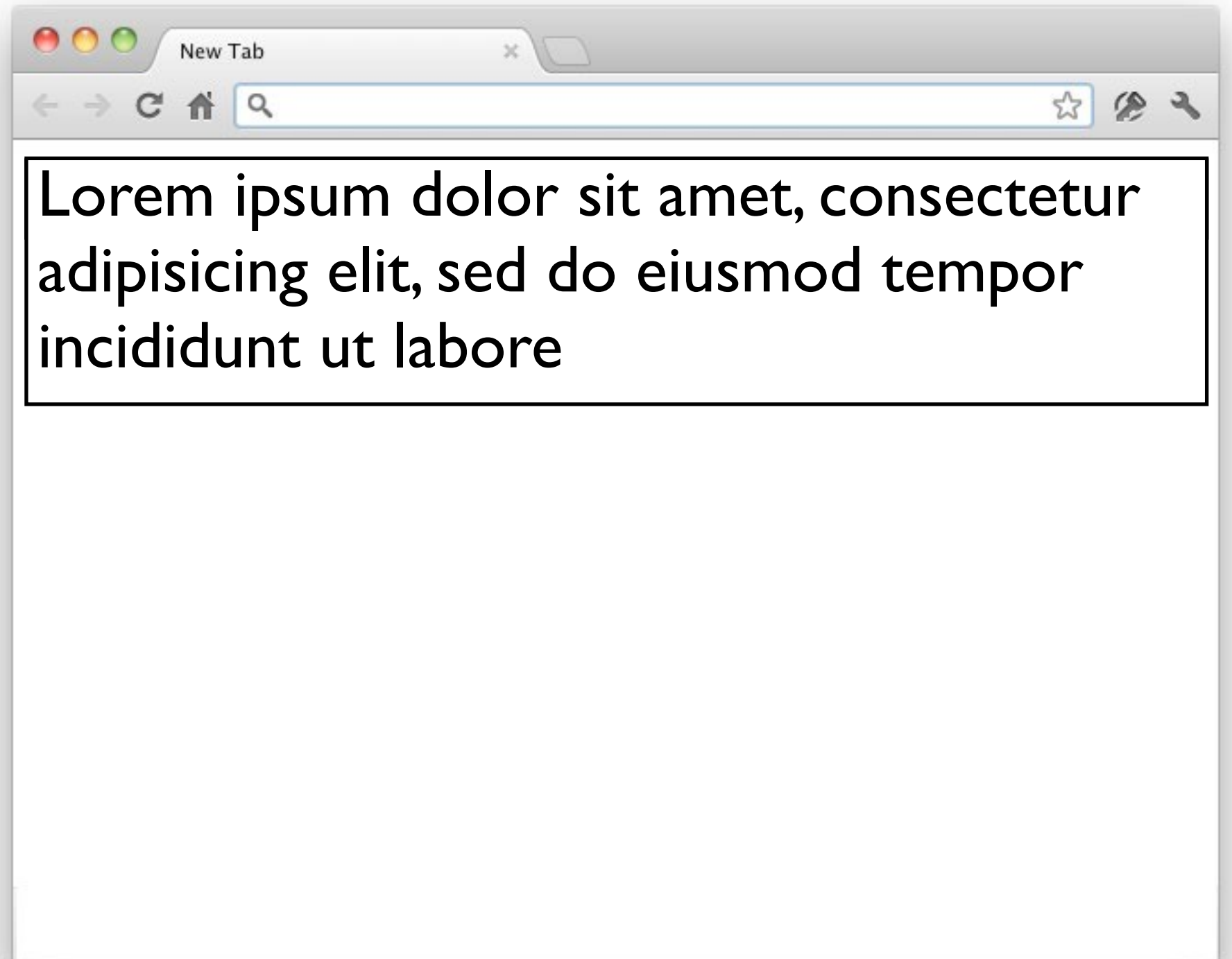
Working with <div> tags

CSS

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

HTML

```
<div>Lorem ipsum dolor sit amet,  
consectetur adipisicing elit,  
sed do eiusmod tempor incididunt  
ut labore</div>
```



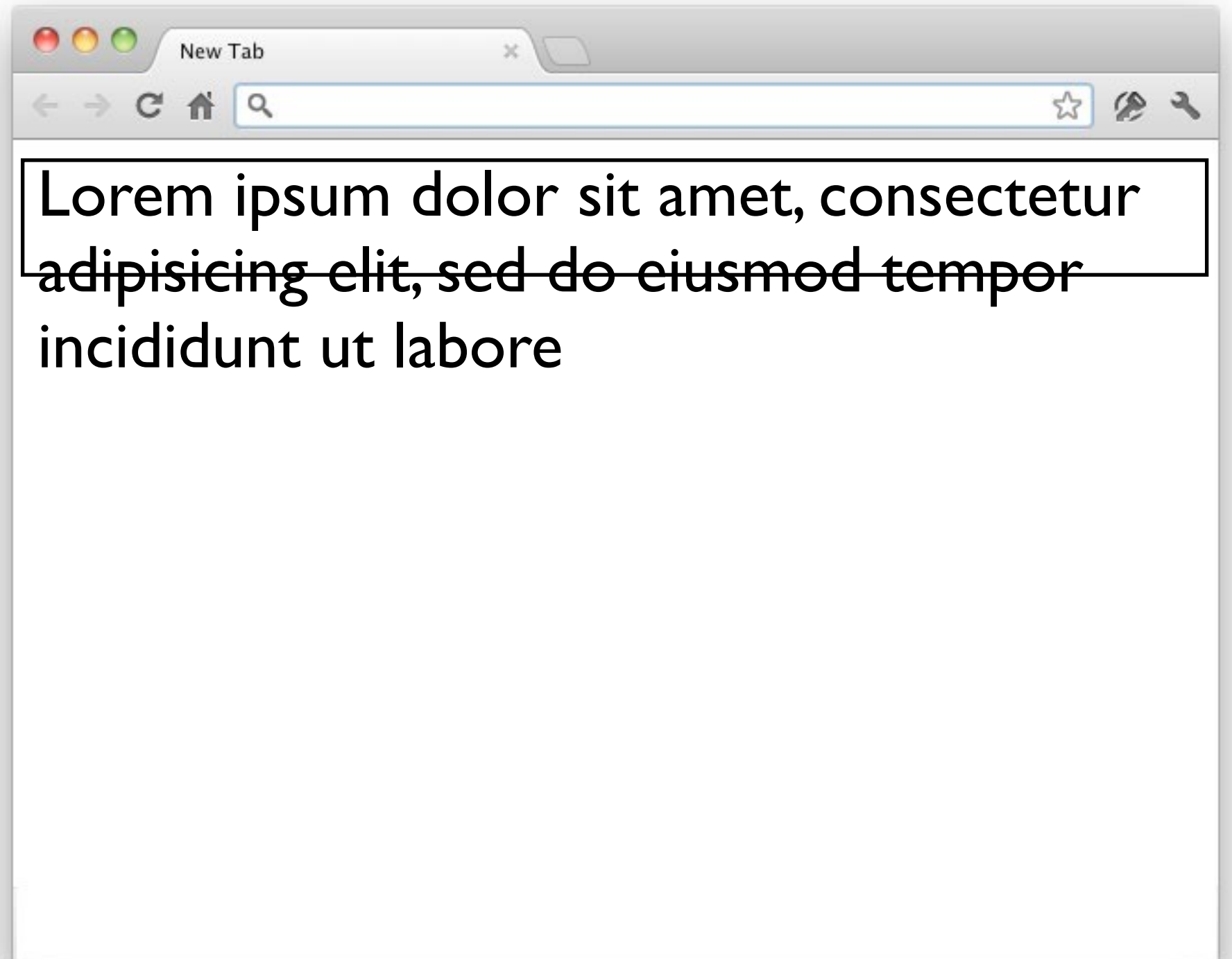
Working with <div> tags

CSS

```
div {  
  border:1px solid black;  
  height:10px;  
  
}
```

HTML

```
<div>Lorem ipsum dolor sit amet,  
consectetur adipisicing elit,  
sed do eiusmod tempor incididunt  
ut labore</div>
```



Working with `<div>` tags

- By default, div boxes are invisible.
- By default a box will have a width of 100%, 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.

Working with `<div>` tags

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CSS

IS

AWESOME

Richmond Confidential



Developers present plans for Point Molate to Richmond City Council

Orton Development, Samuelson Schafer, SunCal, and Point Molate Partners each presented plans, in 20-minute chunks, to both the council and a chamber filled with protesting members of the public. The crowd, many a part of [read more...](#)

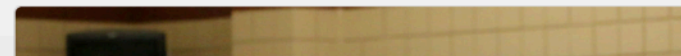
February 14, 2019



Western monarch butterflies could disappear

Monarch butterflies clustered on eucalyptus tree (Photo by Kathy Riley) Each year, thousands of monarch butterflies from across the west make their way to the California coast where they spend their winter, including making migratory [read more...](#)

February 12, 2019



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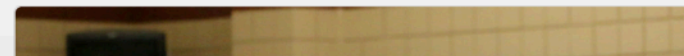
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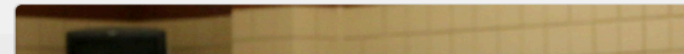
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The Box Model

