HTML / CSS

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eSpace

Website layers

Behavior (JS)
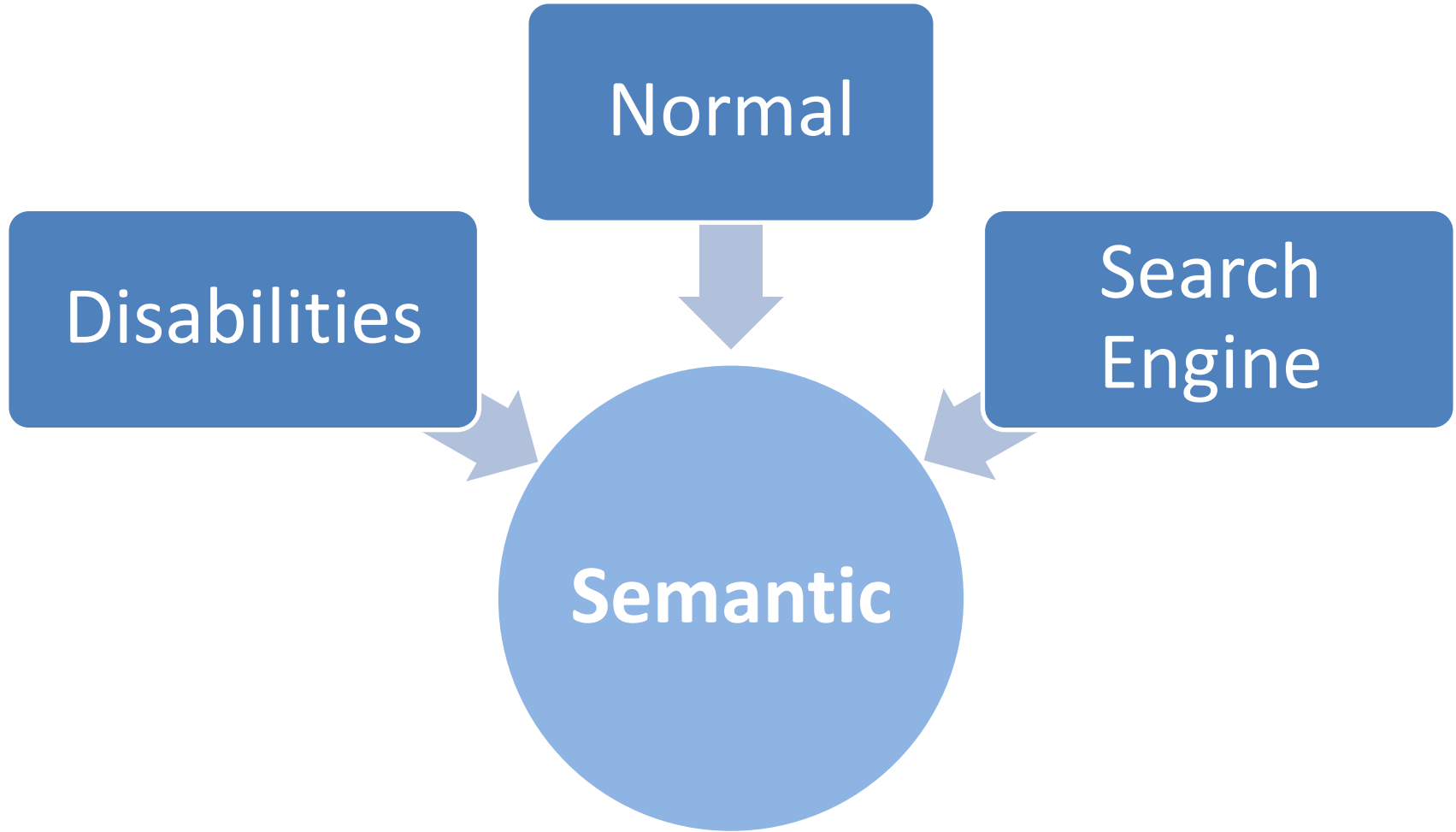
↑

Presentation (CSS)

↑

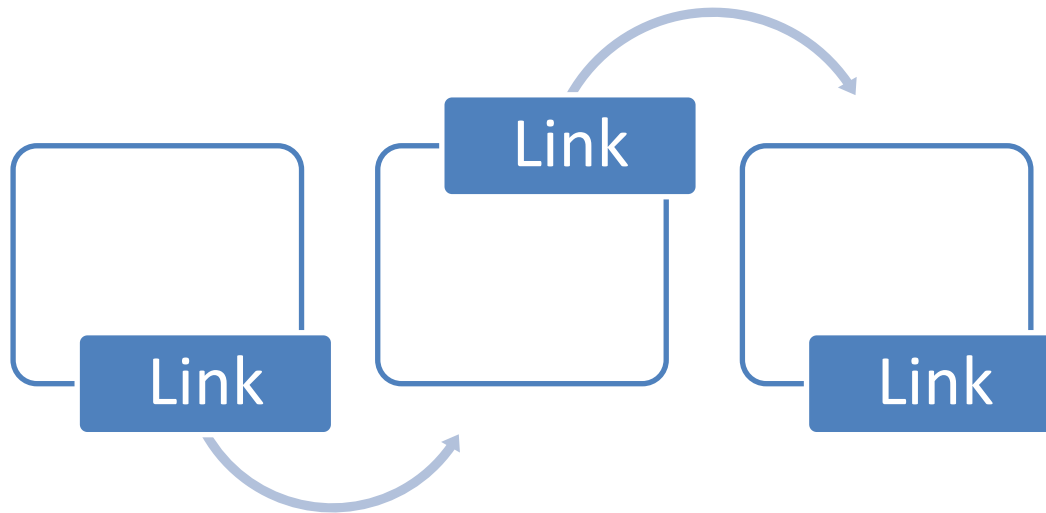Content (HTML)

Website Users
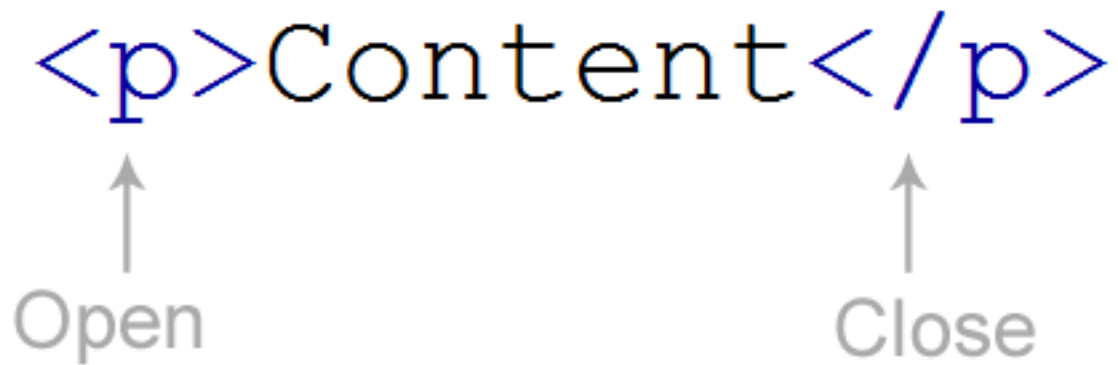
Normal

Disabilities

Search Engine

Semantic

eSpace

HTML

What is HTML?

