Coding Bootcamp

CSS

Introduction to CSS

Learning Objectives

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

◉ Utilize the CSS language and its syntax for styling web pages

◉ List the advantages of using CSS in web development for creating consistent and maintainable designs

◉ Set up the workspace and text editor for working with CSS efficiently for streamlined development

Learning Objectives

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

◉ Apply inline CSS to HTML elements for quick and specific styling changes

◉ Implement internal and external CSS effectively for managing styles across multiple web pages

Overview of CSS

What Is CSS?

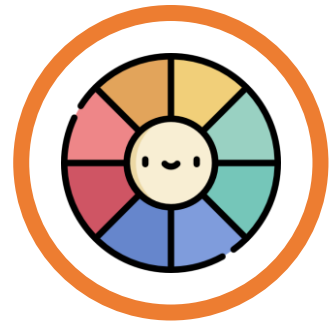It stands for Cascading Style Sheets and is a style sheet language to define the visual presentation of web pages.

It controls layout, colors, fonts, and other visual aspects of HTML elements.

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Uses of CSS

It is used to:

Change the color of the text
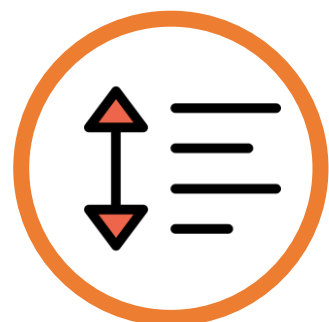
Adjust the layout and design
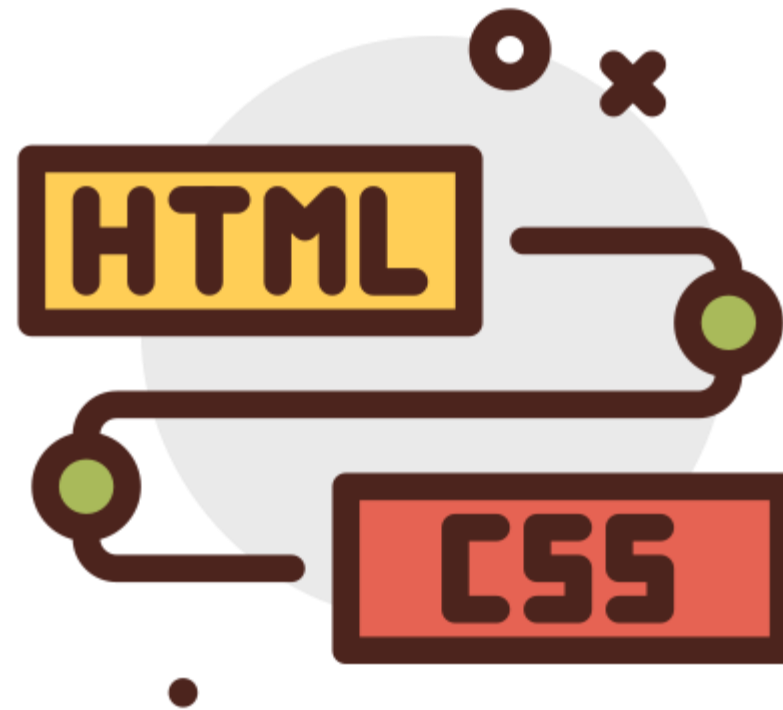
Change the font style

