

TECHNOLOGY



Caltech | **Center for Technology & Management Education**

Full Stack Java Developer

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CSS

Understanding CSS



Learning Objectives

By the end of this lesson, you will be able to:

- 👁 Learn the CSS language
- 👁 Understand the advantages of using CSS
- 👁 Set up the Workspace and Text Editor to work with CSS
- 👁 Learn to apply inline CSS to HTML element
- 👁 Describe how to use the internal and external CSS



A Day in the Life of a Full Stack Developer

You are hired as a web developer in an organization and have been assigned a website development project for an e-commerce company. The e-commerce website consists of elements to be added to the cart and the addition of items.

Designing the same would need the use of CSS elements, internal and external CSS, and use of text editors.

To do so, explore the concepts and working of CSS.



What Is CSS?

What Is CSS?

CSS stands for Cascading Style Sheets.

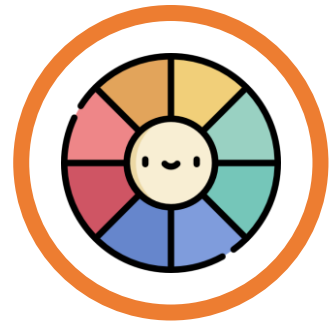


It indicates the presentation of web pages.



Uses of CSS

CSS is used to:



Change the colour of the text



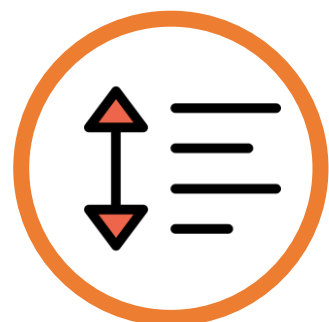
Adjust the layout and design



Change the font style



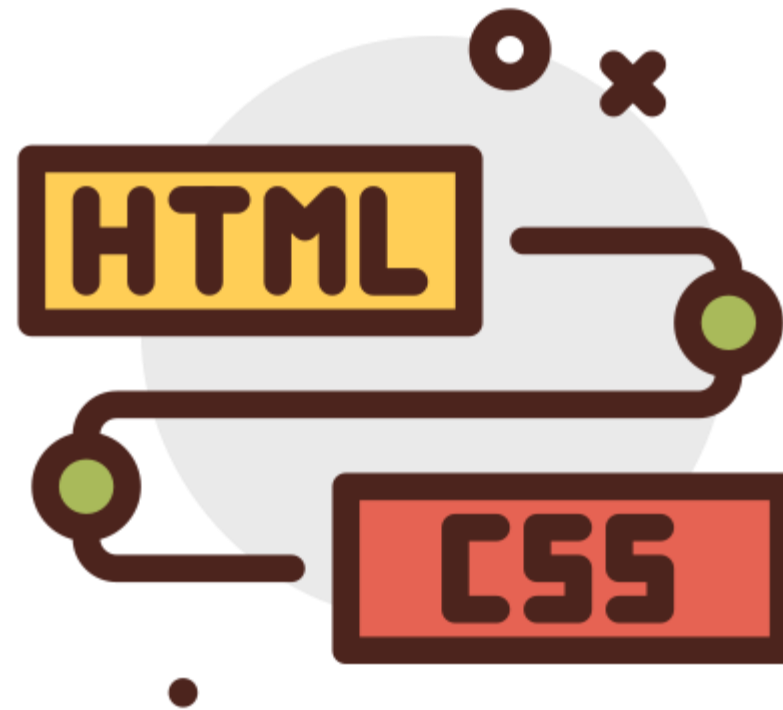
Change the background colors



Add or remove the spacing between the paragraphs

Uses of CSS

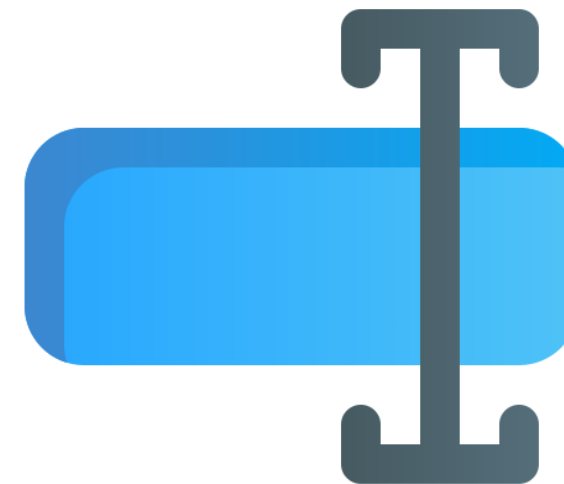
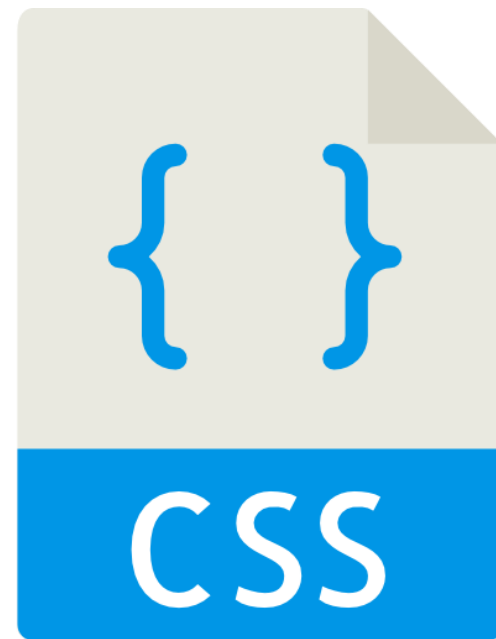
CSS specifies how HTML items should appear.



It provides effective ways to declare numerous attributes to diverse objects.

Uses of CSS

With CSS, one can specify the number of style properties for a given HTML element.