Hyper Text Markup Language

Tags

<p>Content</p>

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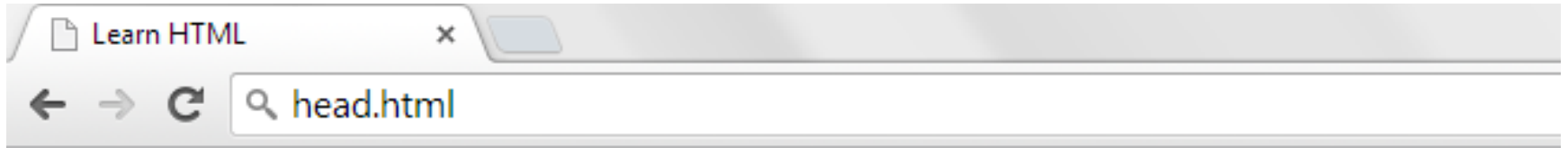
```html
<!DOCTYPE HTML>
<html>
  <head>
    <title>Learn HTML</title>
  </head>
  <body>
    <h1>My first page</h1>
    <p>Lorem ipsum dolor sit amet,
      consectetur adipiscing elit.
      ipsum dolor sit amet, consectetur
      adipiscing elit.</p>
  </body>
</html>
```
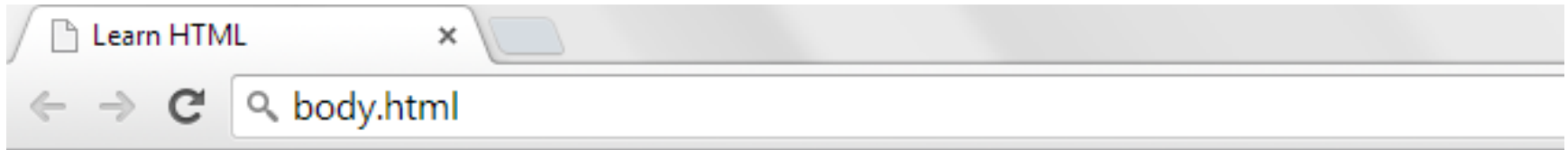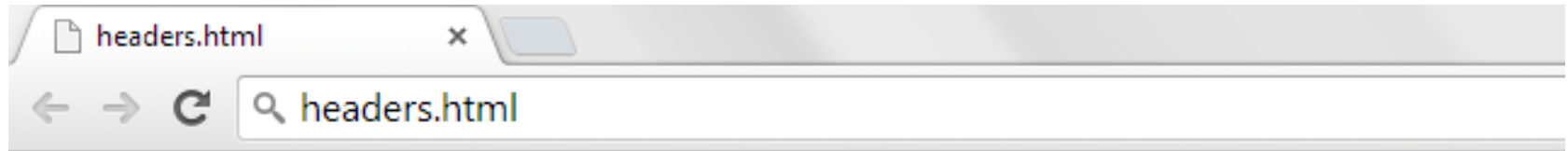
Preview

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

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>
```
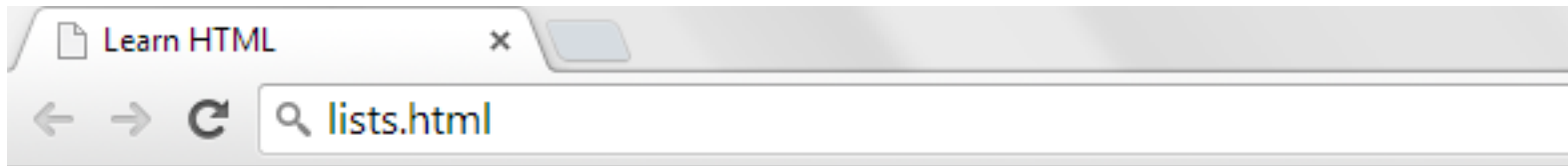
Preview

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

Div

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

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

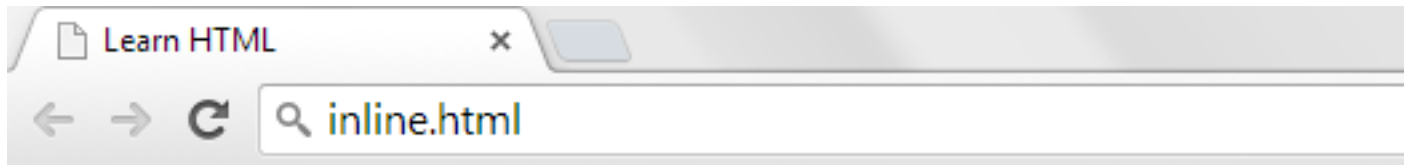# Preview

Block elements

BLOCK ELEMENTS EXPAND NATURALLY ⟶

AND NATURALLY DROP BELOW OTHER ELEMENTS

Inline elements

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

Preview

More Inline elements

```
<strong>Inline element</strong>
```

```
<em>Inline element</em>
```

```
<span>Inline element</span>
```

Preview

Attribute

```
<img src="../images/html.png" alt="HTML image">
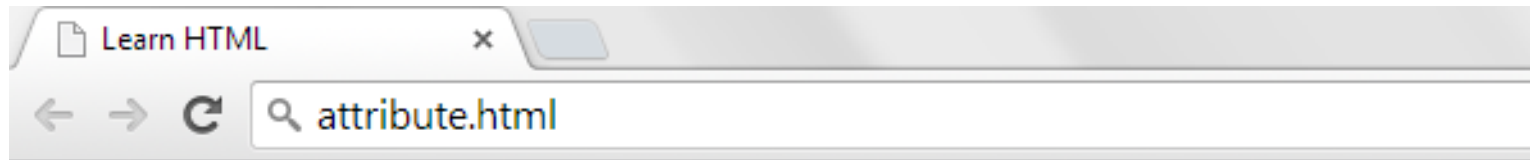```
         ↑                    ↑
       Name                Value