Change the background colors

Add or remove spacing between the paragraphs

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Features of CSS
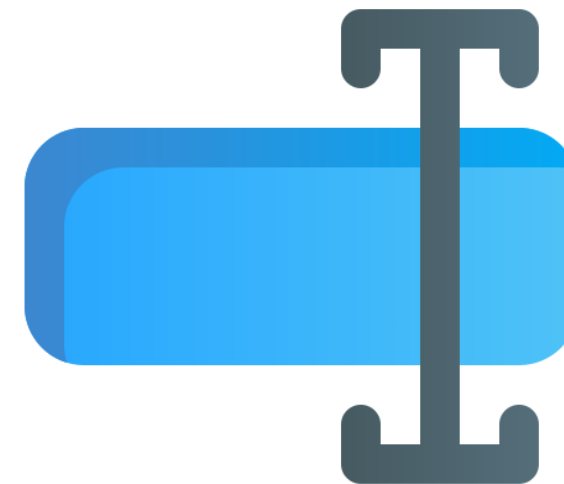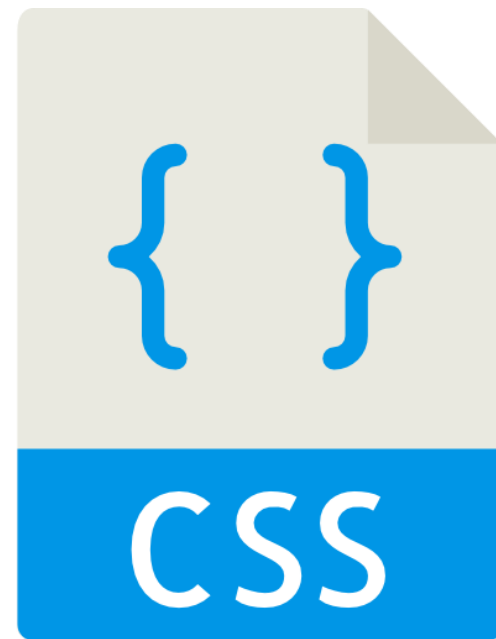
It specifies how HTML items should appear.

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

Features of CSS

It allows one to specify numerous 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 CSS files.

Example of CSS

The following CSS code styles the <p> elements within the HTML document:

```
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>
```
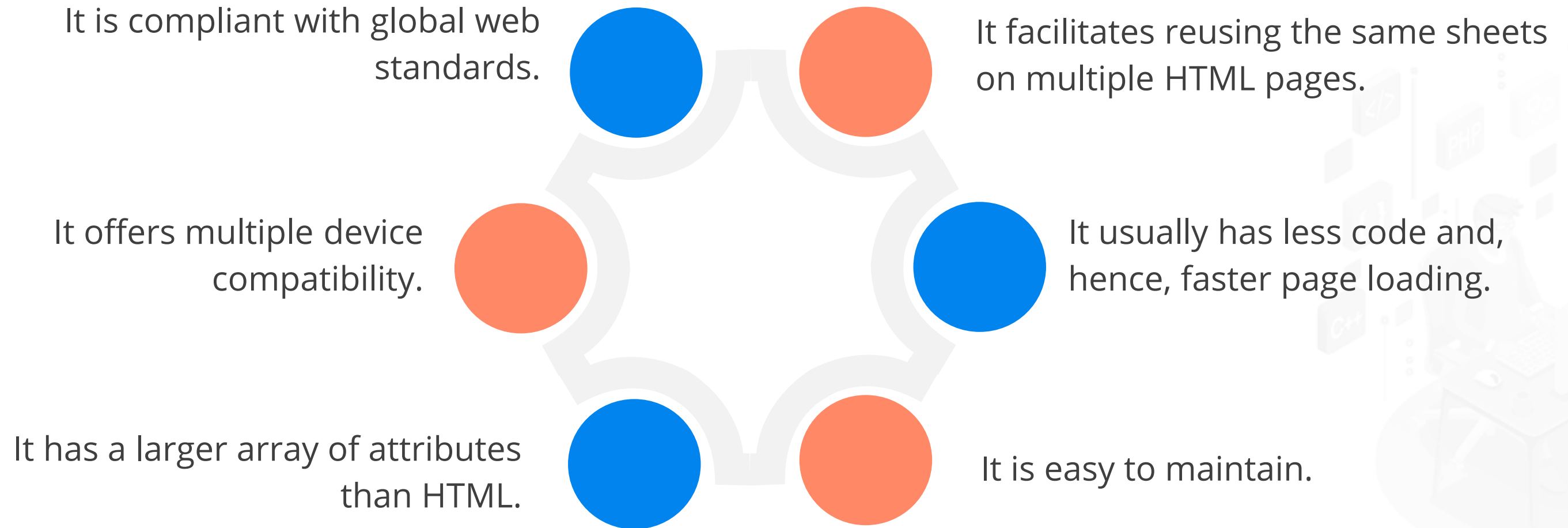
Advantages of CSS

It is compliant with global web standards.