Each property has a name and value, with a colon between them (:). A semicolon separates each attribute statement (;). External stylesheets reside in the CSS files.

Uses of CSS

With CSS, one can specify the number of style properties for a given HTML element.

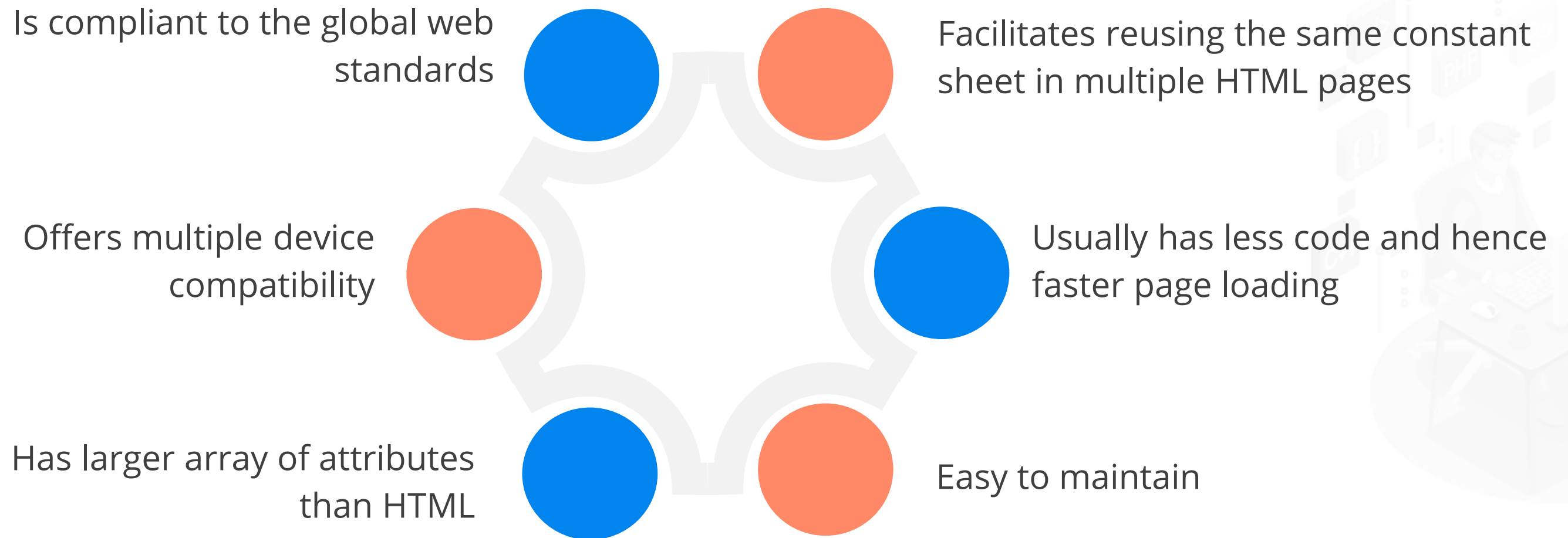
```
element {  
  property: value.  
}  
  
<!DOCTYPE html>  
<html>  
  <head>  
    <style>  
      p {  
        color: grey.  
        font-size:20px.  
        text-align left.  
      }  
    </style>  
    <title>Welcome to CSS Family</title>  
  </head>  
  <body>  
    <p>CSS Introduction added here</p>  
    <p>Paragraph starts from here</p>  
  </body>  
</html>
```



