

# Styling the Web with CSS



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# Introduction

Where CSS came from

What it is

How you can create CSS





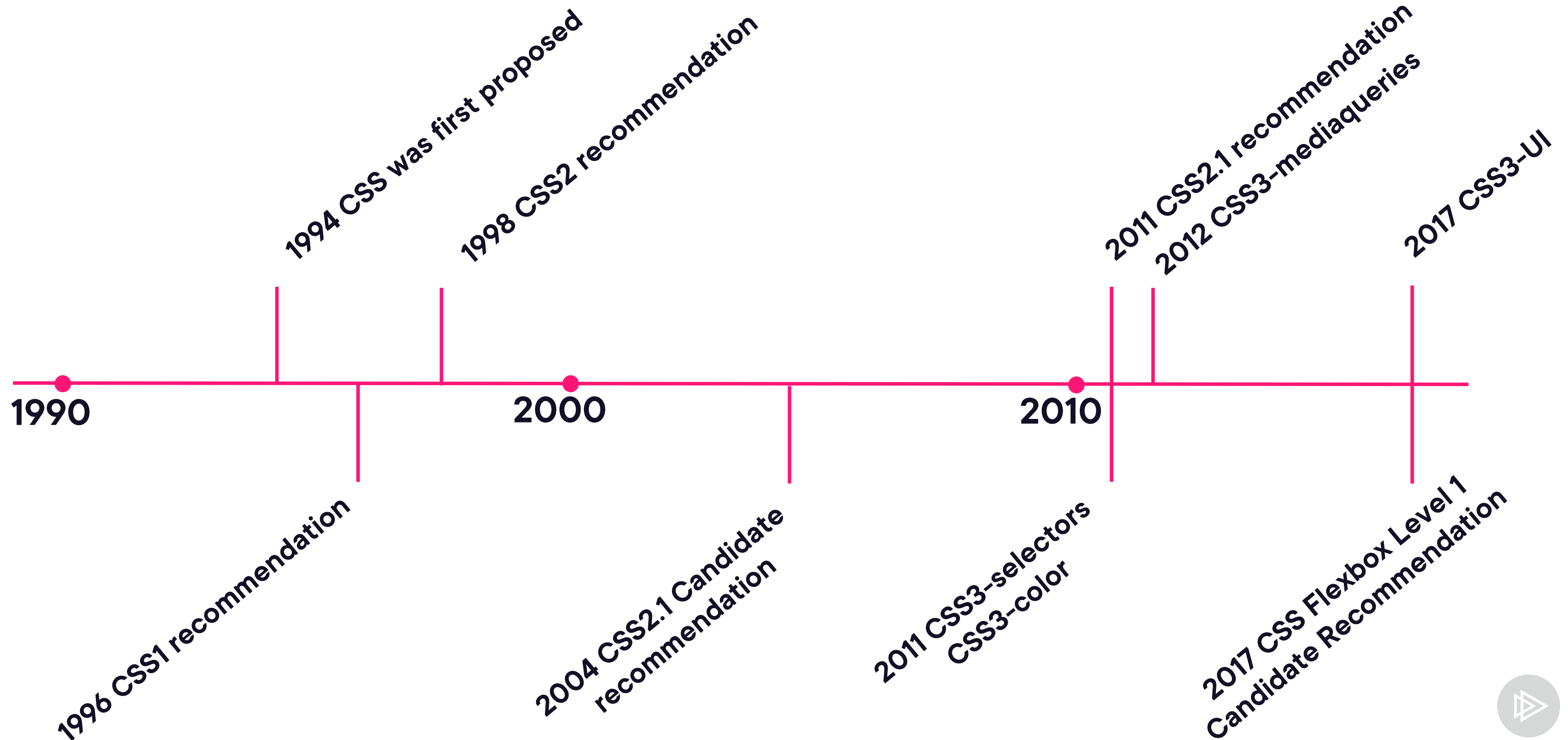
# Where Did CSS Come From?



**Cascading Style Sheets (CSS)**  
**is a style sheet language used**  
**for describing the presentation**  
**of a document written in a**  
**markup language.**