Margins, Padding, Border

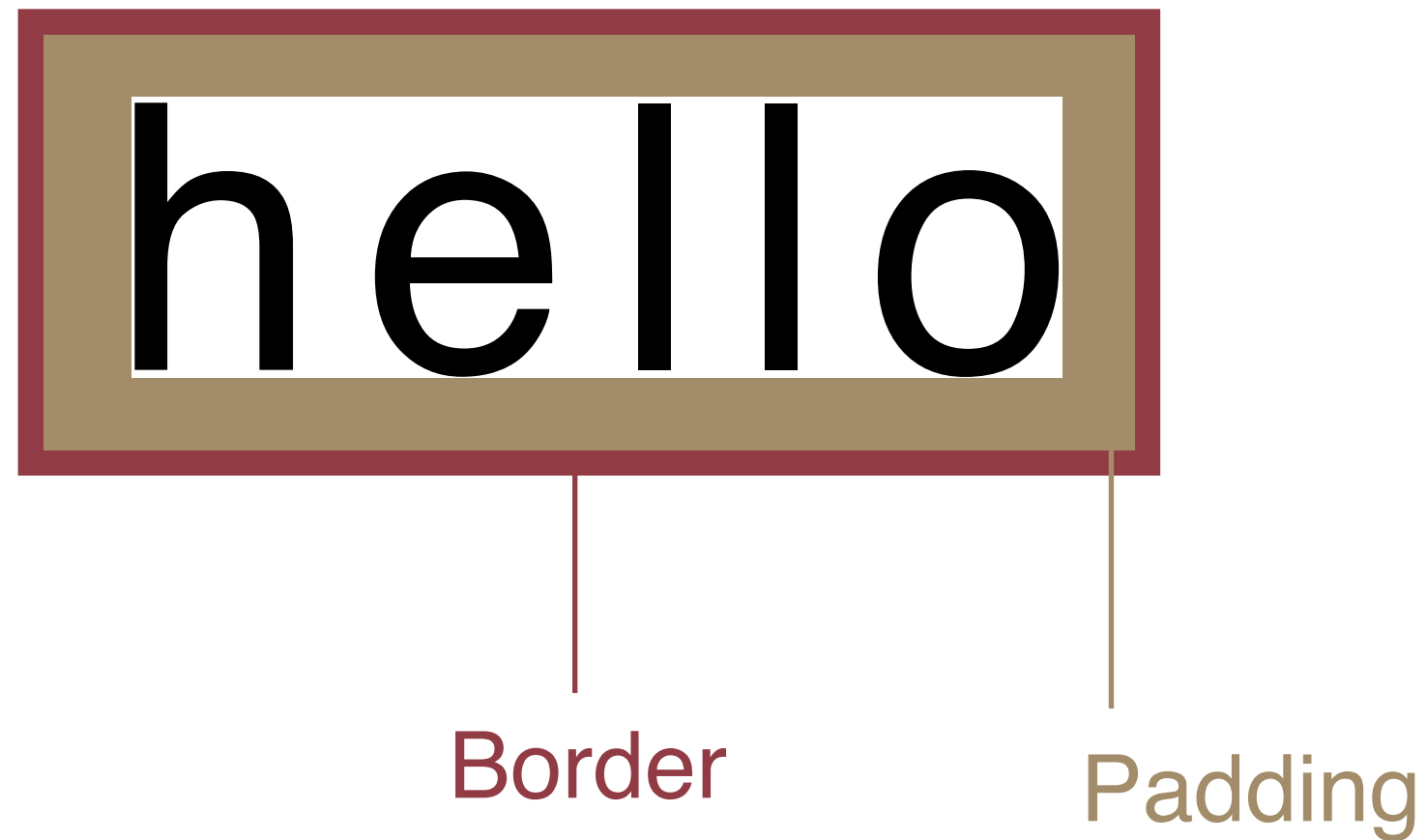
hello

Margins, Padding, Border

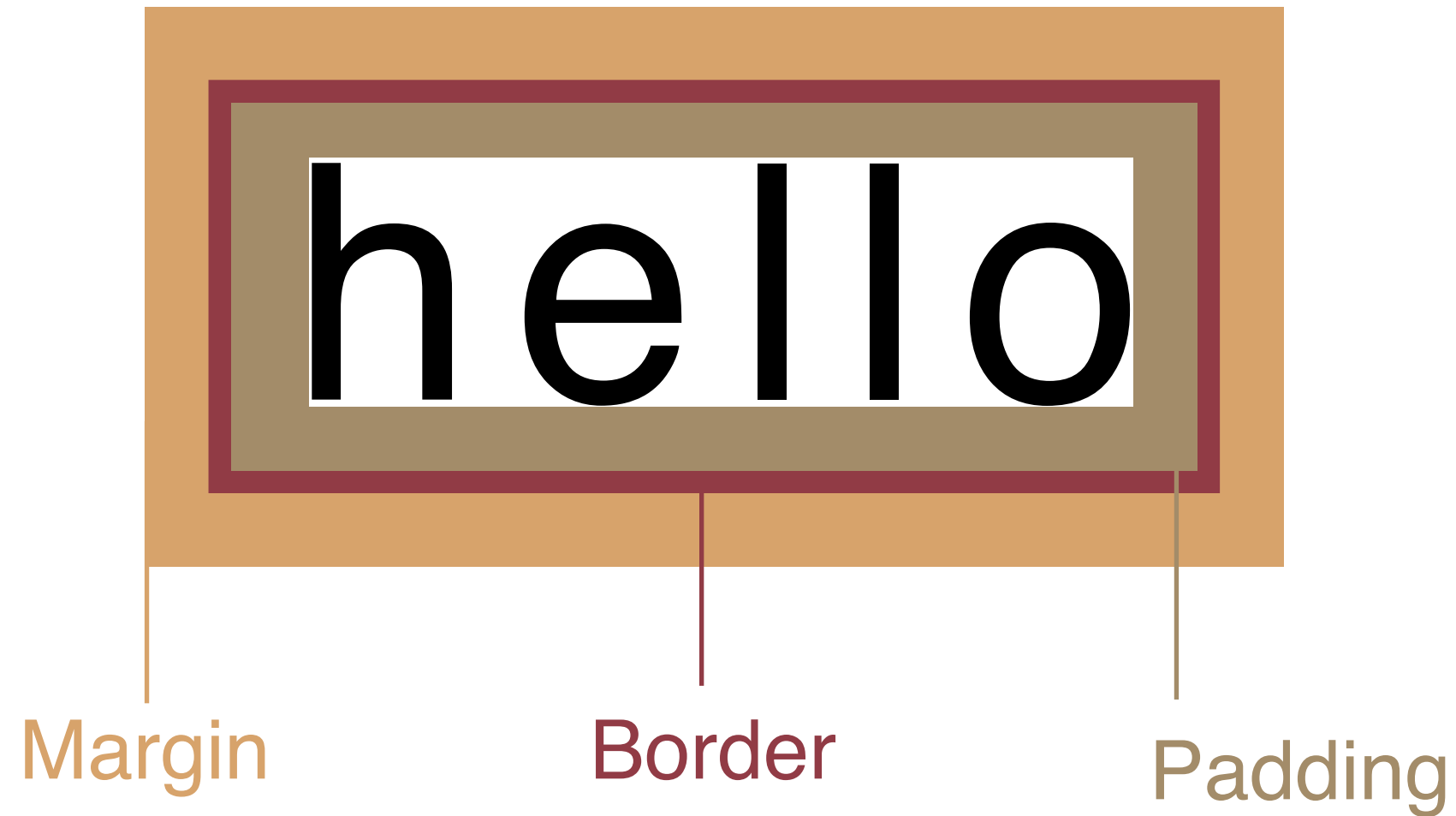
hello

Border

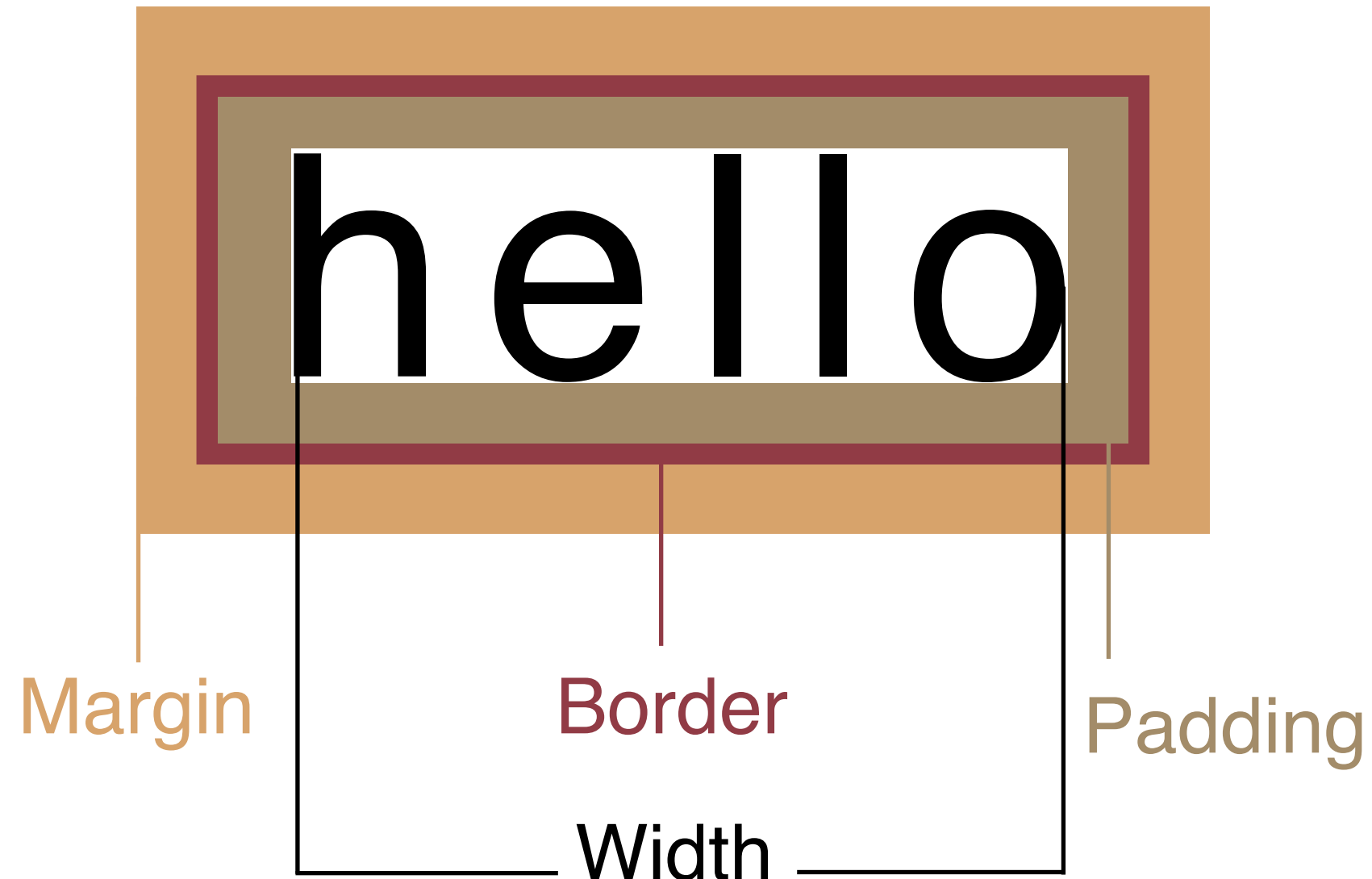
Margins, Padding, Border



Margins, Padding, Border



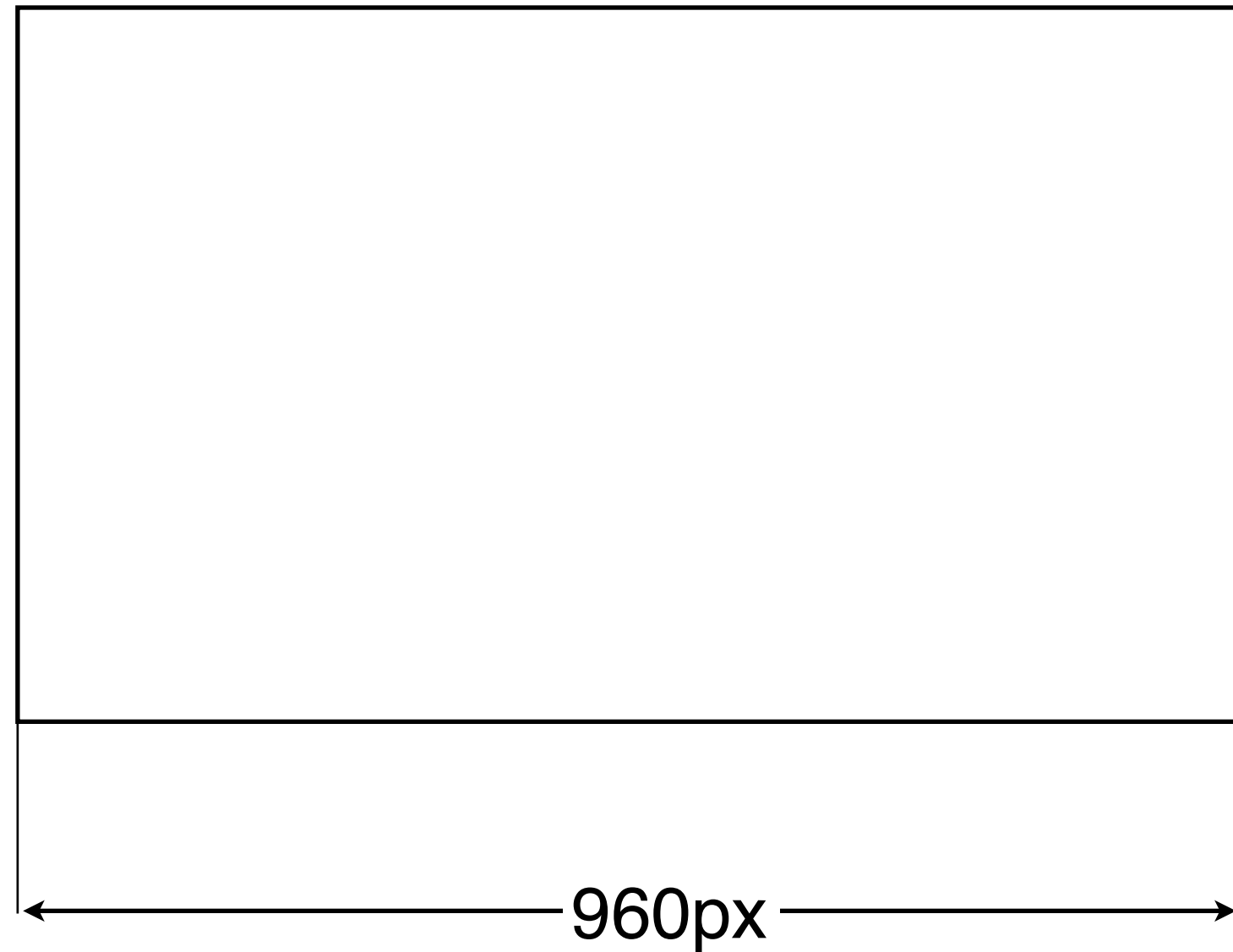
Margins, Padding, Border



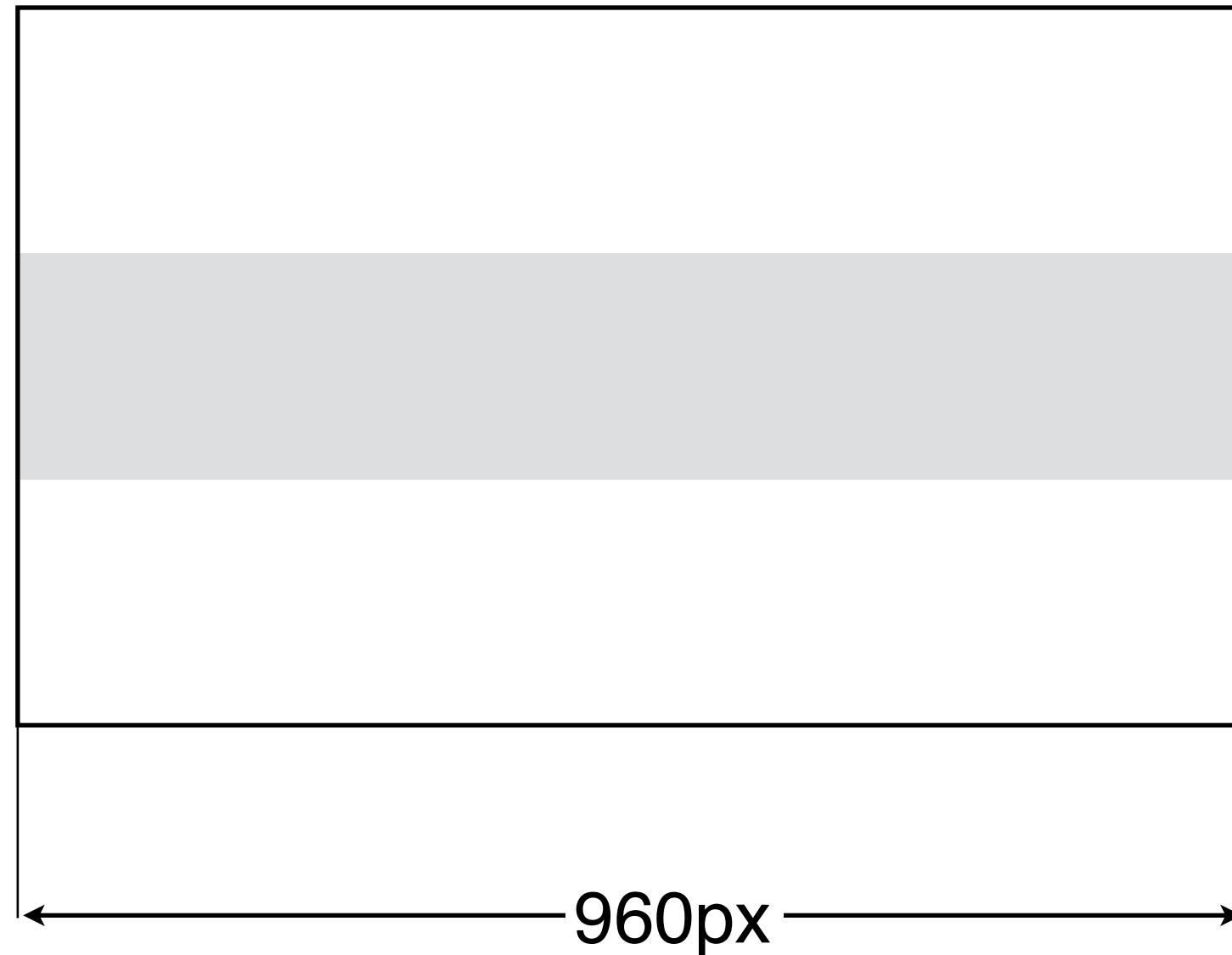
