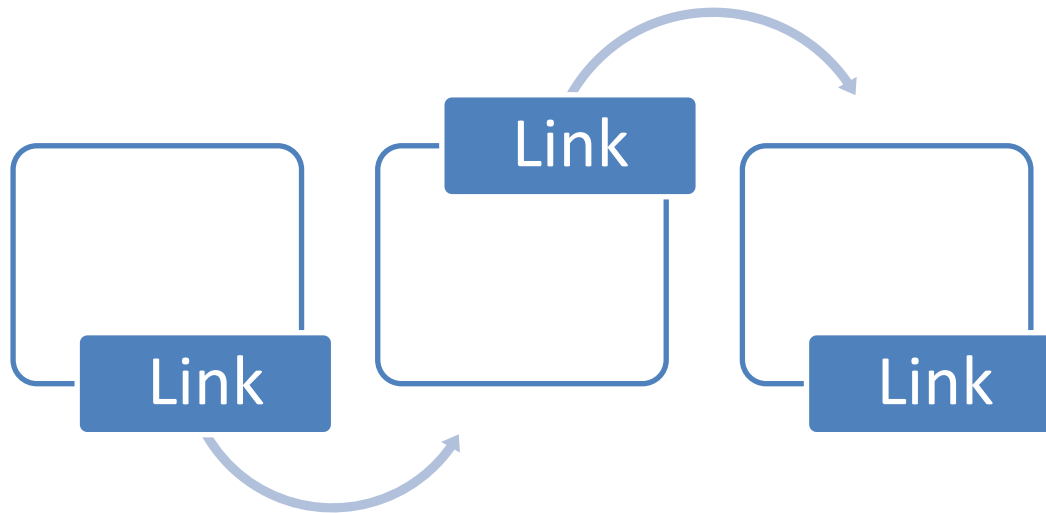


# HTML

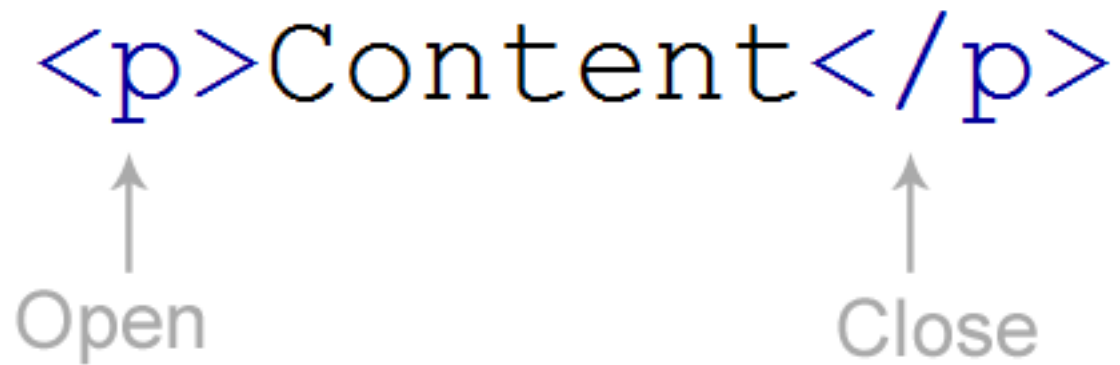
# What is HTML?

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. 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>
```

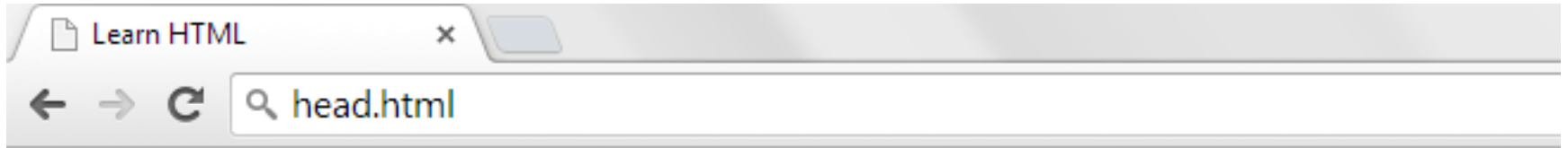
# Basic Structure

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

# Head

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

# Preview

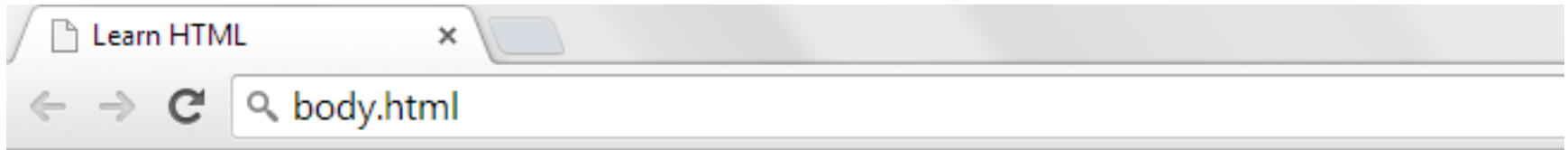


# Body

```
<!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>

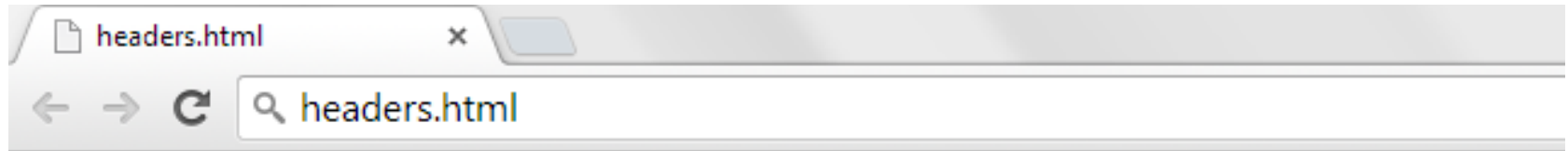
<h3>Header 3</h3>

<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.

