

# Web Programming 1\_Lab\_6

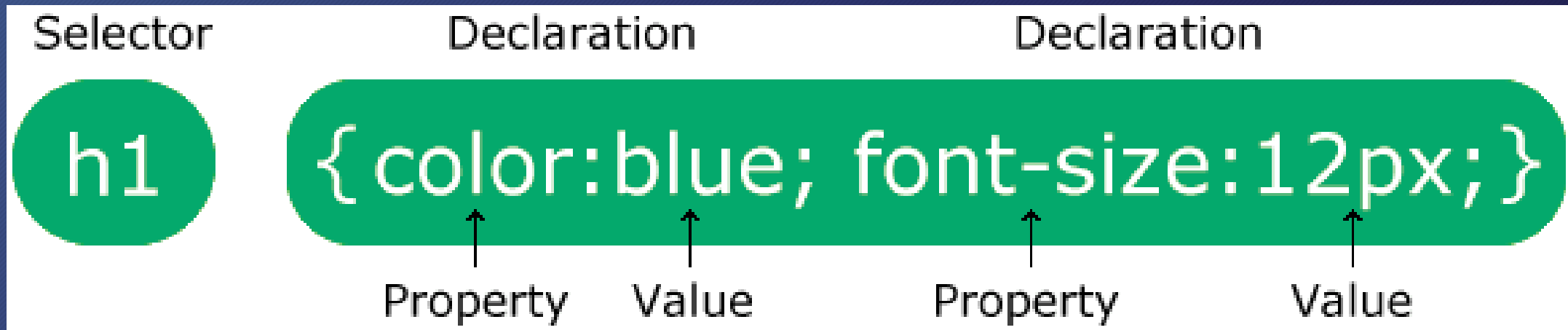
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# What is CSS ?

- Cascade Style Sheet
- Language to create the presentation and visuals

# CSS Syntax



# CSS Syntax - Example

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



# CSS Syntax - Example

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

→ Selectors

→ Property : property value

Selector

# The CSS id Selector

- The CSS rule below will be applied to the HTML element with id="para1":

```
#para1 {  
    text-align: center;  
    color: red;  
}
```

# The CSS class Selector

- all HTML elements with class="center" will be red and center-aligned:

```
.center {  
  text-align: center;  
  color: red;  
}
```



# The CSS class Selector

- only <p> elements with class="center" will be red and center-aligned:

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

# The CSS Universal Selector

- The universal selector (\*) selects all HTML elements on the page.

```
* {  
  text-align: center;  
  color: blue;  
}
```

# The CSS Grouping Selector

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

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

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

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

# Ways to Insert CSS



# Three Ways to Insert CSS

- There are three ways of inserting a style sheet:
  - ☐ External CSS
  - ☐ Internal CSS
  - ☐ Inline CSS

# External CSS

- External styles are defined within the <link> element, inside the <head> section of an HTML page:

```
<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="mystyle.css">
</head>
<body>
<h1>This is a heading</h1>
<p>This is a paragraph.</p>
</body>
</html>
```

# "mystyle.css"

```
body {  
  background-color: lightblue;  
}
```

```
h1 {  
  color: navy;  
  margin-left: 20px;  
}
```

**This is a heading**

This is a paragraph.

# Internal CSS

- Internal styles are defined within the `<style>` element, inside the `<head>` section of an HTML page:



```
<!DOCTYPE html>
<html>
  <head>
    <style>
      body {
        background-color:lightblue;
      }

      h1 {
        color: navy;
        margin-left: 20px;
      }
    </style>
  </head>
  <body>
    <h1>This is a heading</h1>
    <p>This is a paragraph.</p>
  </body>
</html>
```

# This is a heading

This is a paragraph.

# Inline CSS

- Inline styles are defined within the "style" attribute of the relevant element:

```
<!DOCTYPE html>
<html>
  <head>
    <title>CSS</title>
  </head>
  <body style="background-color:lightblue;">
    <h1 style="color: navy;margin-left: 20px;">This is a heading</h1>
    <p>This is a paragraph.</p>
  </body>
</html>
```

# This is a heading

This is a paragraph.