Box Model

Any padding, borders or margin are in addition to the width of the box.

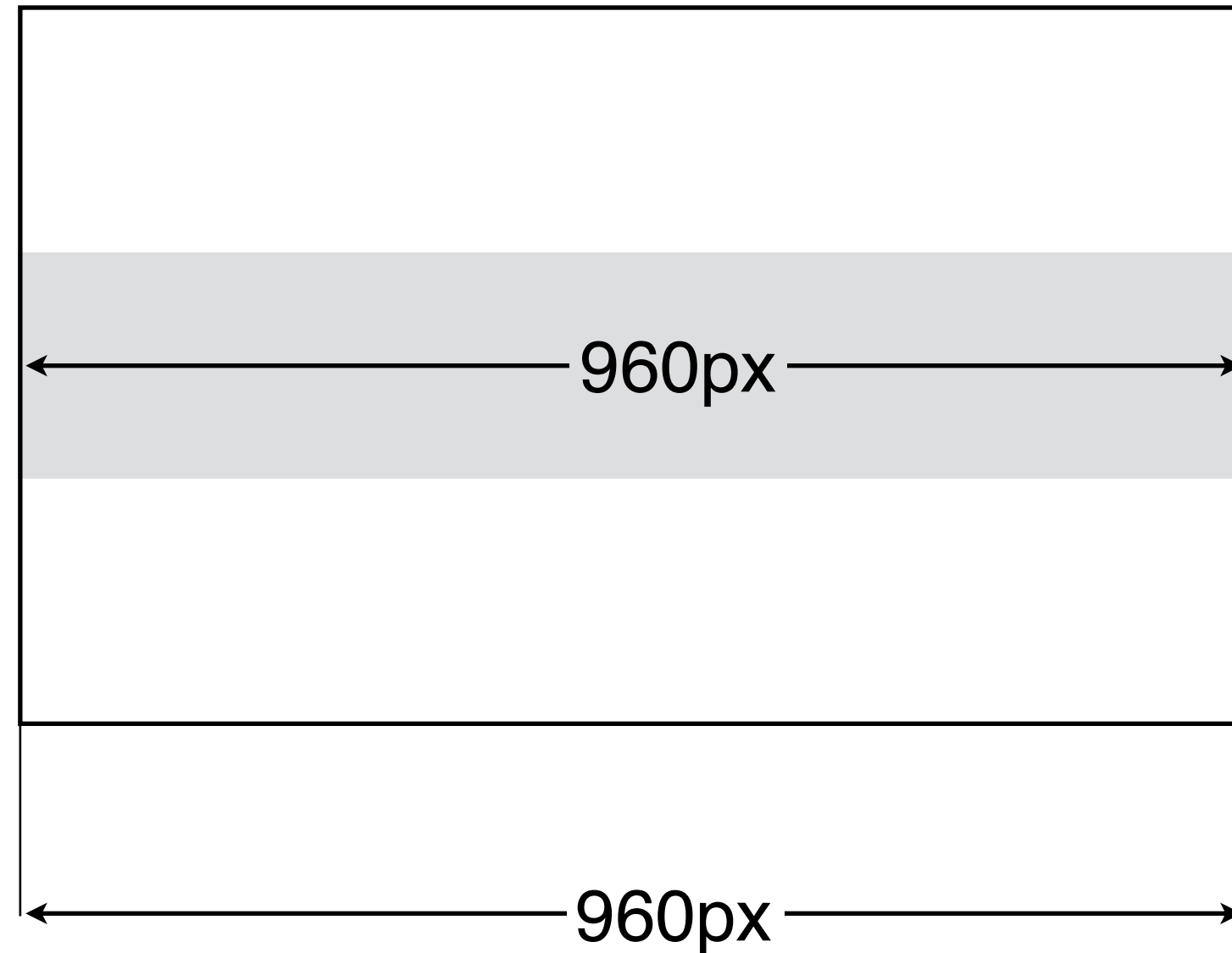
<div> box, with the width set to 960px



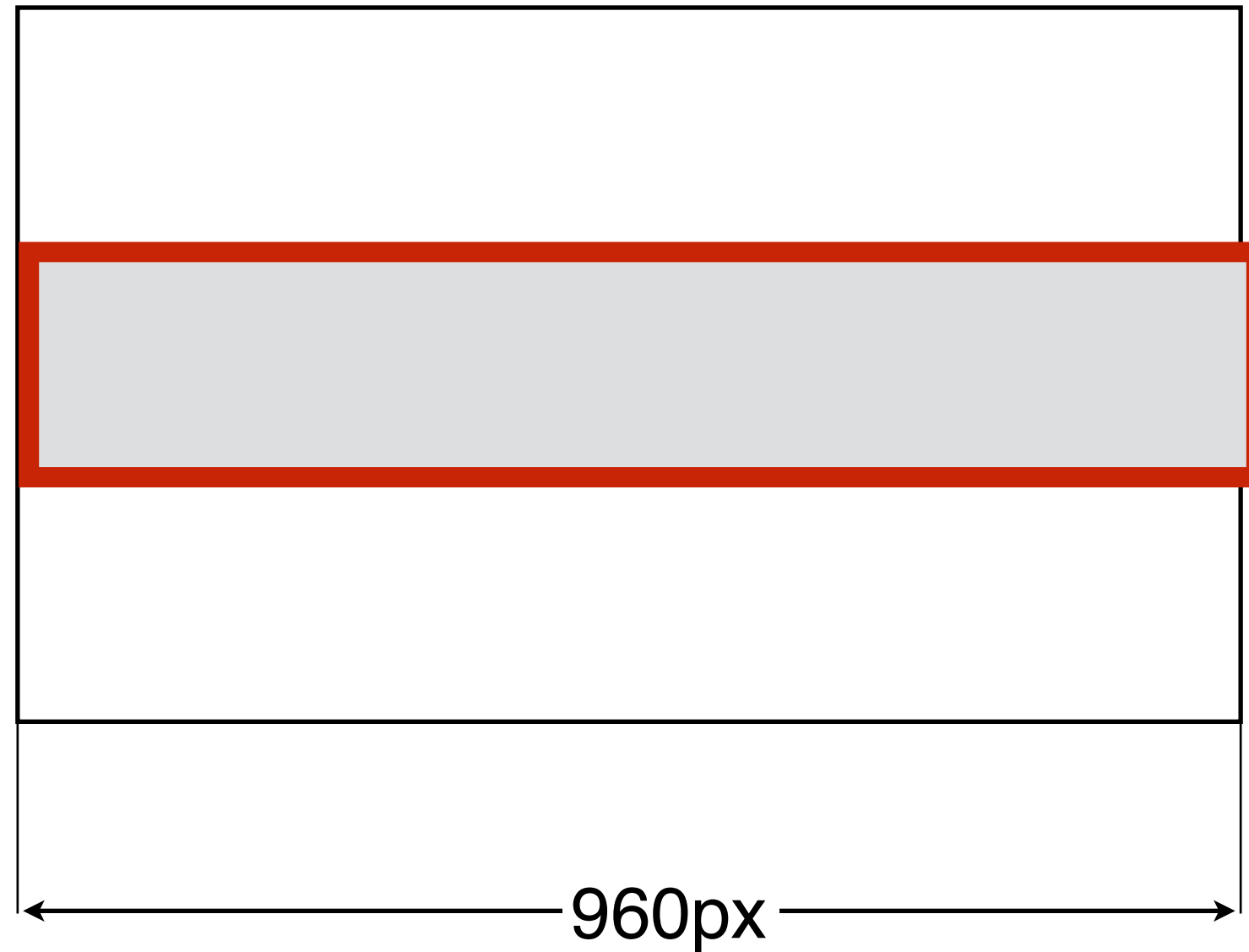
Create another `<div>` box inside,
also set it to 960px



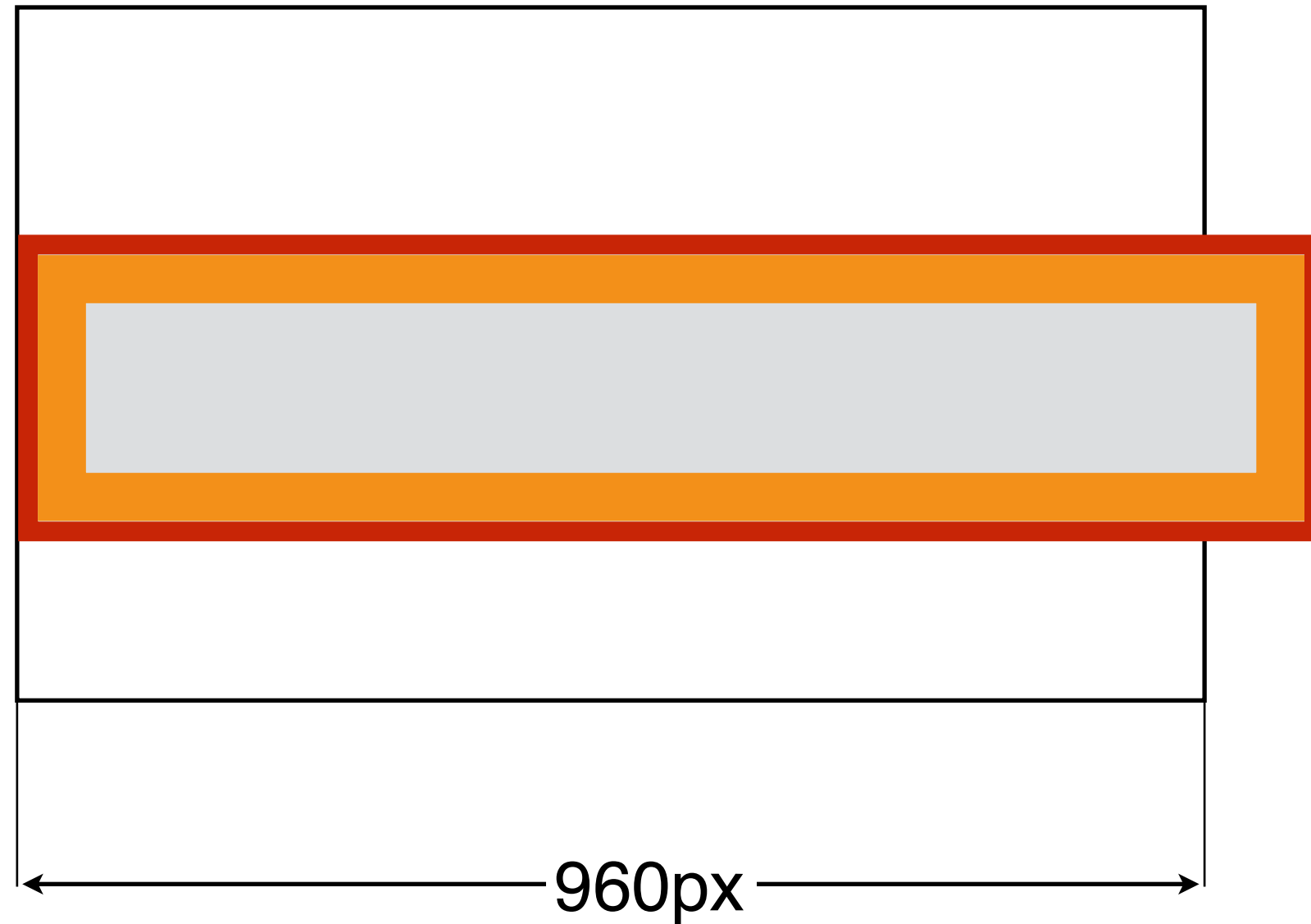
Create another `<div>` box inside,
also set it to 960px