Advantages of CSS

Advantages of CSS

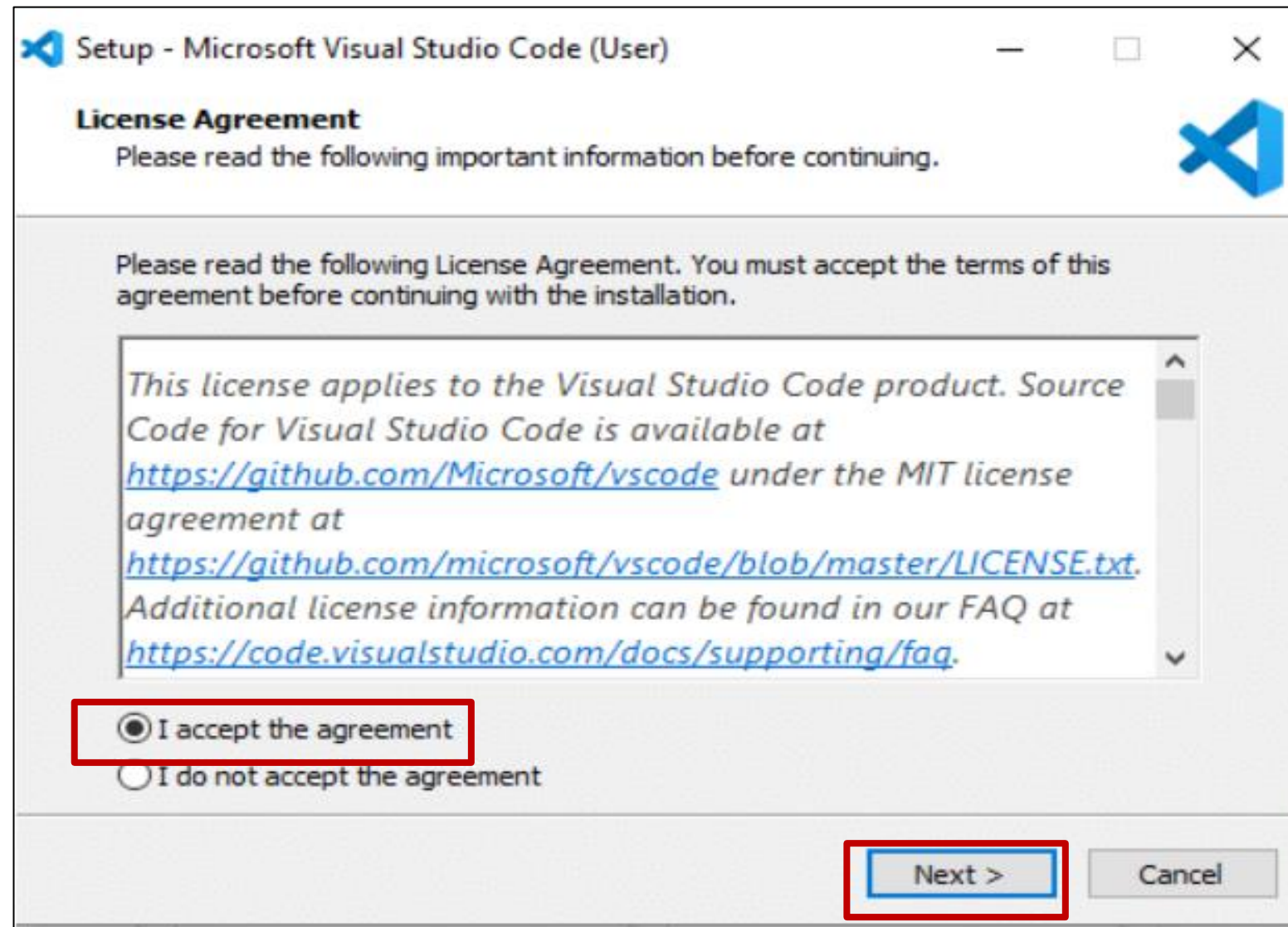
CSS is one of the most used style languages on the web.