# CSS Comments



# CSS Comments

- A CSS comment is placed inside the <style> element, and starts with /\* and ends with \*/:

```
/* This is a single-line comment */  
p {  
  color: red;  
}
```

```
<!DOCTYPE html>
<html>
<head>
<style>
p {
  color: red; /* Set text color to red */
}
</style>
</head>
<body>

<h2>My Heading</h2>

<!-- These paragraphs will be red -->
<p>Hello World!</p>
<p>This paragraph is styled with CSS.</p>
<p>CSS comments are not shown in the
output.</p>

</body>
</html>
```

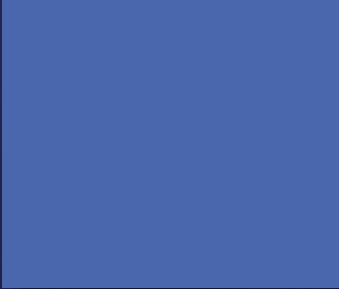
## My Heading

Hello World!

This paragraph is styled with CSS.

CSS comments are not shown in the output.

# CSS Colors (`background-color`)



```
<!DOCTYPE html>
<html>
<head>
  <title>CSS</title>
</head>
<body>
```

```
  <h1 style="background-color:DodgerBlue;text-align: center;">Hello World!</h1>
  <p style="background-color:Tomato;">This paragraph is styled with CSS.This paragraph is styled with CSS.</p>
```

```
</body>
</html>
```

# Hello World!

This paragraph is styled with CSS.This paragraph is styled with CSS.



Opacity

# Opacity

opacity 1

opacity 0.6

opacity 0.3

```
<!DOCTYPE html>
<html>
<head>
  <title>CSS</title>
  <link rel="stylesheet" href="css.css">
</head>
<body>

  <h1>Hello World!</h1>
  <p>This paragraph is styled with CSS.</p>

</body>
</html>
```

```
h1 {
  background-color: blue;
  opacity: 0.6;
}
```

**Hello World!**

This paragraph is styled with CSS.

# CSS Colors (Text color)





```
<!DOCTYPE html>
<html>
<head>
  <title>CSS</title>
</head>
<body>
```

```
  <h1 style="color: blueviolet;">Hello World!</h1>
```

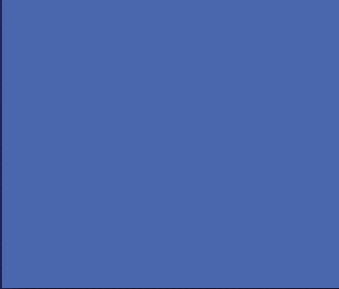
```
  <p style="color: DodgerBlue;">This paragraph is styled with CSS.This paragraph is styled with CSS.</p>
```

```
</body>
</html>
```

# Hello World!

This paragraph is styled with CSS.This paragraph is styled with CSS.

# CSS Colors (Border color)



```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>CSS</title>
```

```
</head>
```

```
<body>
```

```
  <h1 style="border:2px solid Tomato;">Hello World!</h1>
```

```
  <p style="border:2px solid DodgerBlue;">This paragraph is styled with CSS.This paragraph is styled with CSS.</p>
```

```
</body>
```

```
</html>
```

**Hello World!**

This paragraph is styled with CSS.This paragraph is styled with CSS.

CSS background-image



```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>CSS</title>
```

```
  <link rel="stylesheet" href="css.css">
```

```
</head>
```

```
<body>
```

```
  <h1>Hello World!</h1>
```

```
  <p>This paragraph is styled with CSS. </p>
```

```
</body>
```