It facilitates reusing the same sheets on multiple HTML pages.

It offers multiple device compatibility.

It usually has less code and, hence, faster page loading.
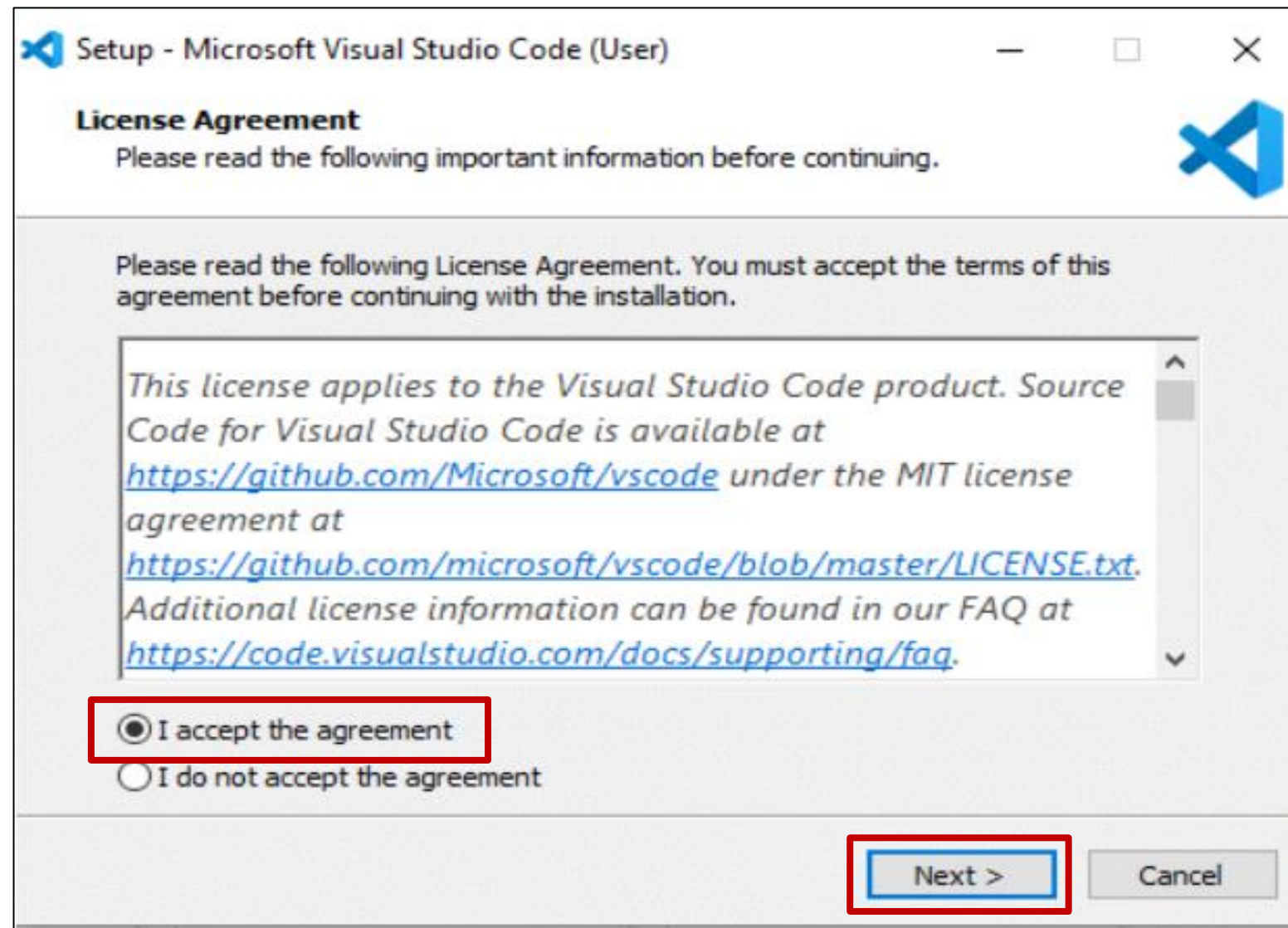
It has a larger array of attributes than HTML.