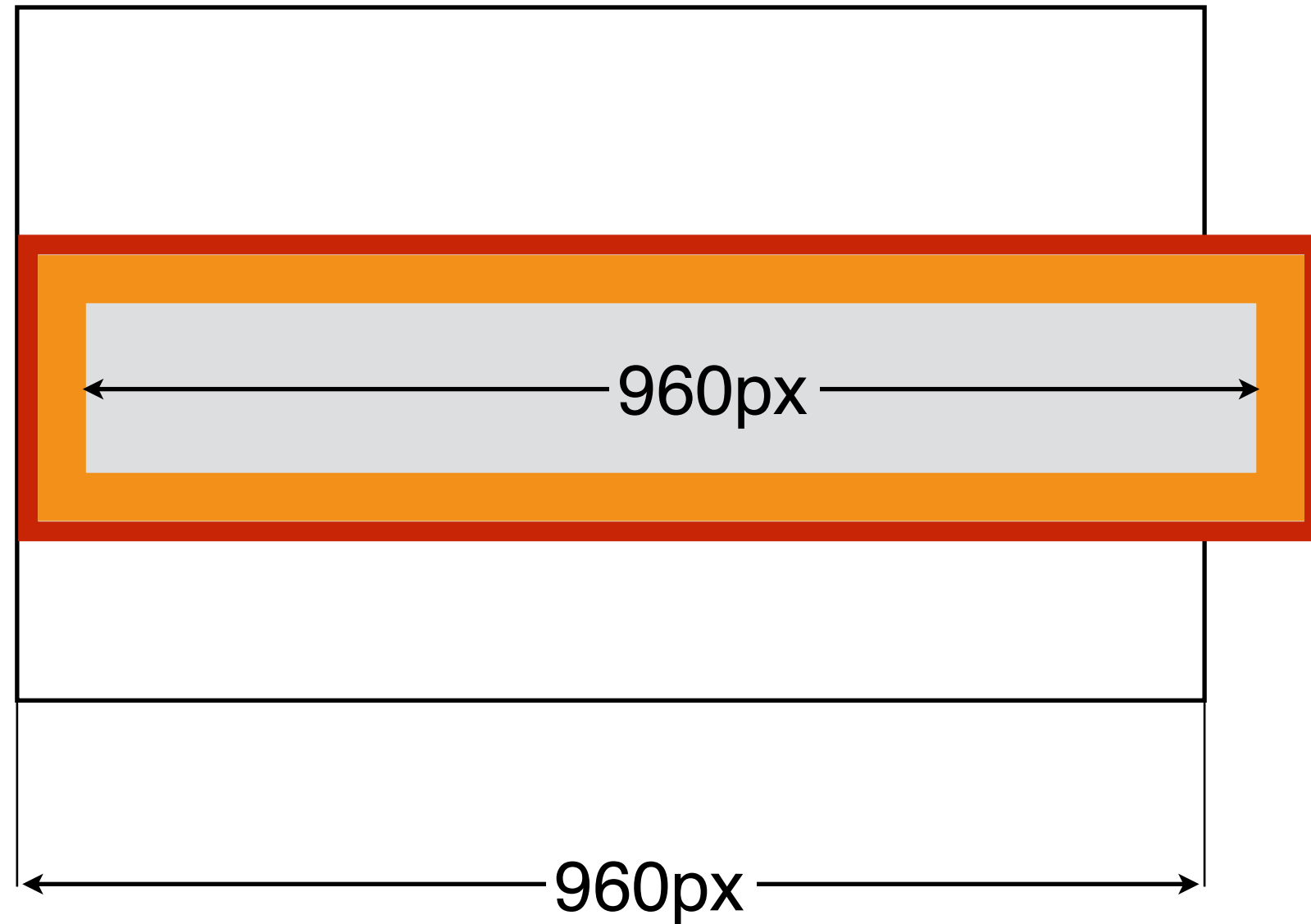
Give it a border of 5px



Give it a border of 5px



Give it a border of 5px



Margins, Padding, Width

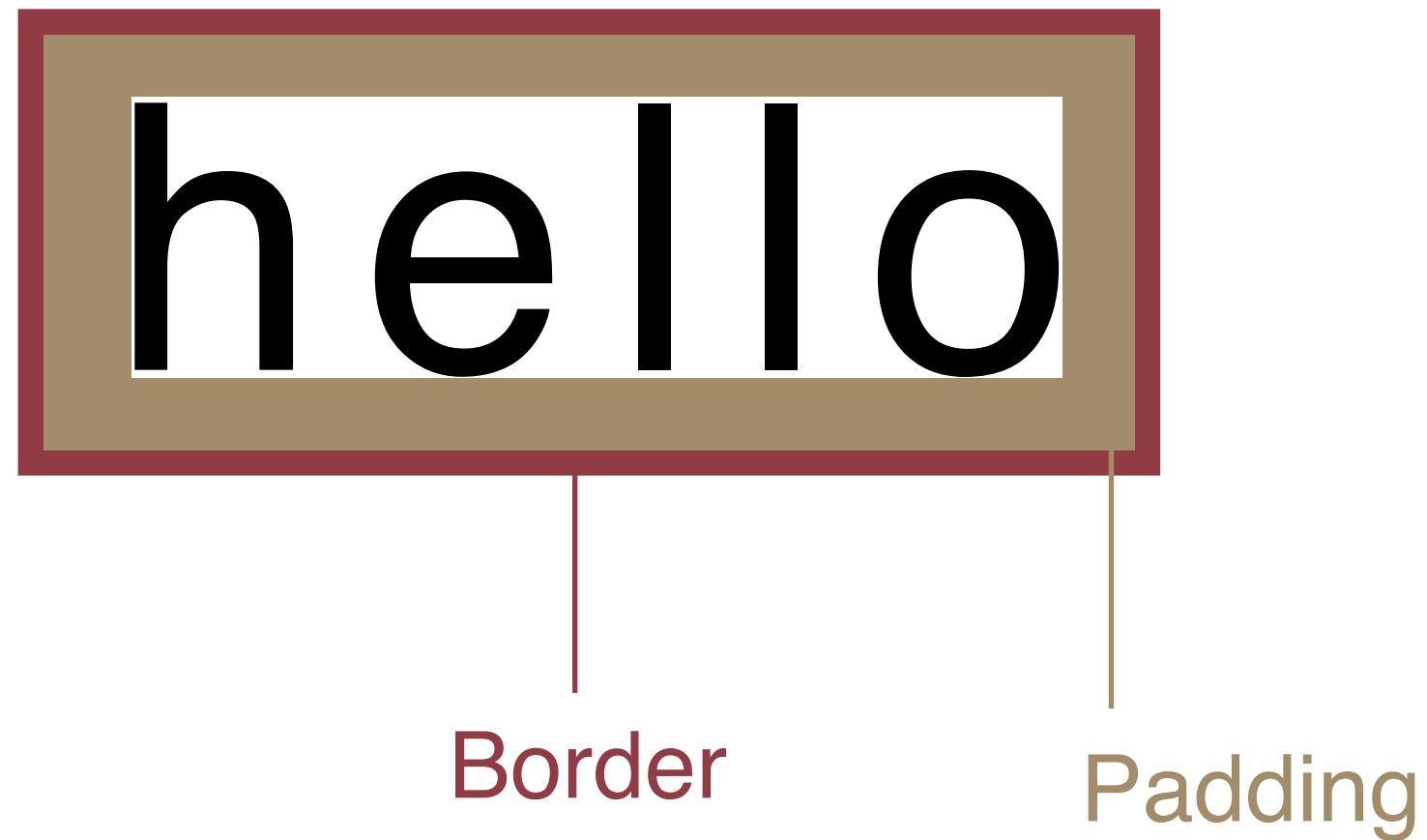
hello

Margins, Padding, Width

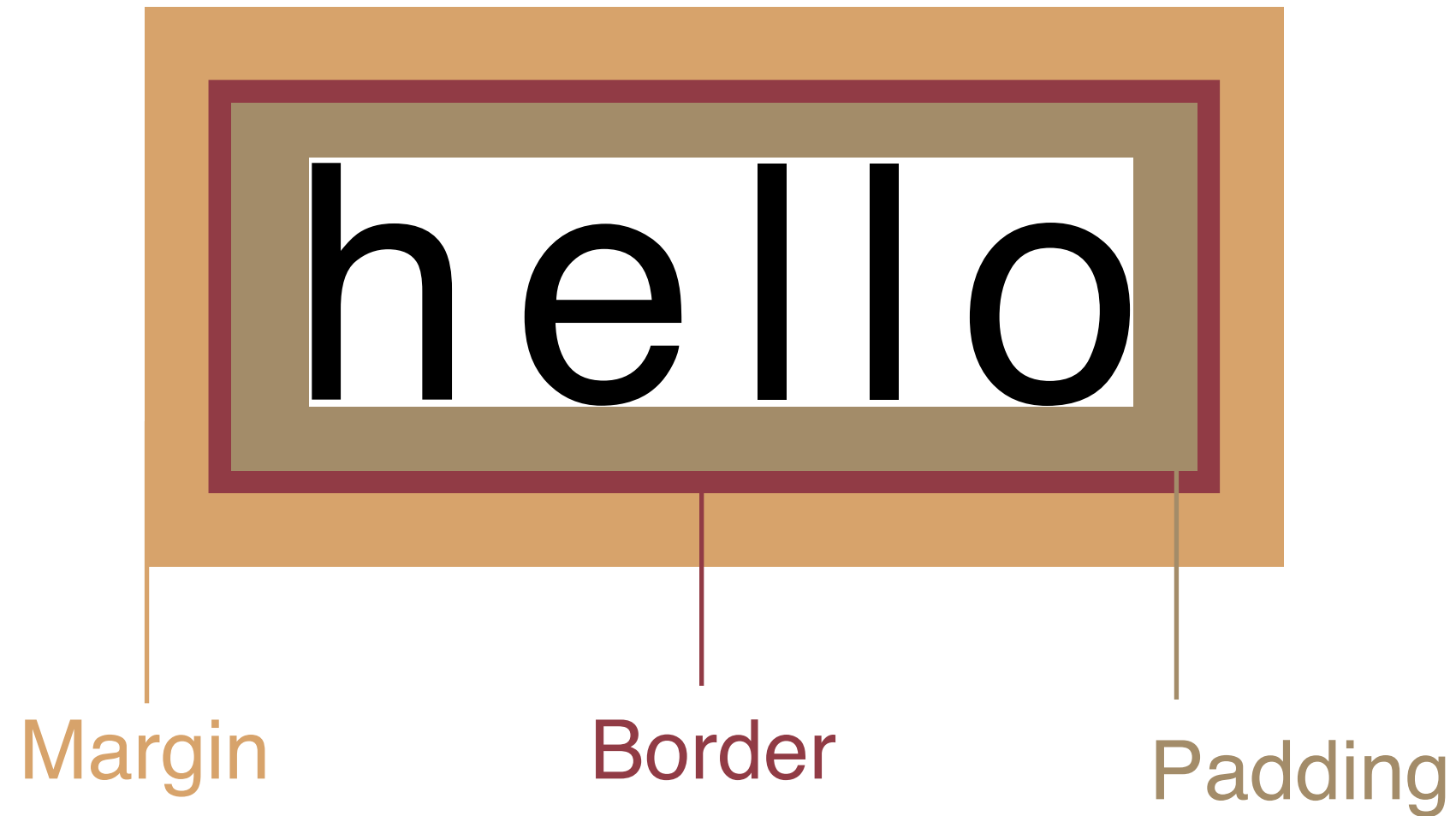