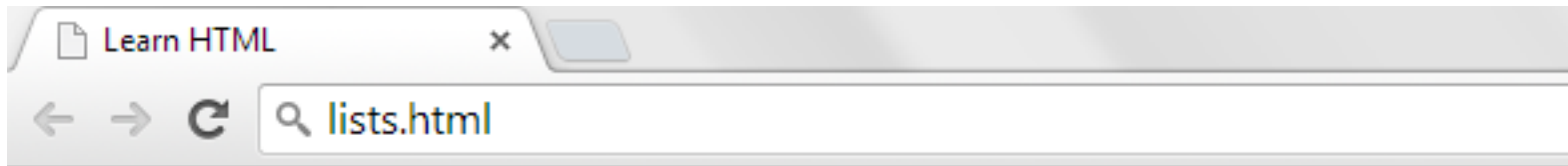
Lorem ipsum dolor sit amet, consectetur adipiscing elit. ipsum dolor sit  
consectetur adipiscing elit.

# 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**



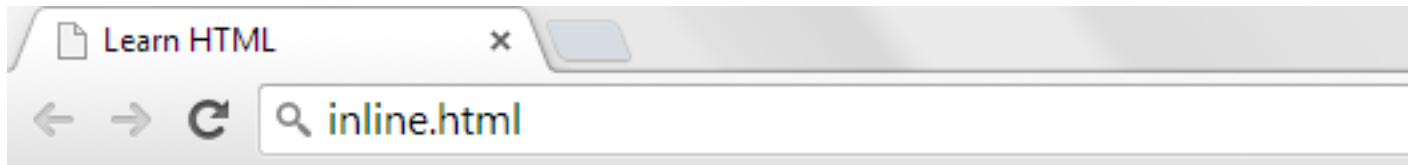
**AND NATURALLY DROP BELOW OTHER ELEMENTS**



