

# **Styling the Web with CSS**



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# Introduction

**Where CSS came from**

**What it is**

**How you can create CSS**





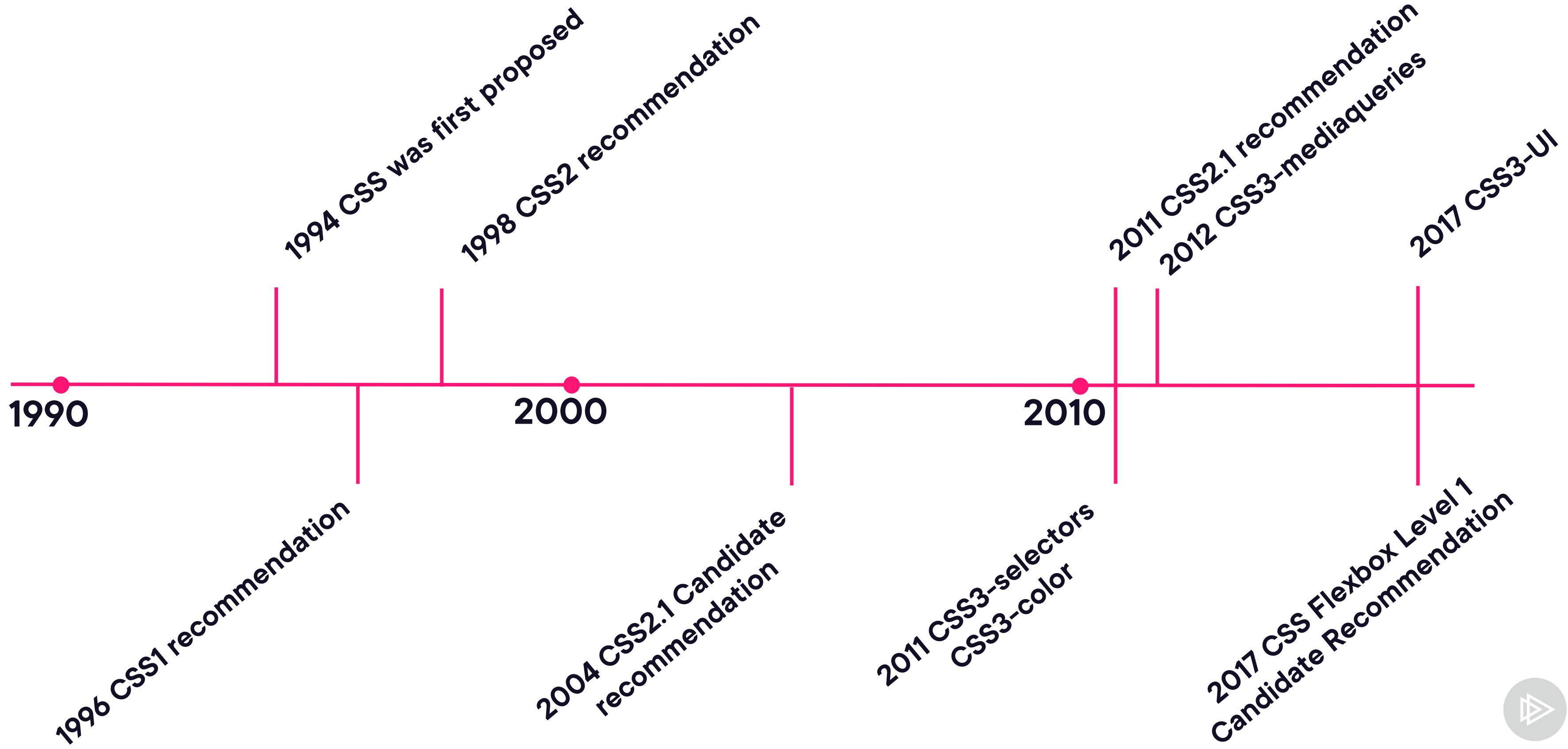
# Where Did CSS Come From?

