

Styling the Web with CSS



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Introduction



Where CSS came from

What it is

How you can create CSS



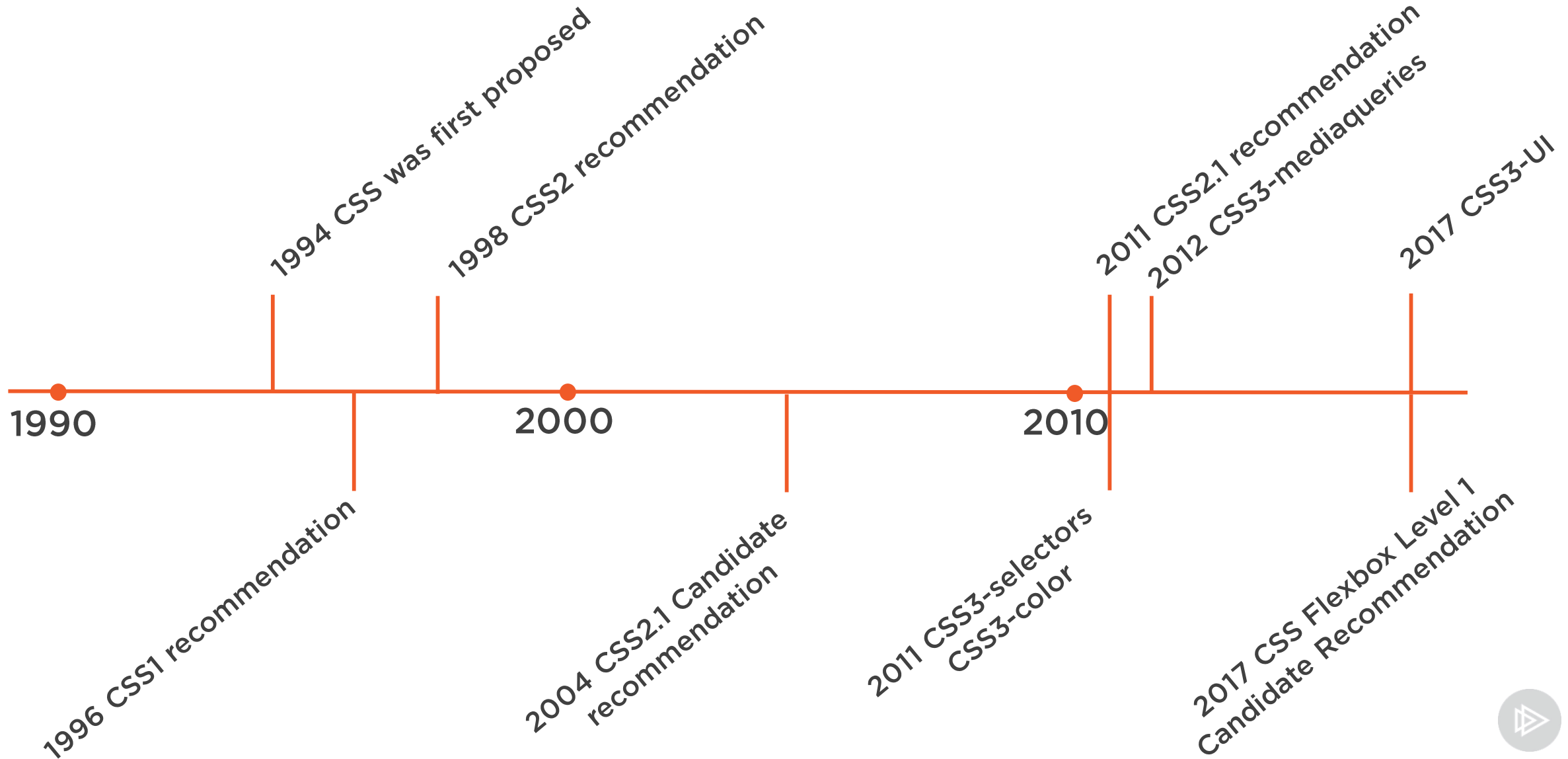
Where Did CSS Come From?



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?