# History of CSS





# What Is CSS?



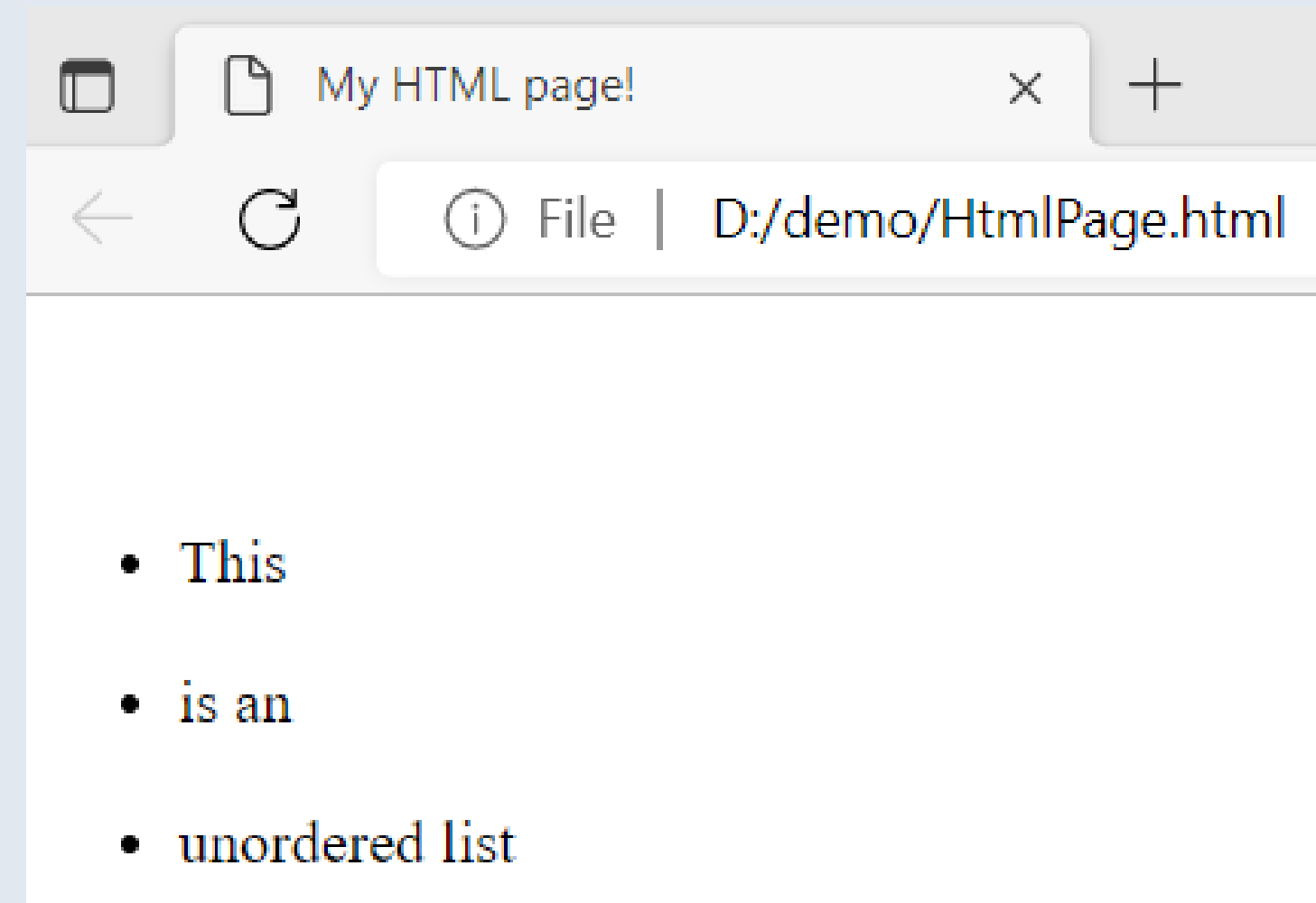
**CSS**  
**IS**  
**AWESOME**





# HTML Styling

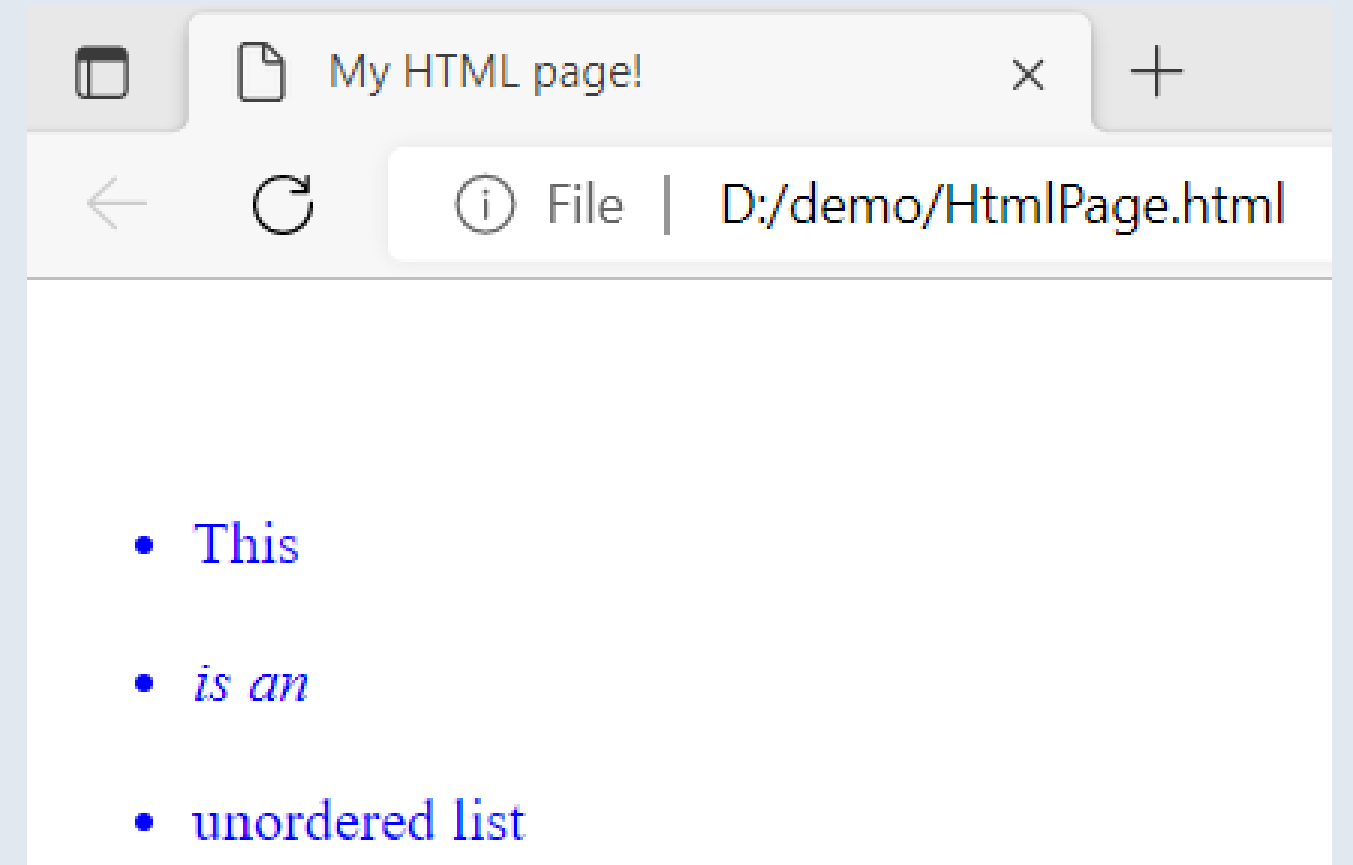
```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>My HTML page!</title>
</head>
<body>
  <div>
    <ul>
      <li>This</li>
      <li>is an</li>
      <li>unordered list</li>
    </ul>
  </div>
</body>
</html>
```



