

HTML / CSS

Website layers

Behavior (JS)

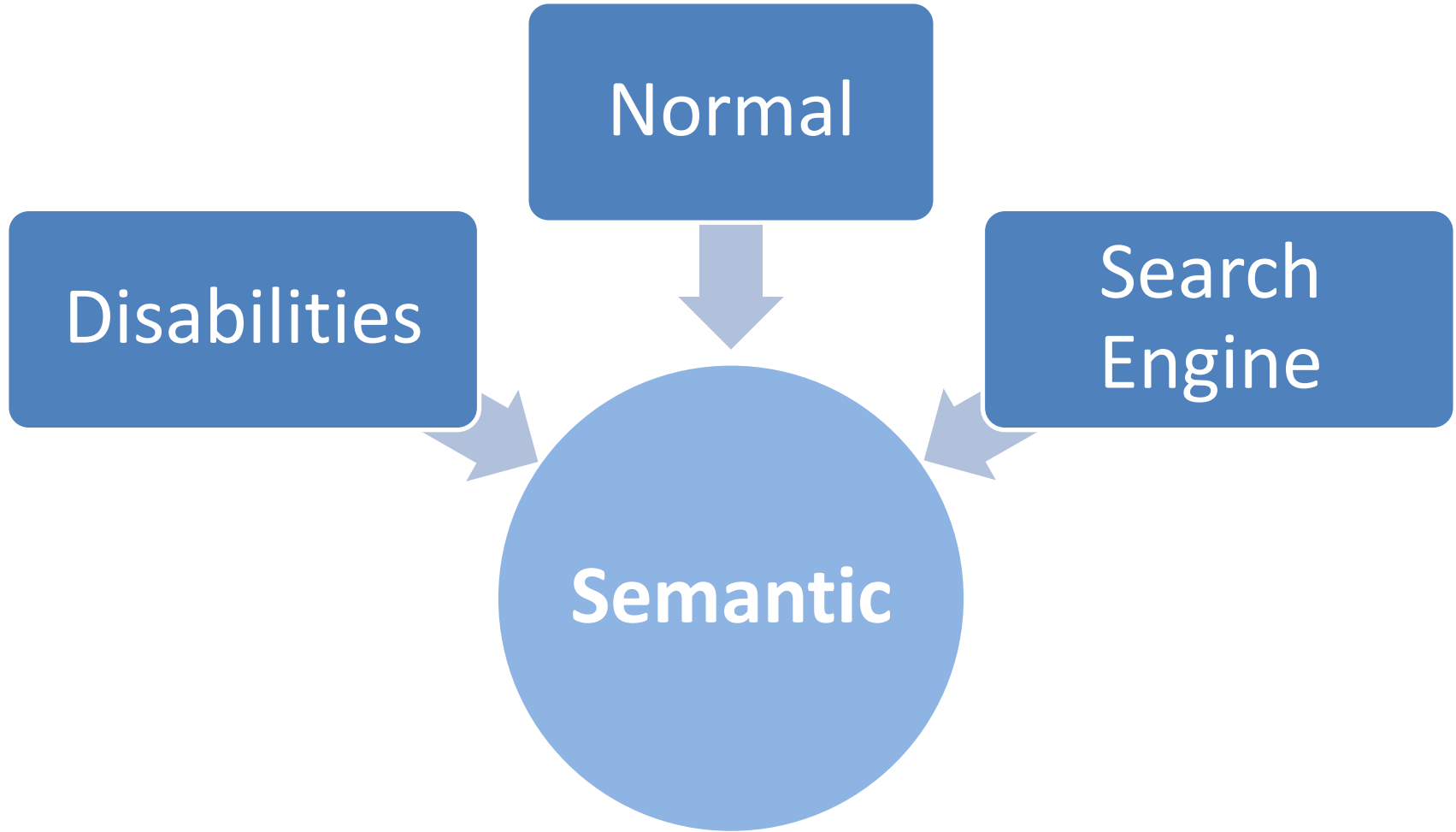


Presentation (CSS)



Content (HTML)

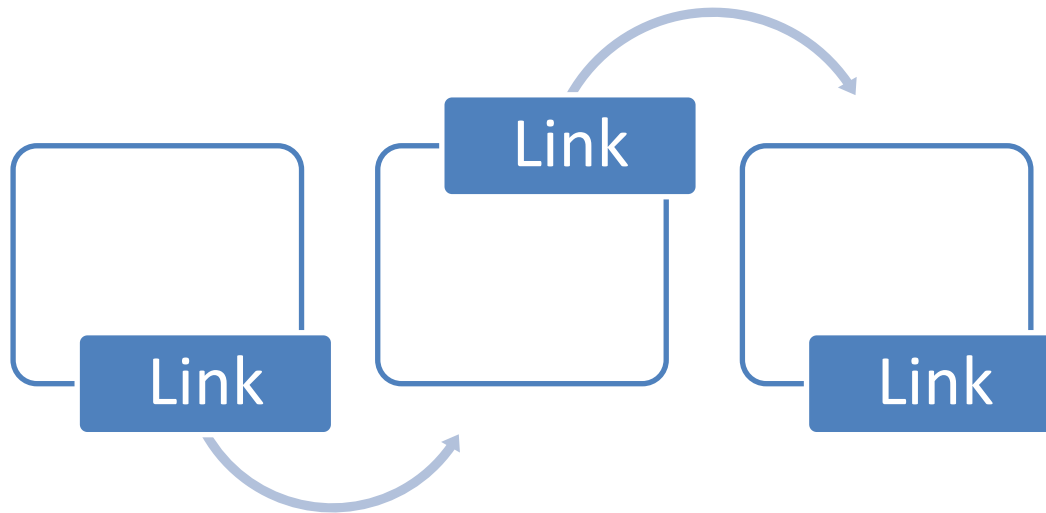
Website Users



HTML

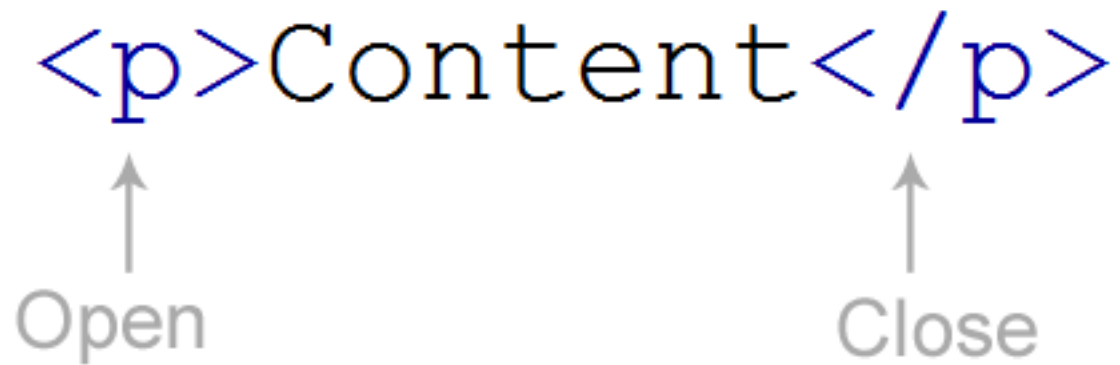
What is HTML?

Hyper Text Markup Language



Tags

`<p>Content</p>`



The diagram illustrates the structure of an HTML paragraph tag. The text `<p>Content</p>` is shown. The opening tag `<p>` is highlighted in blue, and the closing tag `</p>` is also highlighted in blue. Below the opening tag, the word "Open" is written in gray, with a gray arrow pointing upwards to the opening tag. Similarly, below the closing tag, the word "Close" is written in gray, with a gray arrow pointing upwards to the closing tag.