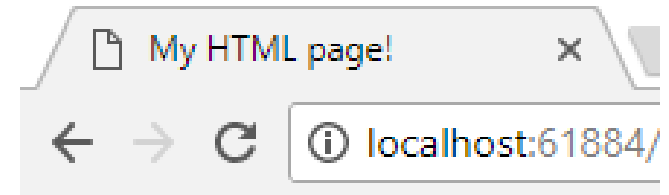


**CSS
IS
AWESOME**



HTML Styling

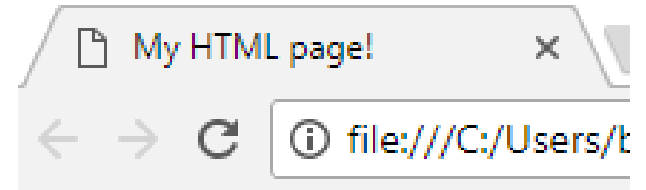
```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>My HTML page!</title>
</head>
<body>
  <div>
    <ul>
      <li>This</li>
      <li>is an</li>
      <li>unordered list</li>
    </ul>
  </div>
</body>
</html>
```



- This
- is an
- unordered list

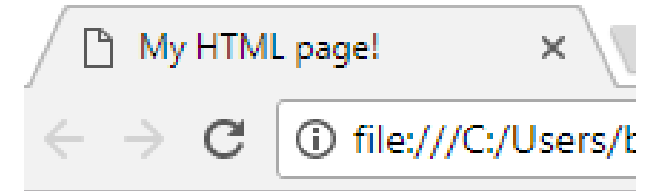
HTML Styling

```
<!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>
```



- This
- *is an*
- unordered list

```
<!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>
```



- This
- *is an*
- unordered list



HTMLPage.html

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <title>My HTML page!</title>
  <link rel="stylesheet" type="text/css" 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;
}
```



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>
```

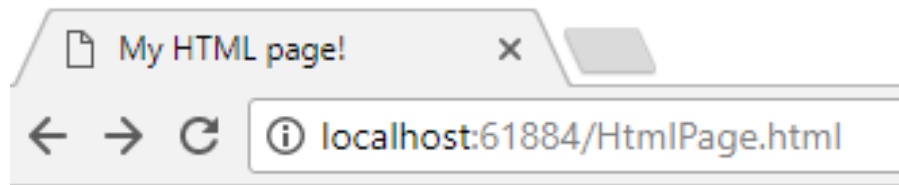
About.html

```
<!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>
```