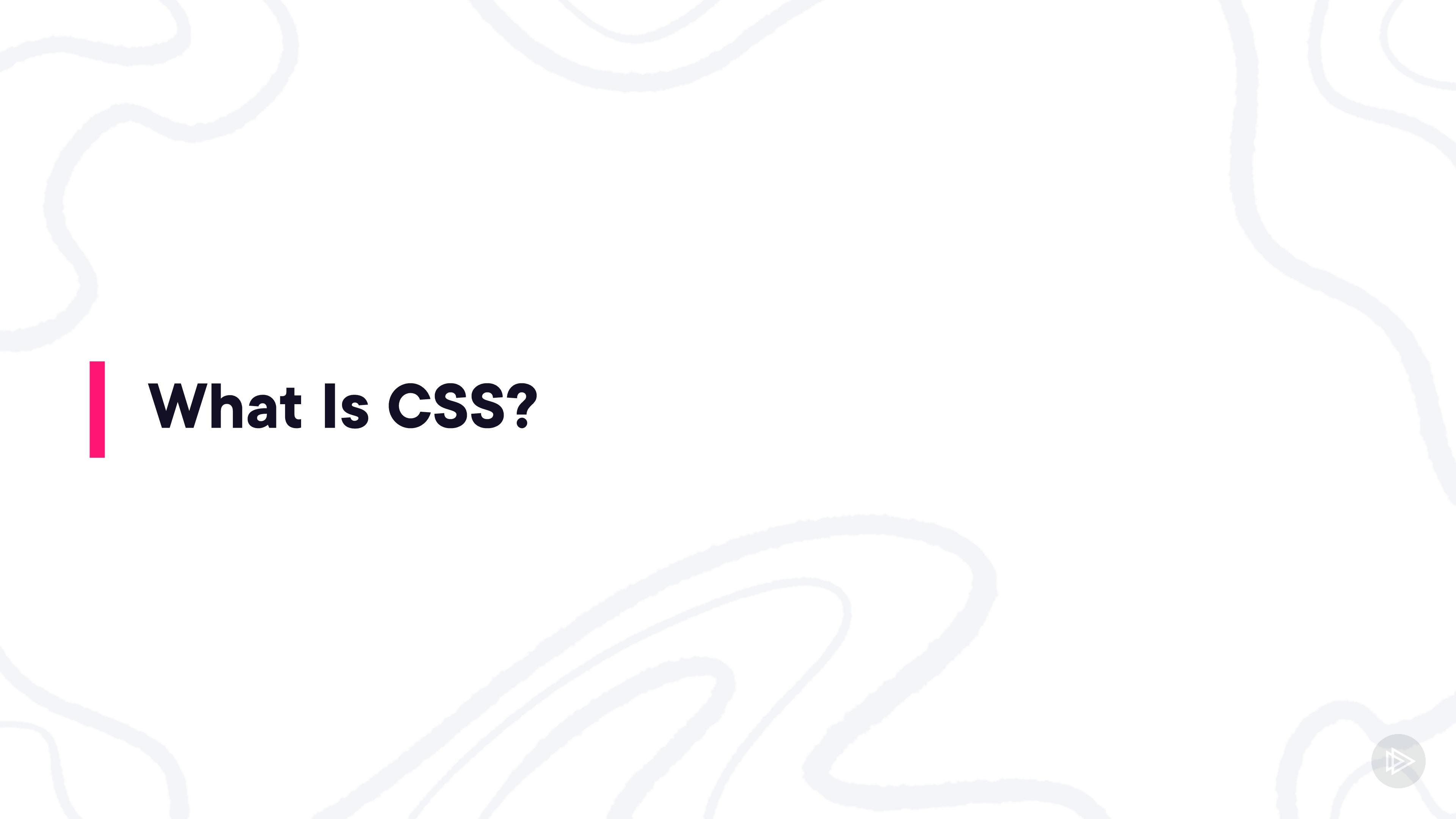


**Cascading Style Sheets (CSS)**  
is a style sheet language used  
for describing the presentation  
of a document written in a  
markup language.