# Inline elements

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

# Preview



This paragraph contains **inline element**

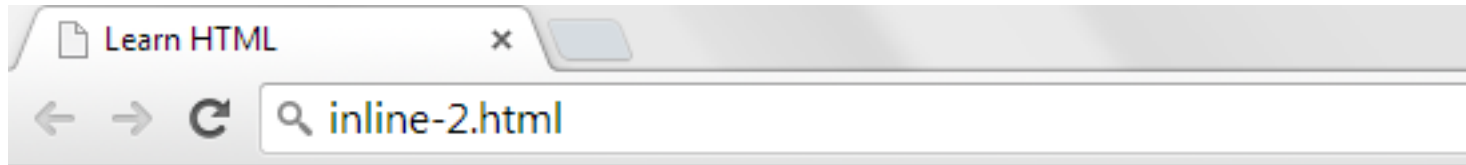
# More Inline elements

`<strong>Inline element</strong>`

`<em>Inline element</em>`

`<span>Inline element</span>`

# Preview



**Inline element** *Inline element* Inline element

# Attribute

```

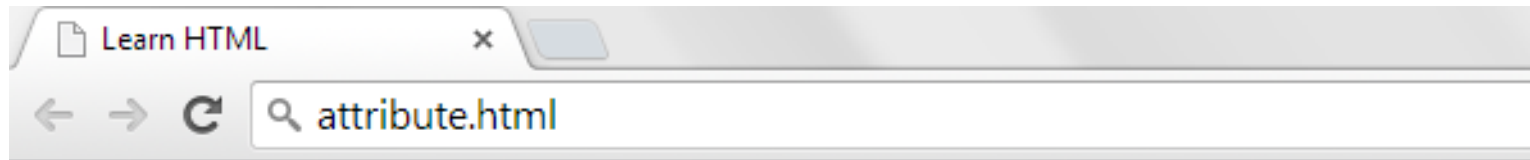
```

↑  
Name

↑  
Value

Add more info to tag

# Preview





# HTML 5 tags

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

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

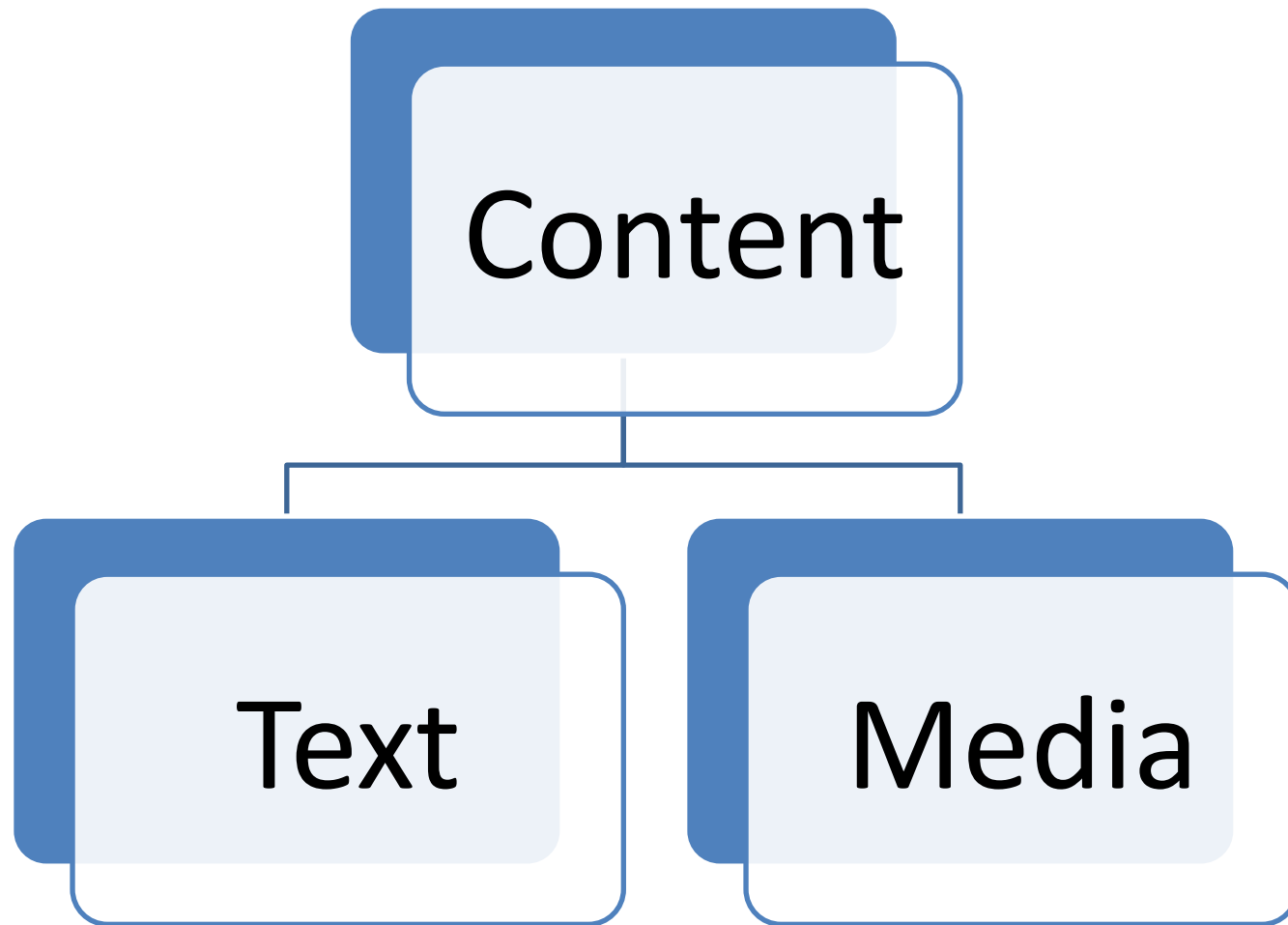
`<aside> ... </aside>`

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

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

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

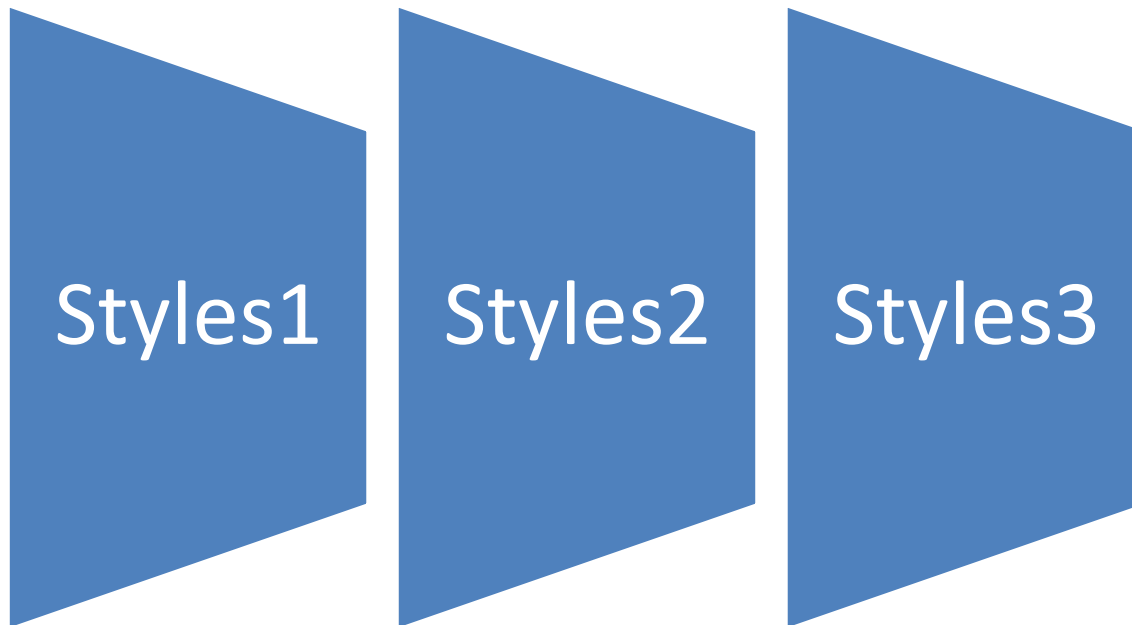
# Semantic



# 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

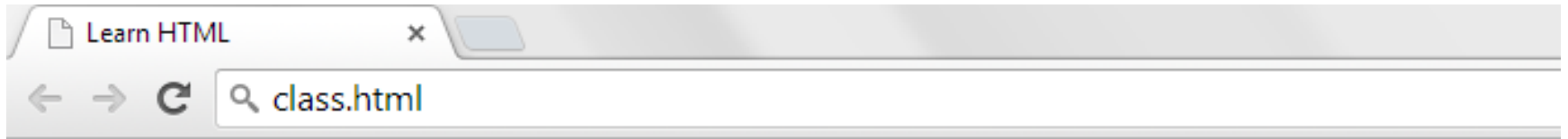
```
<h1>My first page</h1>
```

```
<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

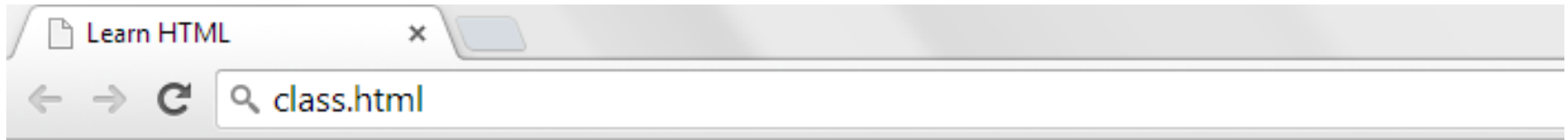
```
<h1>My first page</h1>
```