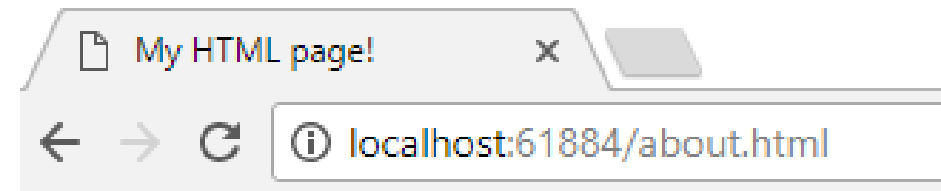


HTMLPage.html



- This
- *is an*
- unordered list

About.html



This is what the site is about



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;  
}
```

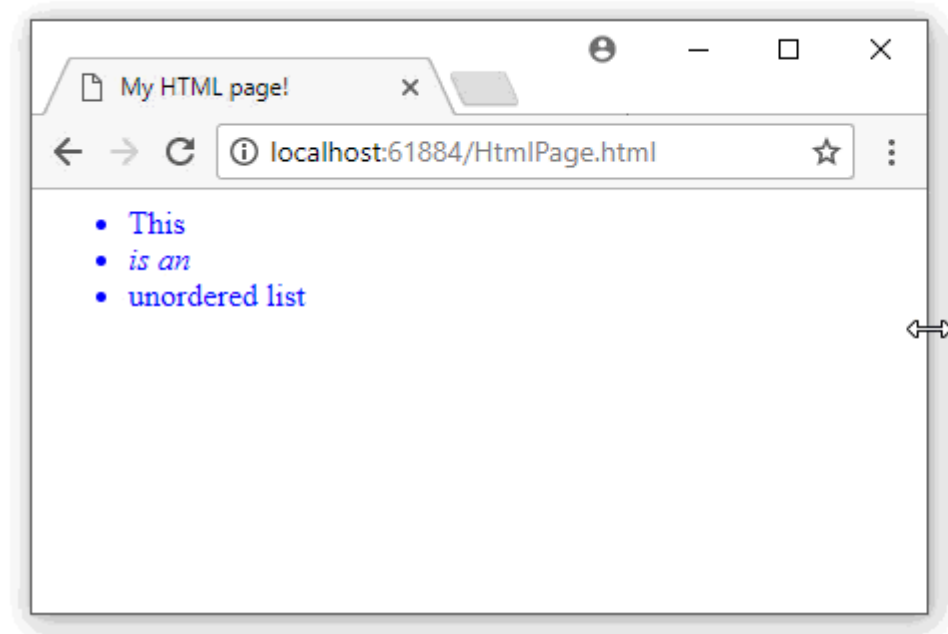
Paragraph.

Paragraph with id!

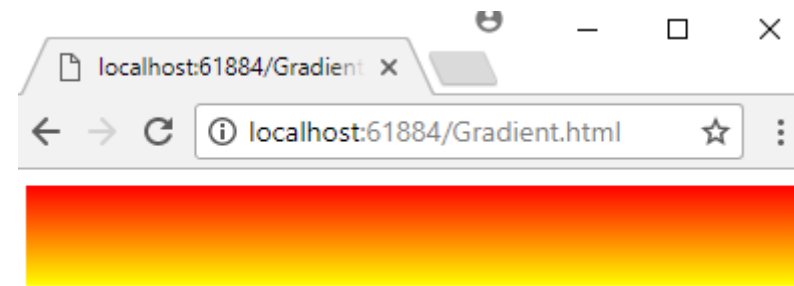


Advanced CSS Syntax

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




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