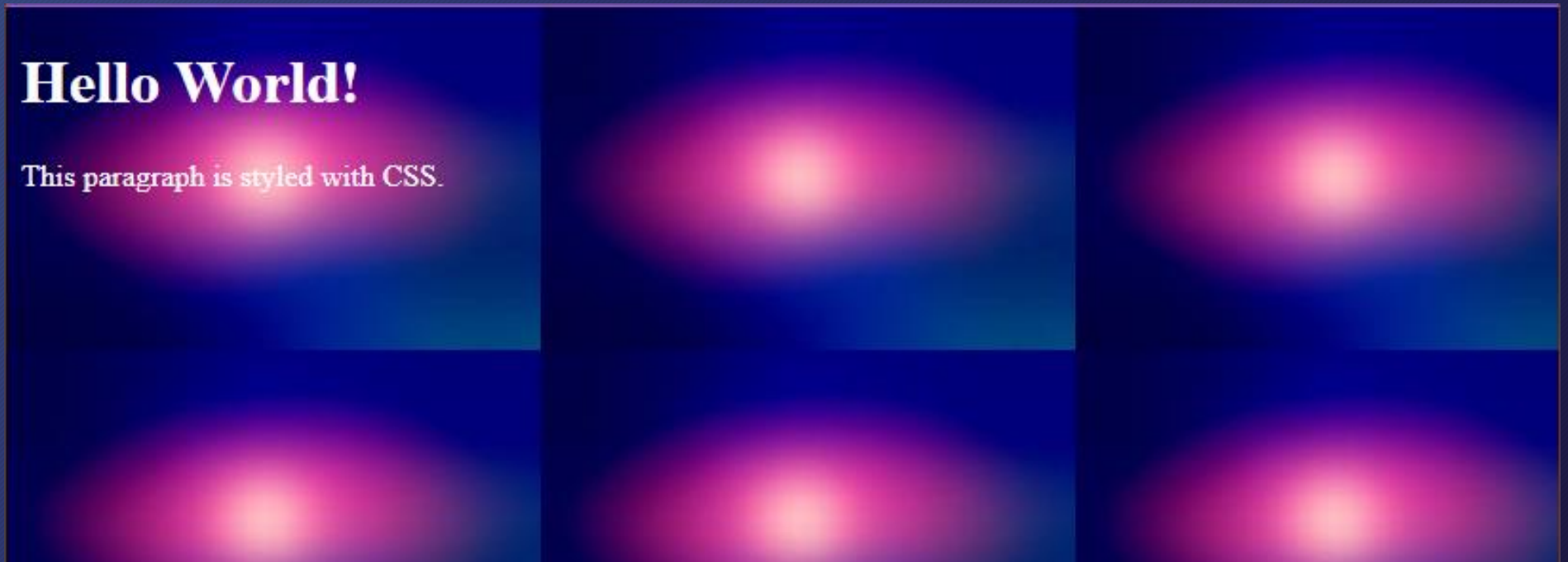
```
</html>
```

```
body {
```

```
  background-image:url(images.jfif);
```

```
  color: white;
```

```
}
```