Add more info to tag
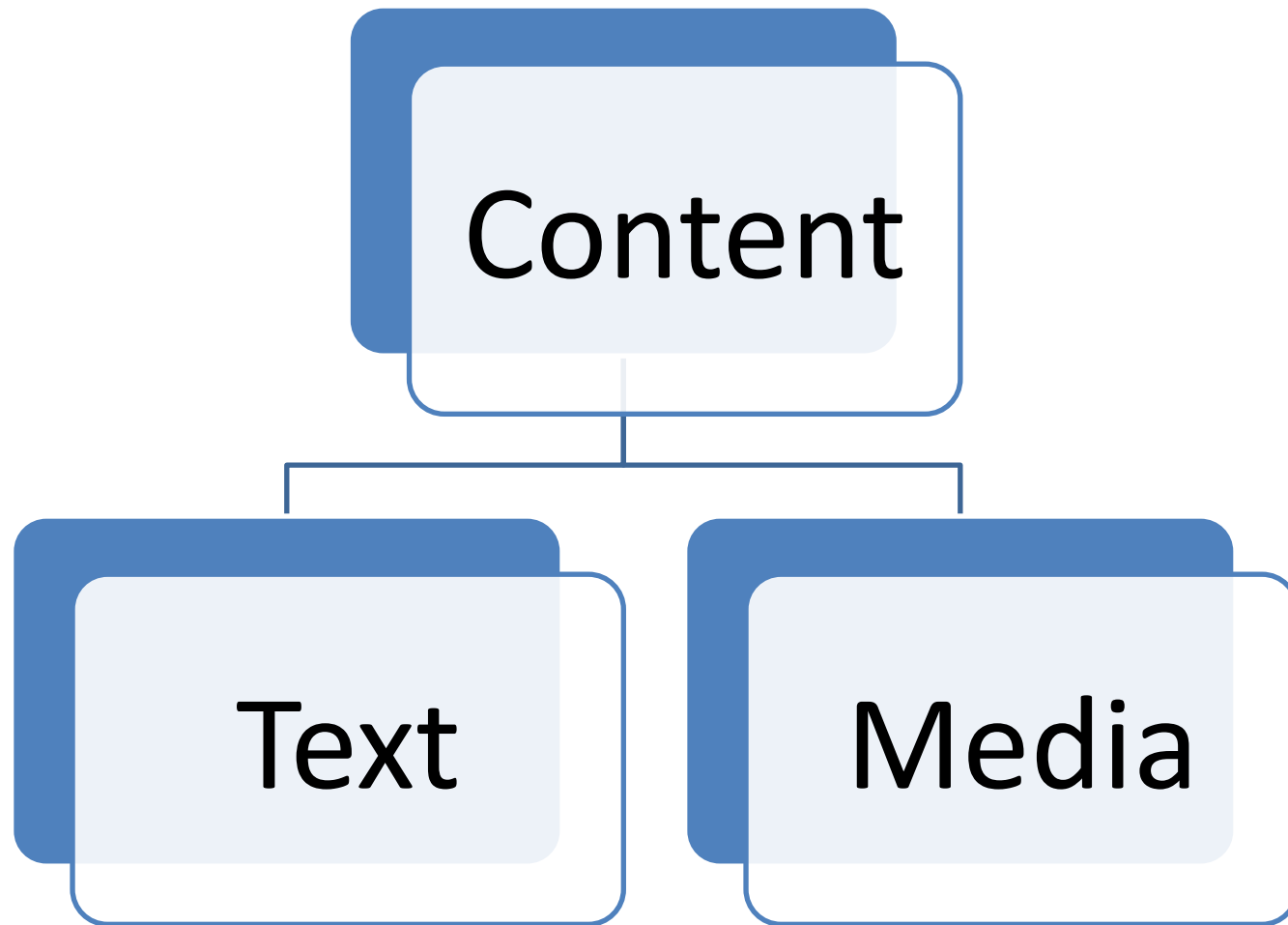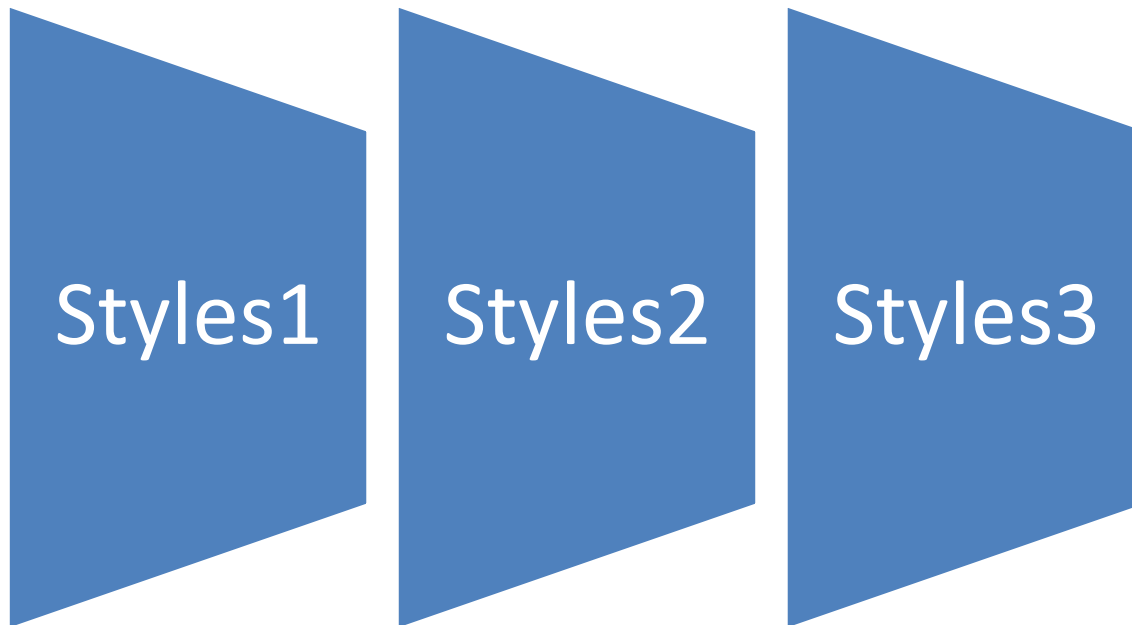
# Preview

# HTML 5 tags

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

<footer> ... </footer>

<aside> ... </aside>

<nav> ... </nav>

<section> ... </section>

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

Semantic

Content

Text

Media

CSS

What is CSS?

Cascading Style Sheets

Styles1   Styles2   Styles3

How to use it?