Browser Support of CSS Syntax

<https://caniuse.com>

CSS Repeating Gradients - CR

Usage % of all users 

Global 95.26%

unprefixed: 94.65%

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

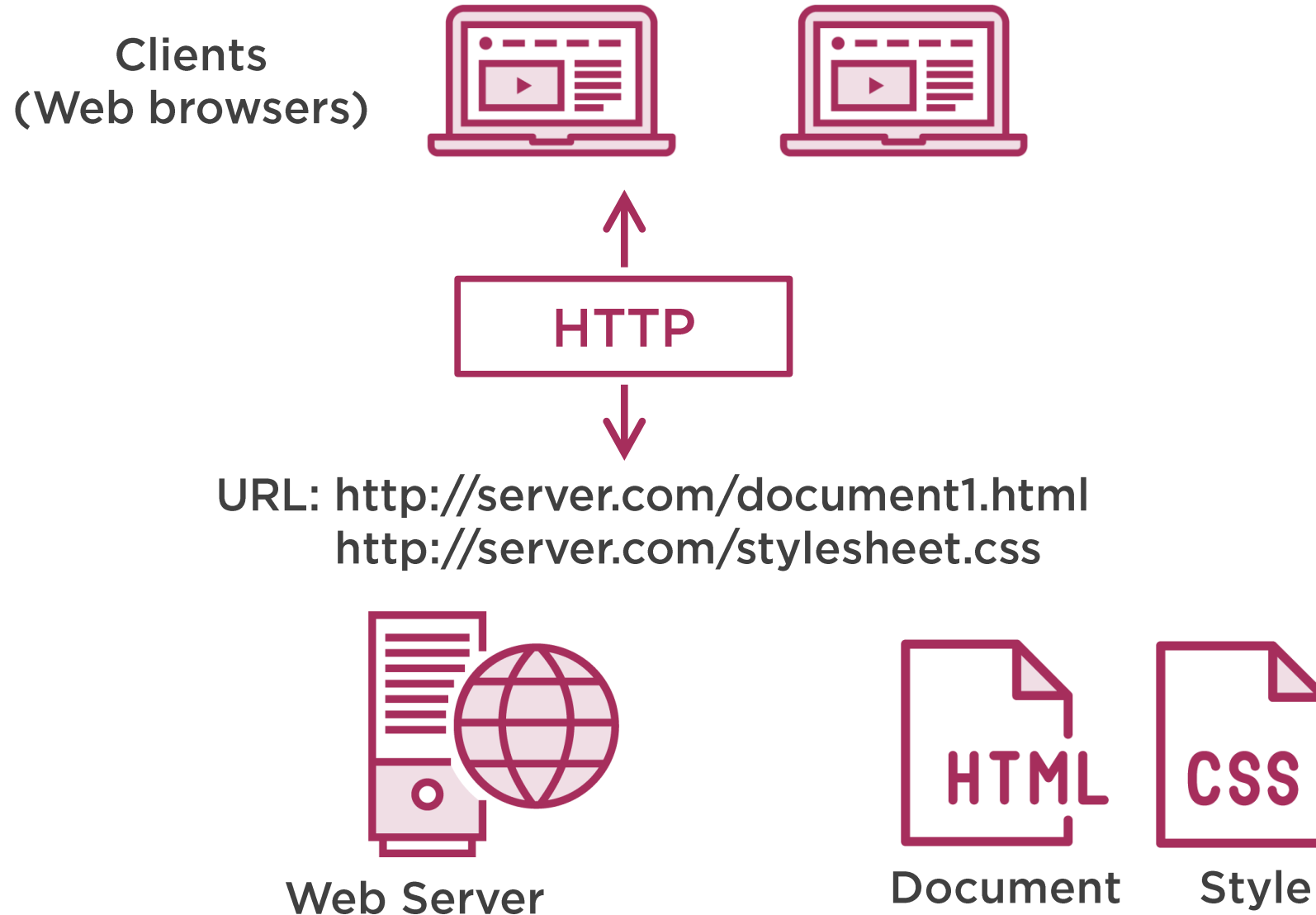
Current aligned Usage relative Date relative [Show all](#)

| IE | Edge * | Firefox | Chrome | Safari | iOS Safari * | Opera Mini * | Chrome for Android | UC Browser for Android | Samsung Internet |