CSS background-repeat

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>CSS</title>
```

```
  <link rel="stylesheet" href="css.css">
```

```
</head>
```

```
<body>
```

```
  <h1>Hello World!</h1>
```

```
  <p>This paragraph is styled with CSS. </p>
```

```
</body>
```

```
</html>
```

```
body {
```

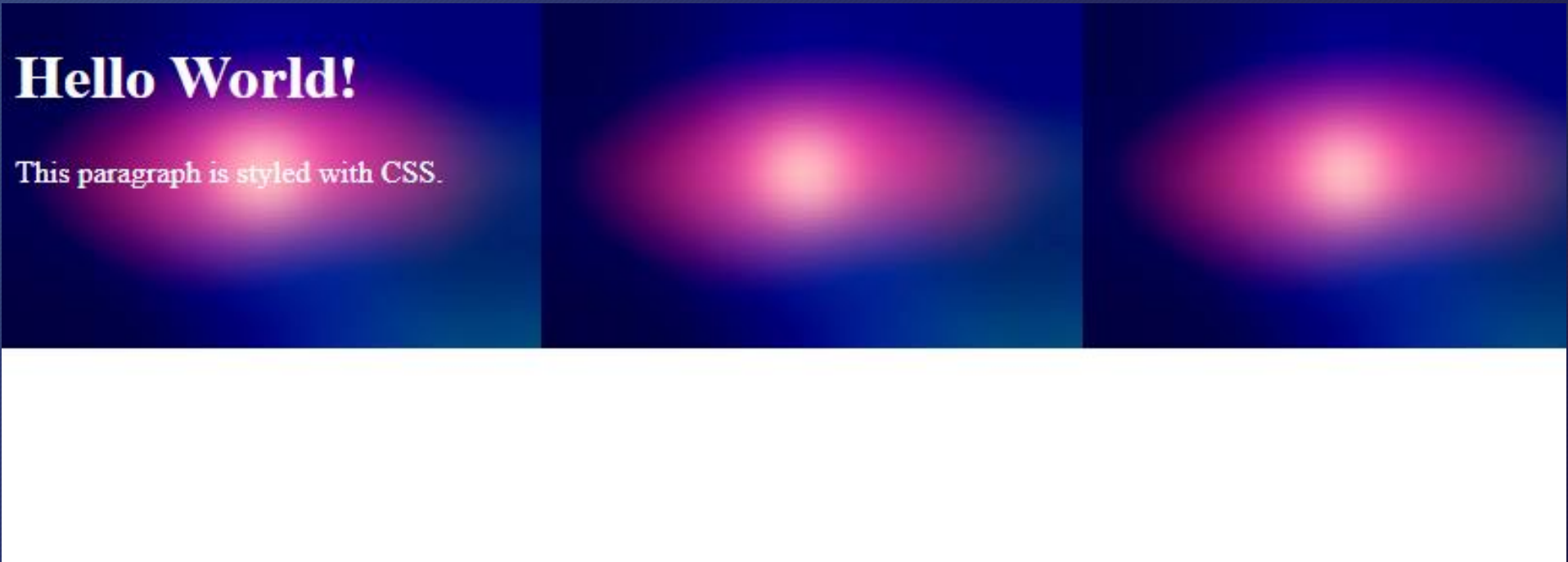
```
  background-image:url(images.jfif);
```

```
  background-repeat: repeat-x;
```

```
  color: white;
```

```
}
```

horizontal





```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>CSS</title>
```

```
  <link rel="stylesheet" href="css.css">
```

```
</head>
```

```
<body>
```

```
  <h1>Hello World!</h1>
```

```
  <p>This paragraph is styled with CSS. </p>
```

```
</body>
```

```
</html>
```

```
body {
```

```
  background-image:url(images.jfif);
```

```
  background-repeat: repeat-y;
```

```
  color: white;
```

```
}
```

vertical





```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>CSS</title>
```

```
  <link rel="stylesheet" href="css.css">
```

```
</head>
```

```
<body>
```

```
  <h1>Hello World!</h1>
```

```
  <p>This paragraph is styled with CSS. </p>
```

```
</body>
```

```
</html>
```

```
body {
```

```
  background-image:url(images.jfif);
```

```
  background-repeat: no-repeat;
```

```
  color: white;
```

```
}
```



**Hello World!**

This paragraph is styled with CSS.

# CSS background-position

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>CSS</title>
```

```
  <link rel="stylesheet" href="css.css">
```

```
</head>
```

```
<body>
```

```
  <h1>Hello World!</h1>
```

```
  <p>This paragraph is styled with CSS. </p>
```

```
</body>
```

```
</html>
```

```
body {
```

```
  background-image:url(images.jfif);
```

```
  background-repeat: no-repeat;
```

```
  background-position: right top;
```

```
}
```

# Hello World!

This paragraph is styled with CSS.





# CSS background-attachment



```
<!DOCTYPE html>
<html>
<head>
  <title>CSS</title>
  <link rel="stylesheet" href="css.css">
</head>
<body>

  <h1>Hello World!</h1>
  <p>This paragraph is styled with CSS. </p>

</body>
</html>
```

```
body {
  background-image:url(images.jfif);
  background-repeat: no-repeat;
  background-position: right top;
  background-attachment: fixed;
  /* background-attachment: scroll */
}
```

# Hello World!

This paragraph is styled with CSS.