Open

Close

Nested Tags

```
<div>  
  <p>Content</p>  
</div>
```

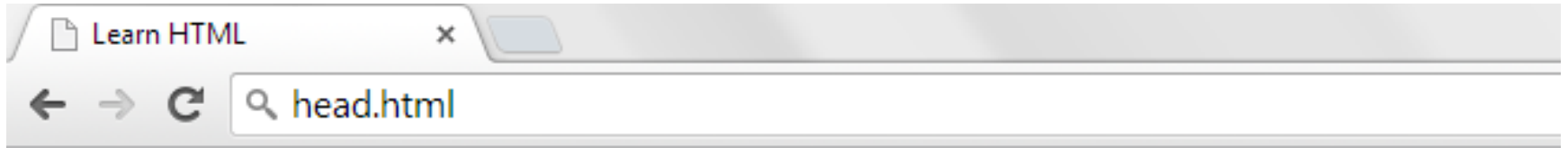
Basic Structure

```
<!DOCTYPE HTML>  
<html>  
  <head></head>  
  <body></body>  
</html>
```


Head

```
<!DOCTYPE HTML>  
<html>  
  <head>  
    <title>Learn HTML</title>  
  </head>  
  <body></body>  
</html>
```

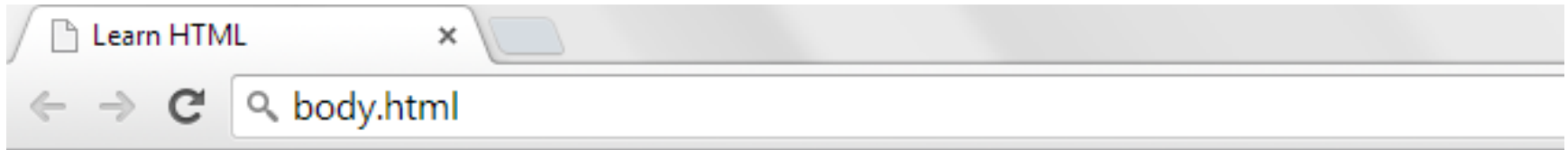
Preview



Body

```
<!DOCTYPE HTML>
<html>
  <head>
    <title>Learn HTML</title>
  </head>
  <body>
    <h1>My first page</h1>
    <p>Lorem ipsum dolor sit amet,
      consectetur adipiscing elit.
      ipsum dolor sit amet, consectetur
      adipiscing elit.</p>
  </body>
</html>
```

Preview



My first page

Lorem ipsum dolor sit amet, consectetur adipiscing elit. ipsum dolor sit amet, consectetur adipiscing elit.

Headers

<h1>Header 1</h1>

<h2>Header 2</h2>

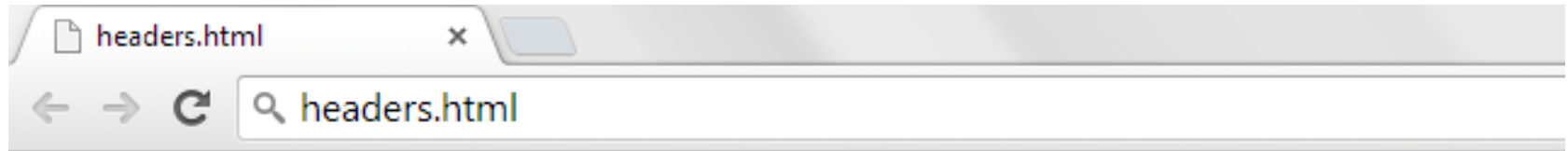
<h3>Header 3</h3>

<h4>Header 4</h4>

<h5>Header 5</h5>

<h6>Header 6</h6>

Preview



Header 1

Header 2

Header 3

Header 4

Header 5

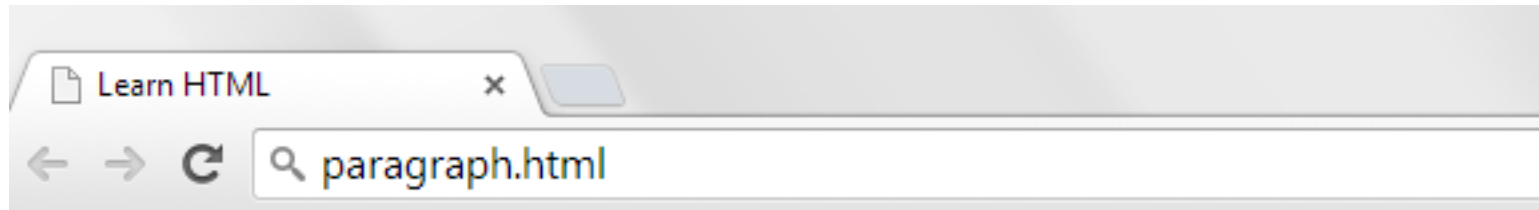
Header 6

Paragraph

<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. ipsum dolor sit amet, consectetur adipiscing elit.</p>

<p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. ipsum dolor sit amet, consectetur adipiscing elit.</p>

Preview



Lorem ipsum dolor sit amet, consectetur adipiscing elit. ipsum dolor sit
consectetur adipiscing elit.

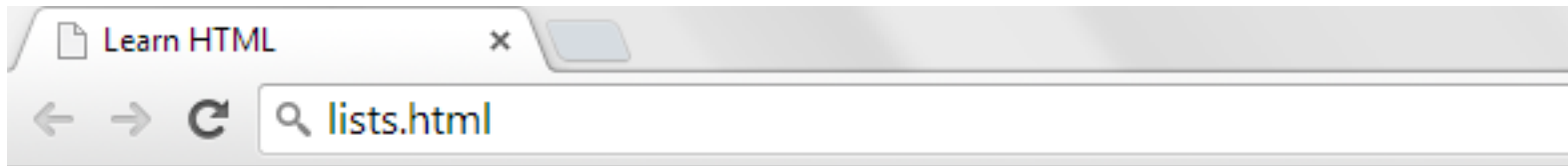
Lorem ipsum dolor sit amet, consectetur adipiscing elit. ipsum dolor sit
consectetur adipiscing elit.

Lists

```
<ul>  
  <li>List item</li>  
  <li>List item</li>  
  <li>List item</li>  
</ul>
```

```
<ol>  
  <li>List item</li>  
  <li>List item</li>  
  <li>List item</li>  
</ol>
```

Preview



- List item
- List item
- List item

1. List item
2. List item
3. List item

Div

```
<div>  
  <h1>Division Header</h1>  
  <p>Division Paragraph</p>  
</div>
```

```
<div>  
  <h1>Division 2 Header</h1>  
  <p>Division 2 Paragraph</p>  
</div>
```