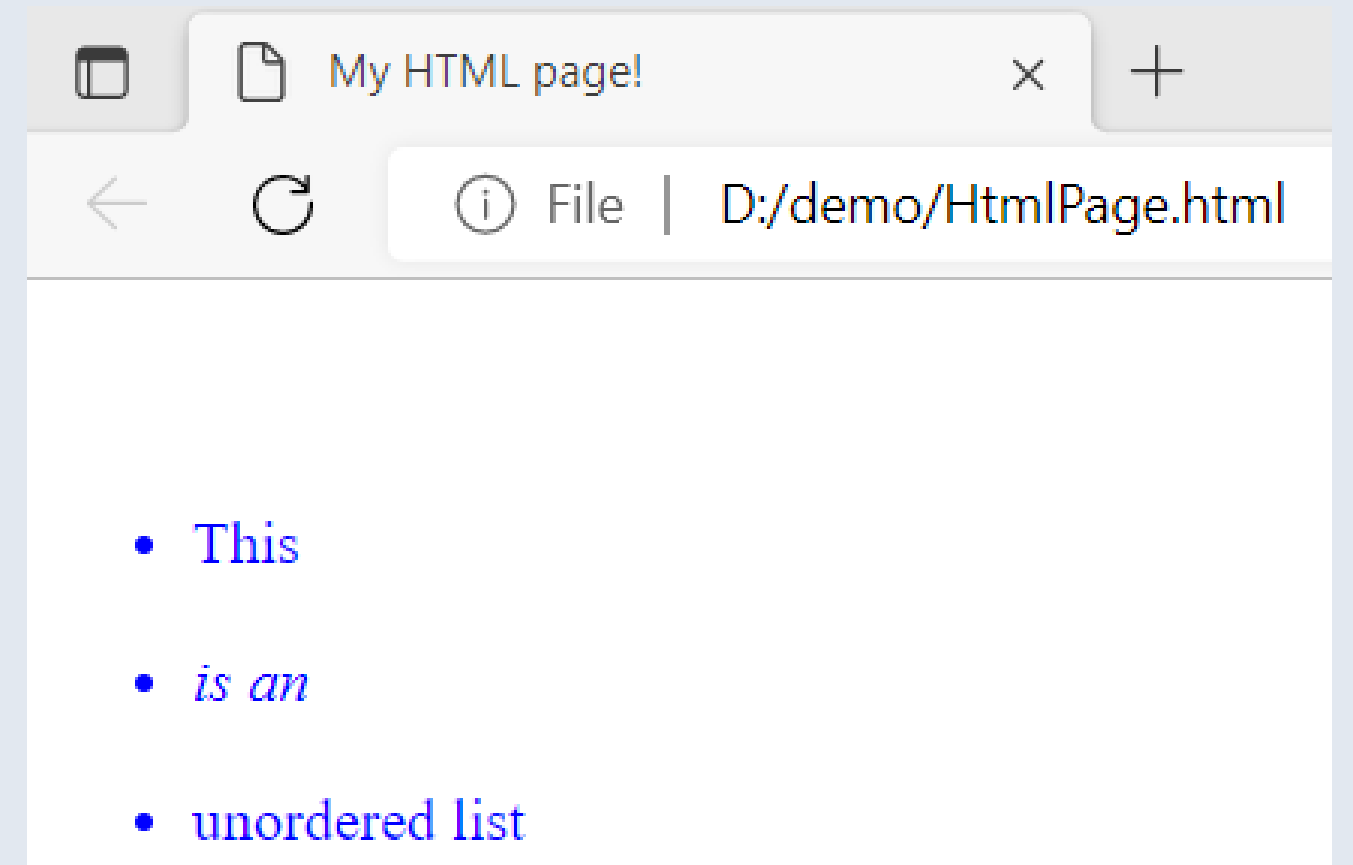


# HTML Styling

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>My HTML page!</title>
</head>
<body>
  <div style="color:blue">
    <ul>
      <li>This</li>
      <li style="font-style:italic">is an</li>
      <li>unordered list</li>
    </ul>
  </div>
</body>
</html>
```



```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>My HTML page!</title>
  <style>
    div {
      color: blue
    }
    .italic {
      font-style: italic
    }
  </style>
</head>
<body>
  <div>
    <ul>
      <li>This</li>
      <li class="italic">is an</li>
      <li>unordered list</li>
    </ul>
  </div>
</body>
</html>
```



# Using External CSS Files

## HTMLPage.html

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>My HTML page!</title>

  <link rel="stylesheet" href="StyleSheet.css">
</head>
<body>
  <div>
    <ul>
      <li>This</li>
      <li class="italic">is an</li>
      <li>unordered list</li>
    </ul>
  </div>
</body>
</html>
```