Workspace and Text Editor Setup

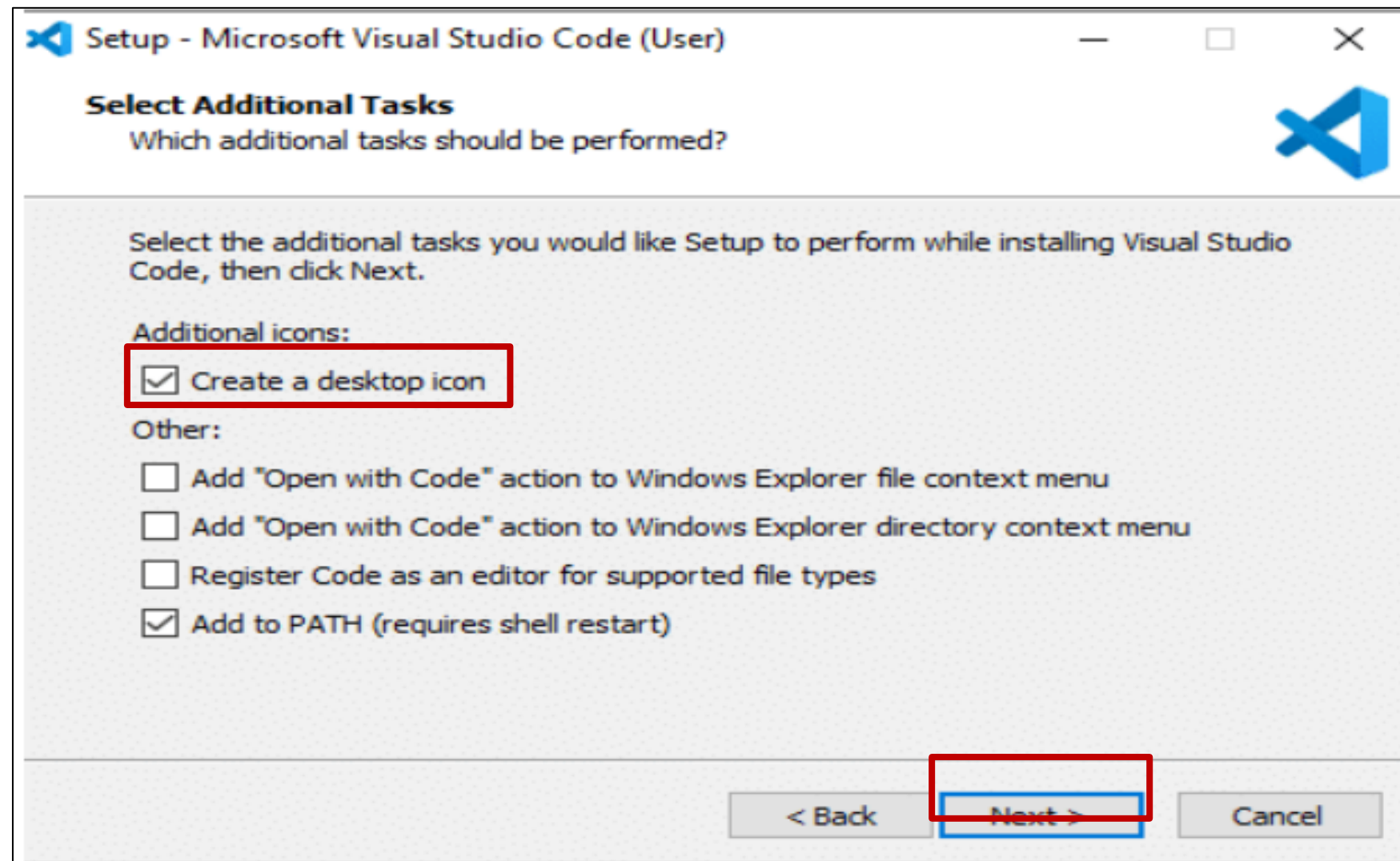
Setting Up Visual Studio

There are multiple options for IDE, one of which is VS code editor



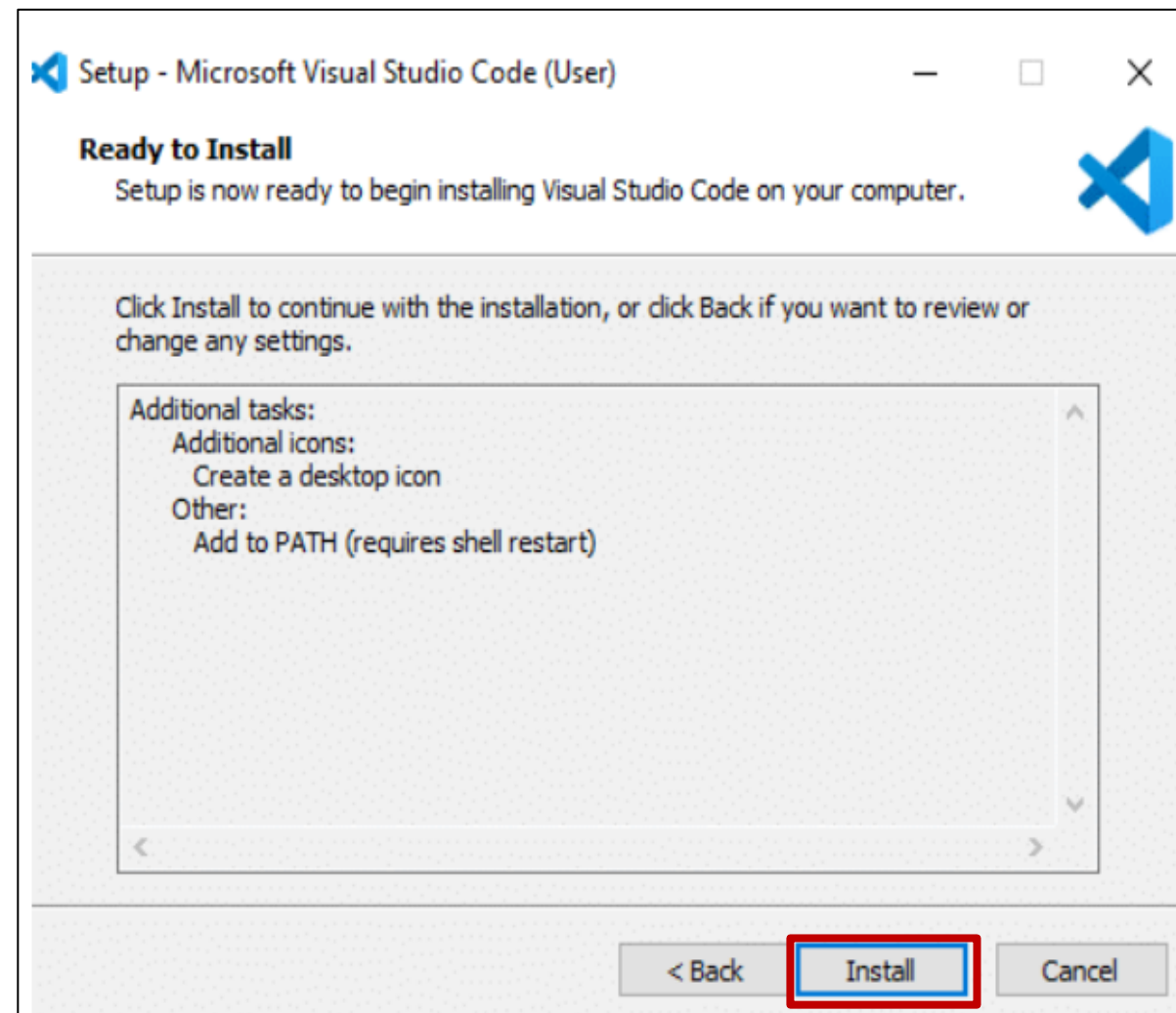
Setting Up Visual Studio

Click on the create a desktop icon and click Next



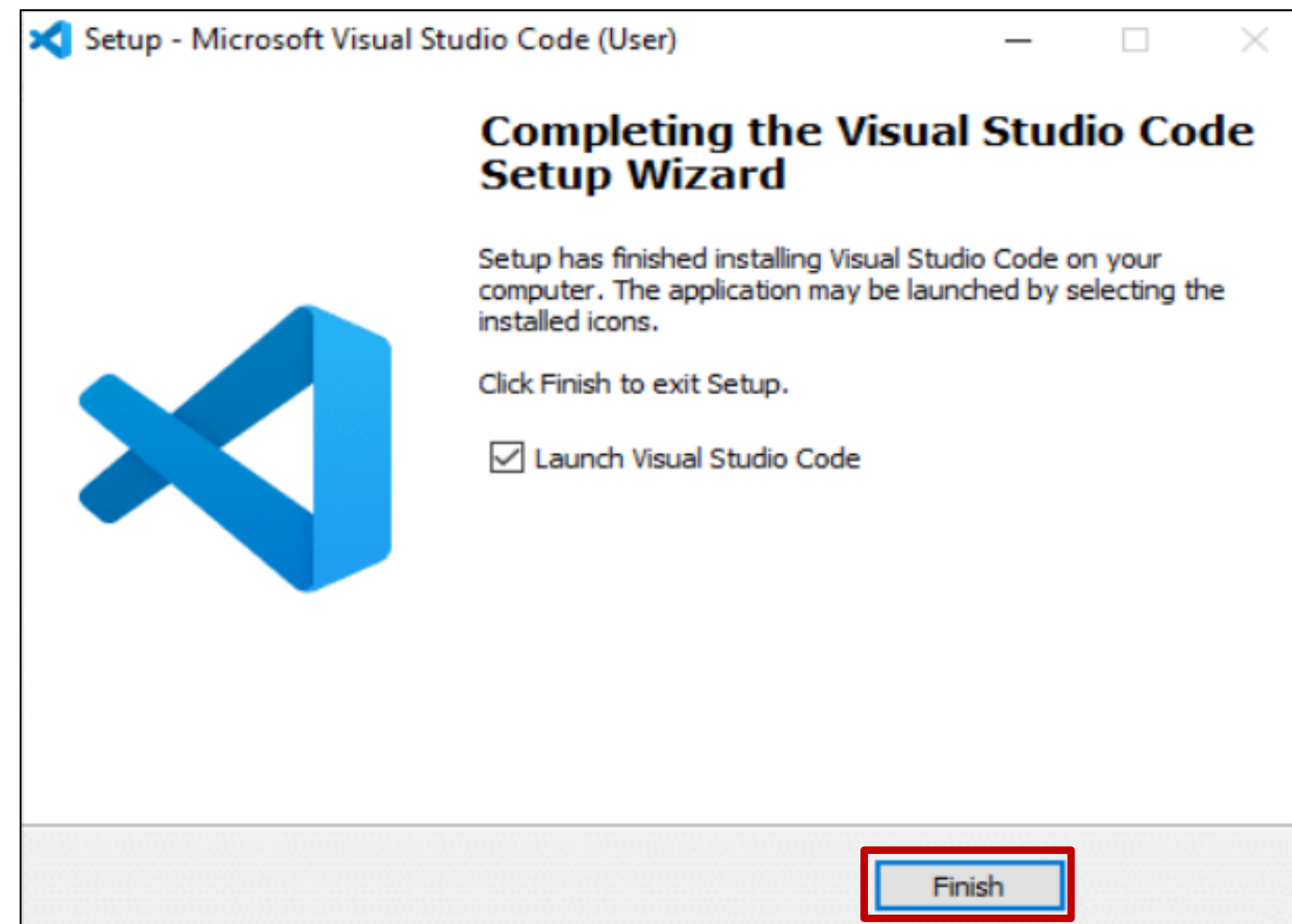
Setting Up Visual Studio

Next, click on Install



Setting Up Visual Studio

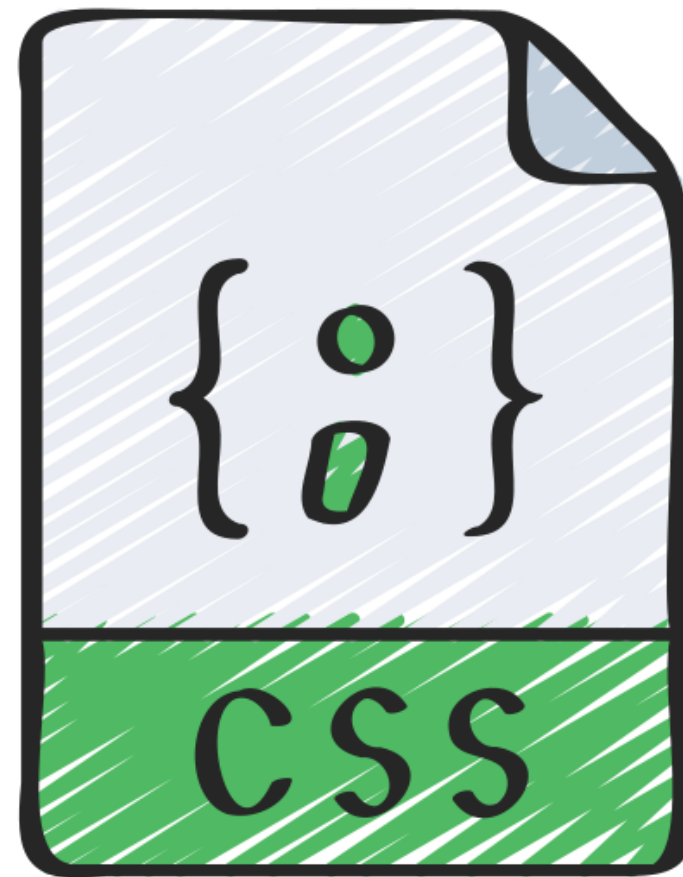
After completion of installation, click on finish to open the Visual Studio Code



Inline CSS