Preview



Division Header

Division Paragraph

Division 2 Header

Division 2 Paragraph

Block elements

BLOCK ELEMENTS EXPAND NATURALLY



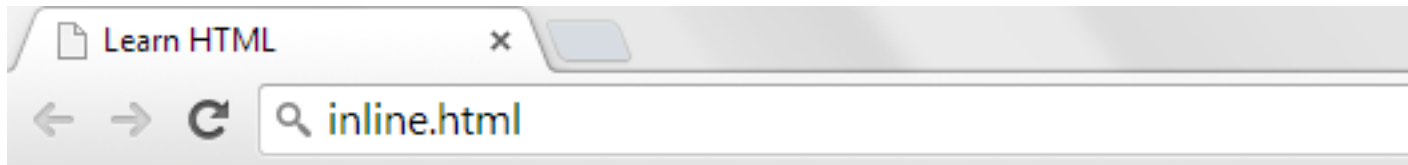
AND NATURALLY DROP BELOW OTHER ELEMENTS



Inline elements

`<p>This paragraph contains inline element</p>`

Preview



This paragraph contains **inline element**

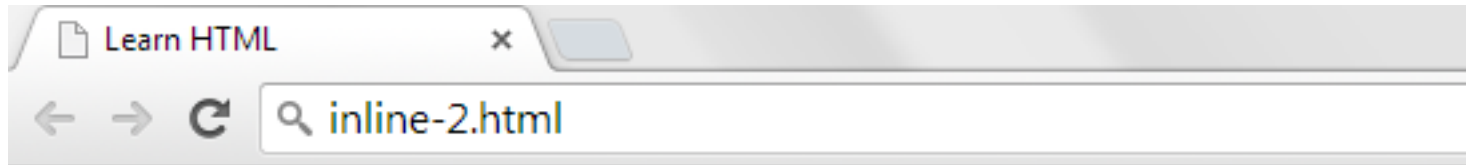
More Inline elements

`Inline element`

`Inline element`

`Inline element`

Preview



Inline element *Inline element* Inline element

Attribute

```

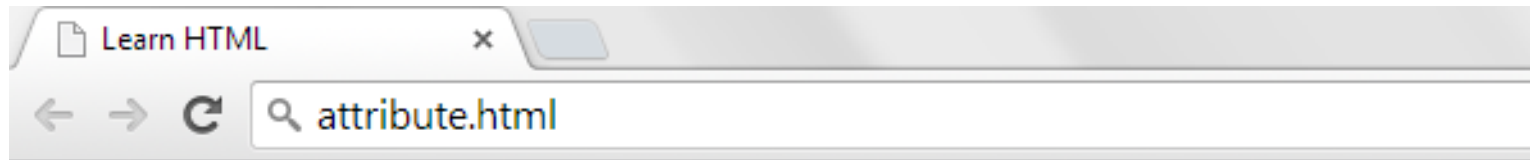
```

↑
Name

↑
Value

Add more info to tag

Preview



HTML 5 tags

`<header> ... </header>`

`<footer> ... </footer>`

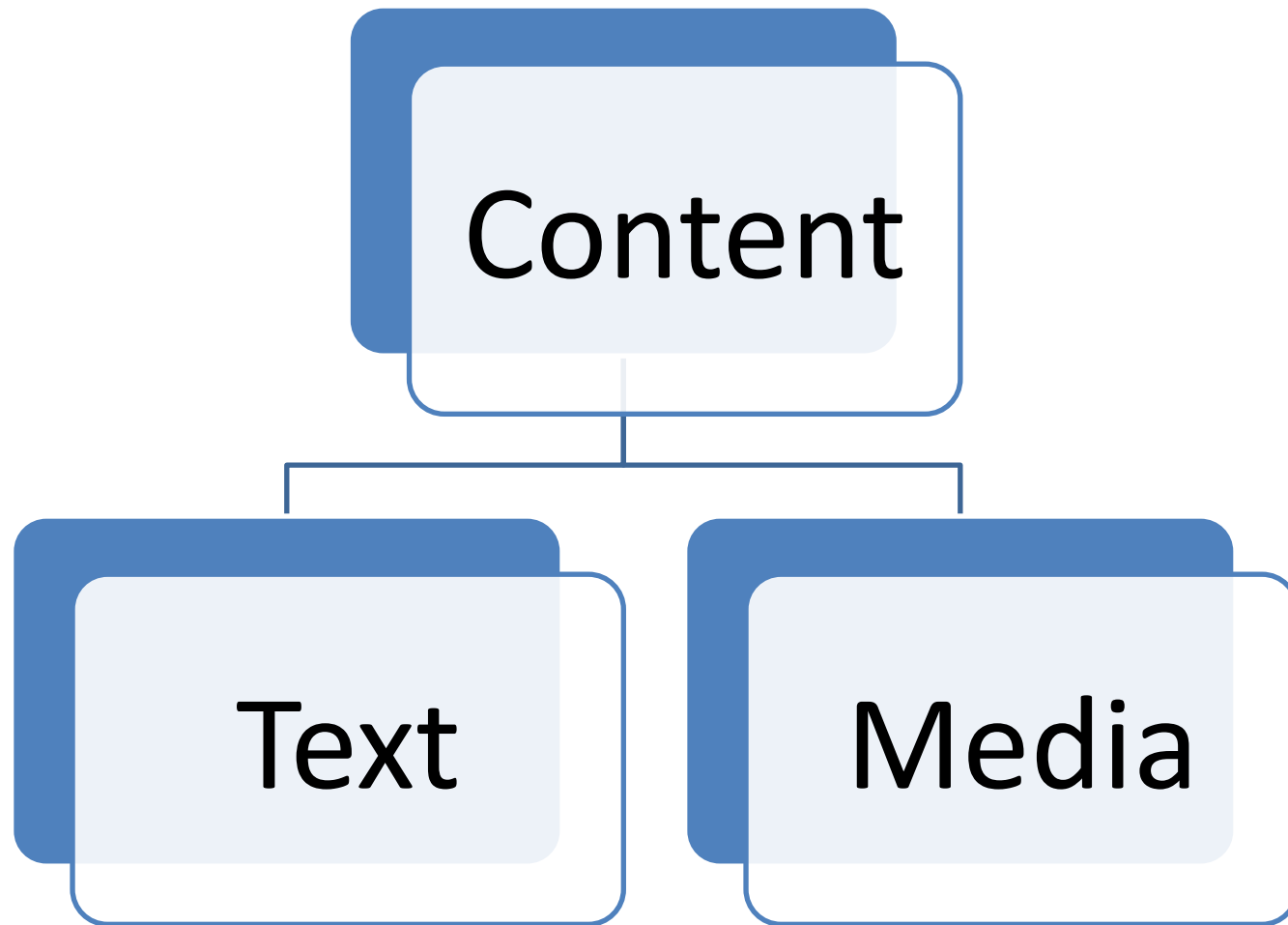
`<aside> ... </aside>`

`<nav> ... </nav>`

`<section> ... </section>`

`<article> ... </article>`

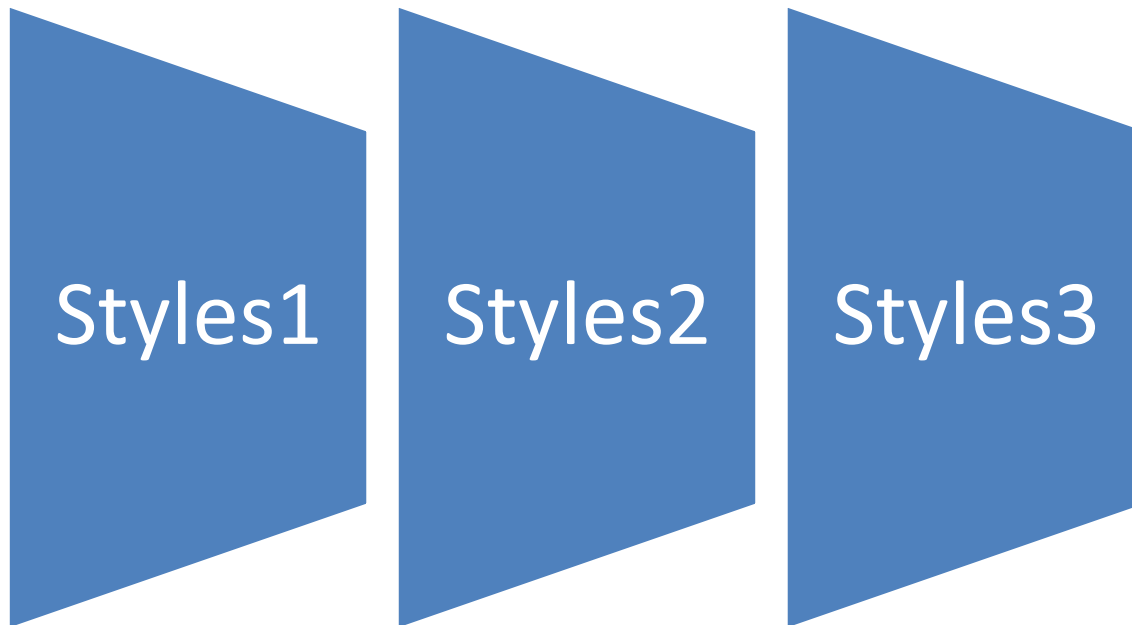
Semantic



CSS

What is CSS?