hello

Border

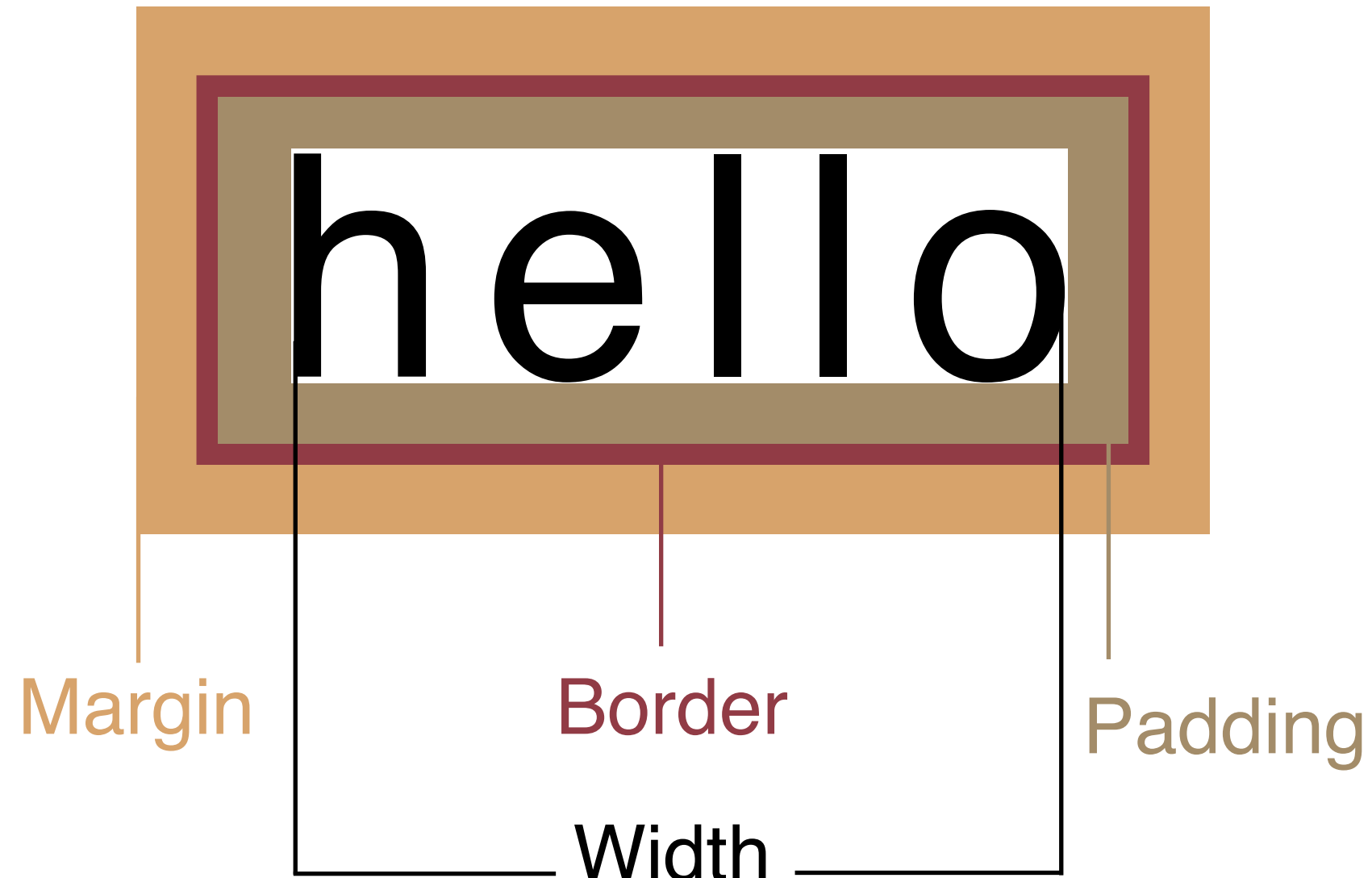
Margins, Padding, Width



Margins, Padding, Width

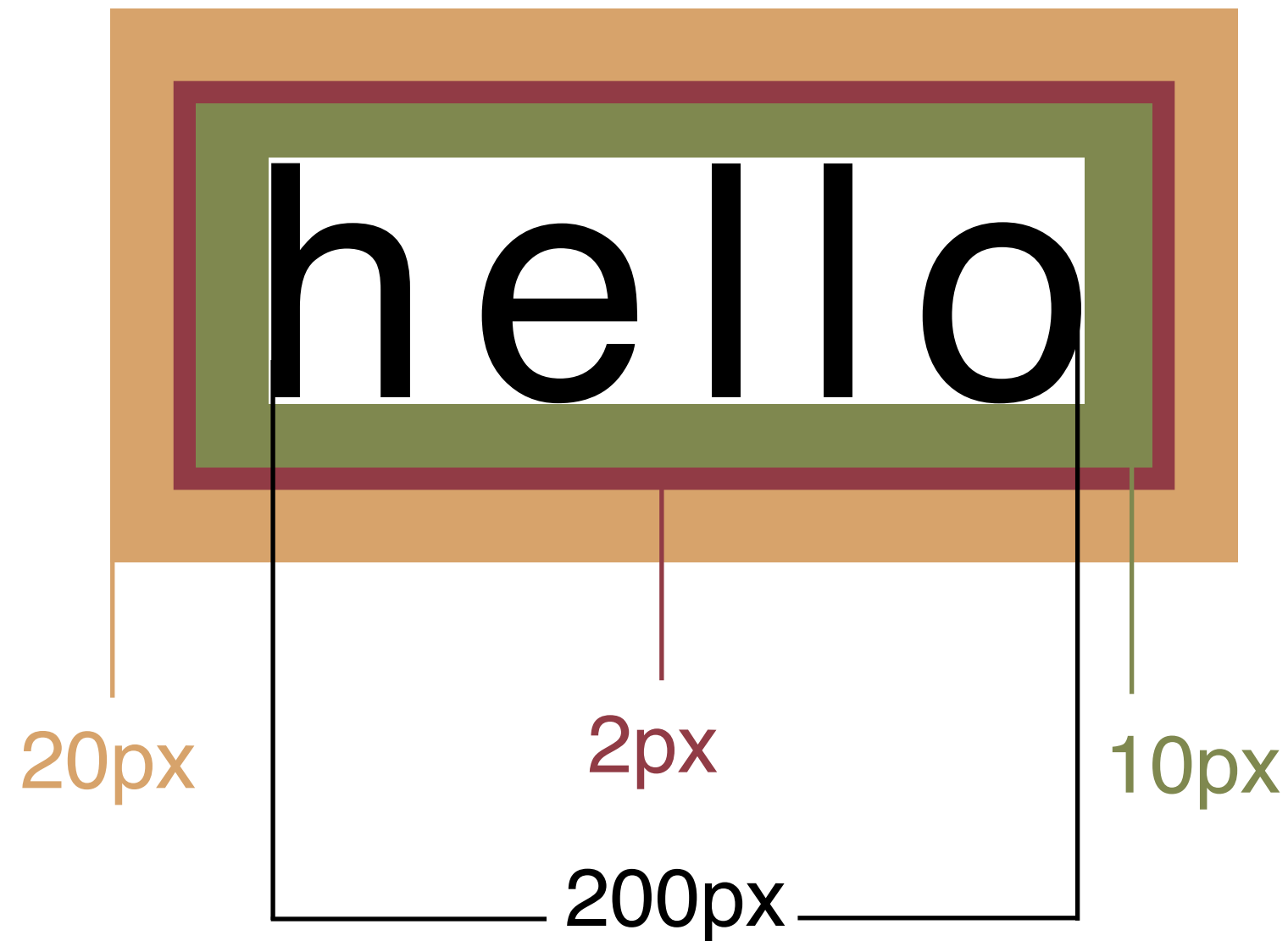


Margins, Padding, Width

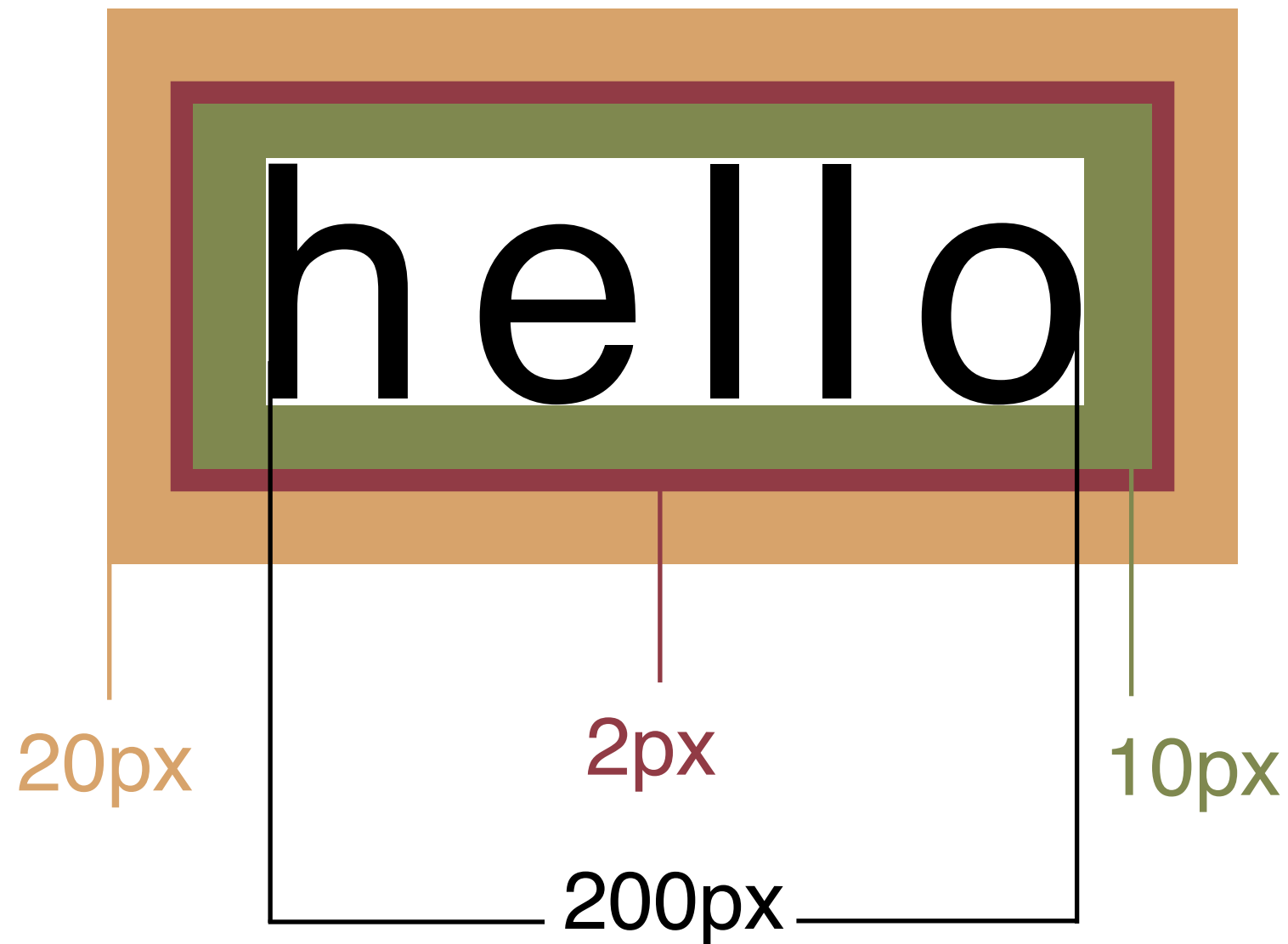


Review

What is the width of this box?