What Is Inline CSS?

Use the style attribute to apply the style sheet rules to HTML elements



Inline CSS is used to change style of a single element.



Inline CSS: Syntax

The syntax can be written as:

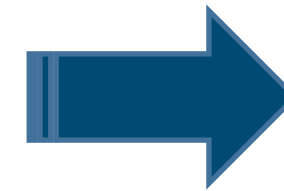
```
<p style=" color: blue; font-size:20px;>  
</p>
```



Inline CSS: Example

CSS code:

```
<!DOCTYPE html>
<html>
<head>
<title>Inline CSS</title>
</head>
<body>
<p style=" color:■ red">This is red</p>
<p style=" color:■ green; font-size:25px">This is
green</p>
</body>
</html>
```



Output:

This is red

This is green

External CSS

What Is External CSS?

To use the style sheet on multiple pages, it is always best to define a common style sheet in a separate file.



External CSS can be created in any text editor and saved with a **.CSS** extension.

External CSS: Syntax

The syntax can be written as:

```
. custom {  
color: yellow.  
font-size:20px.  
text-align center.  
}
```



External CSS: Syntax

Style CSS file:

```
. pink {  
color: pink.  
}  
. purple {  
color: purple.  
font-size:25px.  
}  
. thick {  
font-size:25px.  
}
```