Cascading Style Sheets



How to use it?

```
<head>
  <title>Learn HTML</title>
  <link rel="stylesheet" href="../../stylesheets/styles.css">
</head>
```

```
<style>
  h1{color:red;}
  p{font-size:14px;}
</style>
```

```
<h1 style="color:red;">Selectors</h1>
<p style="font-size:14px;">Lorem ipsum dolor sit
amet, consectetur adipiscing elit. Maecenas non arcu
ornare, fermentum erat ac, semper enim.</p>
```


Rules



Selectors

p

Element

.name

Class

#name

Id

Element Selector

```
<h1>My first page</h1>
```

```
<p>Lorem ipsum dolor sit amet,  
consectetur adipiscing elit.  
ipsum dolor sit amet, consectetur  
adipiscing elit.</p>
```

```
h1 { color: red; }
```

```
p { font-size: 20px; }
```

Preview



My first page

Lorem ipsum dolor sit amet, consectetur adipiscing elit. ipsum dolor
consectetur adipiscing elit.

Class Selector

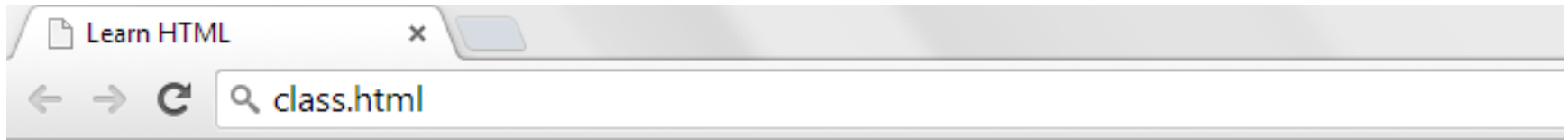
```
<h1>My first page</h1>
```

```
<p class="intro">Lorem ipsum dolor sit amet,  
adipiscing elit. adipiscing elit.</p>
```

```
<p>Lorem ipsum dolor sit amet, consectetur  
adipiscing elit. adipiscing elit.</p>
```

```
h1{color:red;}  
p{font-size:20px;}  
.intro{color:green;}
```

Preview



My first page

Lorem ipsum dolor sit amet,consectetur adipiscing elit. adipiscing elit.

Lorem ipsum dolor sit amet,consectetur adipiscing elit. adipiscing elit.

ID Selector

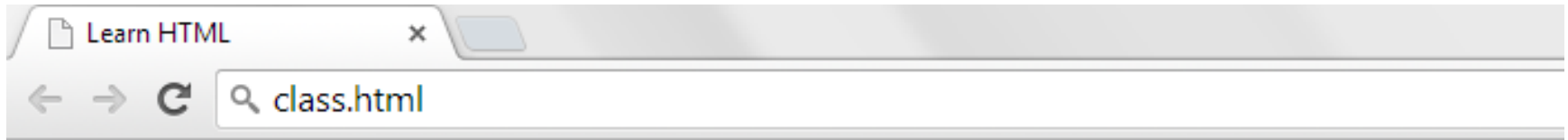
```
<h1>My first page</h1>
```

```
<p id="intro">Lorem ipsum dolor sit amet,  
adipiscing elit. adipiscing elit.</p>
```

```
<p>Lorem ipsum dolor sit amet,consectetur  
adipiscing elit. adipiscing elit.</p>
```

```
h1{color:red;}  
p{font-size:20px;}  
#intro{color:green;}
```

Preview



My first page

Lorem ipsum dolor sit amet,consectetur adipiscing elit. adipiscing elit.

Lorem ipsum dolor sit amet,consectetur adipiscing elit. adipiscing elit.

2 Rules

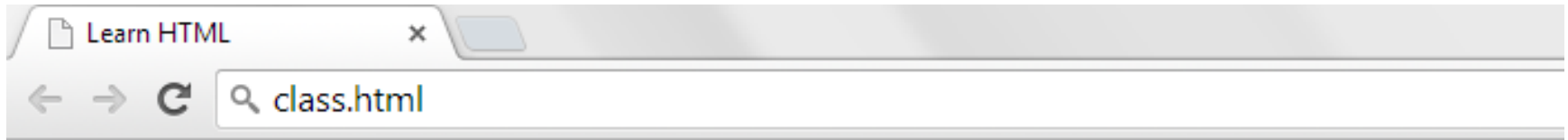
```
<h1>My first page</h1>
```

```
<p id="intro" class="intro">Lorem ipsum dolor  
adipiscing elit. adipiscing elit.</p>
```

```
<p>Lorem ipsum dolor sit amet, consectetur  
adipiscing elit. adipiscing elit.</p>
```

```
h1{color:red;}  
p{font-size:20px;}  
#intro{color:green;}  
.intro{color:blue;}
```

Preview



My first page

Lorem ipsum dolor sit amet,consectetur adipiscing elit. adipiscing elit.

Lorem ipsum dolor sit amet,consectetur adipiscing elit. adipiscing elit.