```
<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

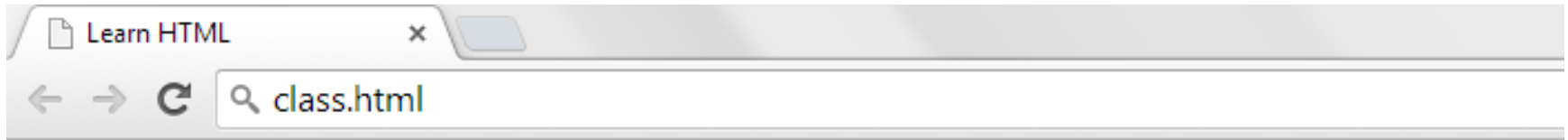
```
<h1>My first page</h1>
```

```
<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

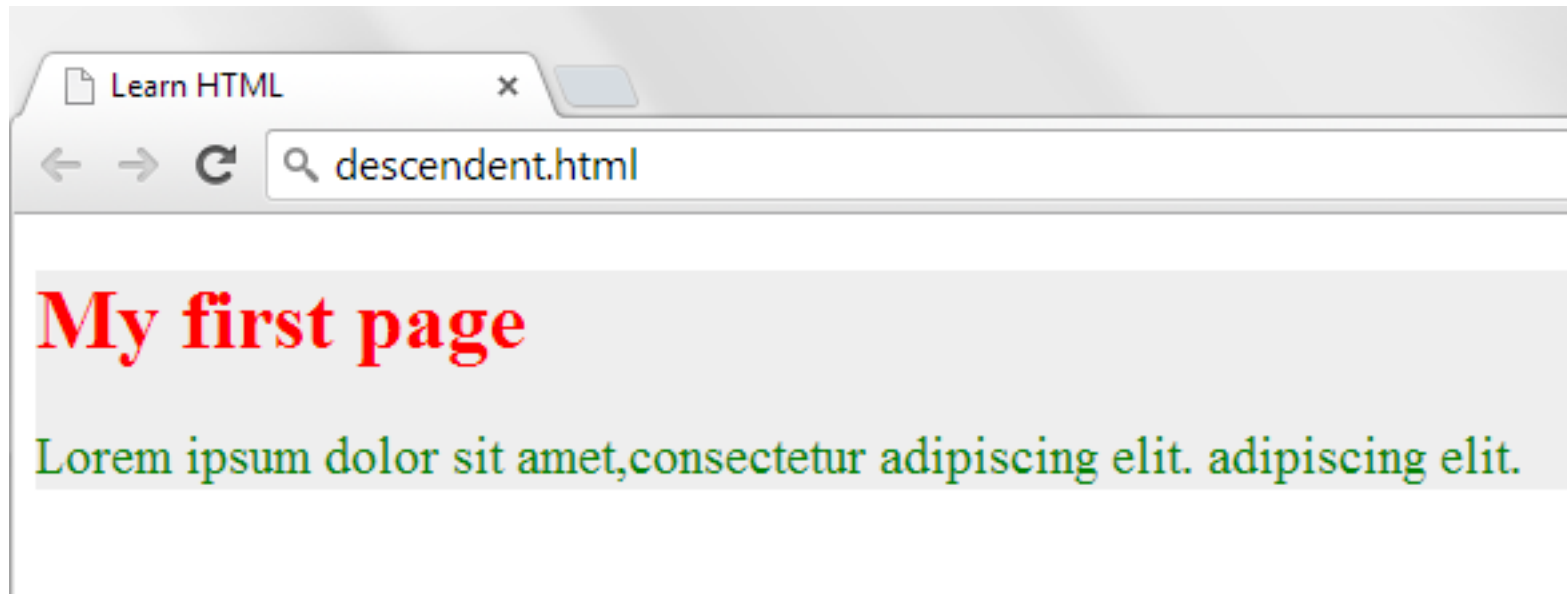
- Use once
- Higher specificity

# 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

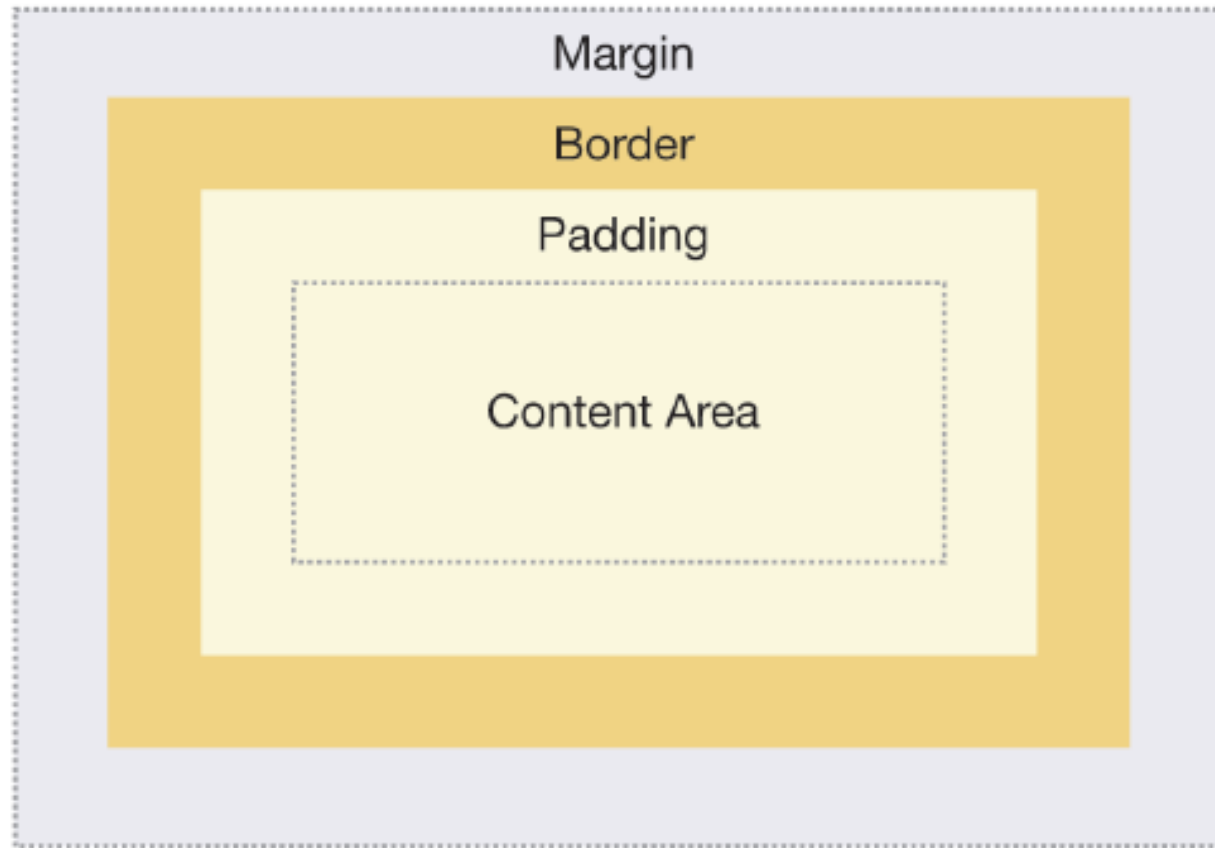