## StyleSheet.css

```
div {
  color: blue;
}

.italic {
  font-style: italic;
}
```



# Using External CSS Files

## HTMLPage.html

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>My HTML page!</title>

  <link rel="stylesheet" href="StyleSheet.css">
</head>
<body>
  <div>
    <ul>
      <li>This</li>
      <li class="italic">is an</li>
      <li>unordered list</li>
    </ul>
  </div>
</body>
</html>
```

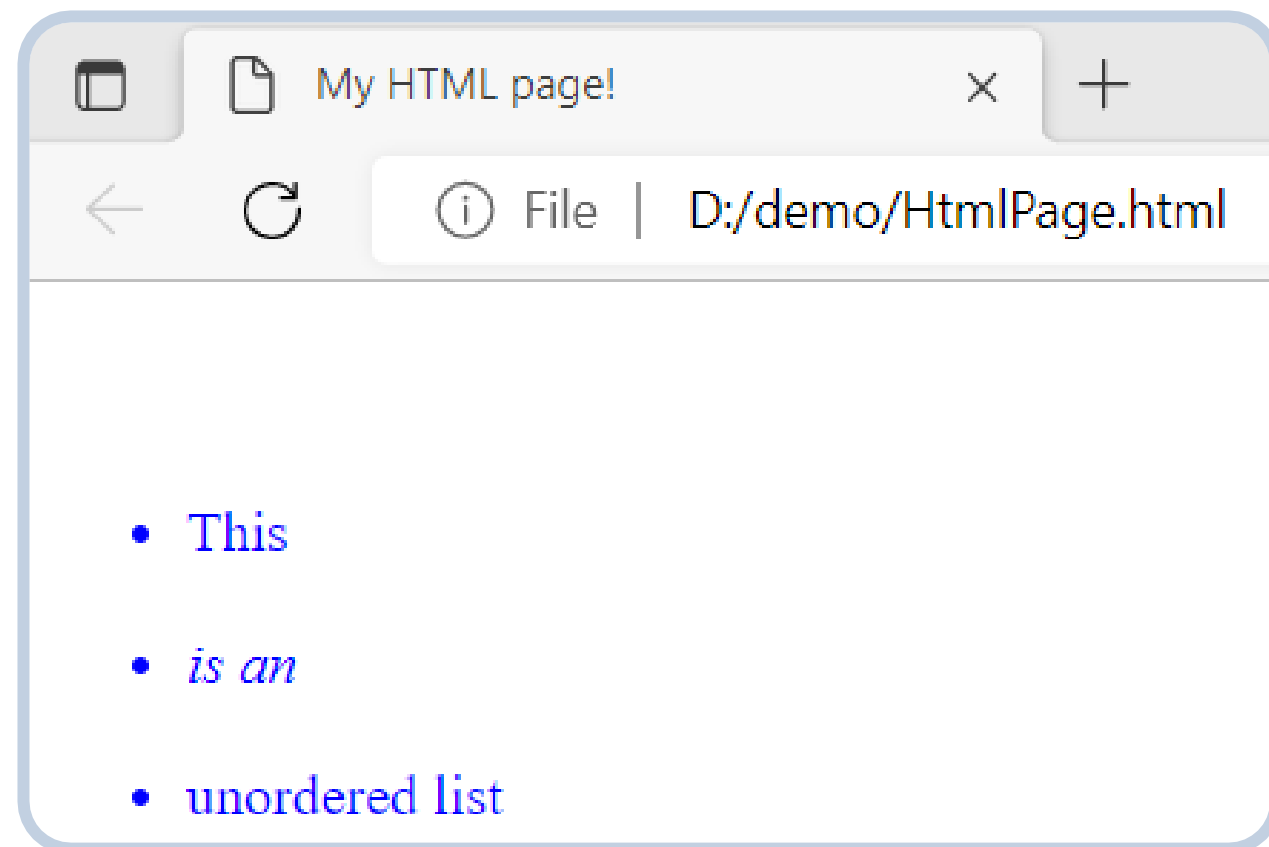
## About.html

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>My HTML page!</title>

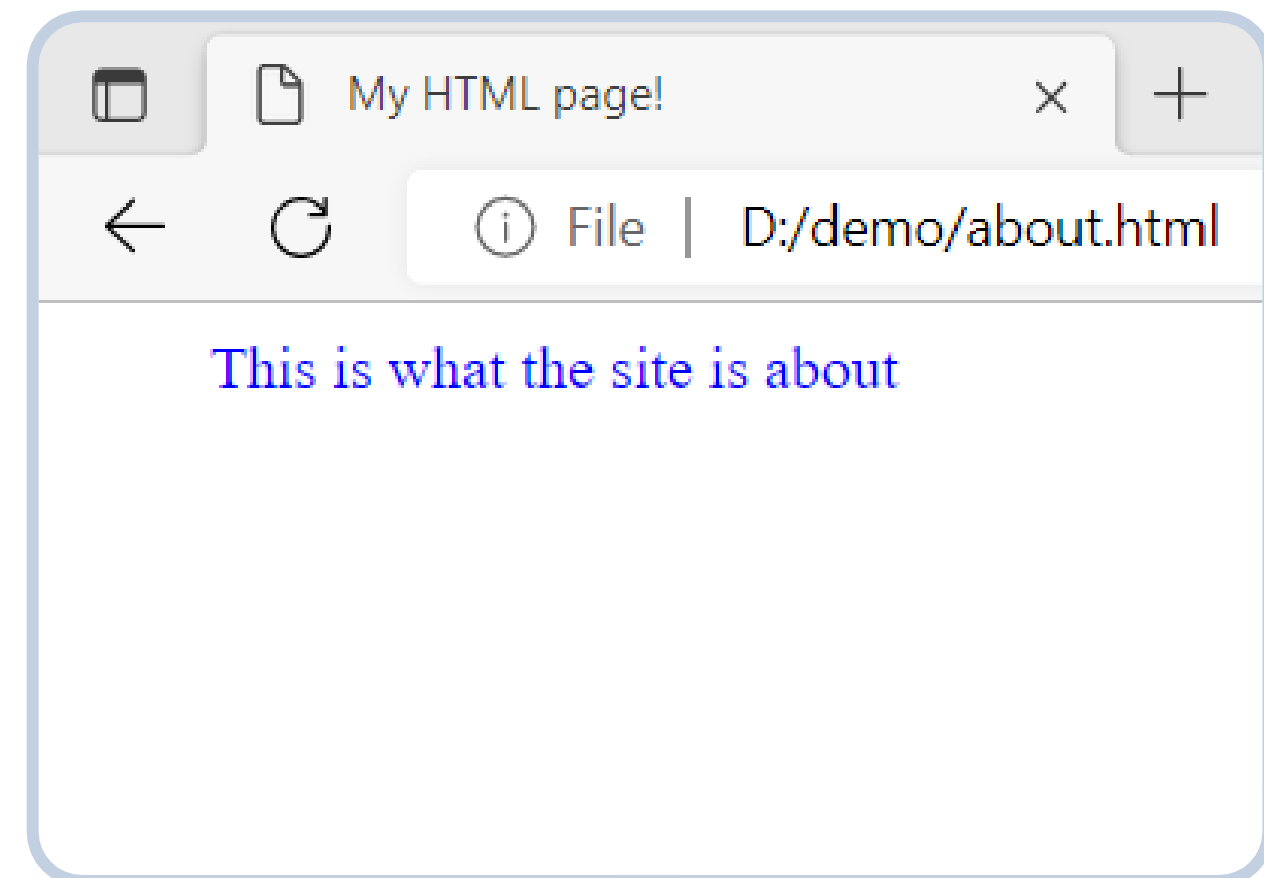
  <link rel="stylesheet" href="StyleSheet.css">
</head>
<body>
  <div>
    This is what the site is about
  </div>
</body>
</html>
```