# History of CSS





# What Is CSS?

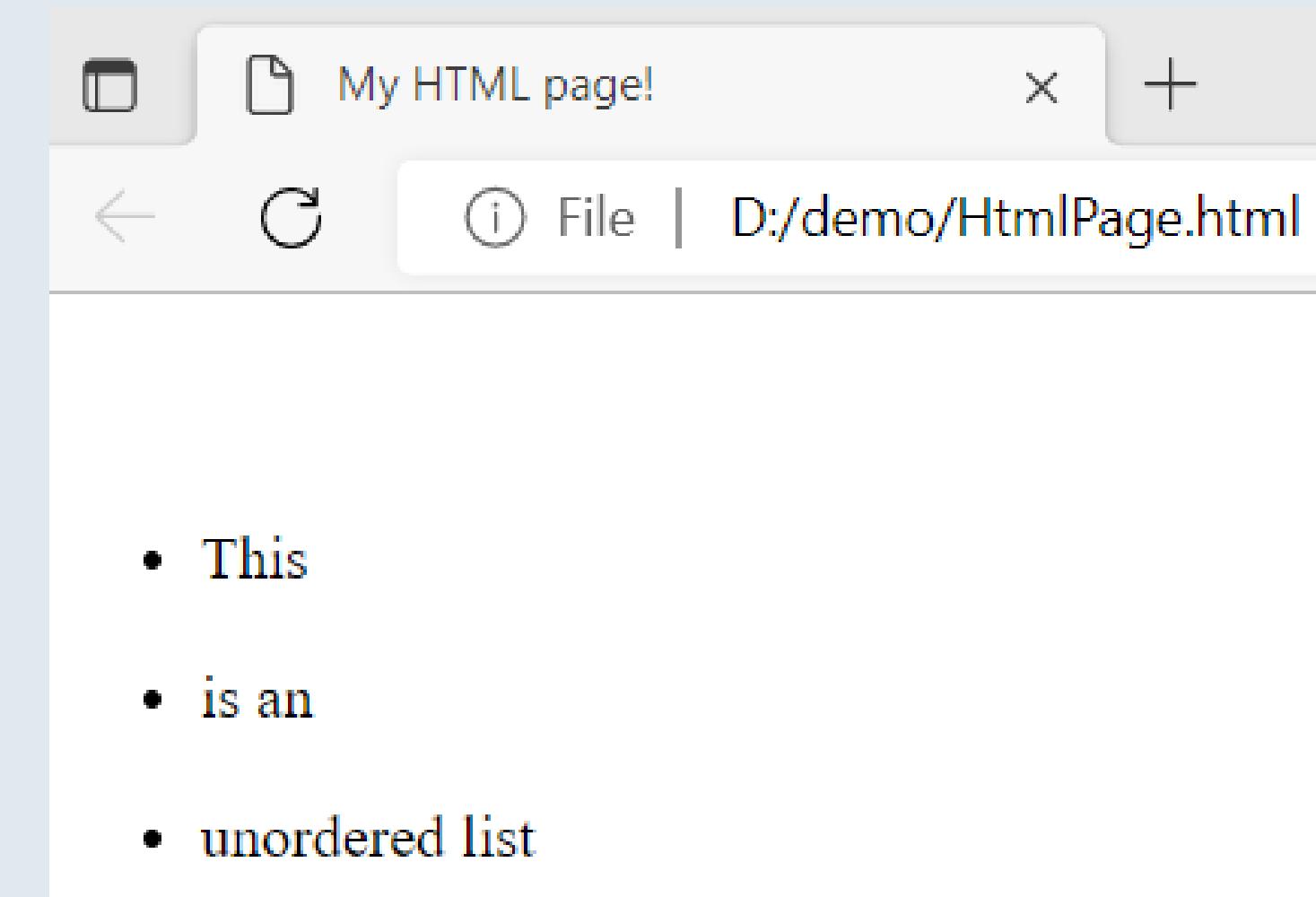


**CSS  
IS  
AWESOME**



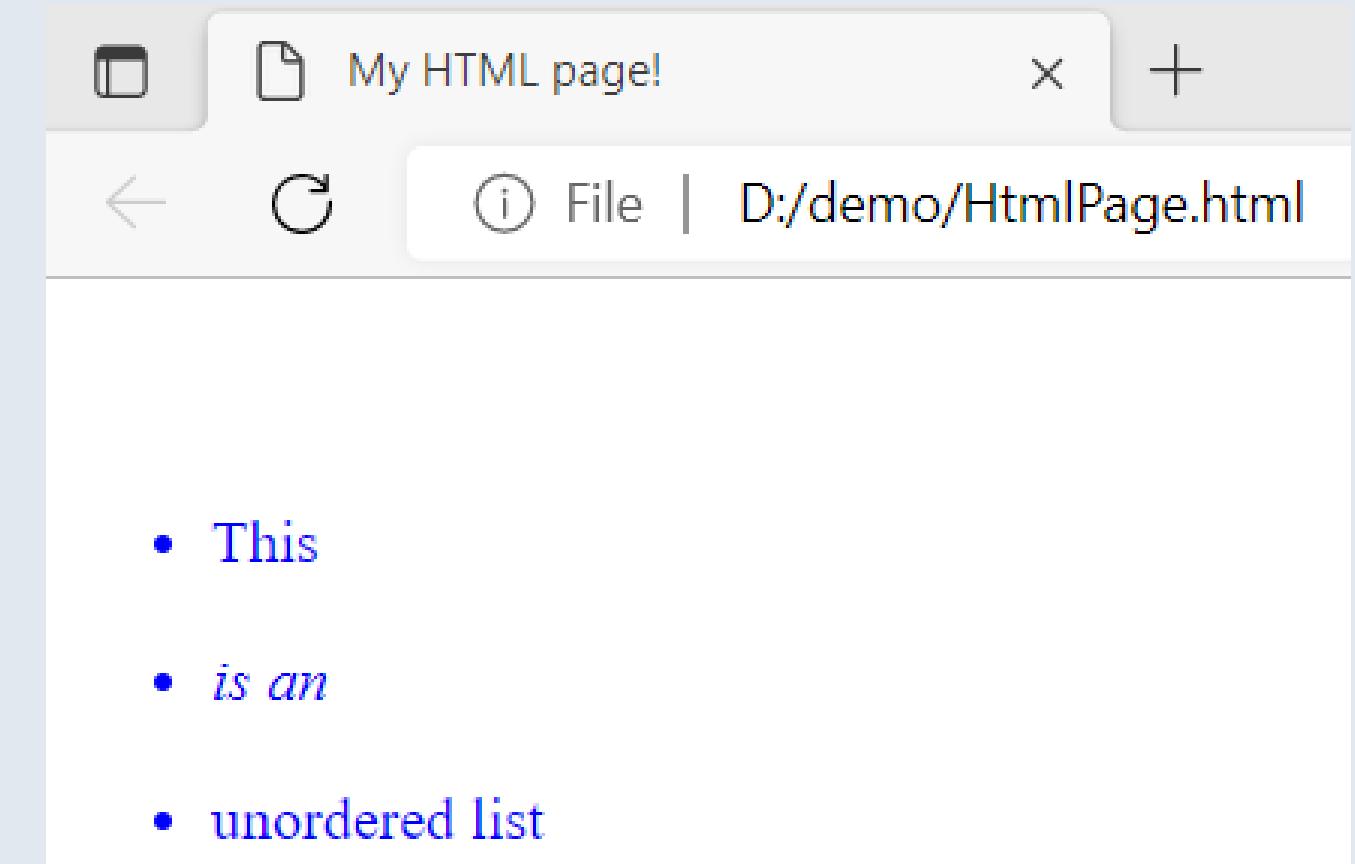
# HTML Styling

```
<!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>
```