## Bad Names

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)

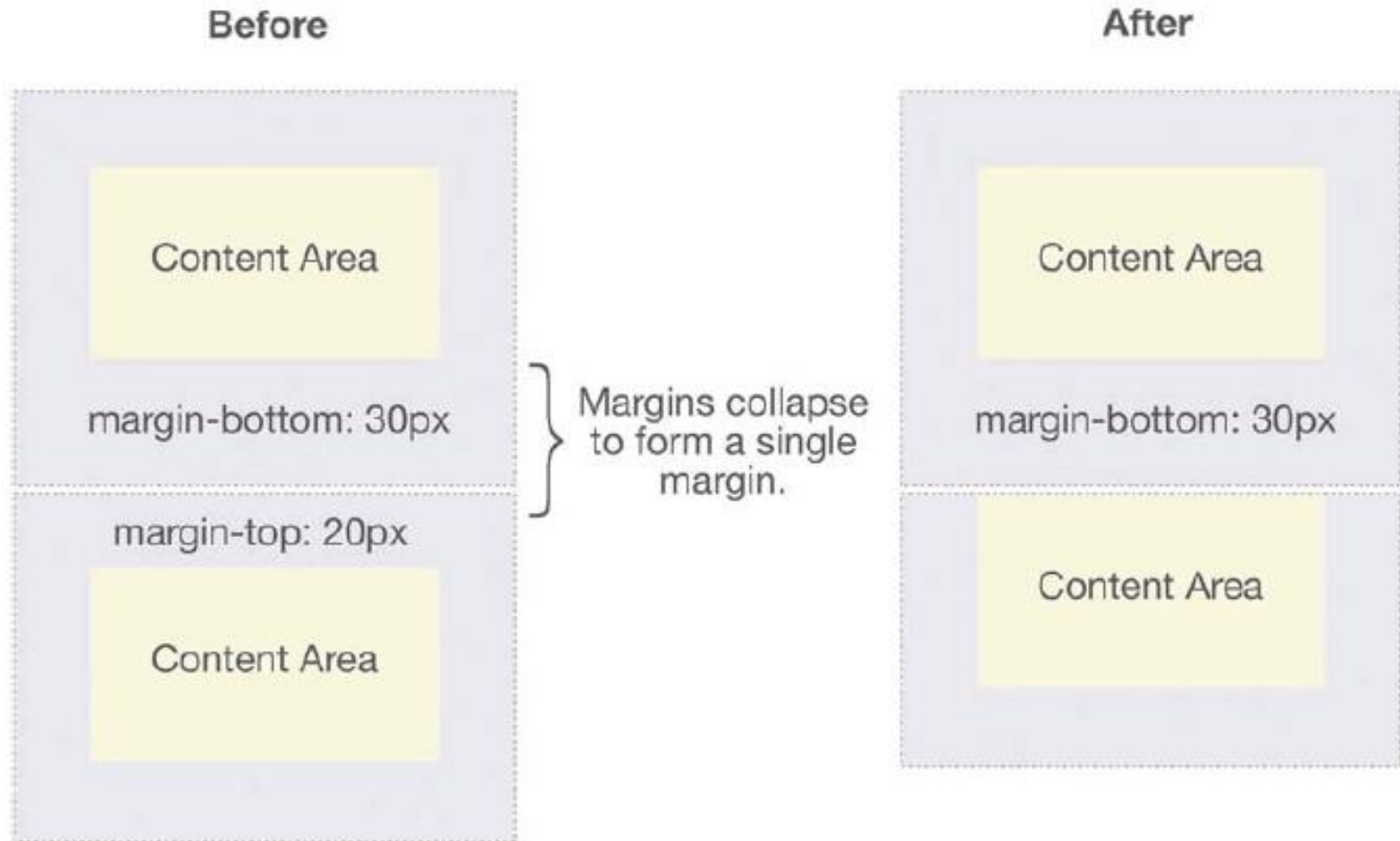
```
.box1{  
  background:red;  
  padding:20px;  
  margin:20px;  
  border: 5px solid black;  
}  
.box2{  
  background:green;  
  padding:20px;  
  margin:20px;  
  border: 5px solid black;  
}
```

# Preview



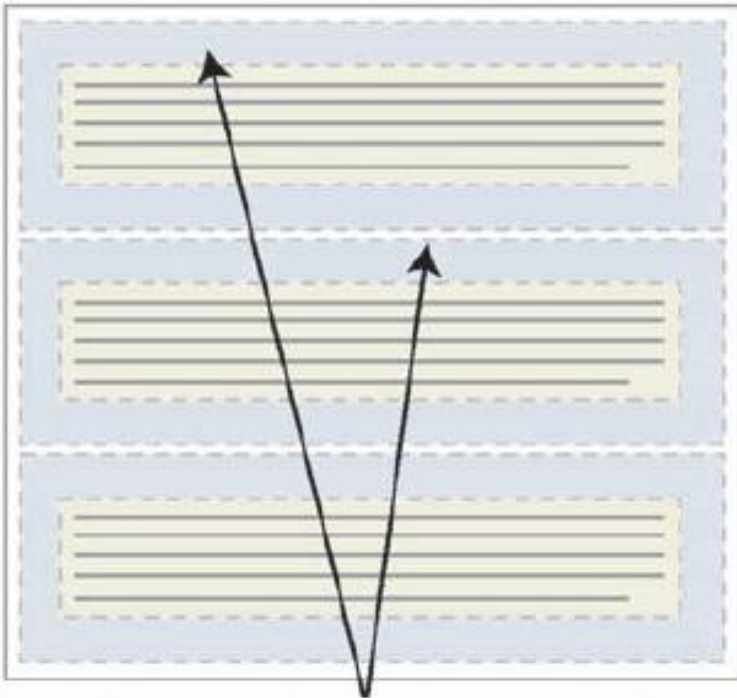