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

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

```html
<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

Selector — p {color:red;} — Declaration

Property — color, Value — red

Selectors

p	Element
.name	Class
#name	Id

Element Selector

```html
<h1>My first page</h1>
<p>Lorem ipsum dolor sit amet,
  consectetur adipiscing elit.
  ipsum dolor sit amet, consectetur
  adipiscing elit.</p>
```

```css
h1{color:red;}
p{font-size:20px;}
```
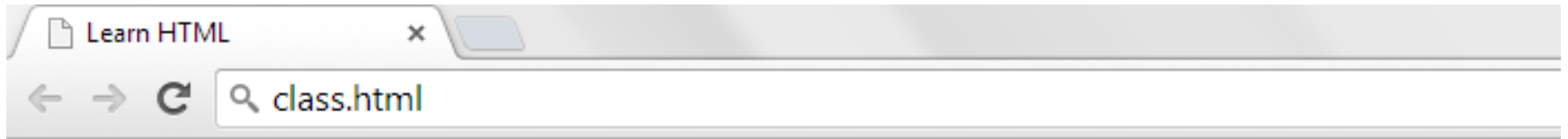
Preview

Class Selector
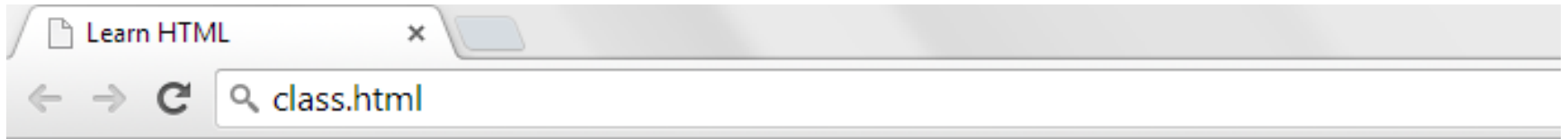
```html
<h1>My first page</h1>

<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>
```

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

Preview

ID Selector

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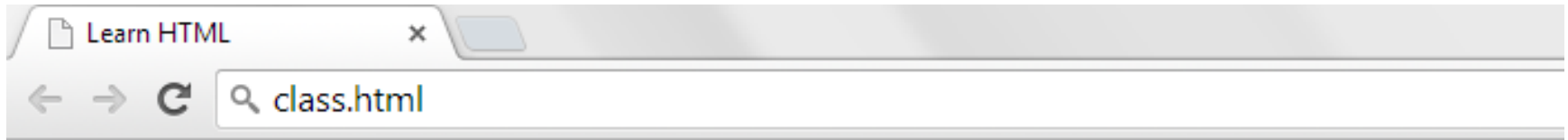
```css
h1{color:red;}
p{font-size:20px;}
#intro{color:green;}
```

Preview

2 Rules