## HTMLPage.html



## About.html



# CSS Syntax Selectors

```
div {  
  color: blue;  
}
```

```
.class1 {  
  color: blue;  
}
```

```
#para1 {  
  color: blue;  
}
```

```
div p {  
  text-align: center;  
  color: red;  
}
```

```
h1, h2, p {  
  text-align: center;  
  color: red;  
}
```



# CSS Priority

```
<p class="specific">Paragraph.</p>
```

```
<p class="specific" id="morespecific">Paragraph with id!</p>
```

```
#morespecific {  
  background-color: red;  
  border: 1px solid black;  
}
```

```
.specific {  
  background-color: gray;  
  border: none !important;  
}
```

```
p {  
  background-color: blue;  
  color: white;  
  padding: 5px;  
}
```

Paragraph.

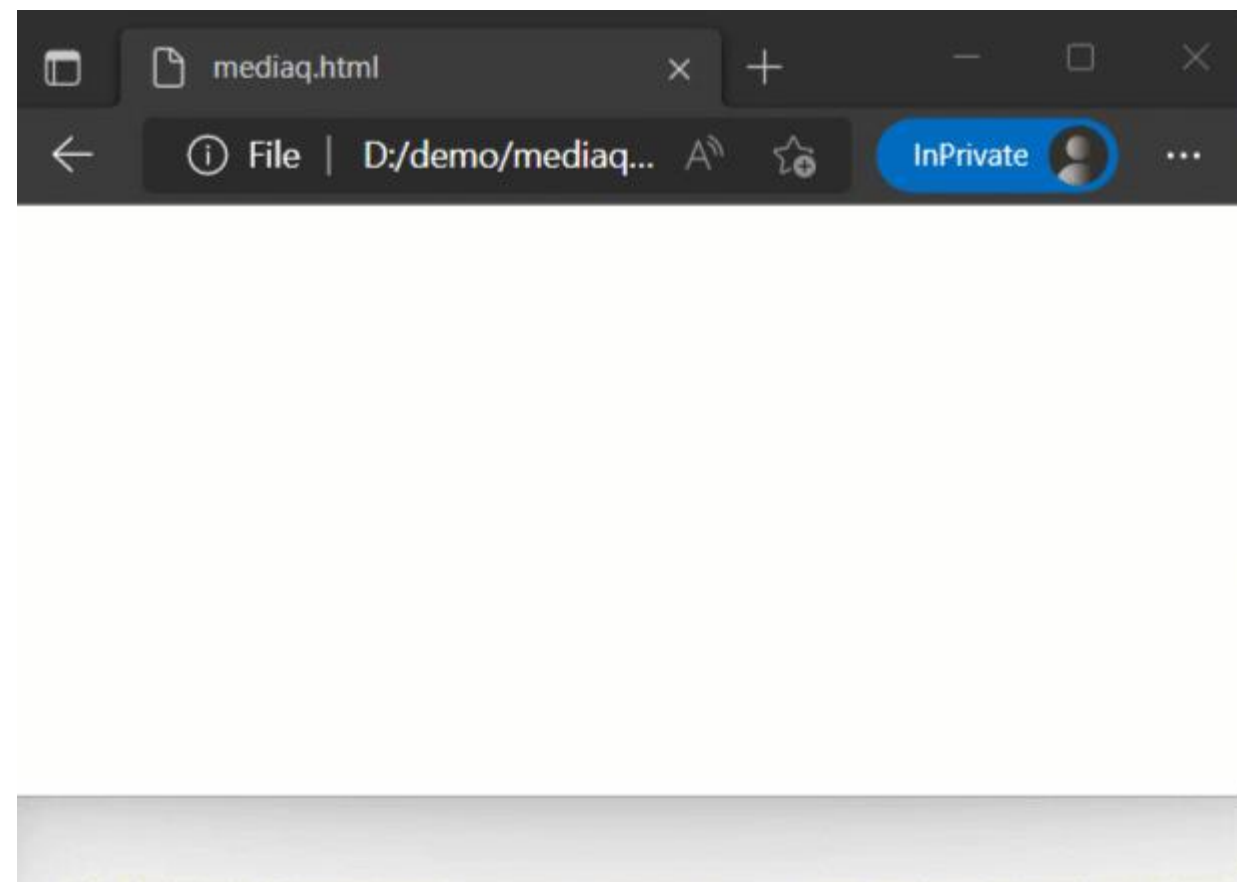
Paragraph with id!