# Margin collapse



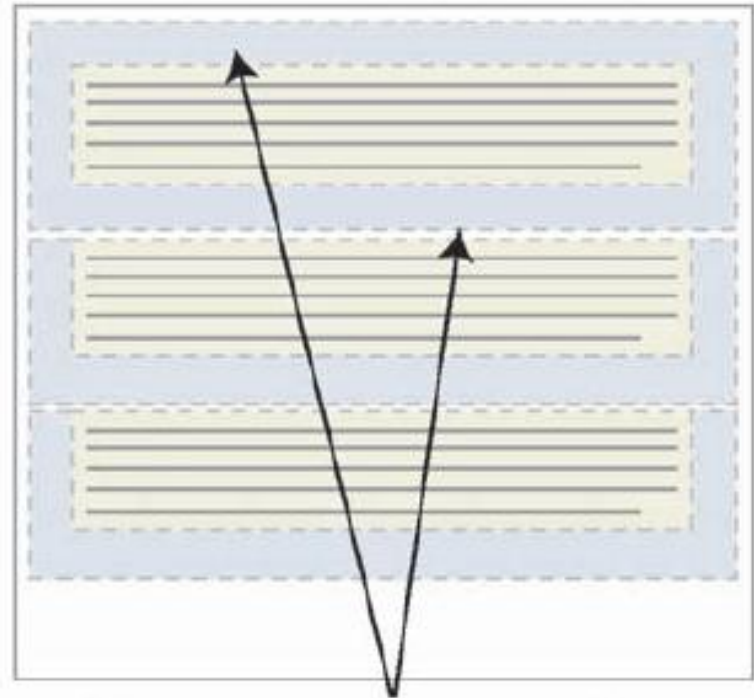
# Margin collapse

**Without Margin Collapsing**



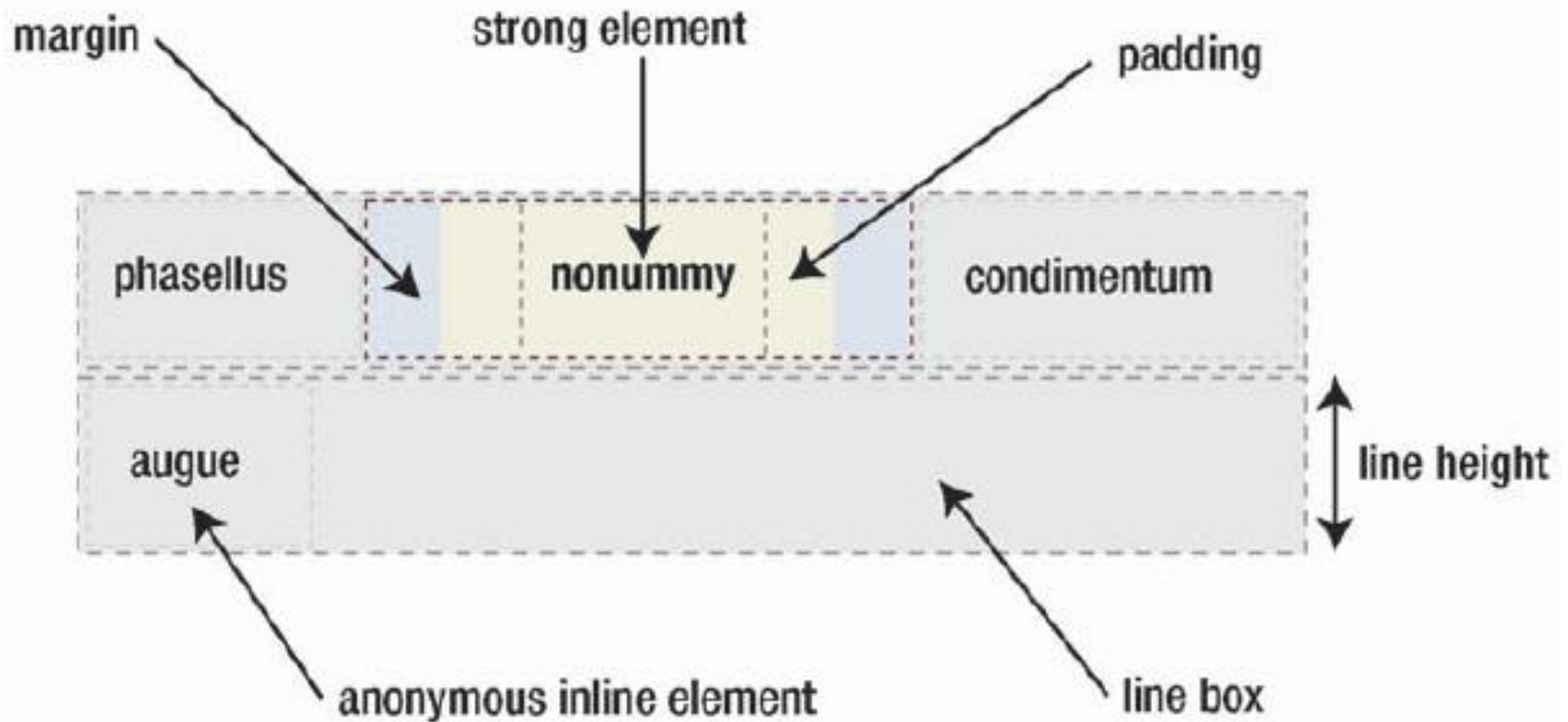
**The space between paragraphs is double the space at the top.**

**With Margin Collapsing**



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

# Box Model (Inline)

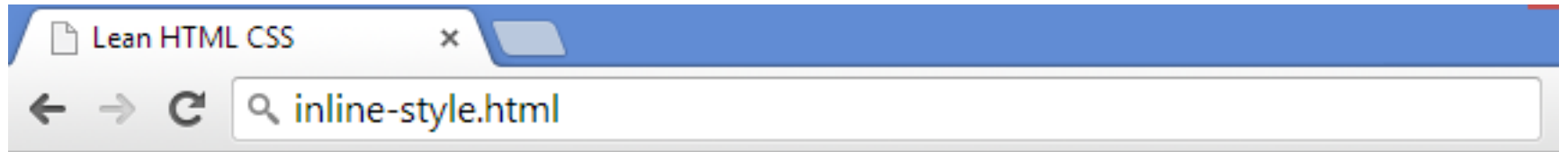


# Box Model (Inline)