|----|--------|---------|--------|--------|--------------|--------------|--------------------|------------------------|------------------|
| | | | 49 | | | | | | |
| | | | 63 | | 10.2 | | | | |
| | | | 64 | | 10.3 | | | | 4 |
| 11 | 16 | 58 | 65 | 11 | 11.2 | all | 64 | 11.8 | 6.2 |
| | 17 | 59 | 66 | 11.1 | 11.3 | | | | |
| | | 60 | 67 | TP | | | | | |
| | | 61 | 68 | | | | | | |

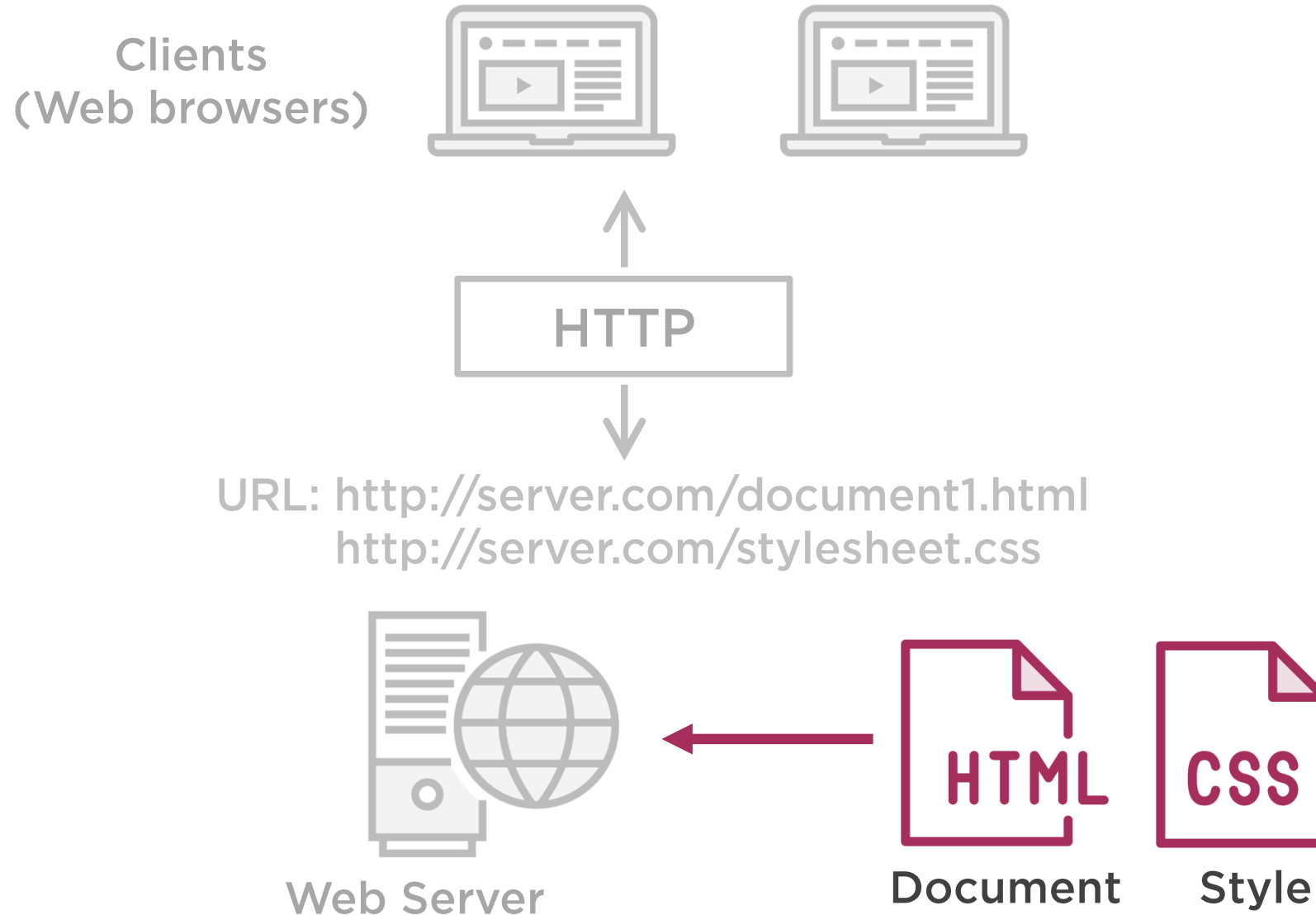
Working with CSS