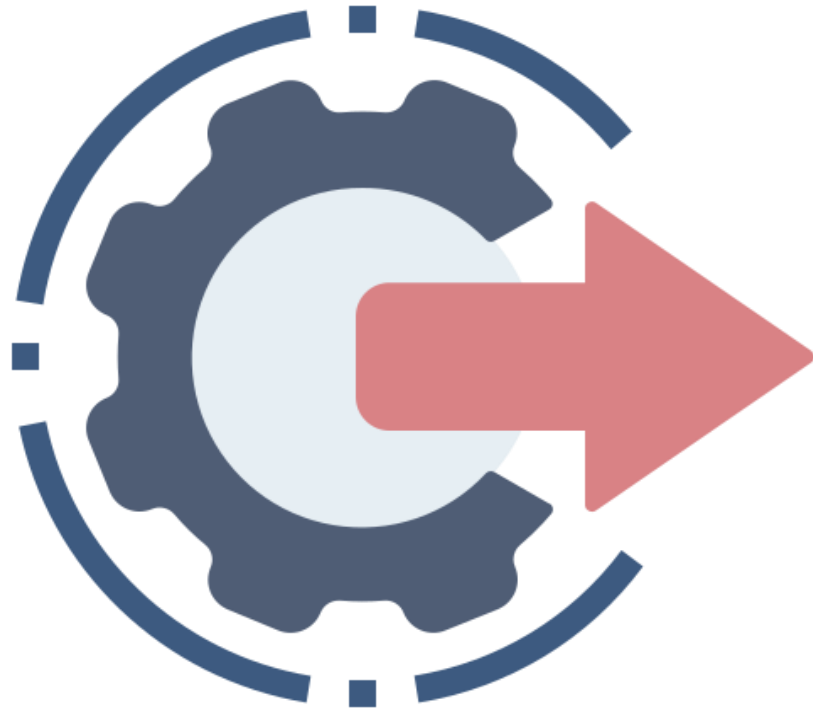
Design

HTML file:

```
<!DOCTYPE html>  
<html>  
<head>  
<title>External CSS</title>  
<link rel=" stylesheet" type="text/css" href=" style.css"/>  
</head>  
<body>  
<p class=" pink">This is pink</p>  
<p class=" purple">This is purple and thick</p>  
<p class=" thick">This is thick</p>  
</body>  
</html>
```

Structure

External CSS: Syntax



Output:

This is pink

This is purple and thick

This is thick



Internal CSS

What Is Internal CSS?

Use the style tag to include the internal style sheet rules in the HTML document's header section

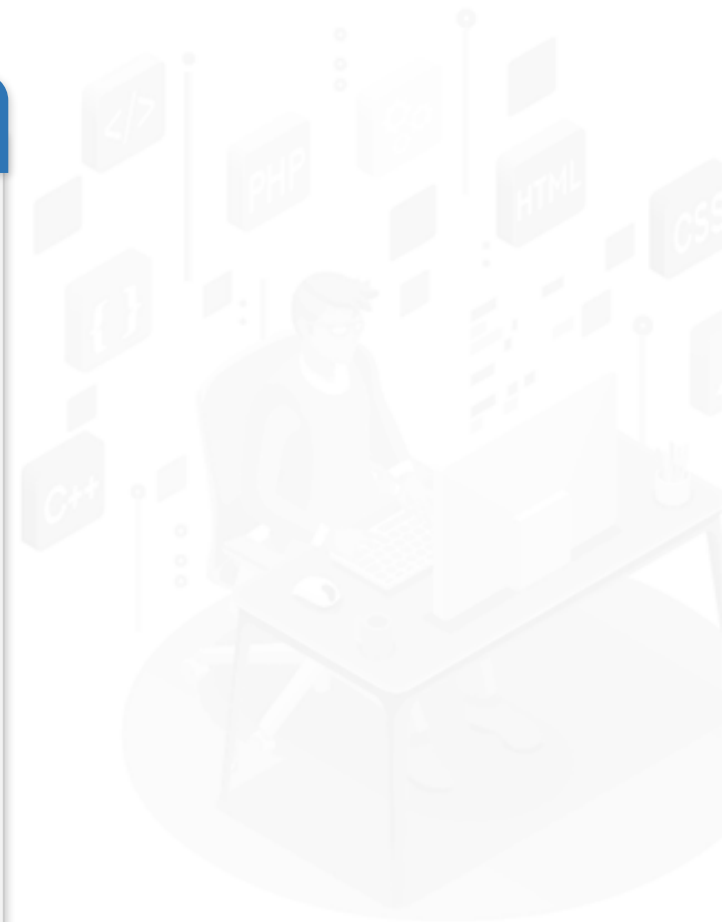


Internal CSS is employed when a single page has a distinct design that is completely different from others.

Internal CSS: Syntax

The syntax for internal CSS :

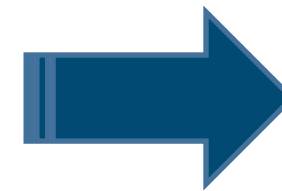
```
<style>
. blue {
color: blue.
}
. yellow {
color: yellow.
font-size:20px.
}
```



Internal CSS: Example

CSS code:

```
<!DOCTYPE html>
<html>
<head>
<title>Internal CSS</title>
<style>
. orange {
color: orange.
}
. blue {
color: blue.
font-size:25px.
}
</style>
</head>
<body>
<p class=" orange">This is orange</p>
<p class=" blue">This is blue and thick</p>
</body>
</html>
```



Output:

This is orange

This is blue and thick

Key Takeaways

- CSS stands for Cascading Style Sheets, which indicates the presence of web pages.
- CSS provides effective ways to declare numerous attributes to diverse objects.
- Inline CSS is used to change the style of a single element.
- The external style sheet allows one to change the appearance of an entire website by changing only one file.
- The style tag can be used to include the internal style sheet rules in the HTML document's header section.



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Thank You