```html
<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>
```

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

Preview

Specificity

1	Element
10	Class
100	Id

Class VS ID

Class

- Use a lot
- Lower specificity
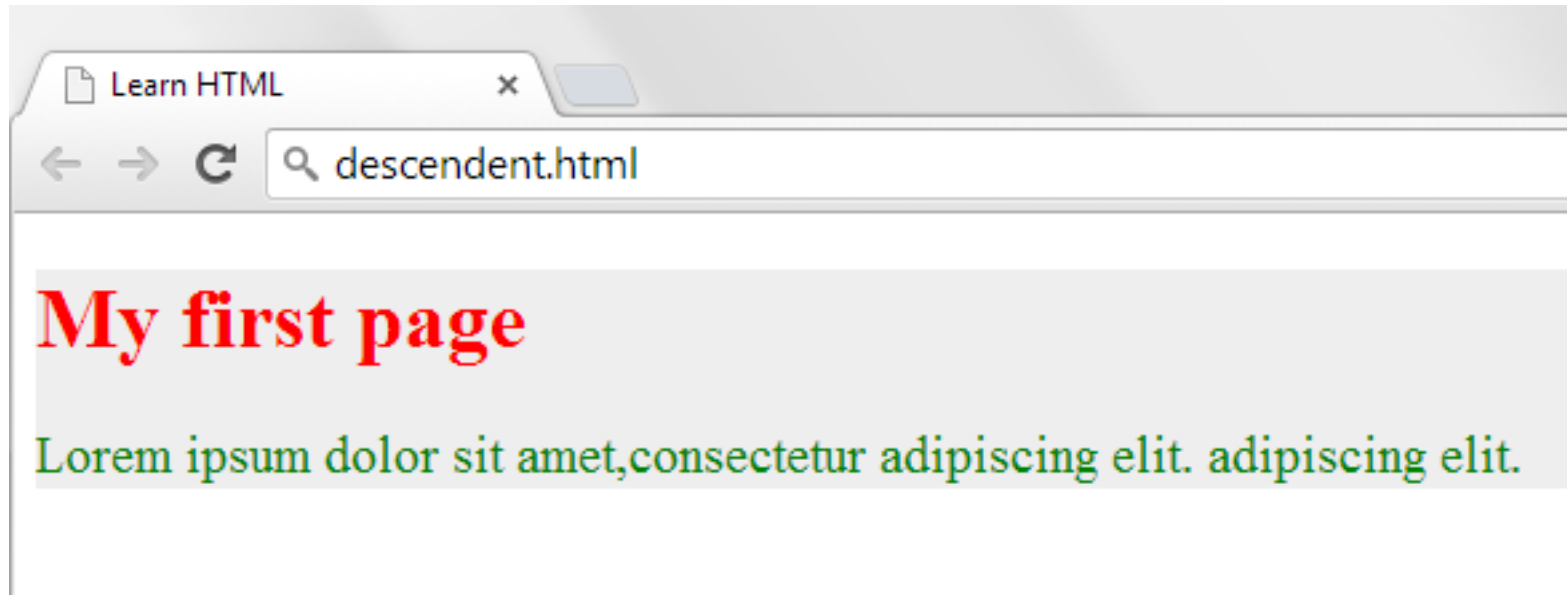
ID

- Use once
- Higher specificity

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Descendent Selector

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

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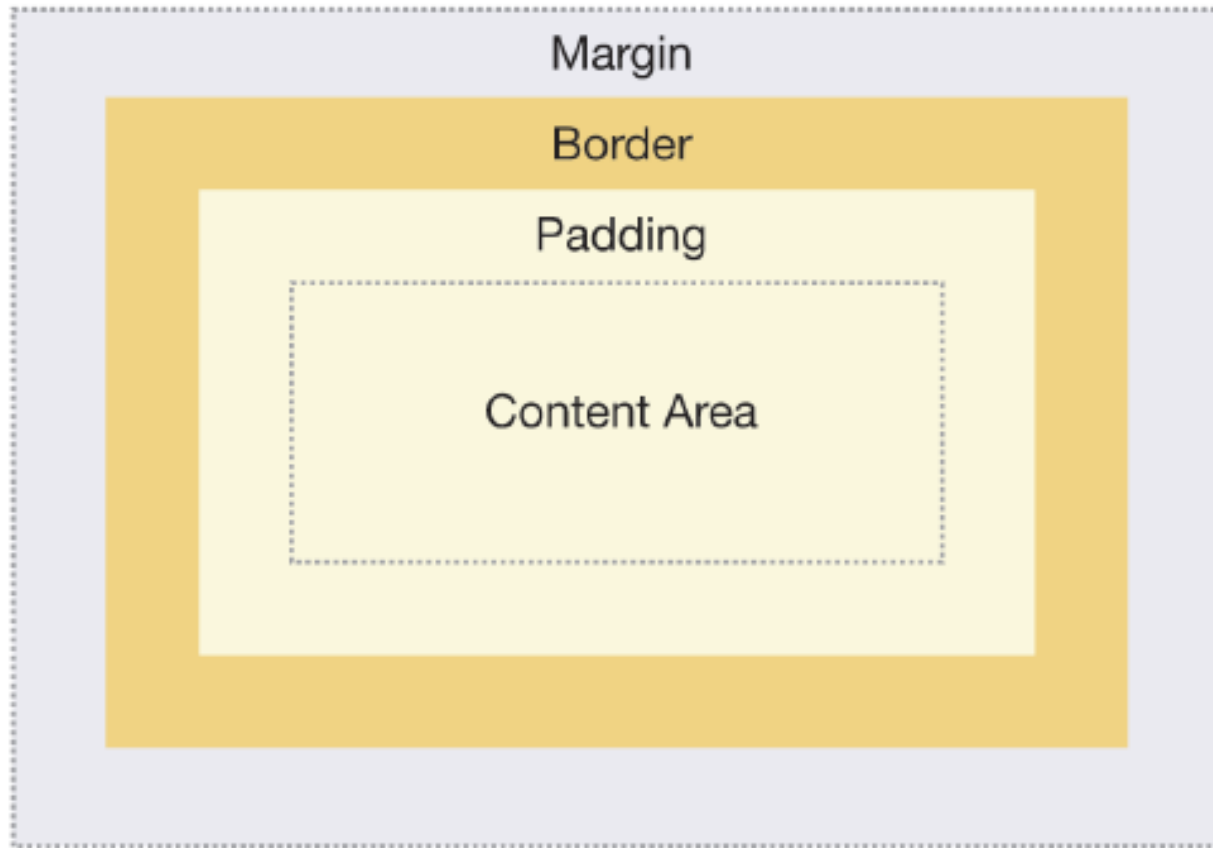
Preview

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>
```
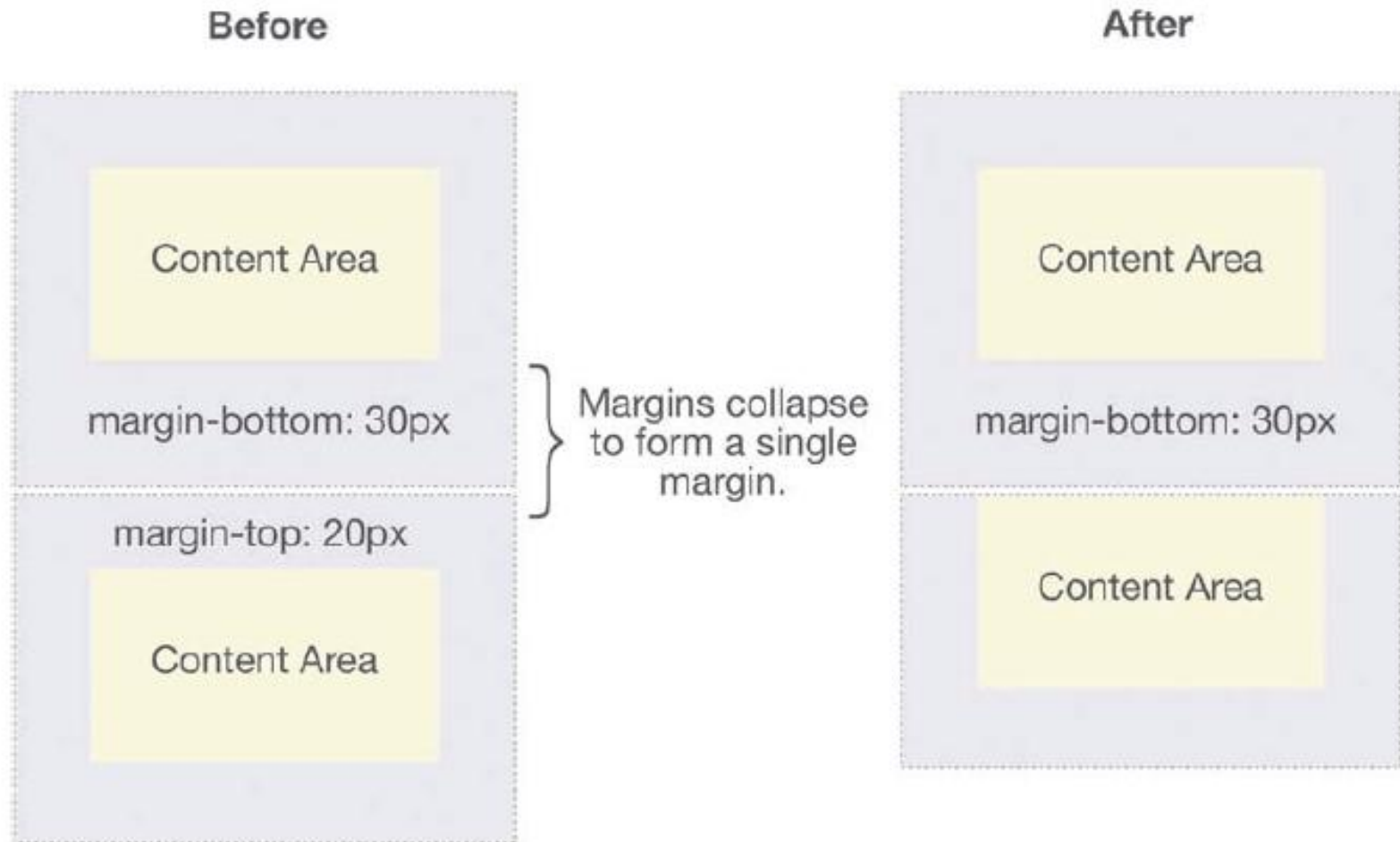
Box Model (Block)