Specificity

1

Element

10

Class

100

Id

Class VS ID

Class

- Use a lot
- Lower specificity

ID

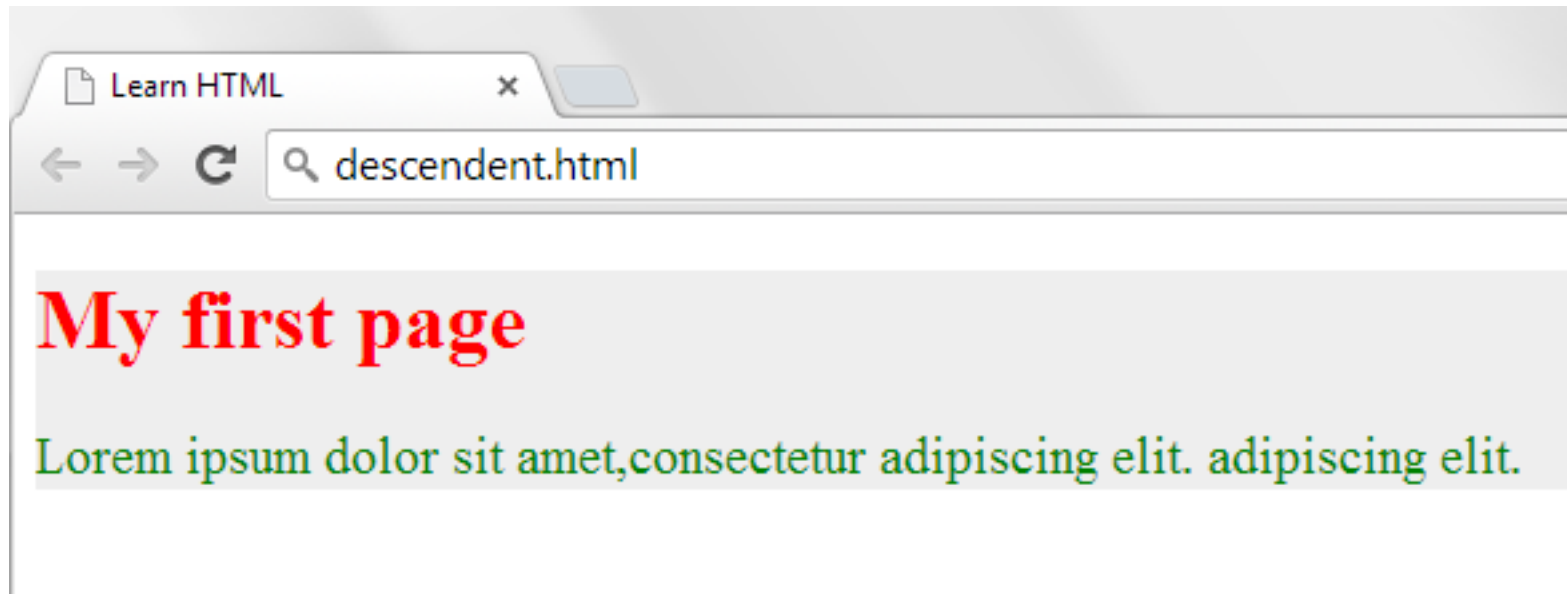
- Use once
- Higher specificity

Descendent Selector

```
<div class="content">  
  <h1>My first page</h1>  
  <p>Lorem ipsum dolor sit amet,consectetur  
  adipiscing elit. adipiscing elit.</p>  
</div>
```

```
.content{ background:#eee; }  
.content h1{ color:red; }  
.content p{ color:green; }
```

Preview



Naming

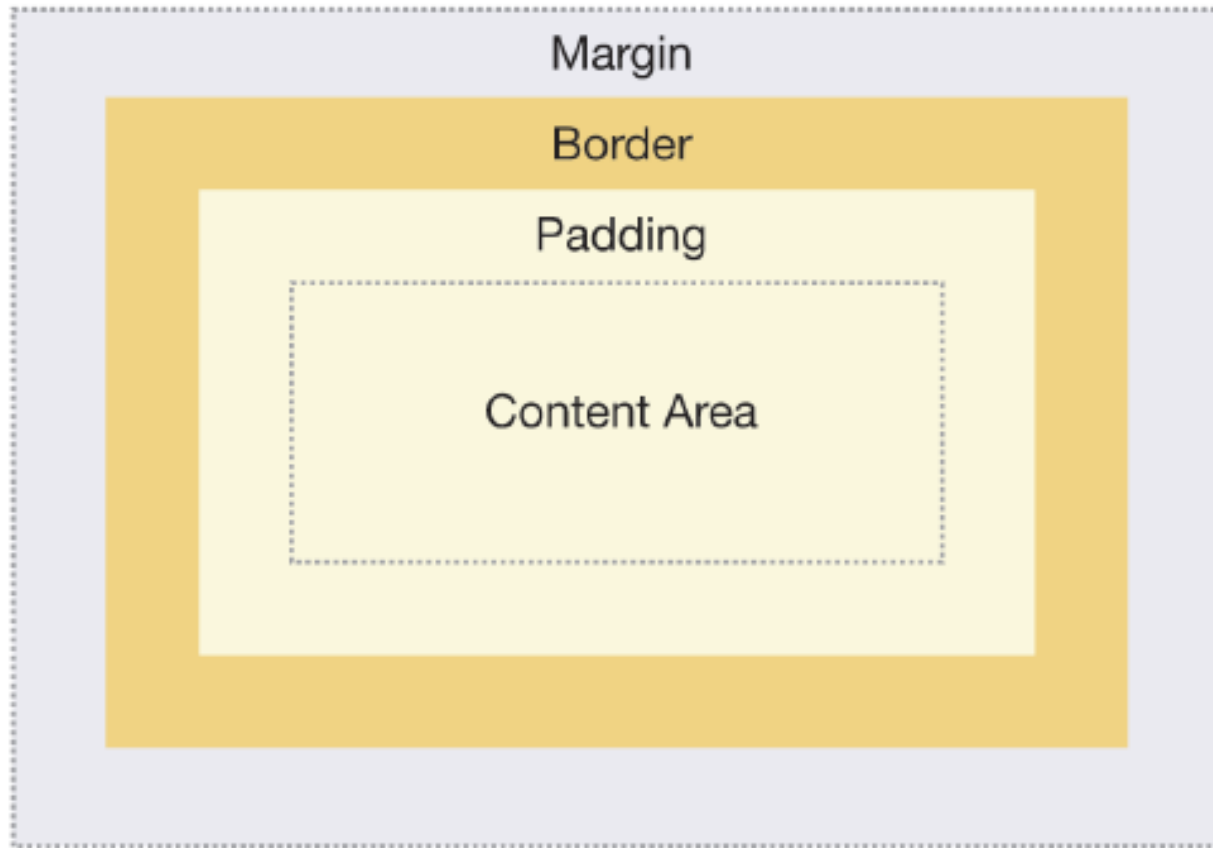
Bad Names

red
leftColumn
topNav
firstPara

Good Names

error
secondaryContent
mainNav
intro

Box Model (Block)



Box Model (Block)

```
<div class="box1">box1</div>
```

```
<div class="box2">box2</div>
```

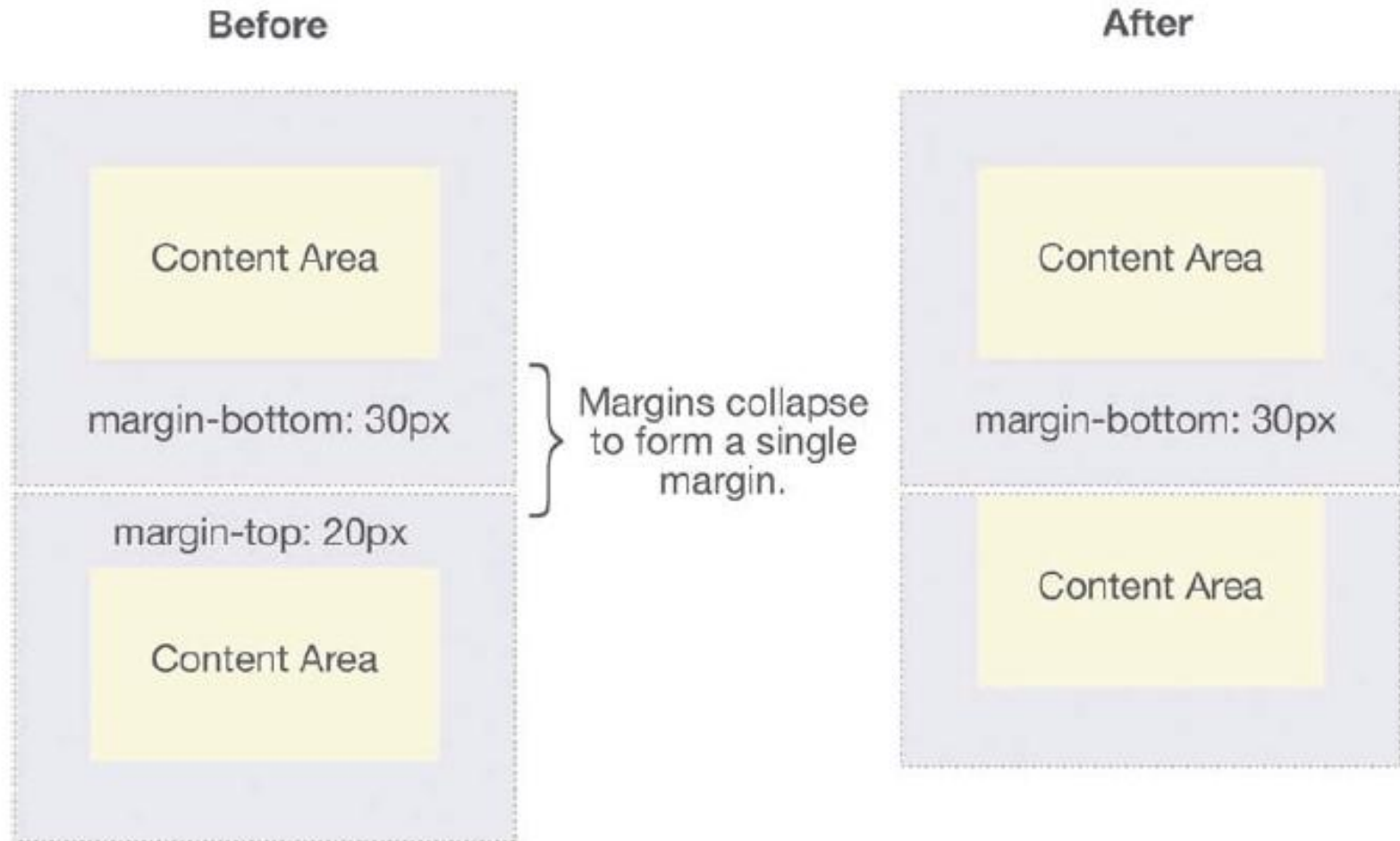
Box Model (Block)

```
.box1{  
  background:red;  
  padding:20px;  
  margin:20px;  
  border: 5px solid black;  
}  
.box2{  
  background:green;  
  padding:20px;  
  margin:20px;  
  border: 5px solid black;  
}
```