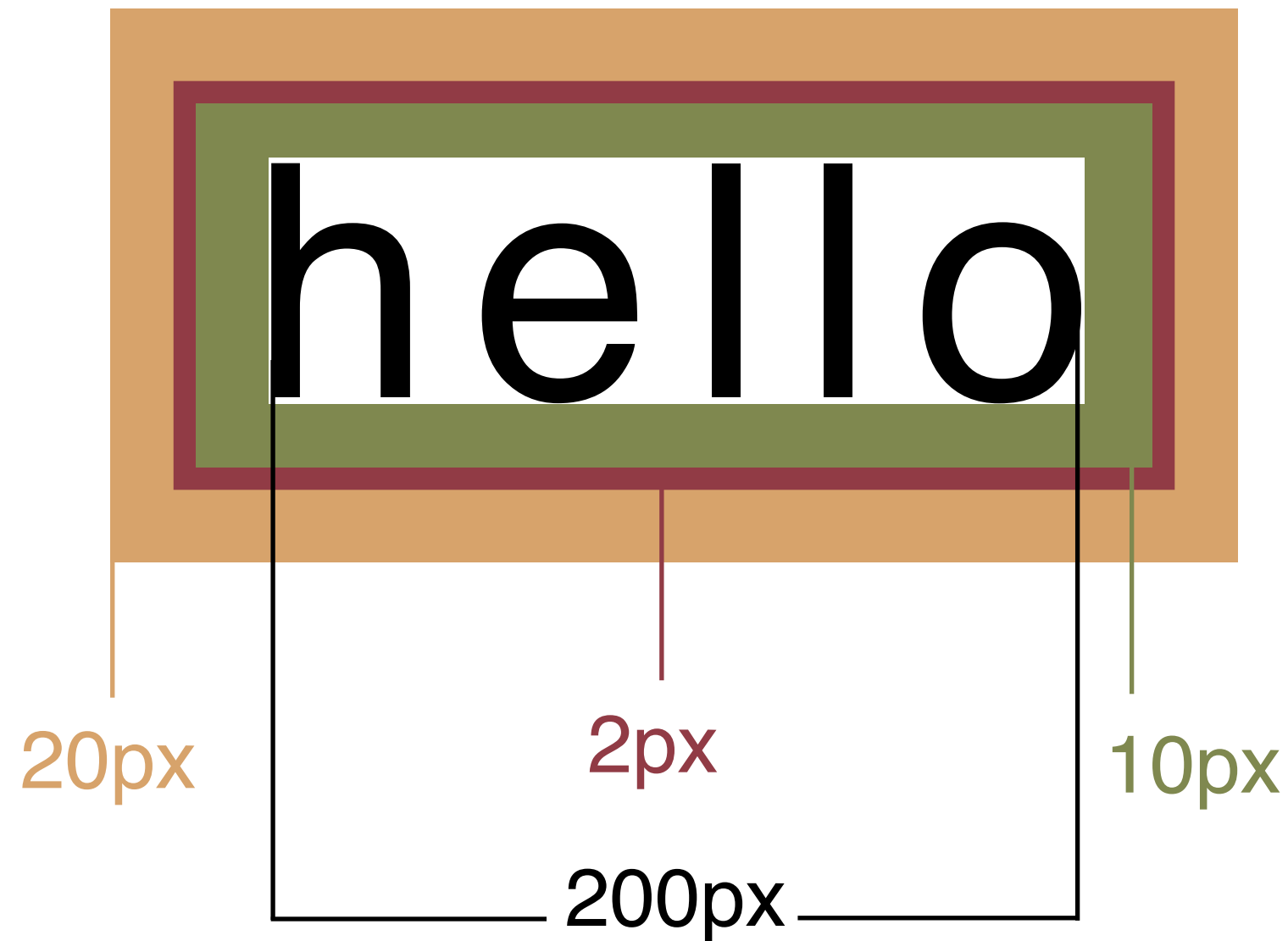


What is the width of this box?

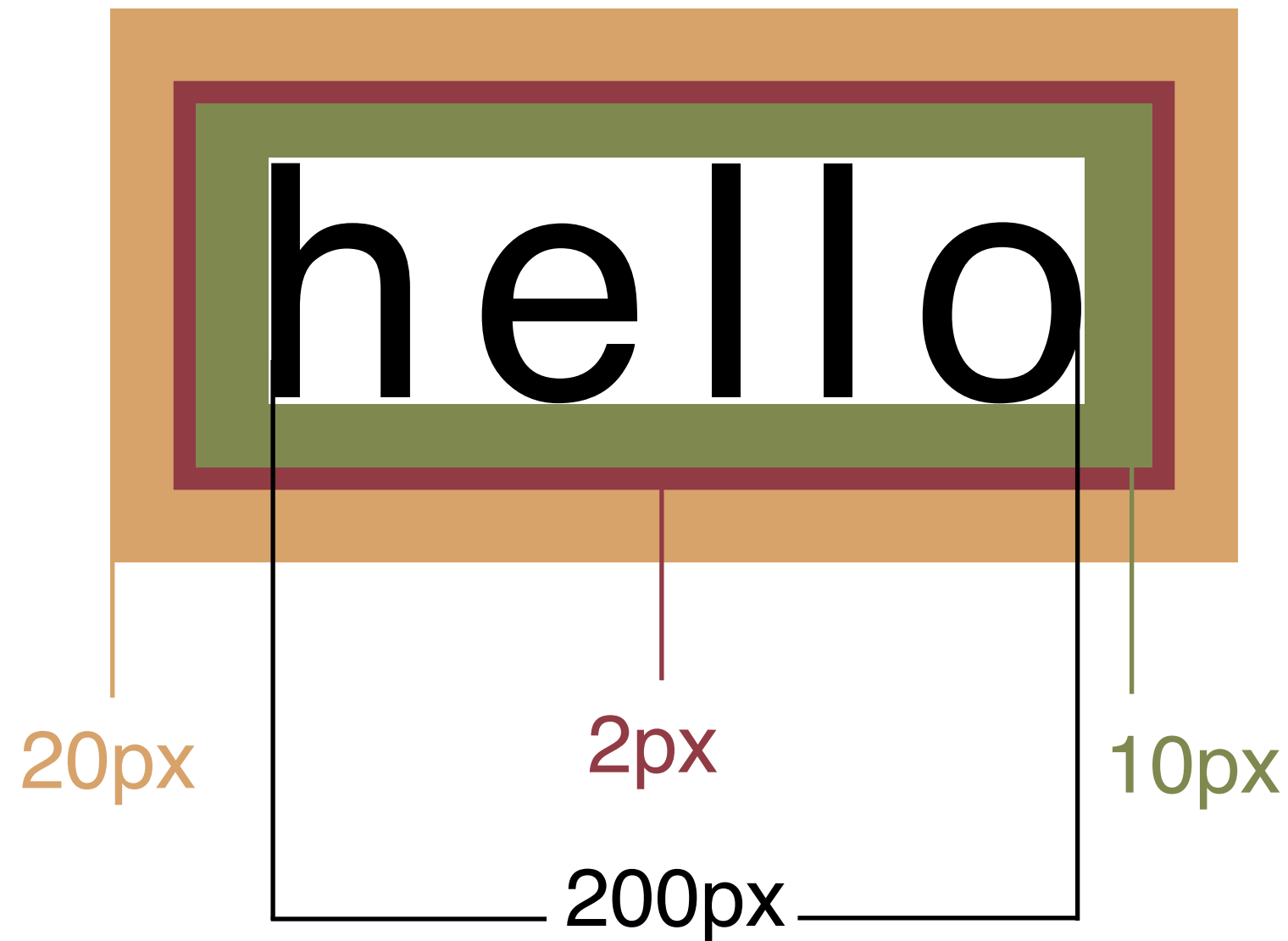


200 pixels

What is the width and padding combined?

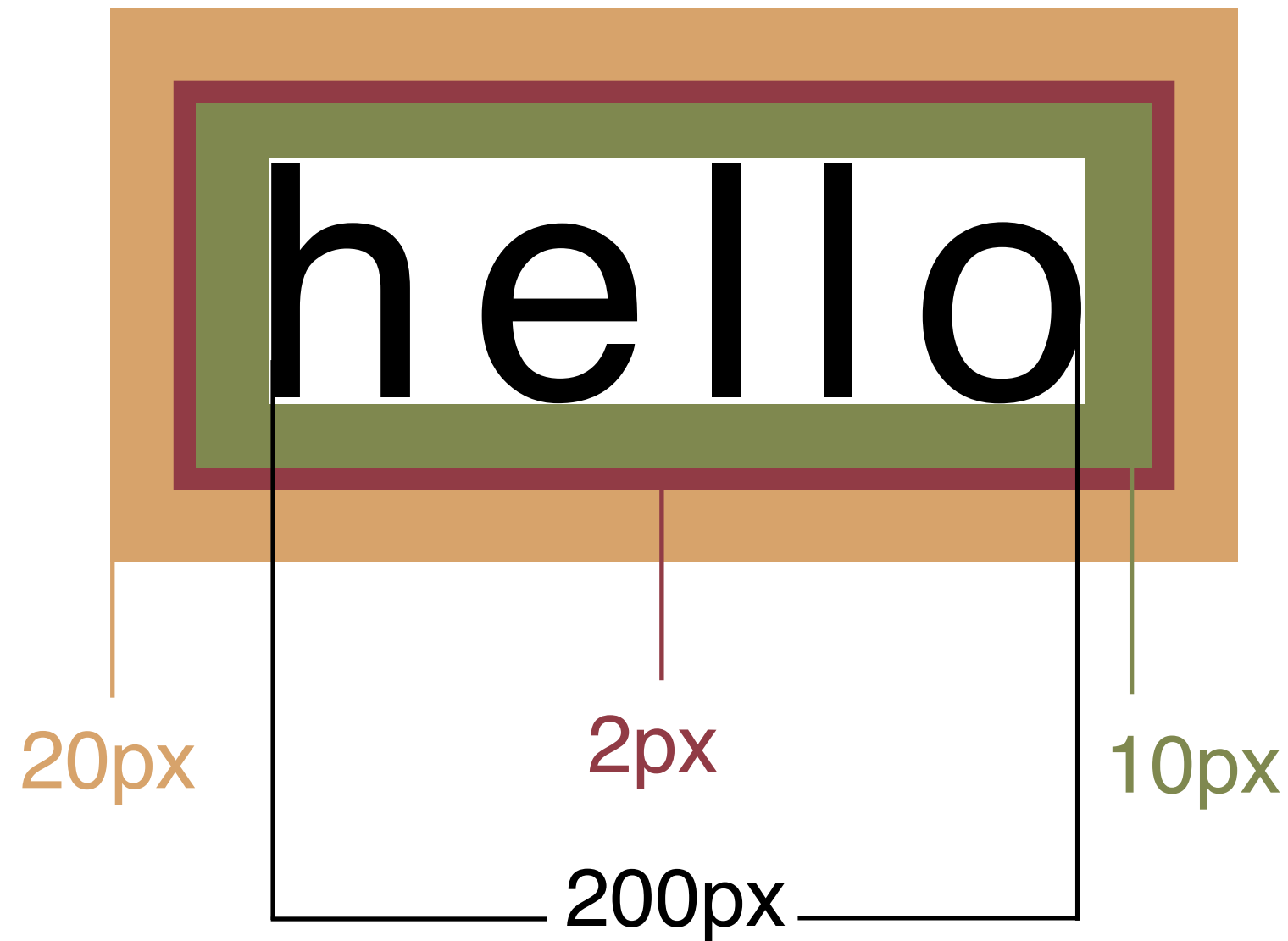


What is the width and padding combined?

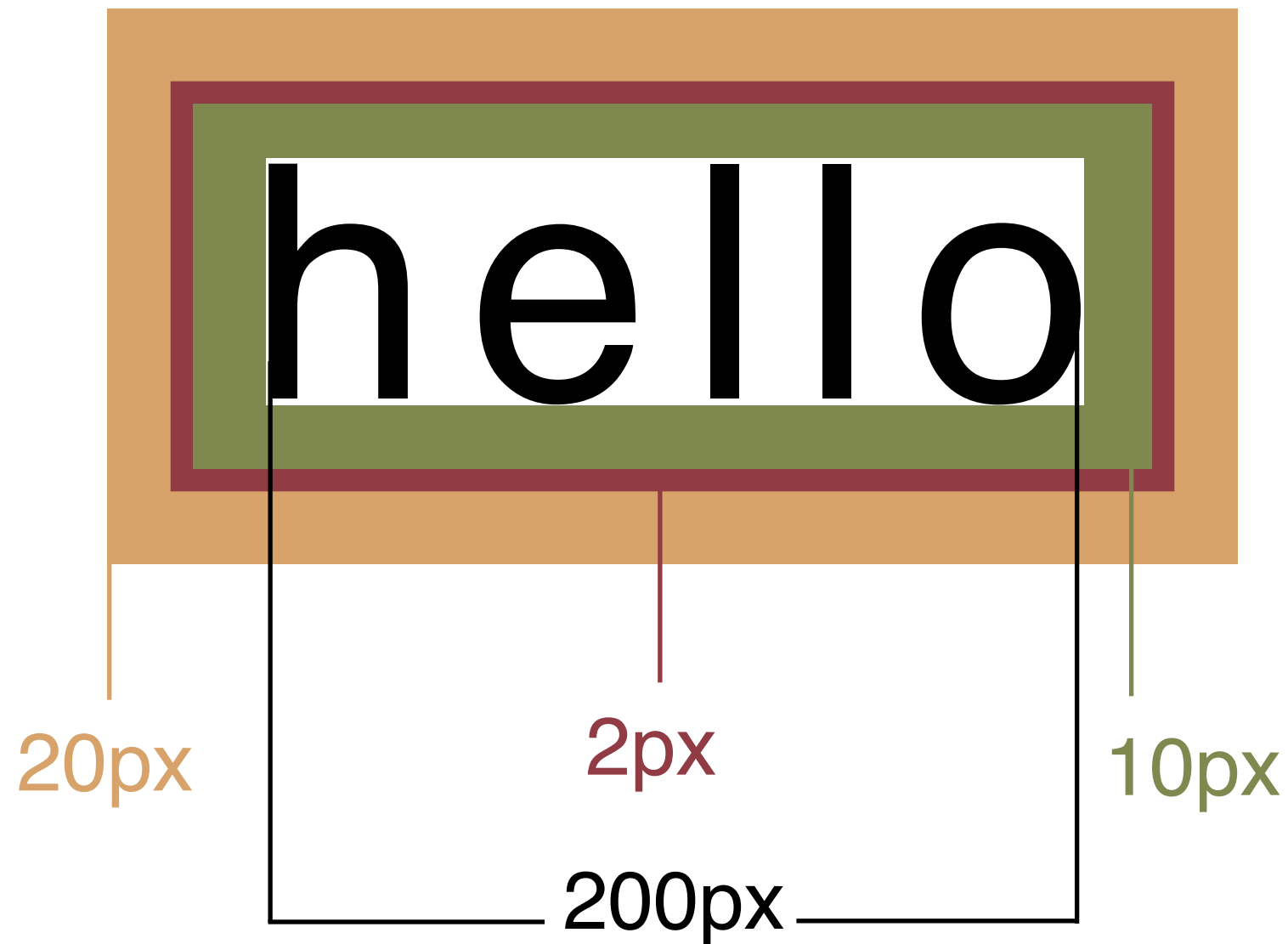


220 pixels

What is the width and padding and border combined?