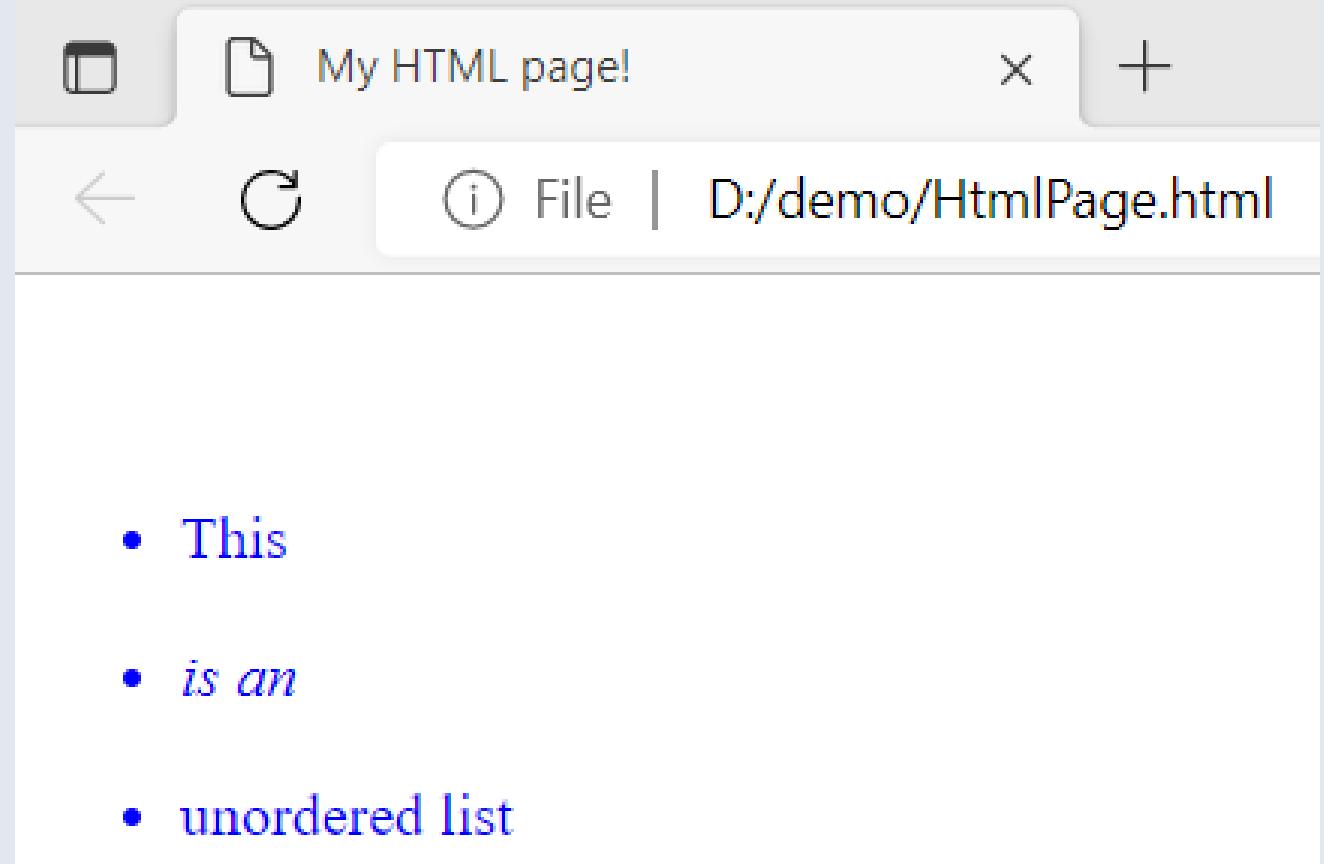


# HTML Styling

```
<!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>
```

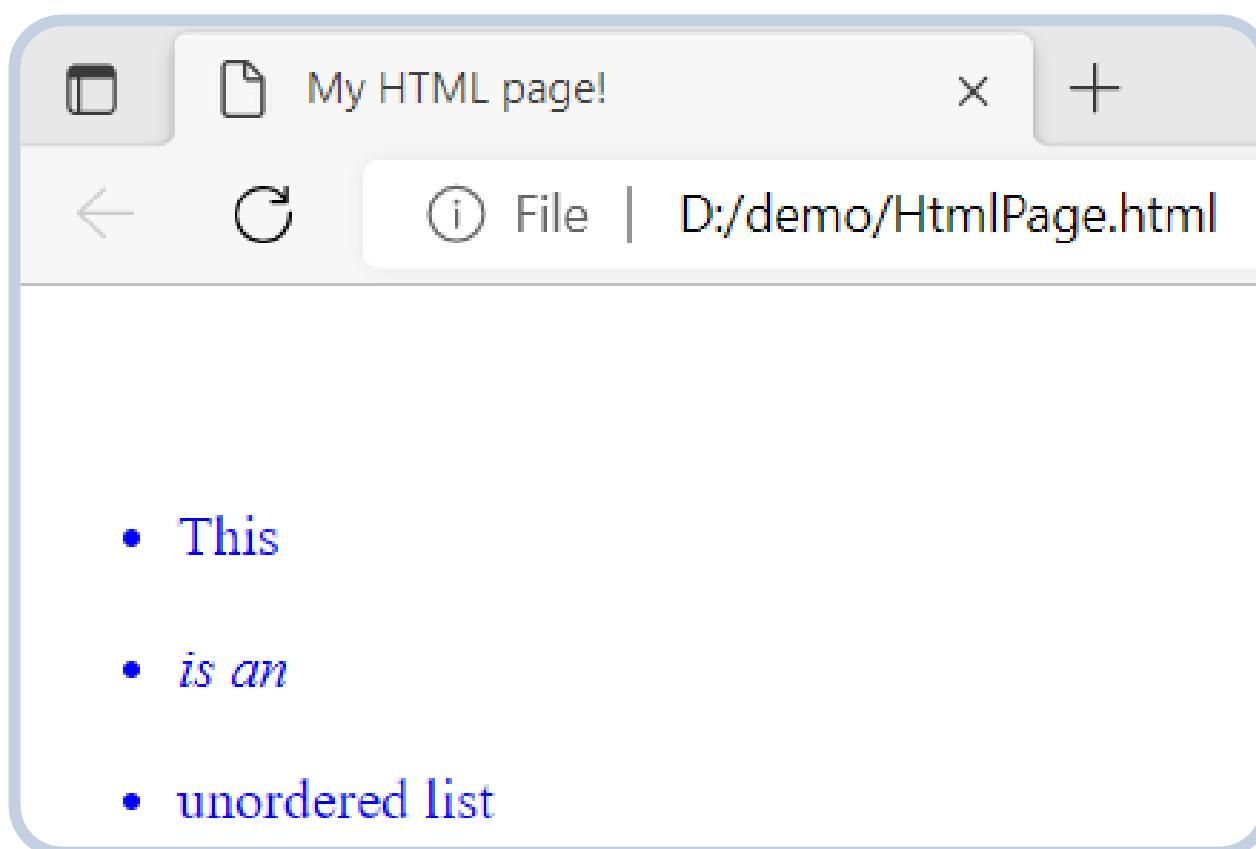
## About.html

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

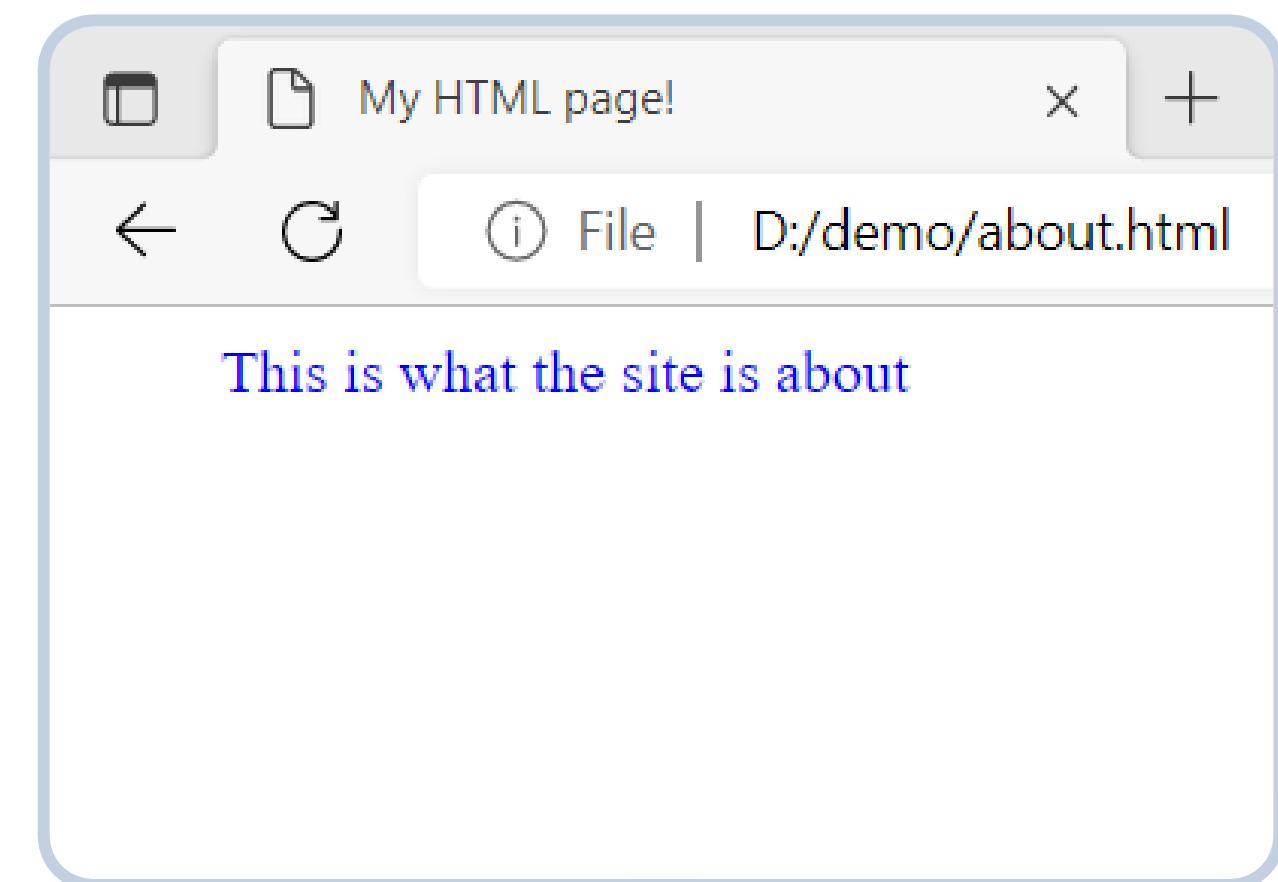