Preview

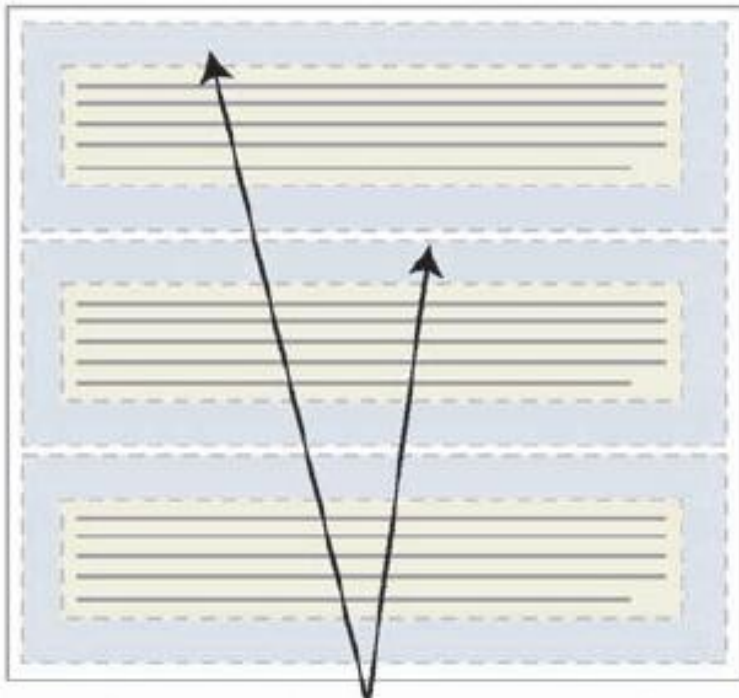


Margin collapse



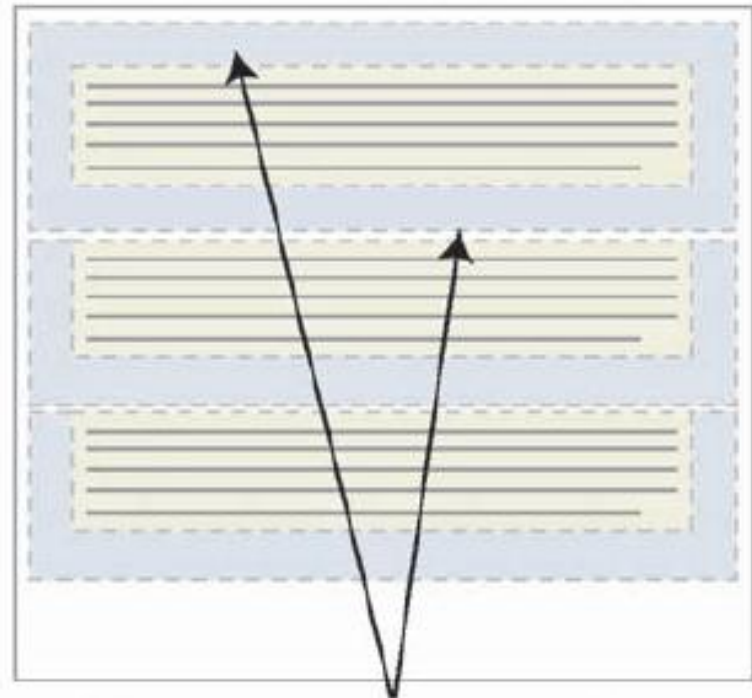
Margin collapse

Without Margin Collapsing



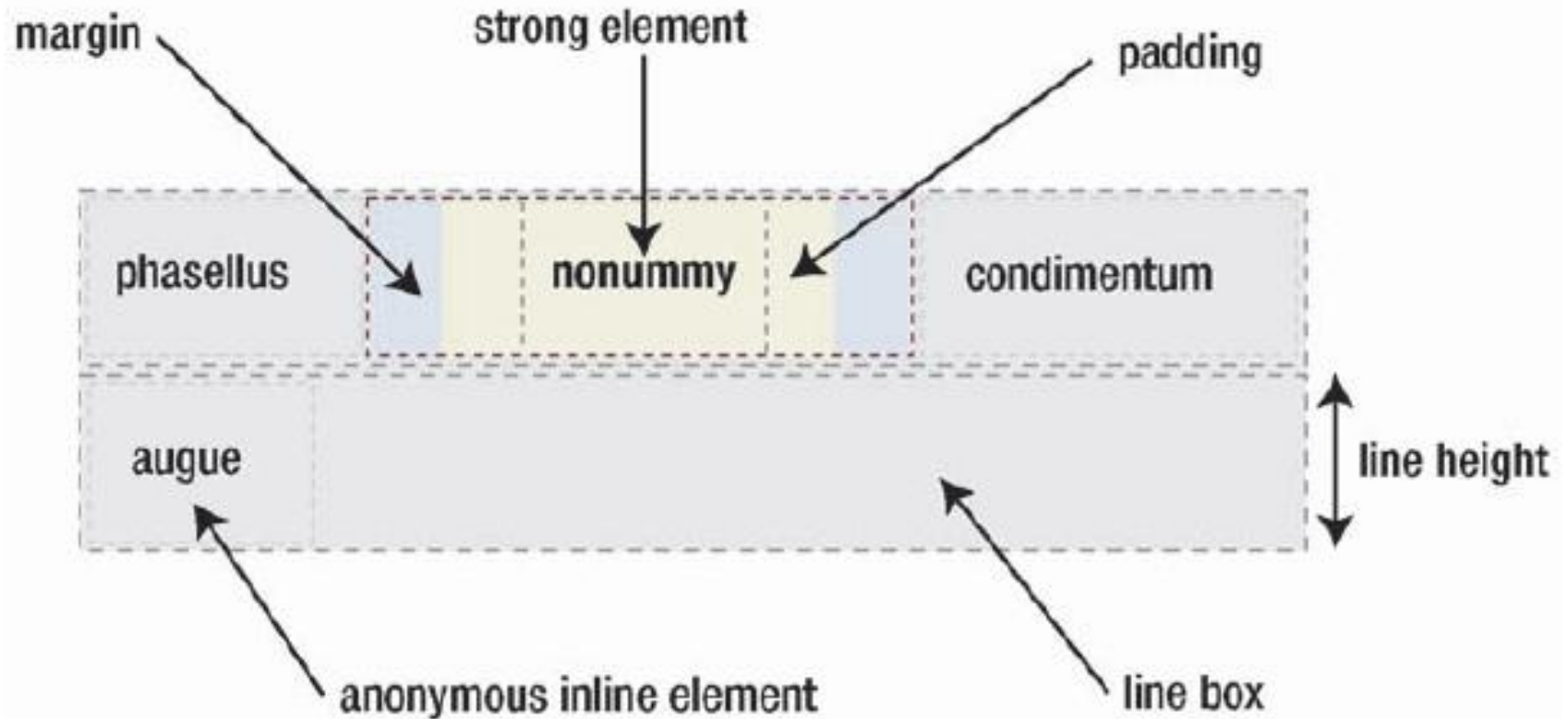
The space between paragraphs is double the space at the top.