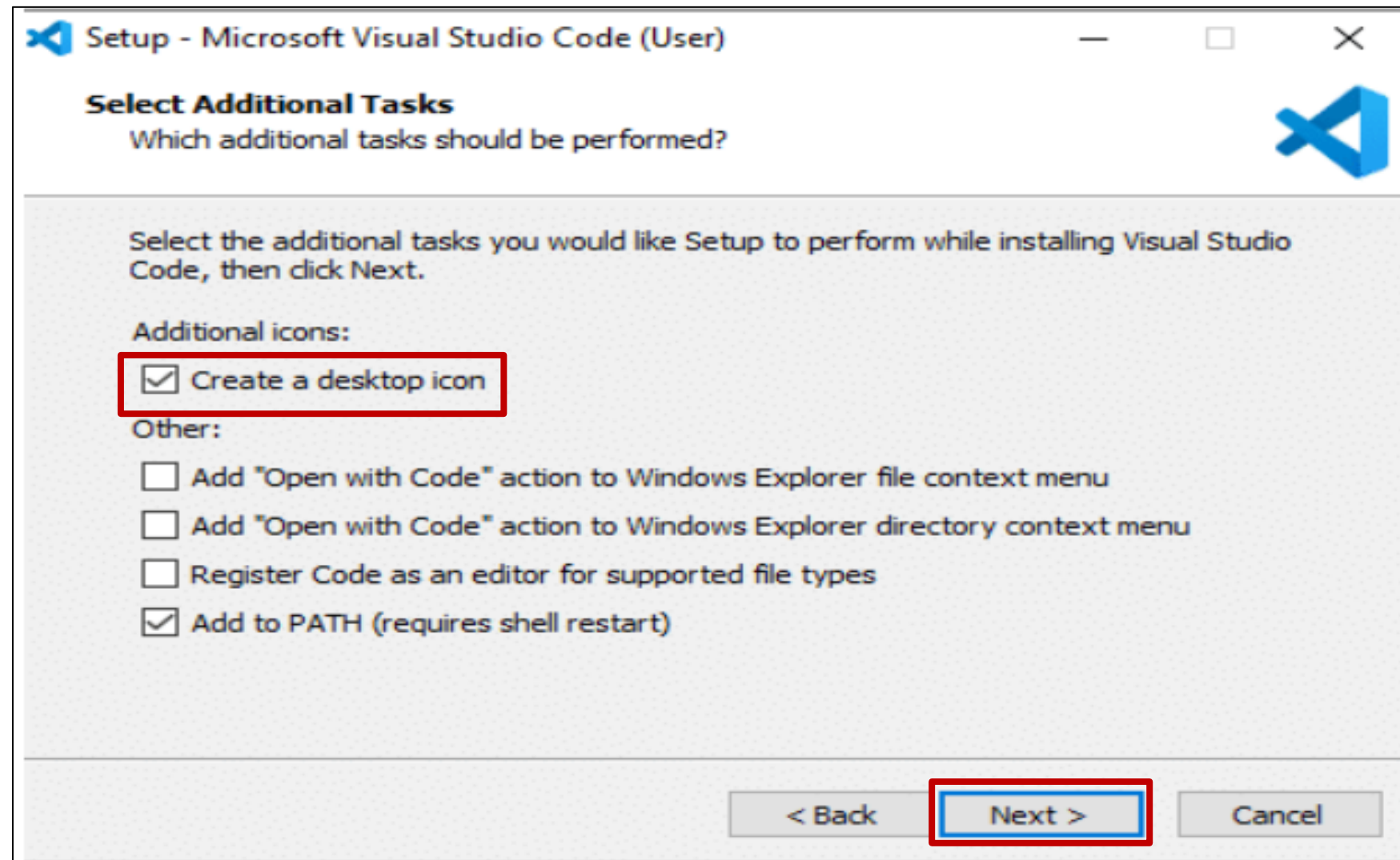It is easy to maintain.