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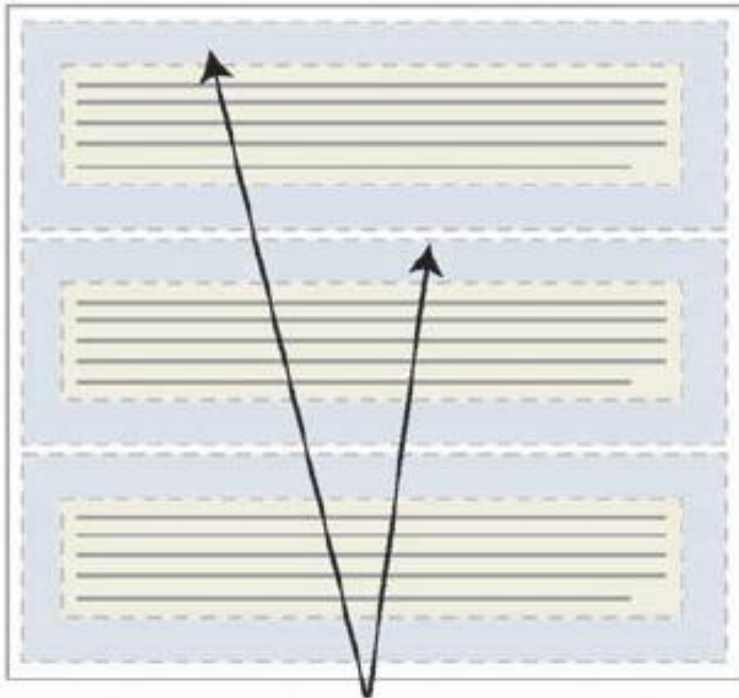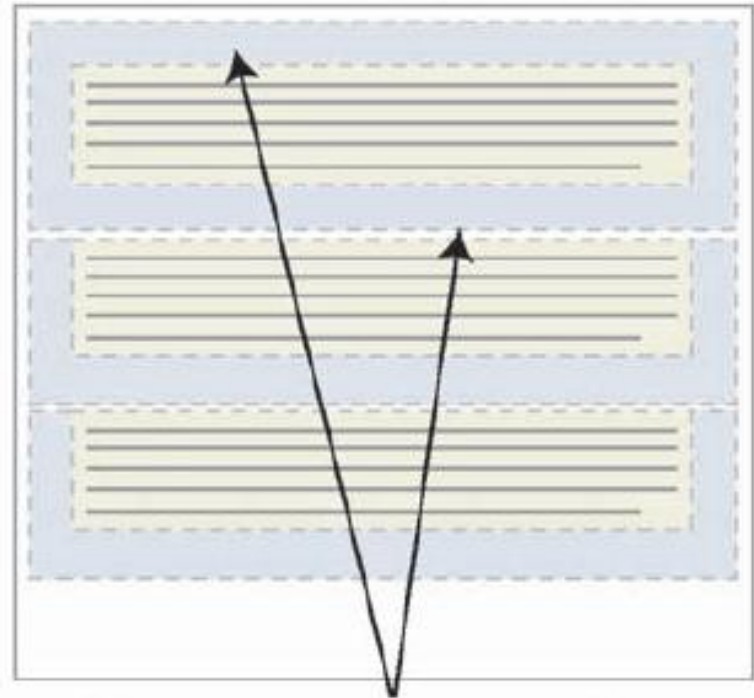
Preview

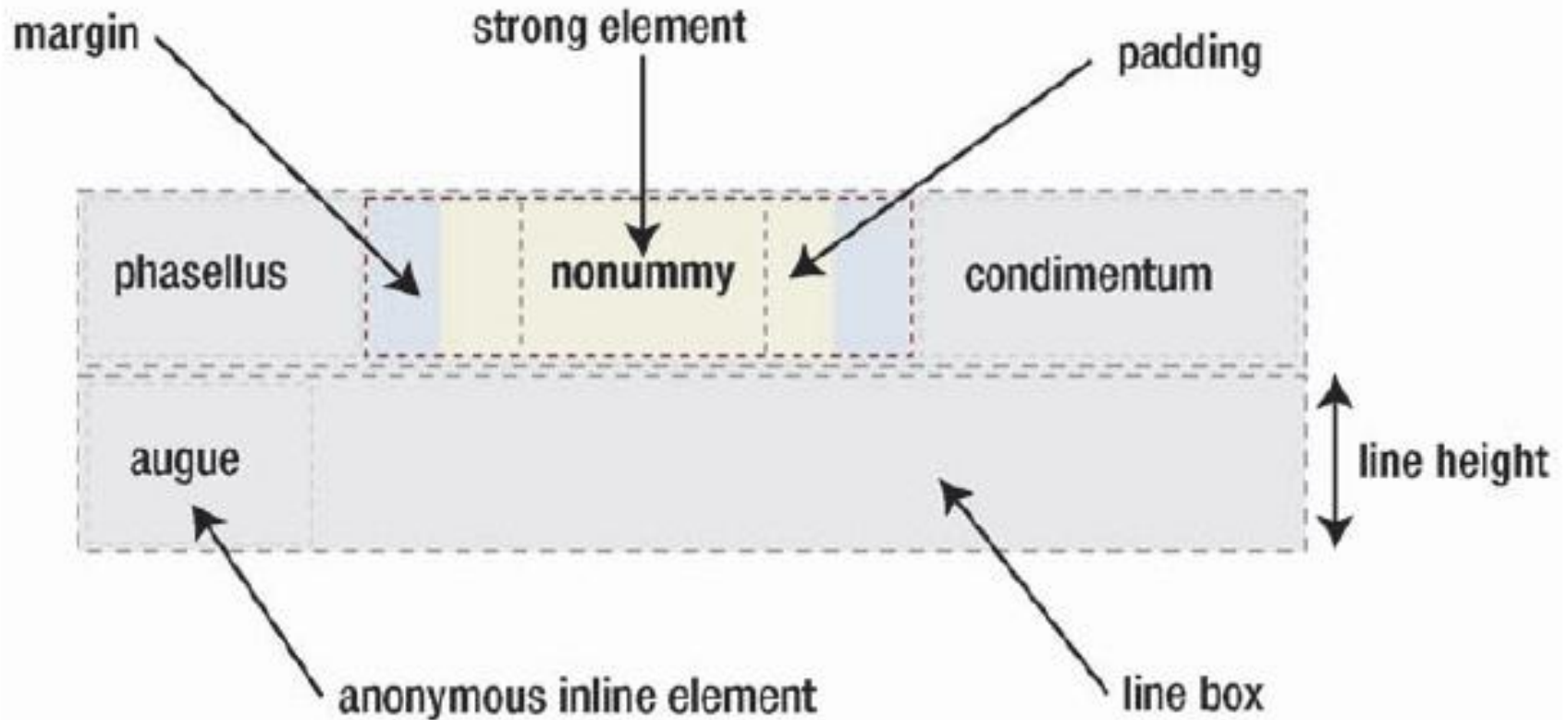# Margin collapse

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.
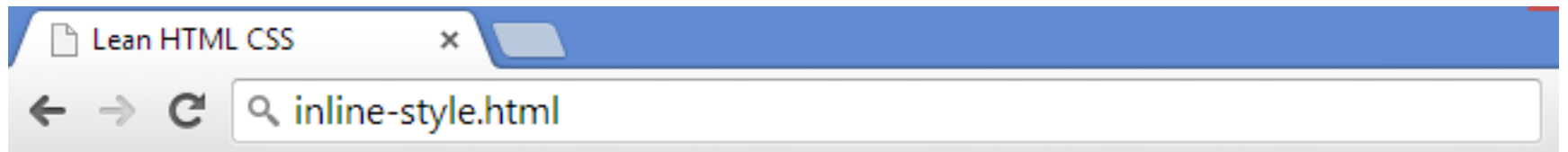
Box Model (Inline)