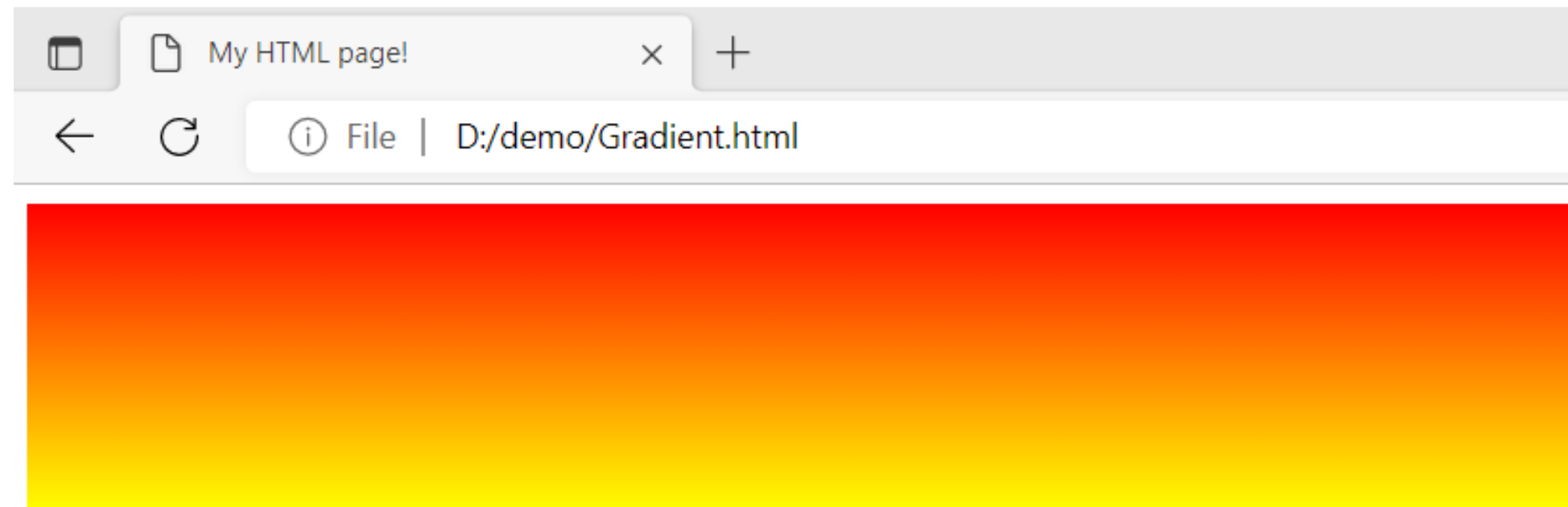
# Advanced CSS Syntax

```
@media screen and (min-width: 480px) {  
  body {  
    background-color: lightgreen;  
  }  
}
```



# Advanced CSS Syntax

```
#grad {  
  background: linear-gradient(red, yellow);  
}
```



# Browser Support of CSS Syntax

<https://caniuse.com/>

## CSS Repeating Gradients - CR

Method of defining a repeating linear or radial color gradient as a CSS image.

Usage	% of	all users	?
Global		98.49%	
unprefixed:		98.13%	

Current aligned Usage relative Date relative Filtered All 

[illegible]