With Margin Collapsing



The space between paragraphs is the same as the space at the top.

Box Model (Inline)

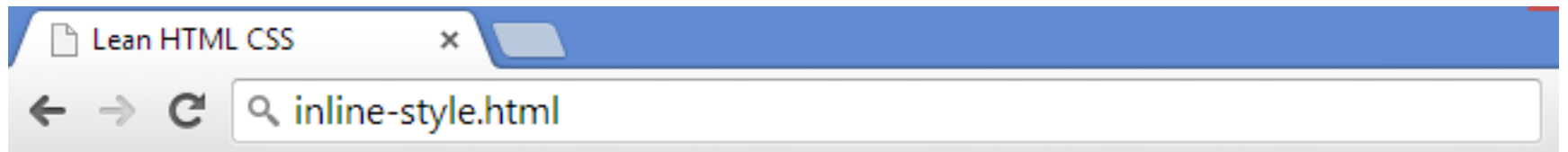


Box Model (Inline)

```
<p>Lorem ipsum dolor sit amet,  
consectetur <strong>adipiscing</strong>  
Duis eget felis mollis, venenatis  
nunc non, ornare nibh. venenatis  
nunc non, ornare nibh orem ipsum dolor sit  
amet </p>
```

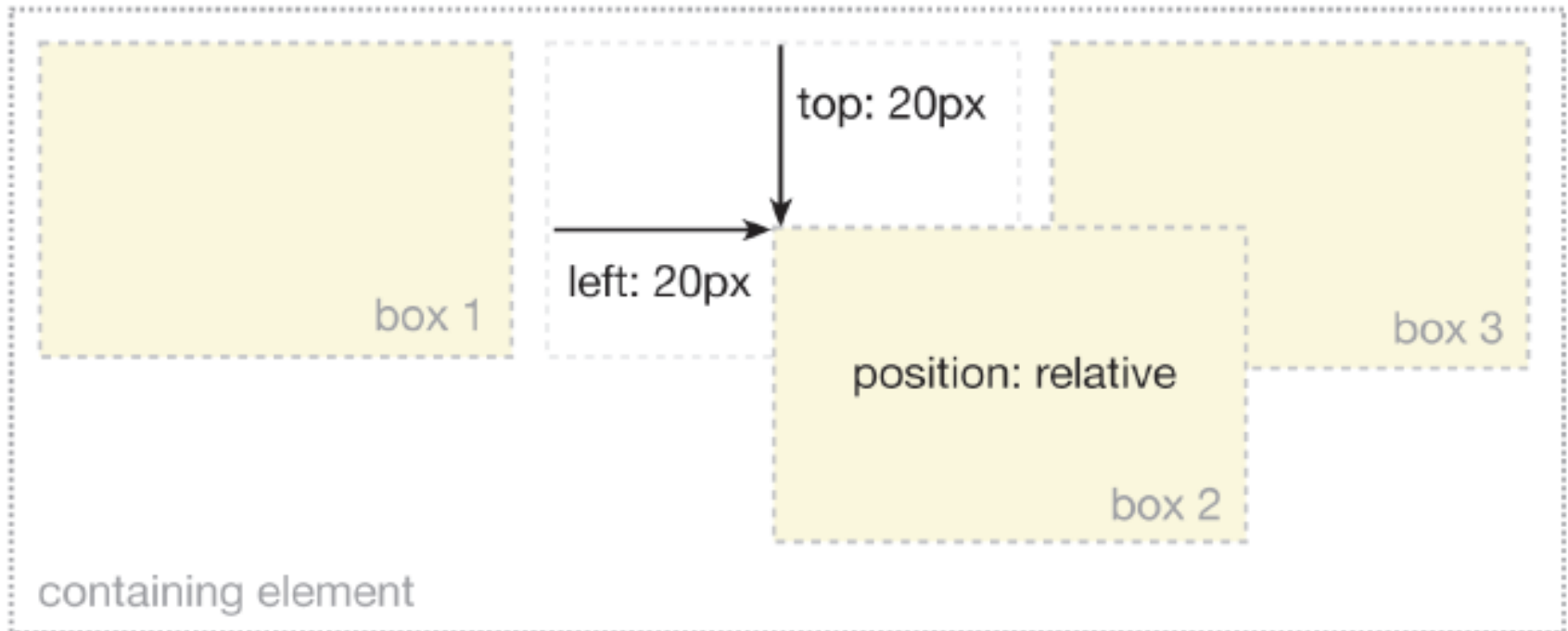
```
strong{  
  padding:20px;  
  margin:20px;  
}
```