    <link rel="stylesheet" href="StyleSheet.css">
</head>
<body>
    <div>
        This is what the site is about
    </div>
</body>
</html>
```



# 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;
}
```

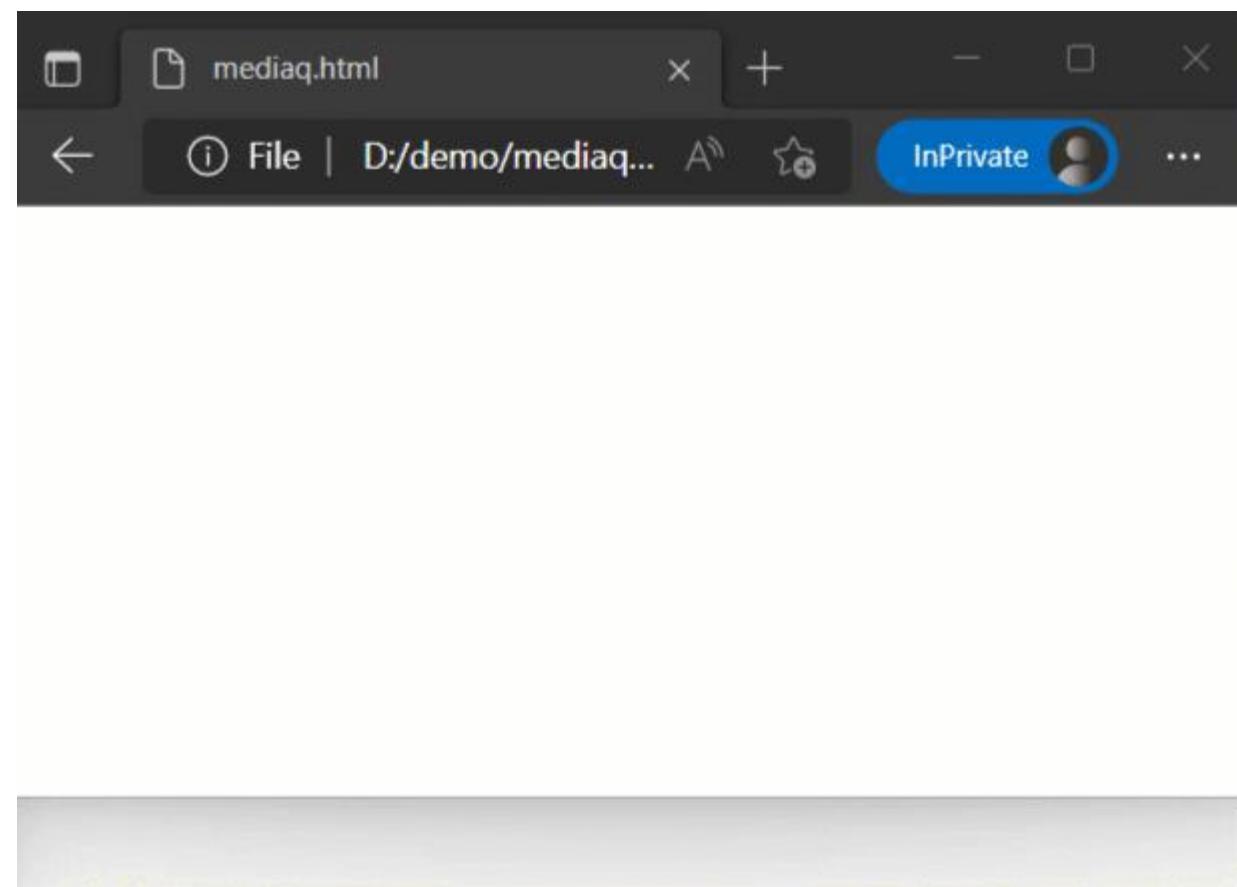
Paragraph.