Text Editor Setup

Setting Up Visual Studio

Select the **I accept the agreement** radio button. After accepting the agreement, click on the **Next >** button to move forward with the setup process.
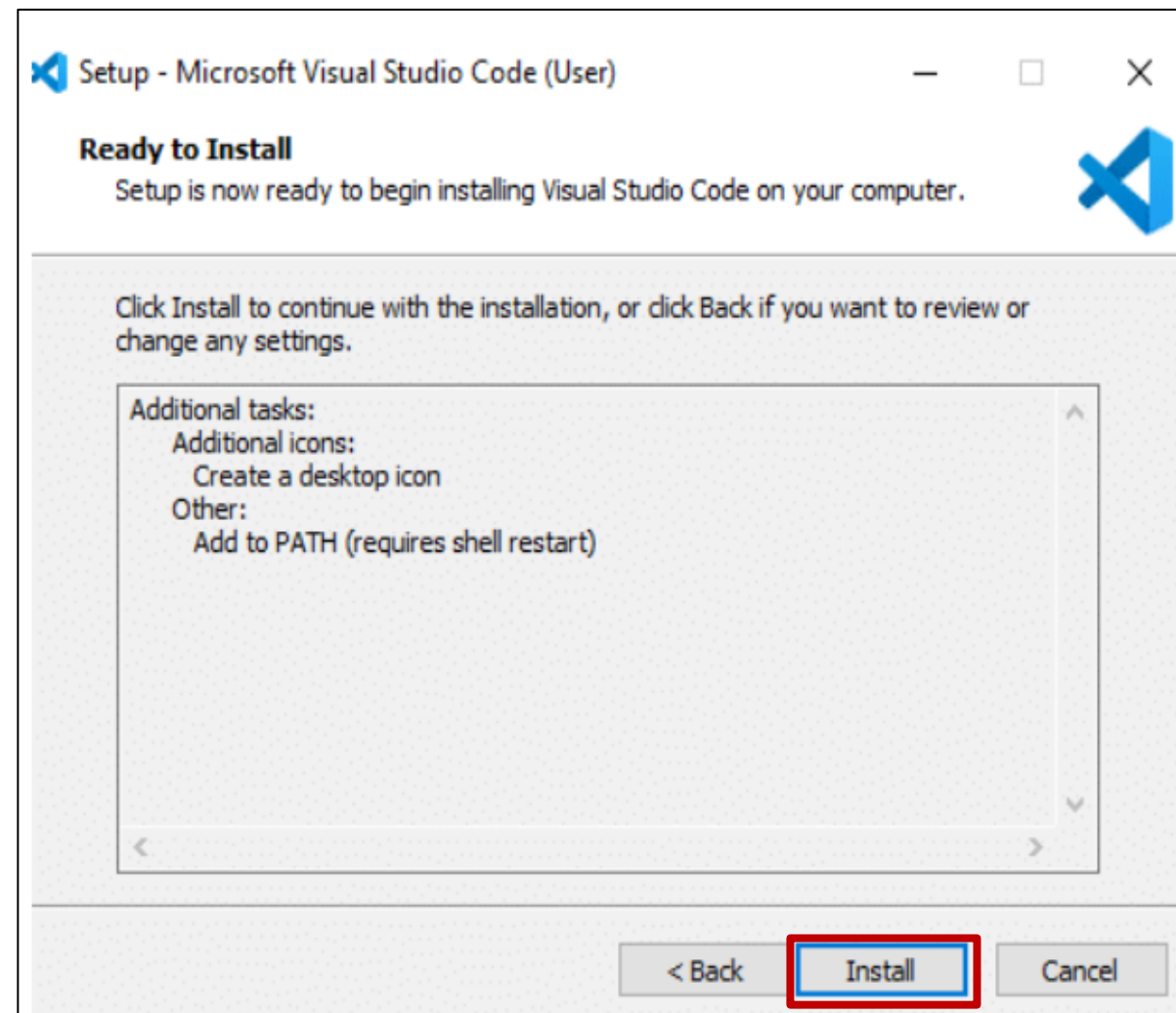
Setting Up Visual Studio