Box Model (Inline)

```html
<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>
```

```css
strong{
    padding:20px;
    margin:20px;
}
```
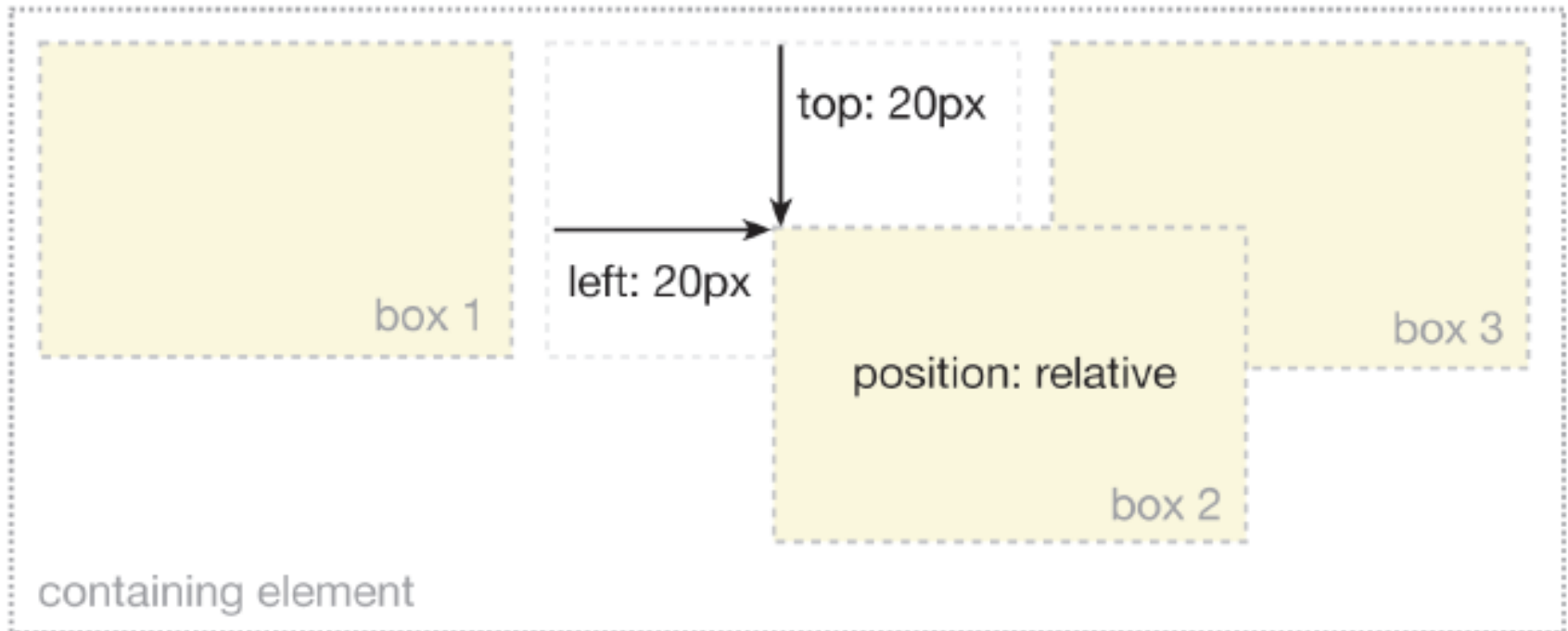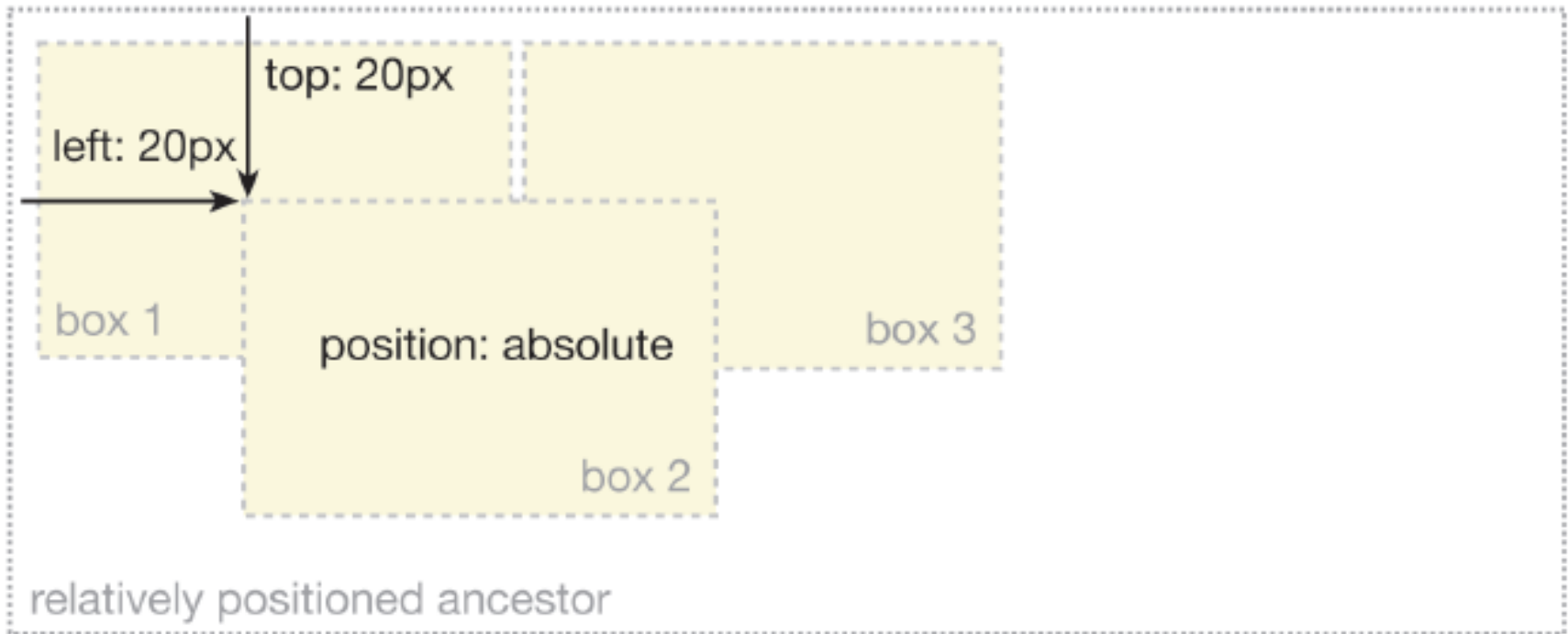
Preview
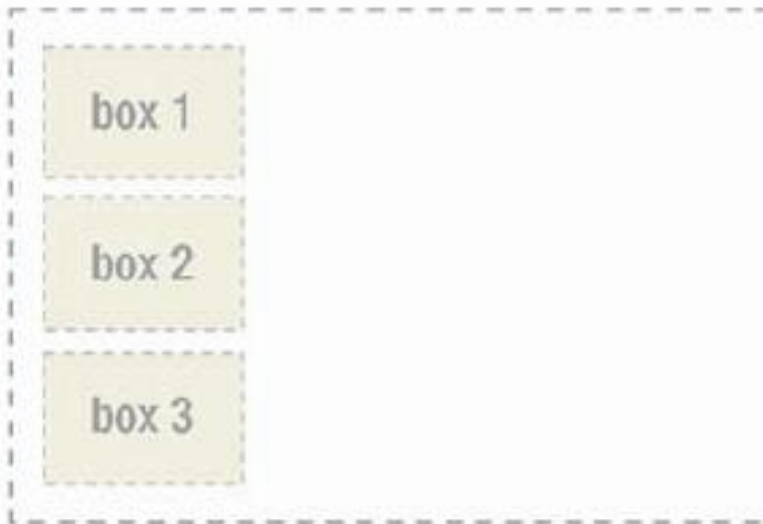
Relative Position