Paragraph with id!



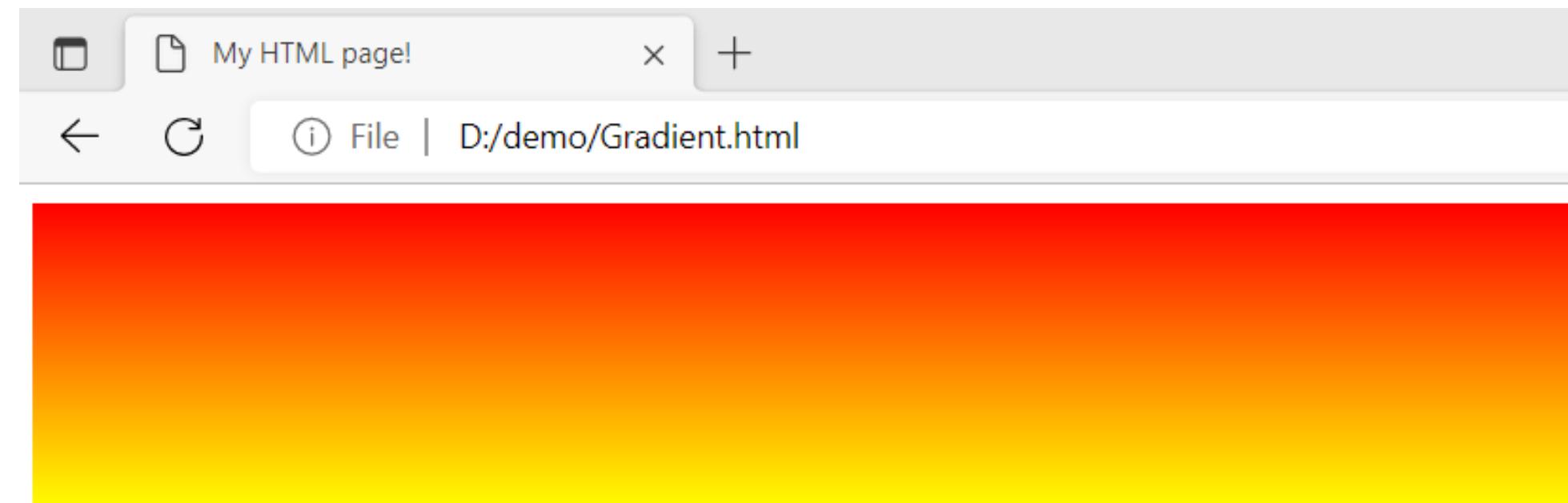
# Advanced CSS Syntax

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



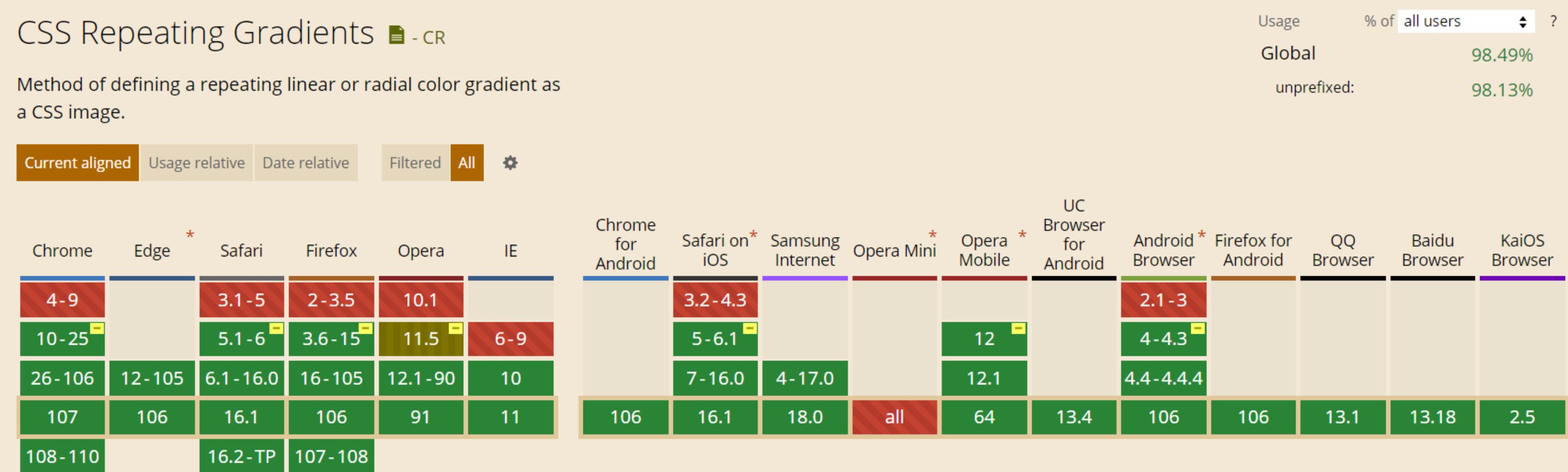
# Advanced CSS Syntax

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



# Browser Support of CSS Syntax

<https://caniuse.com/>

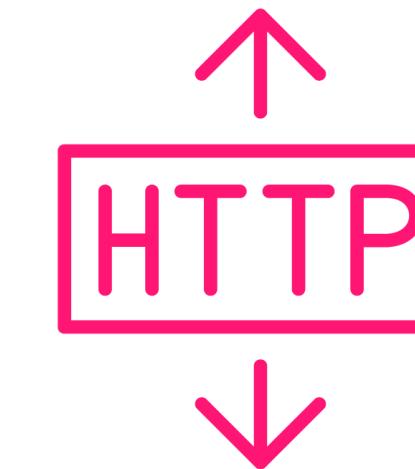


# Working with CSS

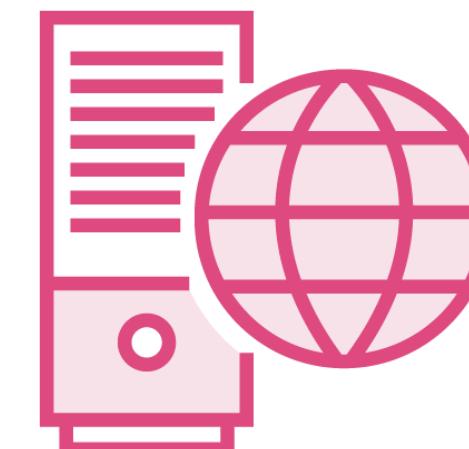


# Ingredients for the Web

Clients  
(Web browsers)