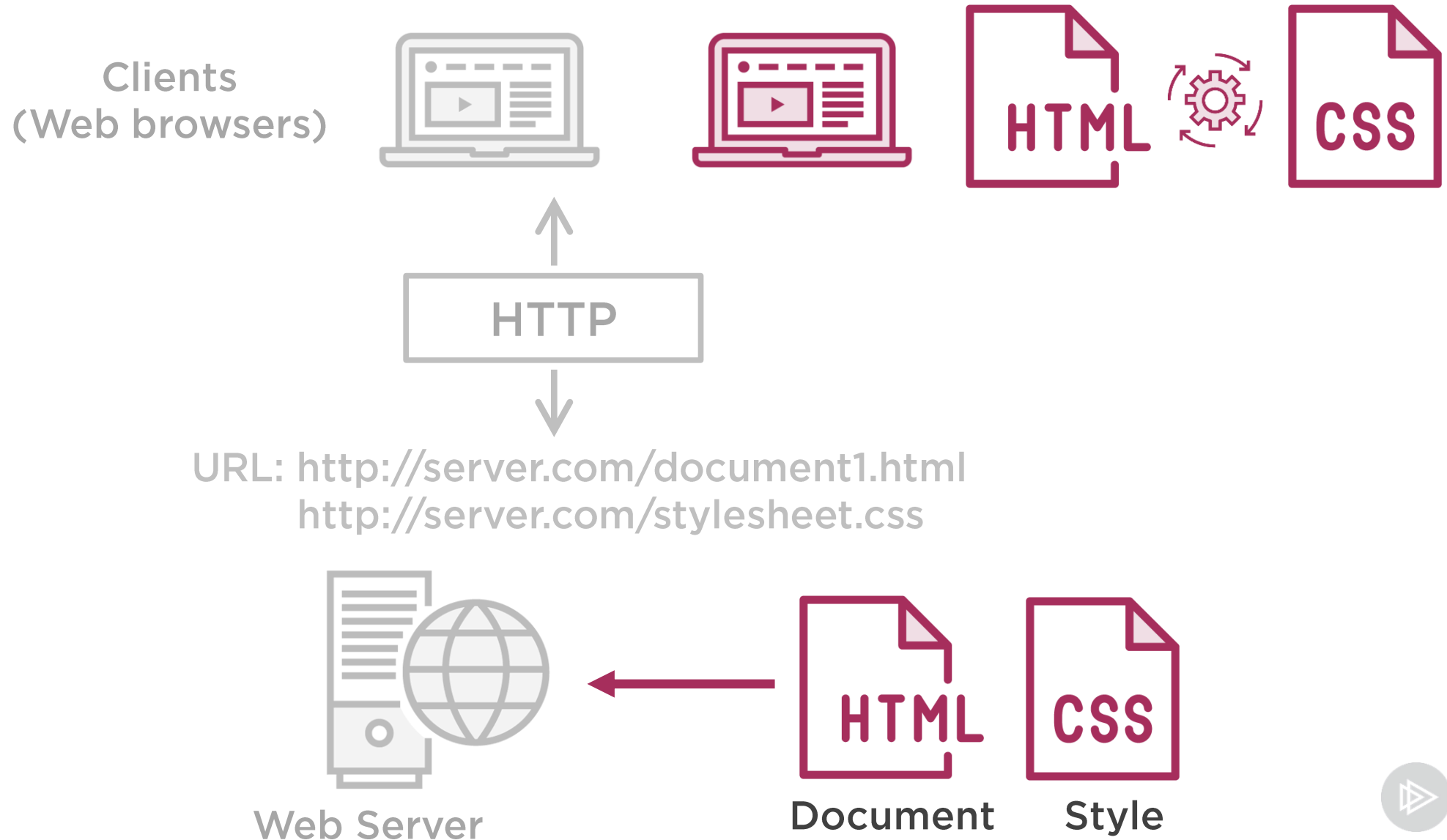
Ingredients for the Web



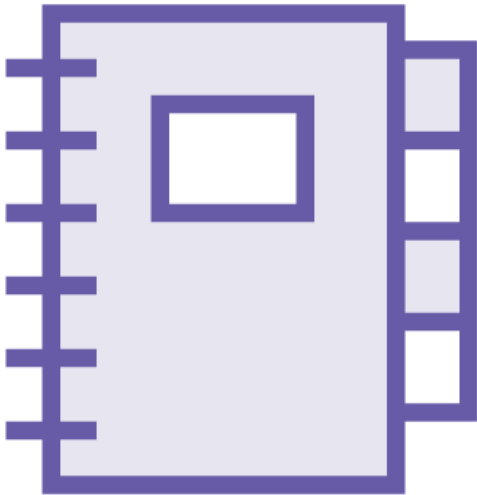
Ingredients for the Web



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

Hamburgers.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!

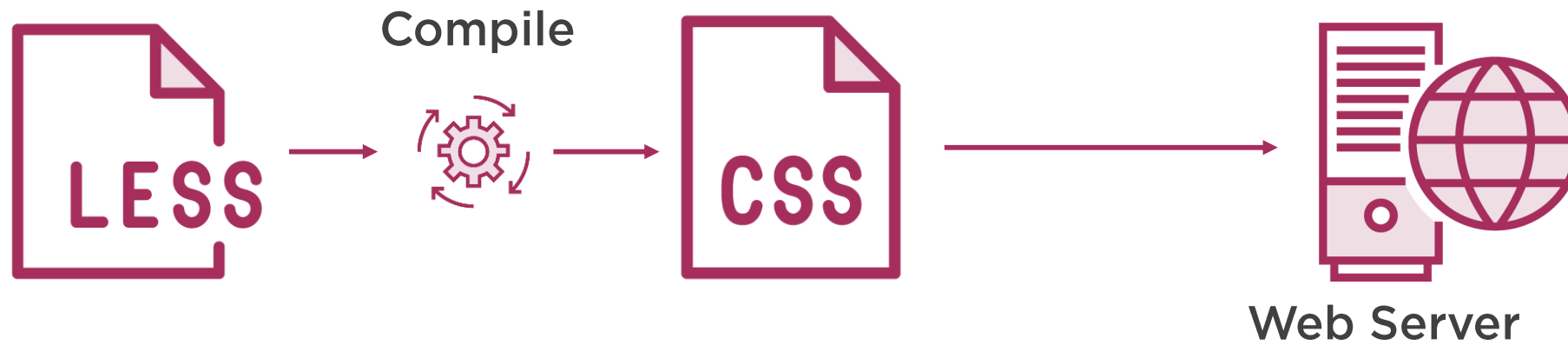
- We love all cookies!
- Chocolate Cookie,
- Butter Cookie,
- Macaroons
- You name it, we love them!

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)