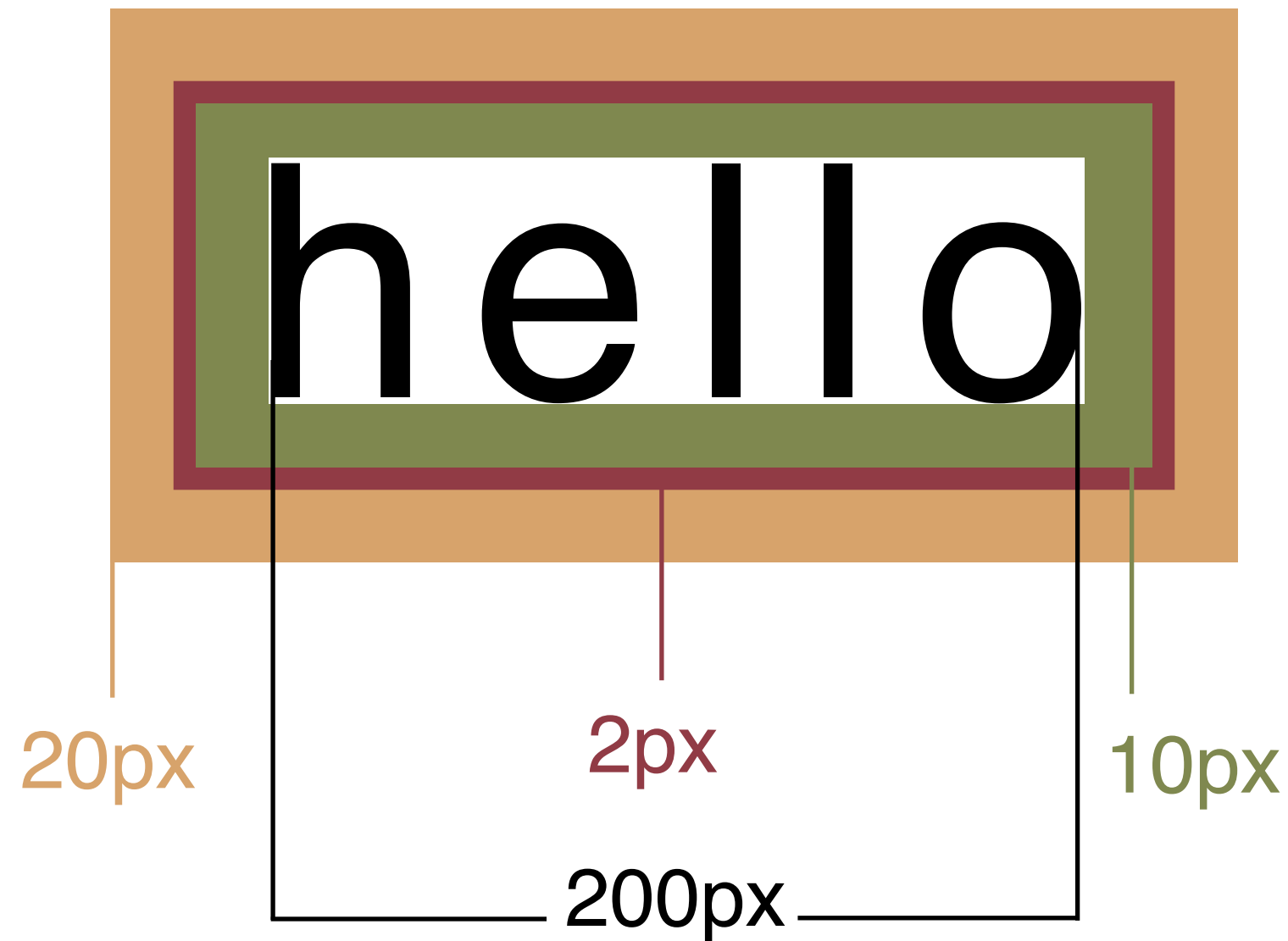


What is the width and padding and border combined?

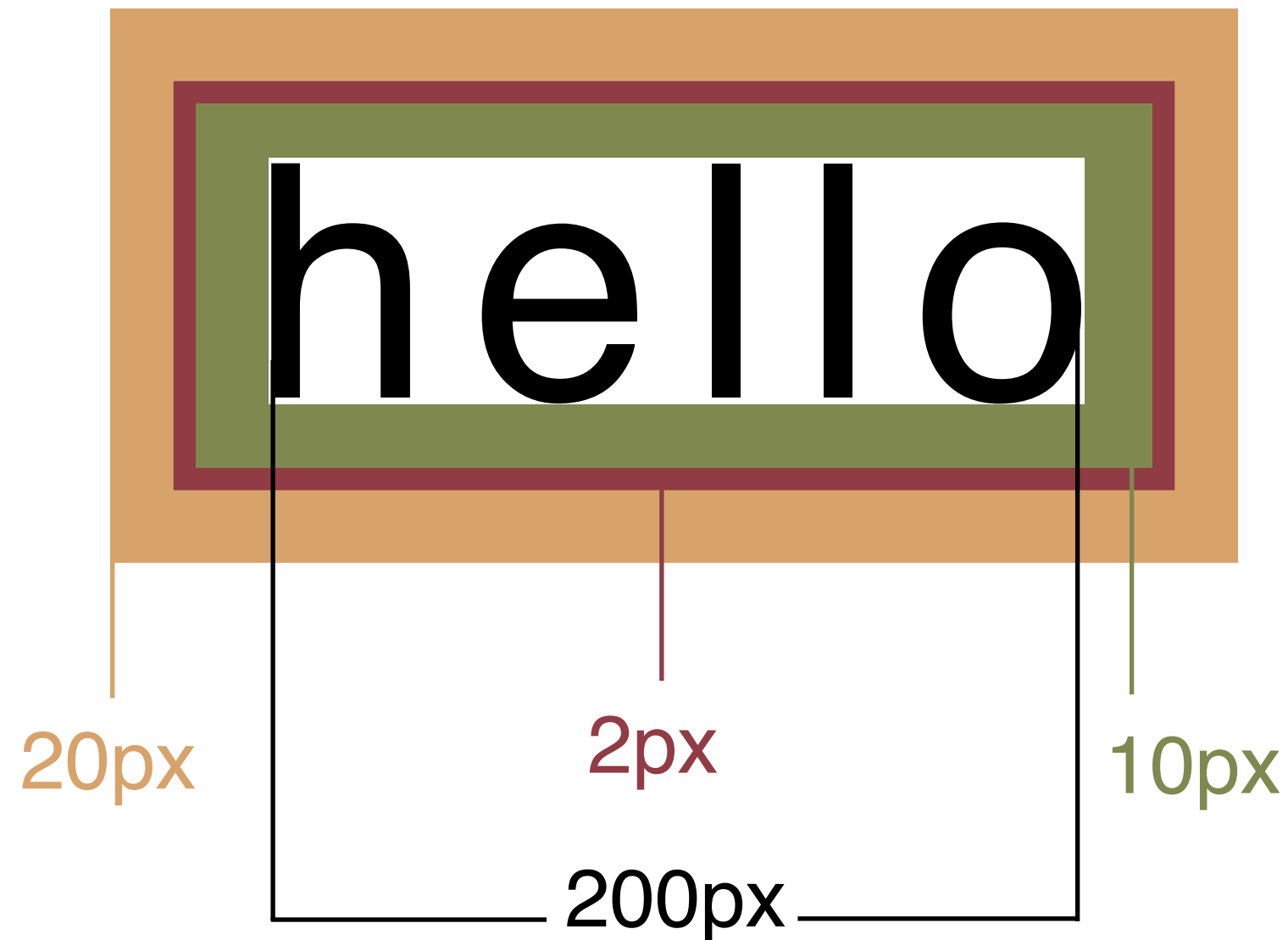


224 pixels

What is the total (outer) width?



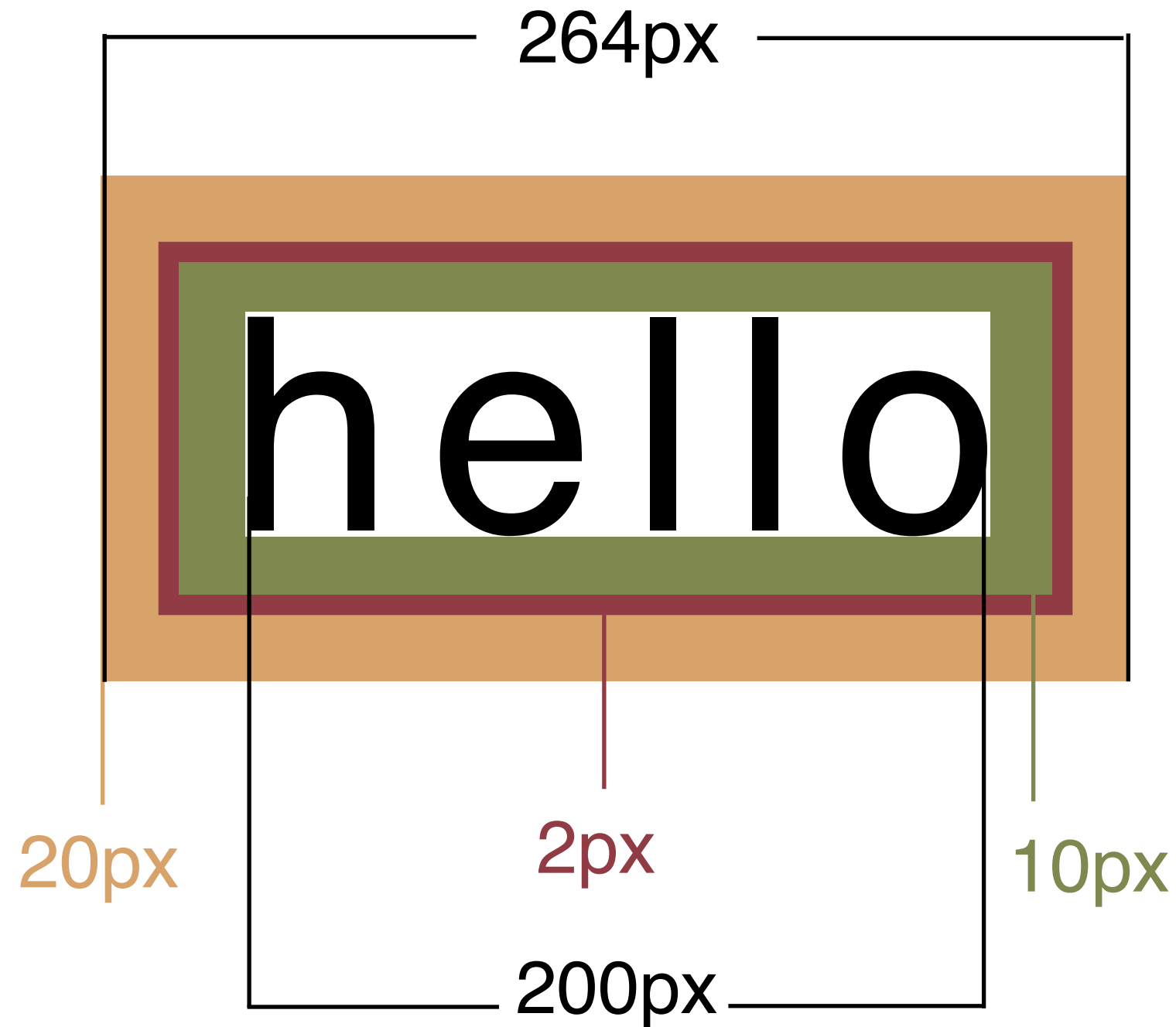
What is the total (outer) width?