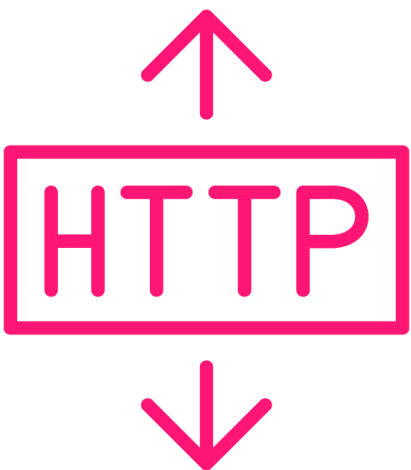
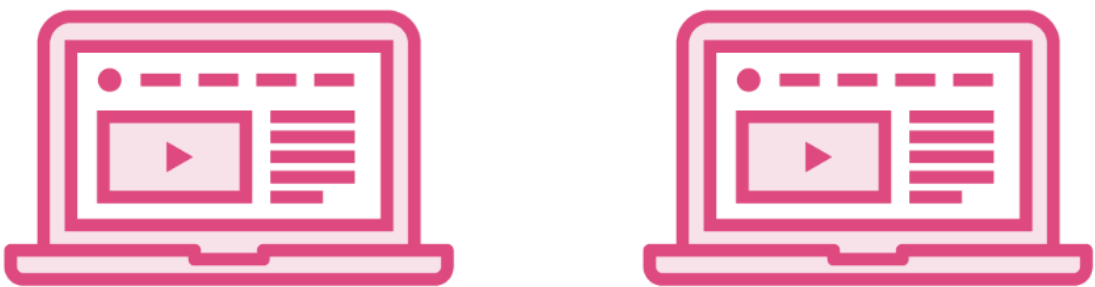


# Working with CSS



# Ingredients for the Web

Clients  
(Web browsers)



URL: `http://server.com/document1.html`  
`http://server.com/styleSheet.css`



Web Server



Document

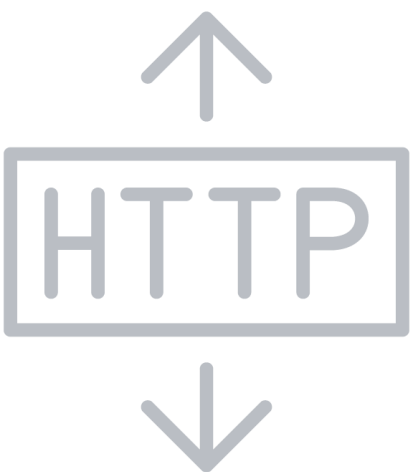


Style



# Ingredients for the Web

Clients  
(Web browsers)