URL: <http://server.com/document1.html>  
<http://server.com/stylesheets.css>



Web Server



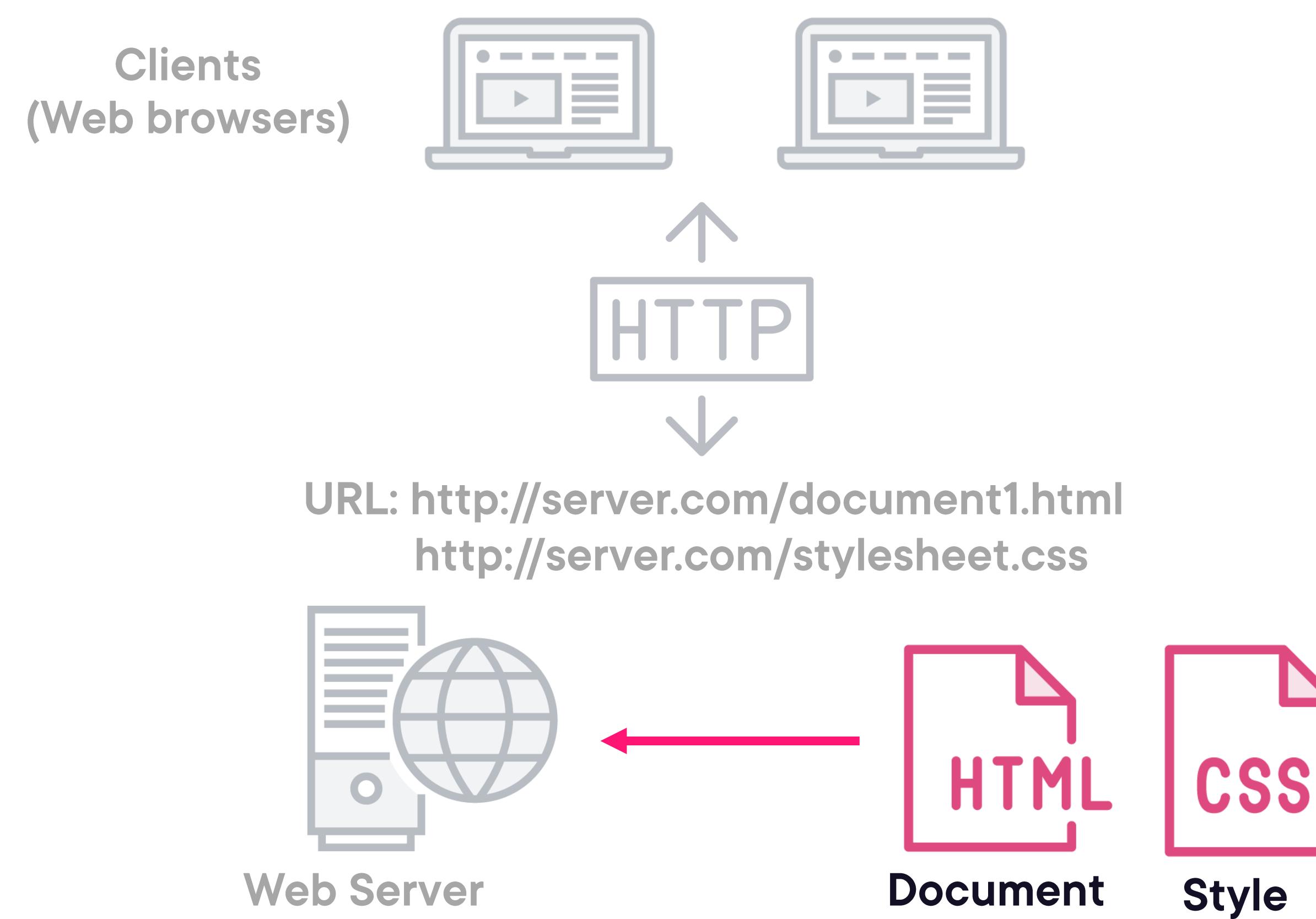
Document



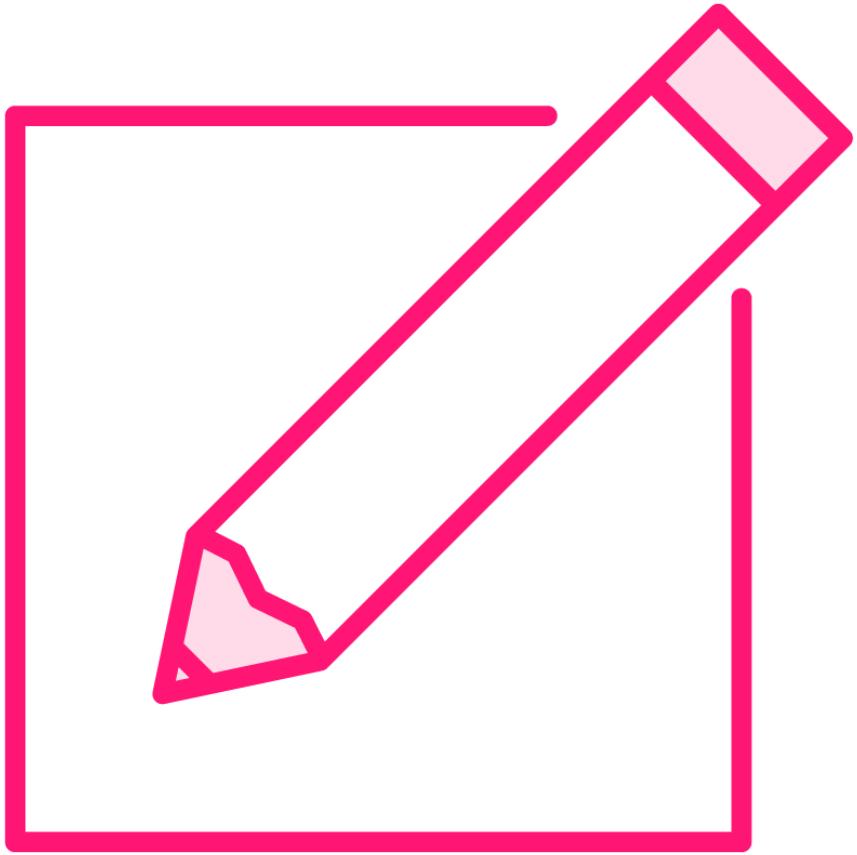
Style



# Ingredients for the Web

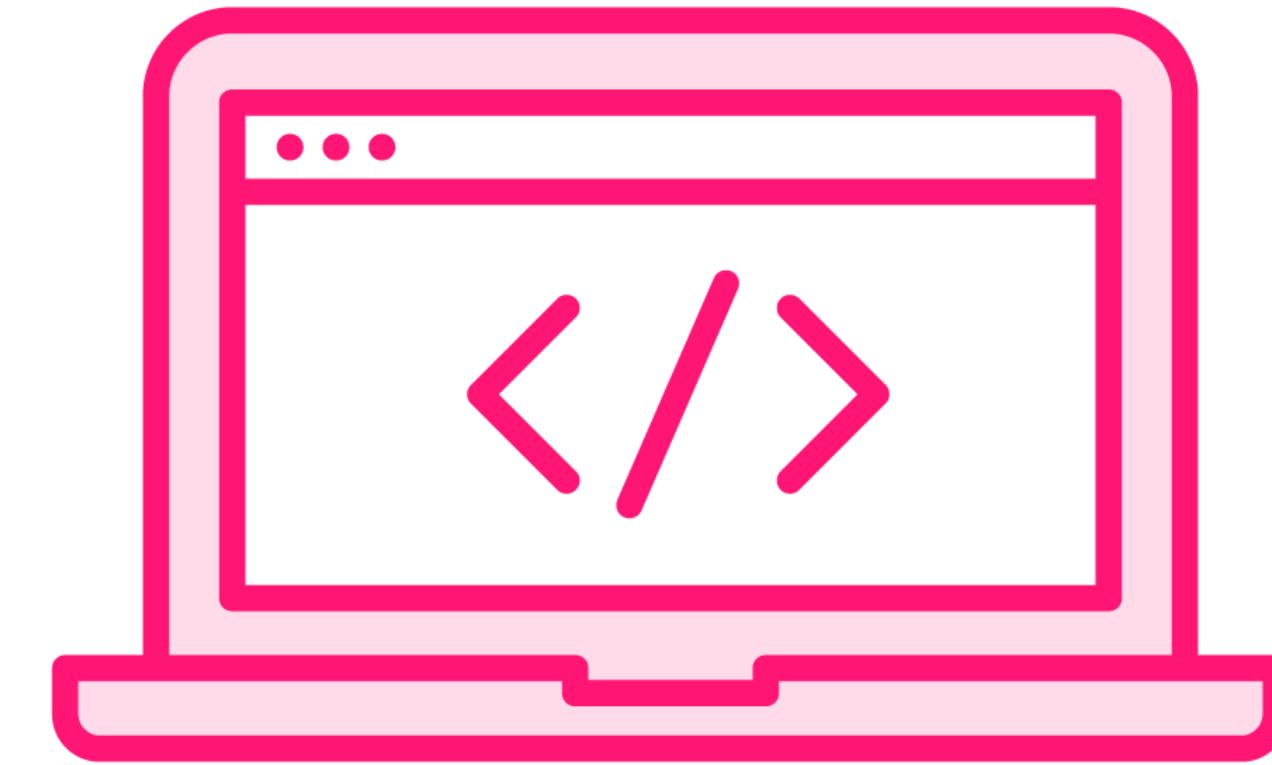


# How to Write CSS from Scratch



## 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!

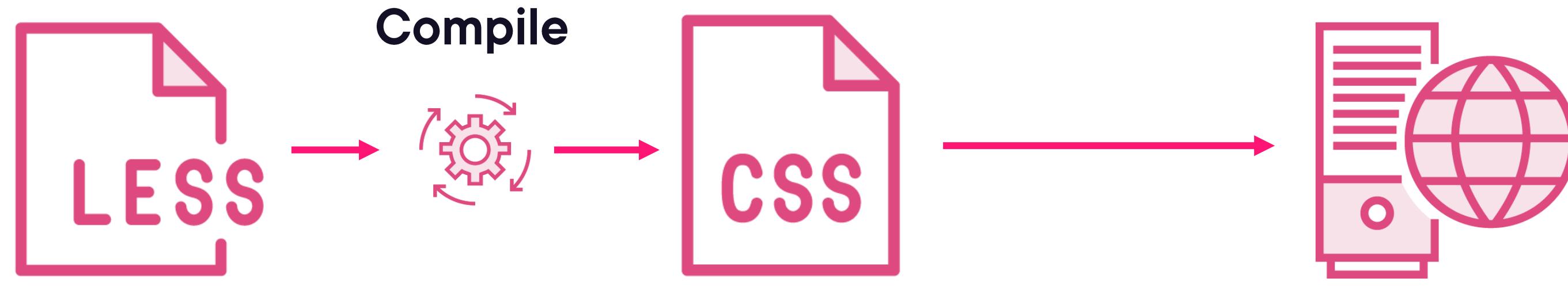
- We love all cookies!
- Chocolate Cookie,
- Butter Cookie,
- Macaroons
- You name it, we love them!

### Register

- Register your store to order cookies



# CSS Preprocessors



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

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

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

Web Server





## 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)