$$200 + 20 + 20 + 10 + 10 + 2 + 2 =$$

264 pixels

What is the total (outer) width?



$$200 + 20 + 20 + 10 + 10 + 2 + 2 =$$

264 pixels

padding and margins

padding:



padding and margins

`padding: 10px;`



padding and margins

```
padding: 10px;
```

```
padding-top: 10px;
```

```
padding-left: 10px;
```

```
padding-bottom: 10px;
```

```
padding-right: 10px;
```



padding and margins

```
padding: 10px 5px 1px 0;
```



padding and margins

padding: 10px 5px 1px 0;



top



padding and margins

padding: 10px 5px 1px 0;



top



right



padding and margins

padding: 10px 5px 1px 0;
 ↑ ↑ ↑
 top right bottom



padding and margins

padding: 10px 5px 1px 0;
 ↑ ↑ ↑ ↑
 top right bottom left



padding and margins

```
margin: 5px 15px 1px 10px;
```

padding and margins

```
margin: 5px 15px 1px 10px;
```



top

padding and margins

margin: 5px 15px 1px 10px;



top



right

padding and margins

margin: 5px 15px 1px 10px;

↑ ↑ ↑

top right bottom

padding and margins

margin: 5px 15px 1px 10px;

↑ ↑ ↑ ↑

top right bottom left

padding and margins

`padding: 10px 2px;`



padding and margins

padding: 10px 2px;



top

bottom



padding and margins

padding: 10px 2px;



top

bottom



right

left



Pop Quiz

Explain the size of the margins around the box

```
margin: 5px 25px 6px 20px;
```

Explain the size of the margins around the box

```
margin: 5px 25px 6px 20px;
```

Top is 5px, right is 25px,
bottom is 6px, left is 20px;

Explain the size of the
padding inside this box

```
padding: 1px 1px 1px 40px;
```

Explain the size of the padding inside this box

```
padding: 1px 1px 1px 40px;
```

Top, right, bottom are 1 pixel,
the left side is 40 pixels

Explain the size of the margins around the box

```
margin: 0px 5px;
```

Explain the size of the margins around the box

```
margin: 0px 5px;
```

Top and bottom are 0 pixels,
the left and right side is 5 pixels

Explain the size of the padding inside the box

```
padding: 15px;
```

Explain the size of the padding inside the box

```
padding: 15px;
```

All sides are 15 pixels

Applying multiple classes to
an HTML element

Applying multiple classes to an HTML tag

```
<div class="container blog"></div>
```

Applying multiple classes to an HTML tag

```
<div class="container blog"></div>
```

Applying multiple classes to an HTML tag

```
<div class="container blog"></div>
```

Applying multiple classes to an HTML tag

```
.container {  
    width: 250px;  
}
```

```
.blog{  
    border:1px solid black;  
}
```

```
<div class="container blog"></div>
```

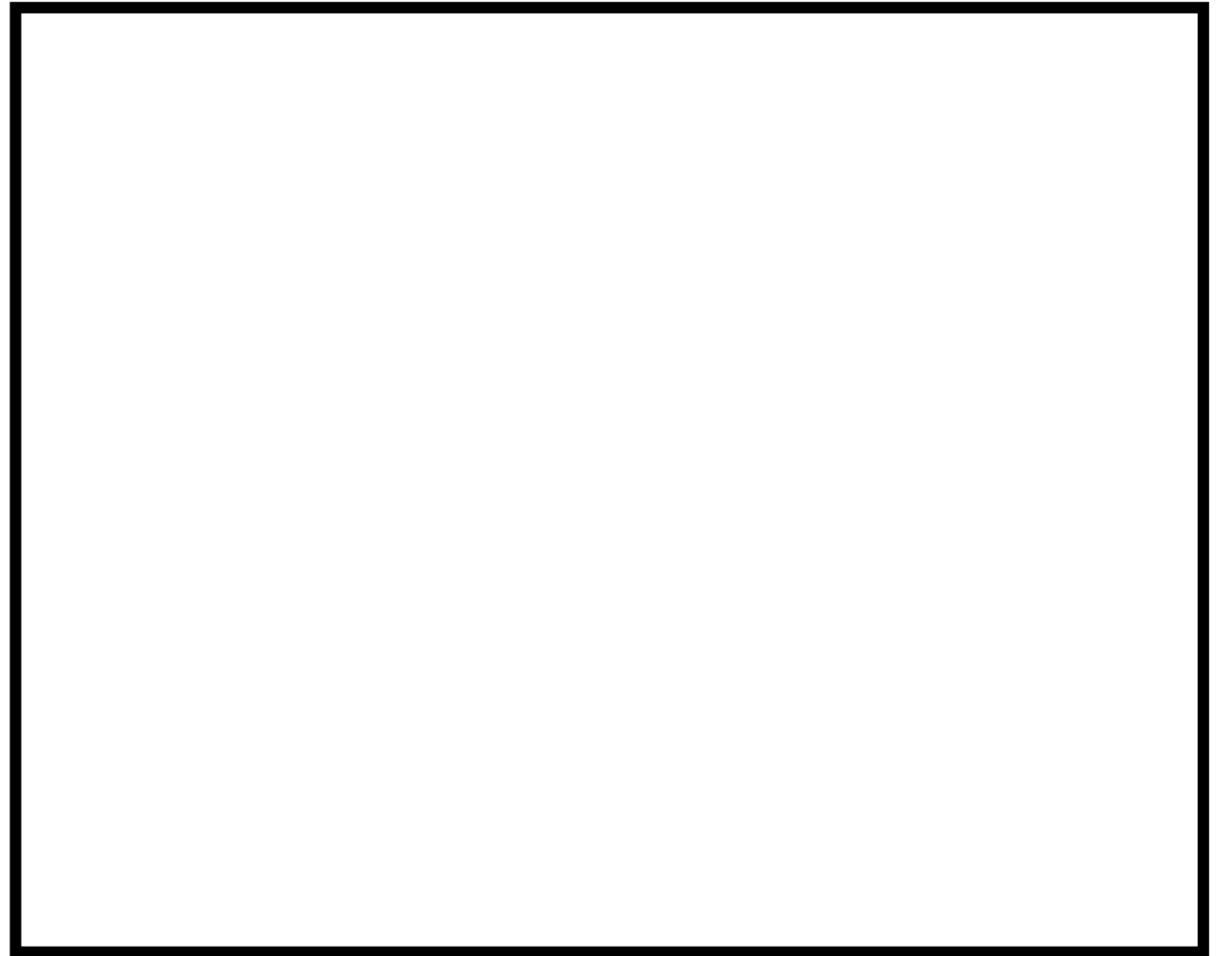
Background Images

HTML:

```
<div></div>
```

CSS:

```
div {  
  border: 1px solid black;  
  width: 300px;  
  height: 200px;  
}
```



HTML:

```
<div></div>
```

CSS:

```
div {  
  border: 1px solid black;  
  width: 300px;  
  height: 200px;  
  background-color: orange;  
}
```



HTML:

```
<div></div>
```

CSS:

```
div {  
  border: 1px solid black;  
  width: 300px;  
  height: 200px;  
  background-color: orange;  
  background-image: url(photo.jpg);  
}
```



HTML:

```
<div></div>
```

CSS:

```
div {  
  border: 1px solid black;  
  width: 300px;  
  height: 200px;  
  background-color: orange;  
  background-image: url(photo.jpg);  
  background-repeat: no-repeat;  
}
```



HTML:

```
<div></div>
```

CSS:

```
div {  
  border: 1px solid black;  
  width: 300px;  
  height: 200px;  
  background-color: orange;  
  background-image: url(photo.jpg);  
  background-repeat: no-repeat;  
  background-size: contain;  
}
```



HTML:

```
<div></div>
```

CSS:

```
div {  
  border: 1px solid black;  
  width: 300px;  
  height: 200px;  
  background-color: orange;  
  background-image: url(photo.jpg);  
  background-repeat: no-repeat;  
  background-size: cover;  
}
```



HTML:

```
<div></div>
```

CSS:

```
div {  
  border: 1px solid black;  
  width: 300px;  
  height: 200px;  
  background-color: orange;  
  background-image: url(photo.jpg);  
  background-repeat: no-repeat;  
  background-size: cover;  
  background-position: center;  
}
```



HTML:

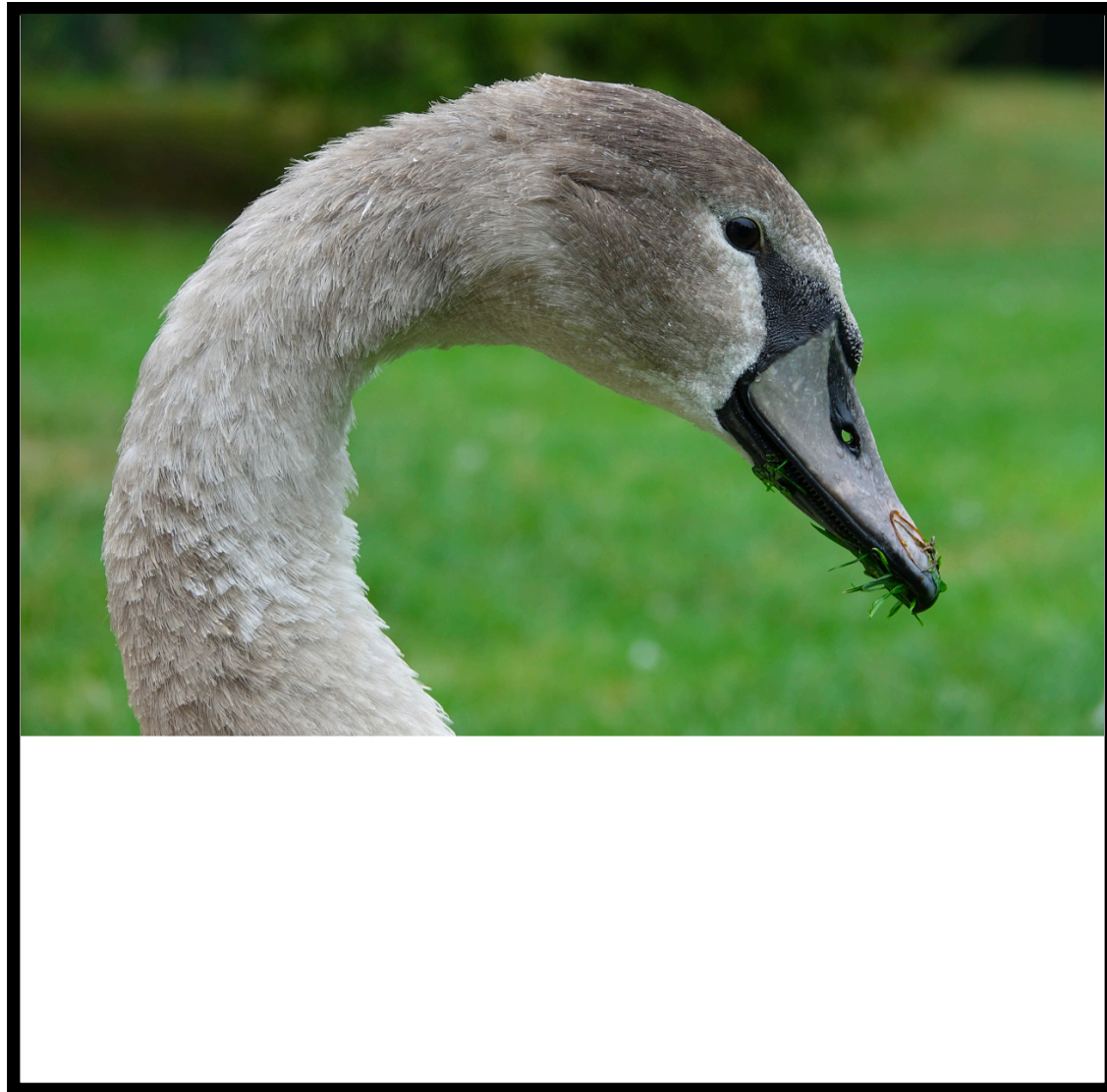
```
<div></div>
```

CSS:

```
div {  
  border: 1px solid black;  
  width: 300px;  
  height: 200px;  
  background-color: orange;  
  background-image: url(photo.jpg);  
  background-repeat: no-repeat;  
  background-size: cover;  
  background-position: center;  
}
```



background-size: contain;



Fit the image in the box. Never cut any portion of the image off, even if it means leaving empty space.

background-size: cover;



Fill the image in the box, even if a piece gets cut off. Leave no empty space.

**background-size: cover;
background-position: left;**



**background-size: cover;
background-position: center;**