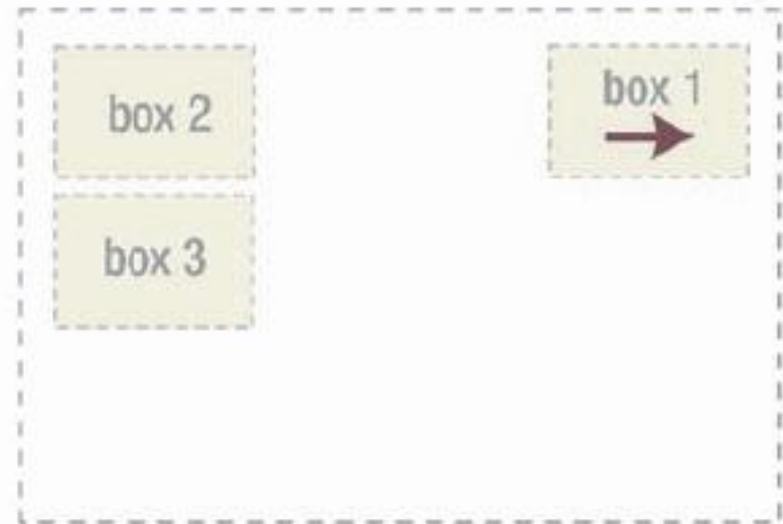# Absolute Position

Fixed Position
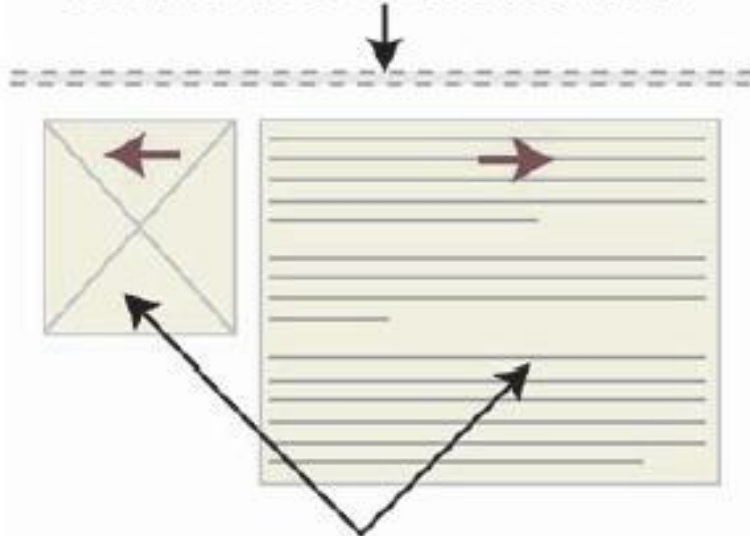
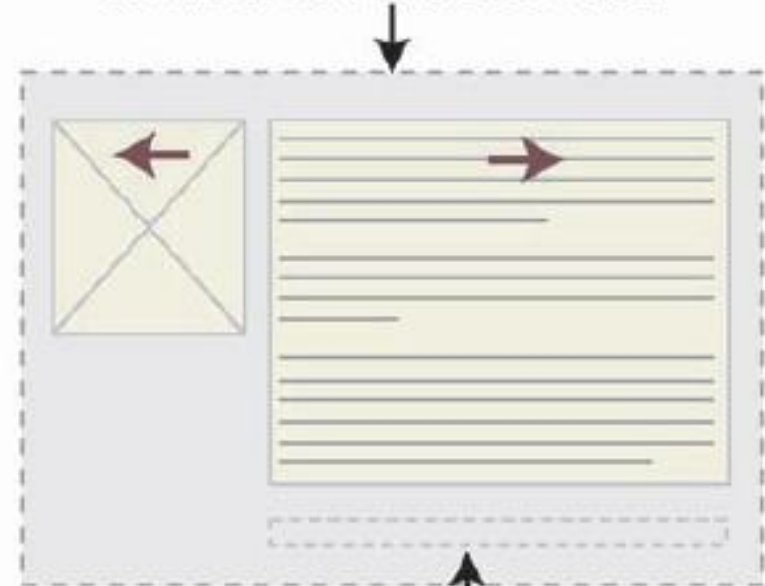# Float

No Boxes Floated

Box 1 Floated Right
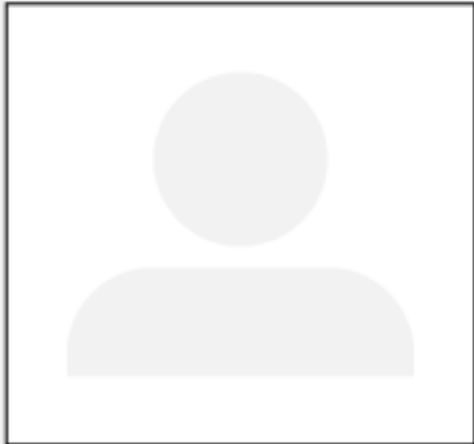
Float

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 Adress

Thanks