URL: `http://server.com/document1.html`  
`http://server.com/styleSheet.css`



Web Server



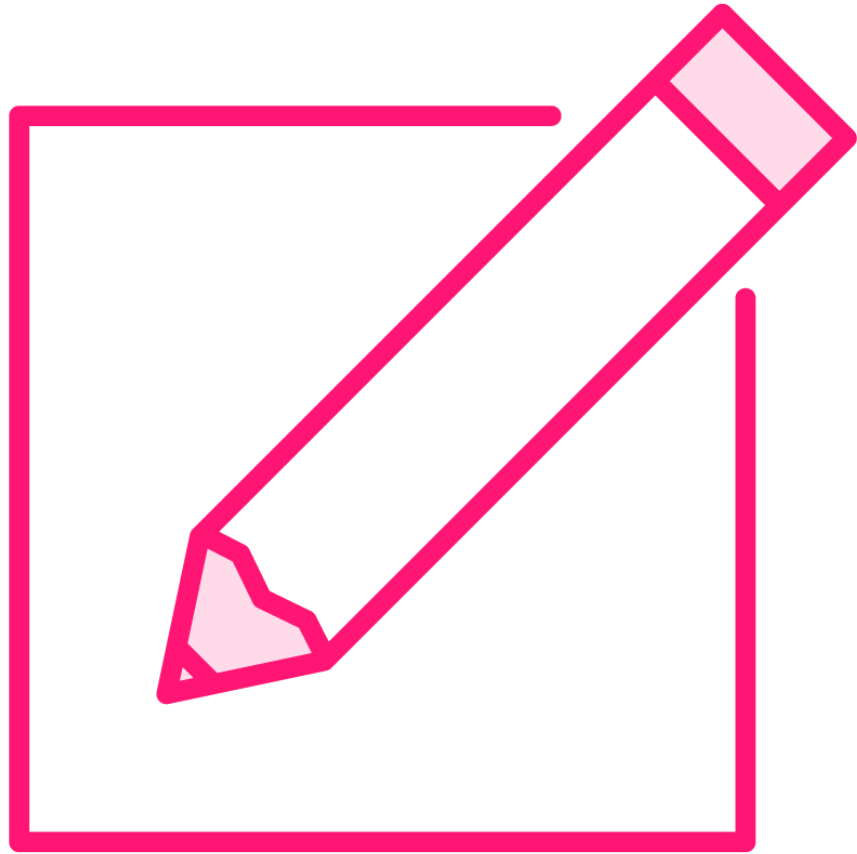
Document



Style

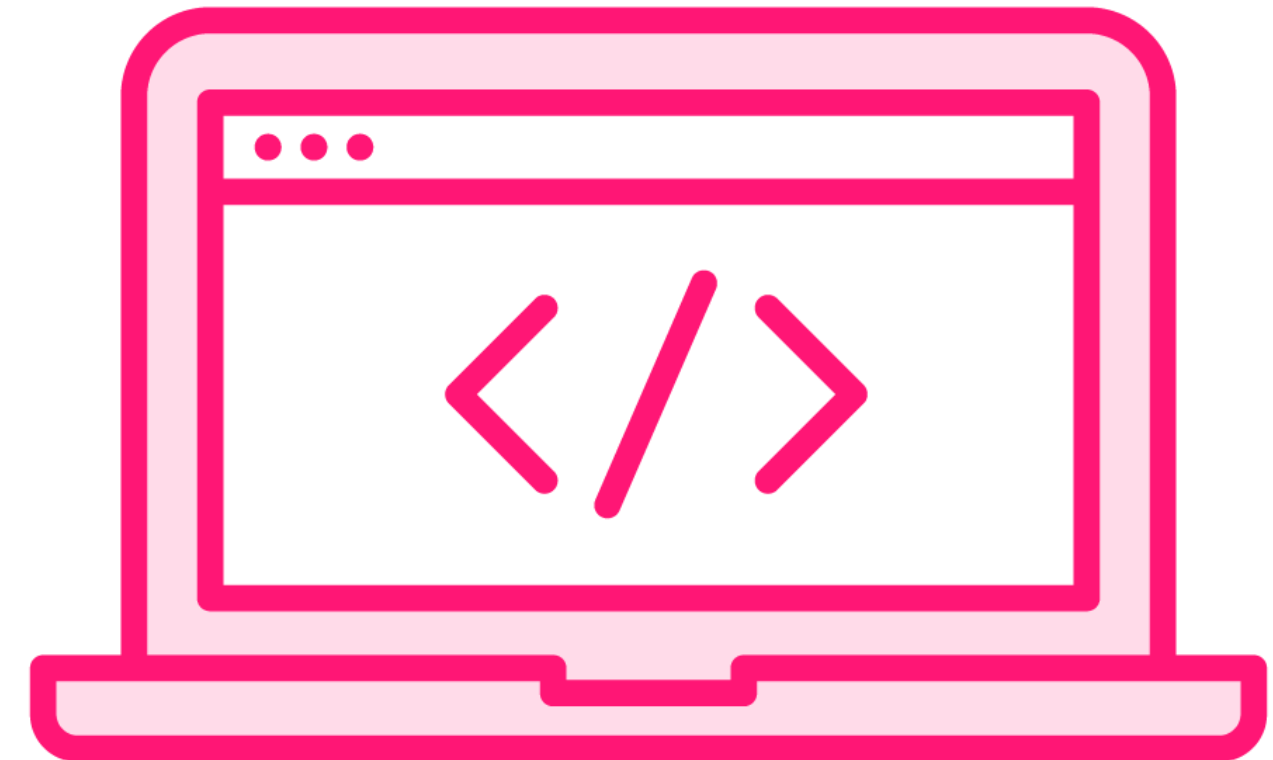


# How to Write CSS from Scratch



## Text editor

- Notepad
- Notepad++



## Integrated Development Environment (IDE)

- Visual Studio
- Eclipse
- Atom





# CSS Libraries

Bootstrap

Hamburger.css

Font-Awesome

Ionic

Materialize



# CSS Libraries Example

## Bootstrap

```
<html>
  <head>
    <meta charset="utf-8" />
    <link rel="stylesheet"
      href="https://ajax.aspnetcdn.com/ajax/bootstrap/3.3.6/css/bootstrap.min.css" />

  <div class="row">
    <div class="col-md-4">

    </div>

    <div class="col-md-4">

    </div>
  </div>
```

### Cookies!

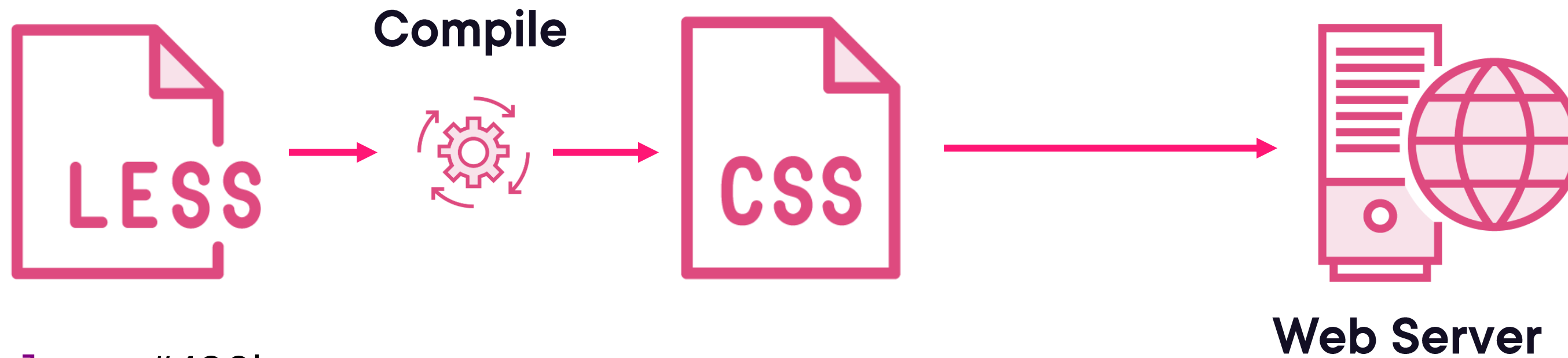
- We love all cookies!
- Chocolate Cookie,
- Butter Cookie,
- Macaroons
- You name it, we love them!

### Register

- Register your store to order cookies



# CSS Preprocessors



```
@color: #428bca;
```

```
a {  
    color: @color;  
}  
  
.otherthing {  
    color: @color;  
}
```

```
a {  
    color: #428bca;  
}  
  
.otherthing {  
    color: #428bca;  
}
```



## Things to Remember

**CSS is the styling mechanism for the web**

**It is a standard of selectors, properties and attributes**

- Interpreted by web browsers

**CSS separates style from content**

- Maintainable
- Reusable

**CSS provides many properties**

- Evolving towards mobile and animations

**You can use CSS**

- By writing it from scratch
- By using a library (Bootstrap)
- By writing it using a preprocessor (LESS)