Preview

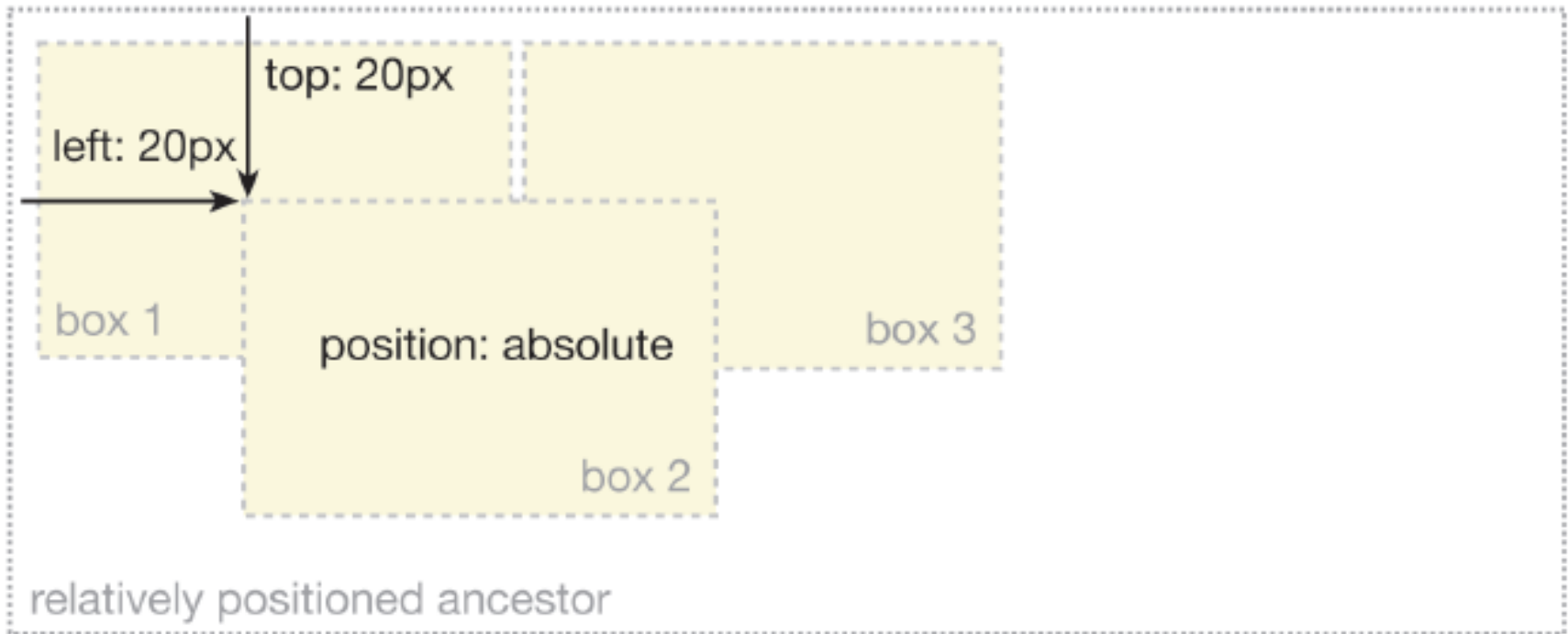


Lorem ipsum dolor sit amet, consectetur **adipiscing** Duis eget felis mollis, venenatis nunc non
ornare nibh. venenatis nunc non, ornare nibh orem ipsum dolor sit amet

Relative Position



Absolute Position

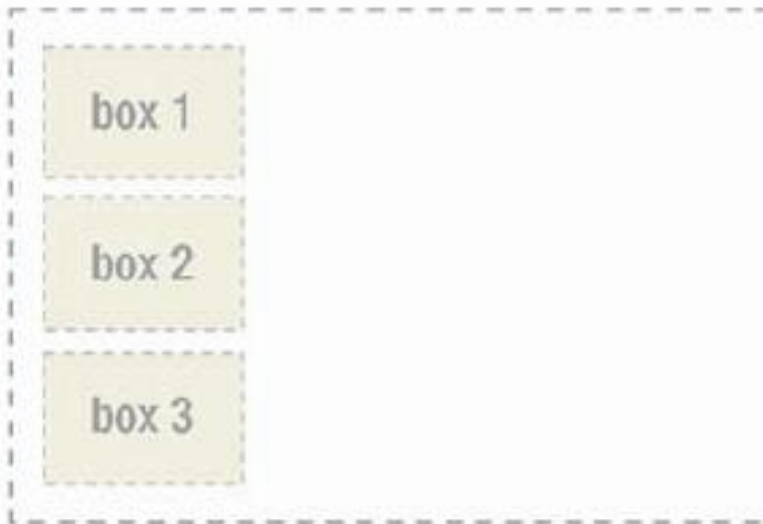


Fixed Position

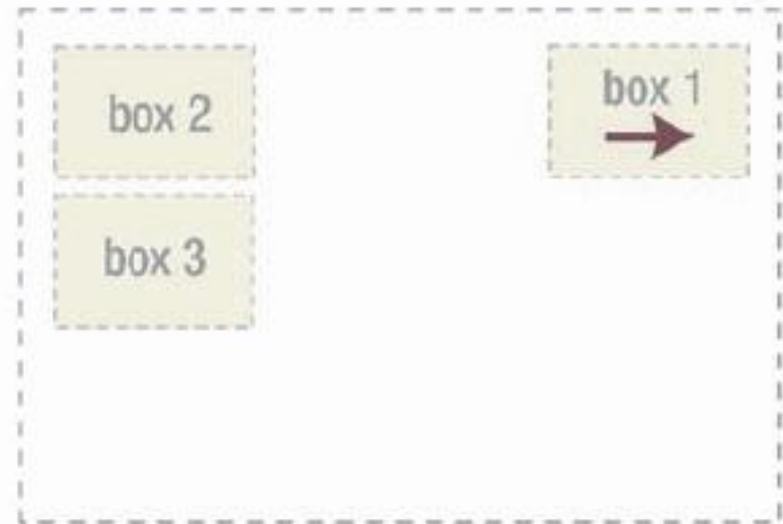


Float

No Boxes Floated

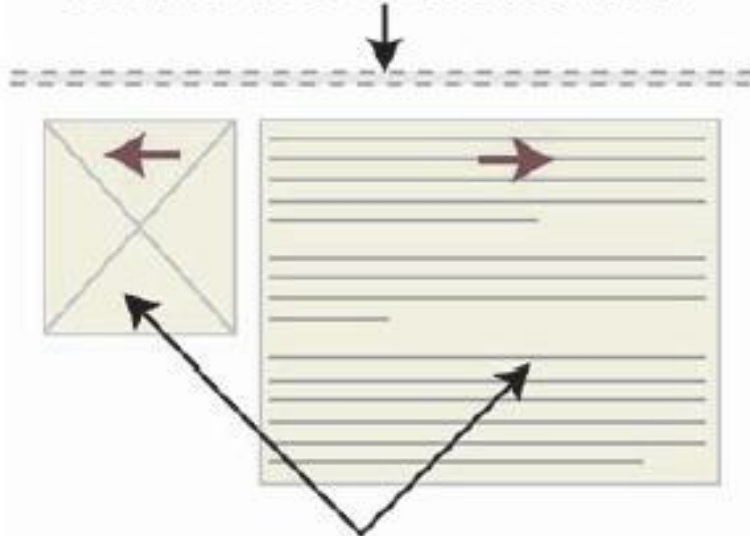


Box 1 Floated Right



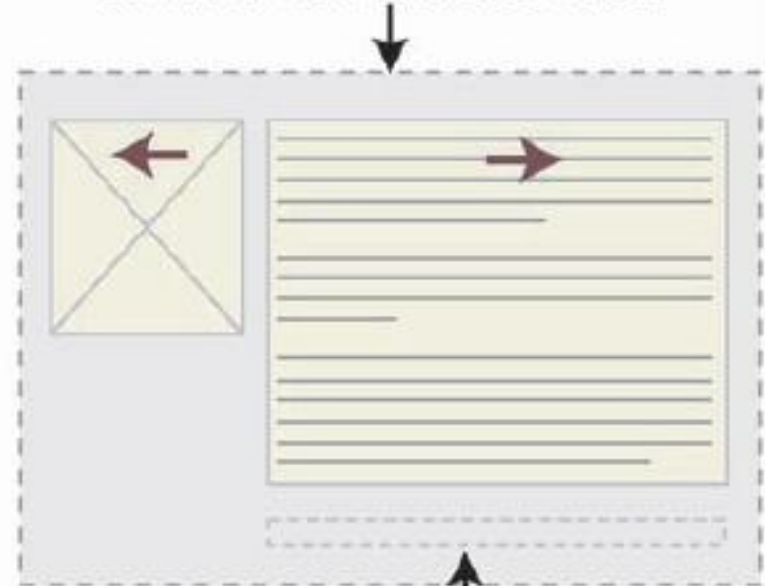
Float

Container does not enclose floats.



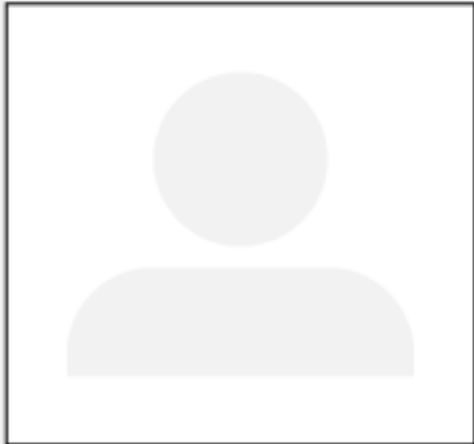
Floats take up no space.

Container now encloses floats.



Empty clearing div.

Assignment



Your Full Name

Job Title

Telephone Number

Email Address

Thanks