```
<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>
```

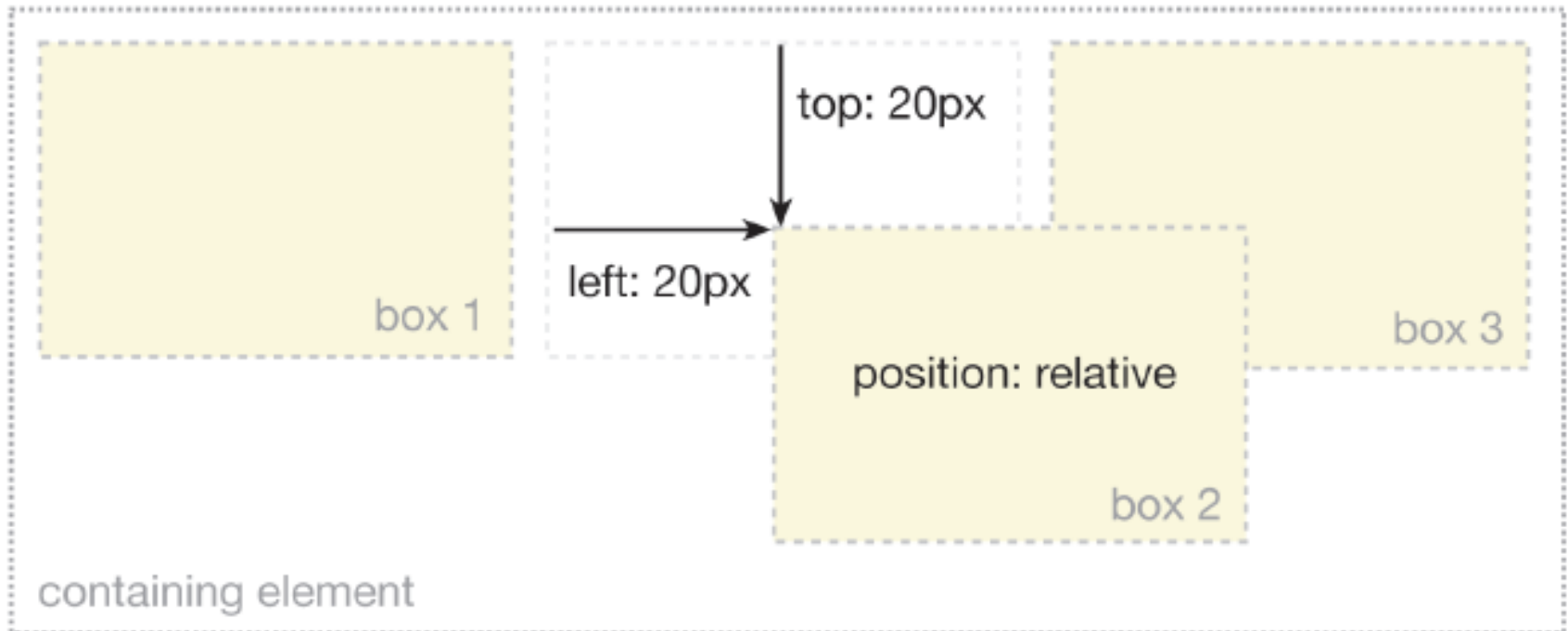
```
strong{  
  padding:20px;  
  margin:20px;  
}
```

# Preview

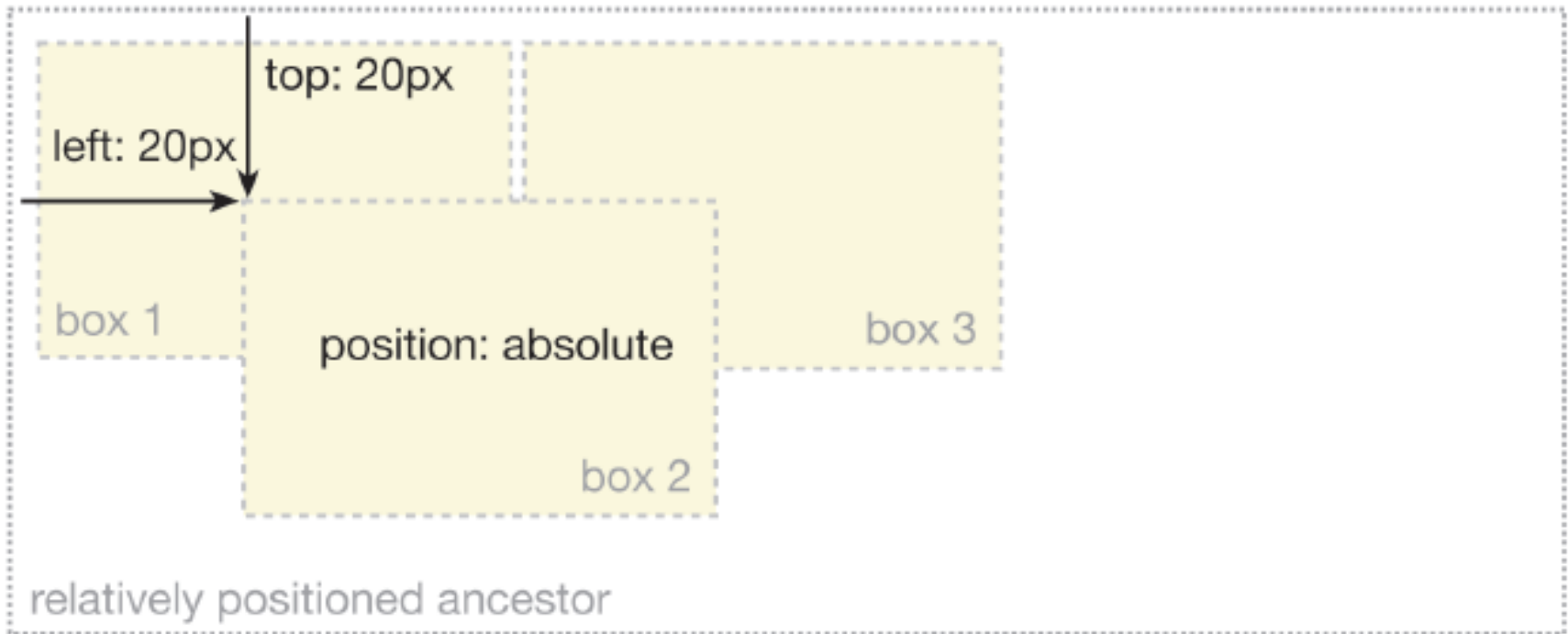


Lorem ipsum dolor sit amet, consectetur **adipiscing** Duis eget felis mollis, venenatis nunc non  
ornare nibh. venenatis nunc non, ornare nibh orem ipsum dolor sit amet

# Relative Position



# Absolute Position



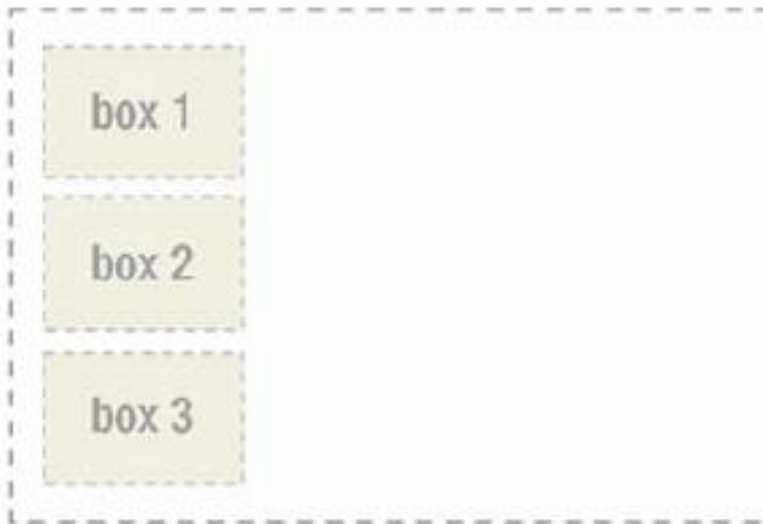
# Fixed Position



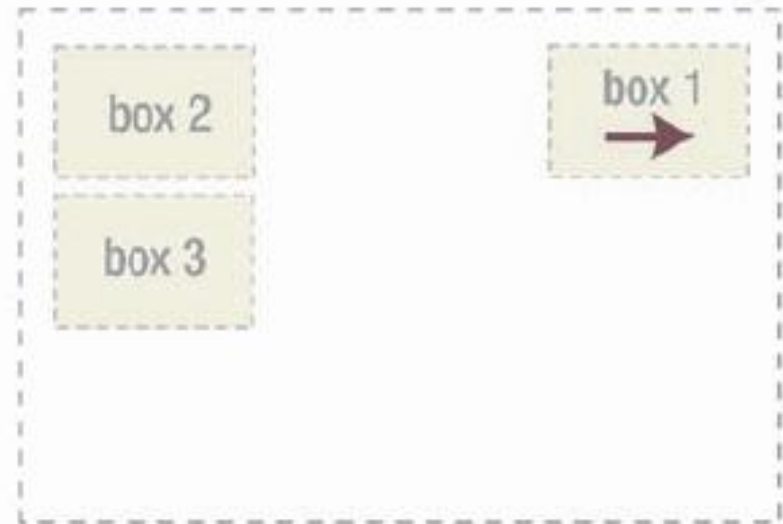


# Float

No Boxes Floated

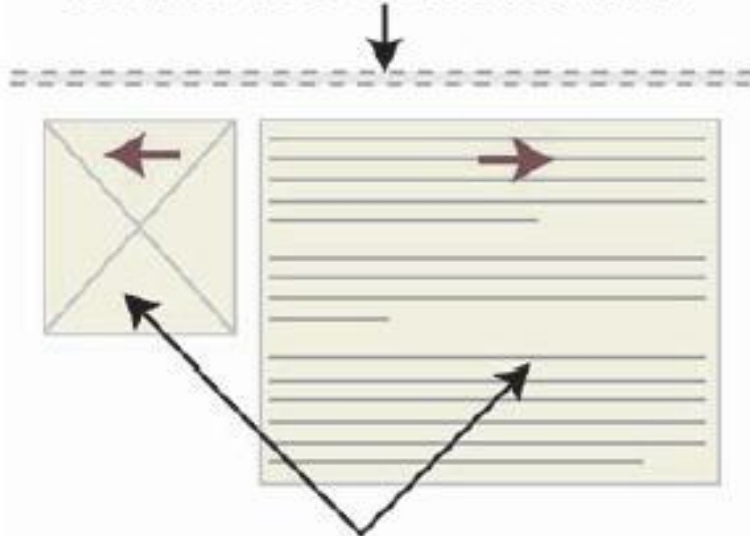


Box 1 Floated Right



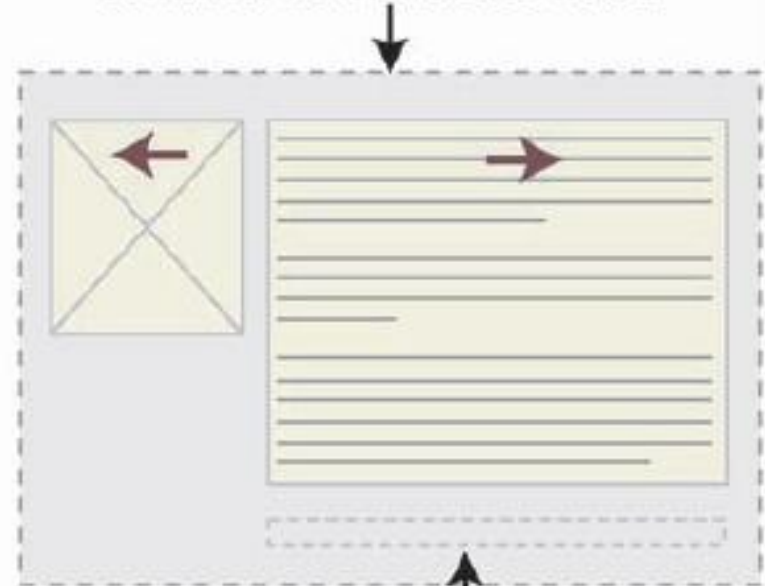
# Float

Container does not enclose floats.



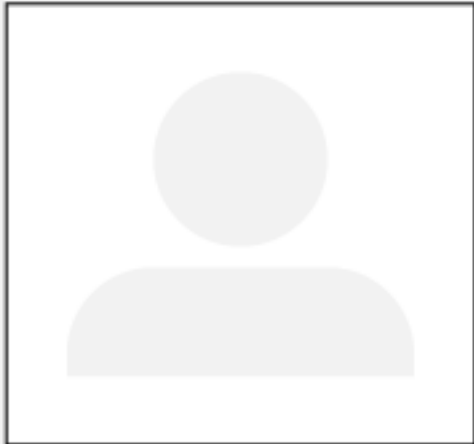
Floats take up no space.

Container now encloses floats.



Empty clearing div.

# Assignment



Your Full Name

Job Title

Telephone Number

Email Address

**Thanks**