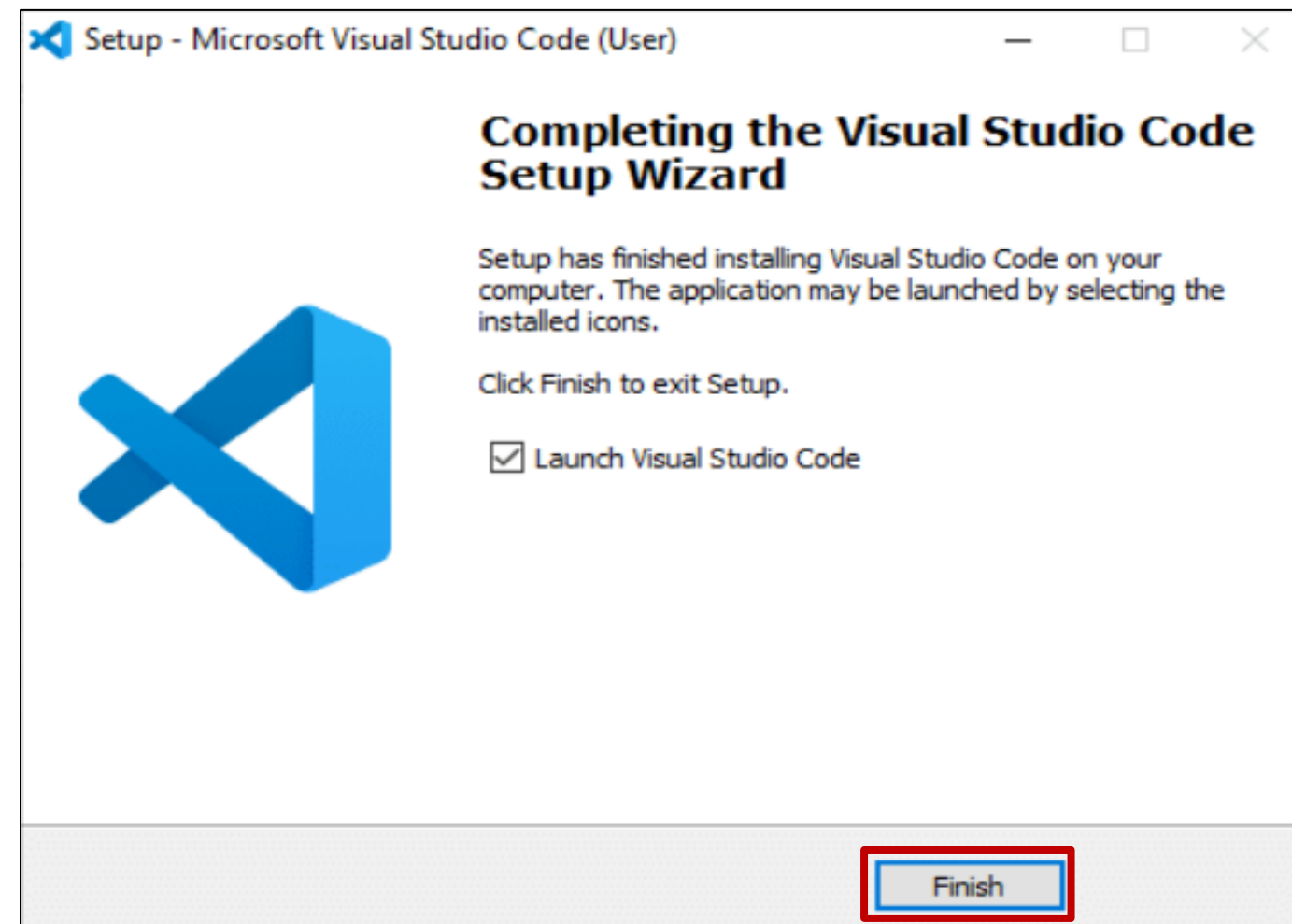Click on the **Create a desktop icon** checkbox and click **Next.**

Setting Up Visual Studio

Click on the **Install** button.

Setting Up Visual Studio

After the installation, click **Finish** to open the Visual Studio Code.

Inline CSS

What Is Inline CSS?

It is a method of applying CSS styles directly within an HTML element using the **style** attribute.
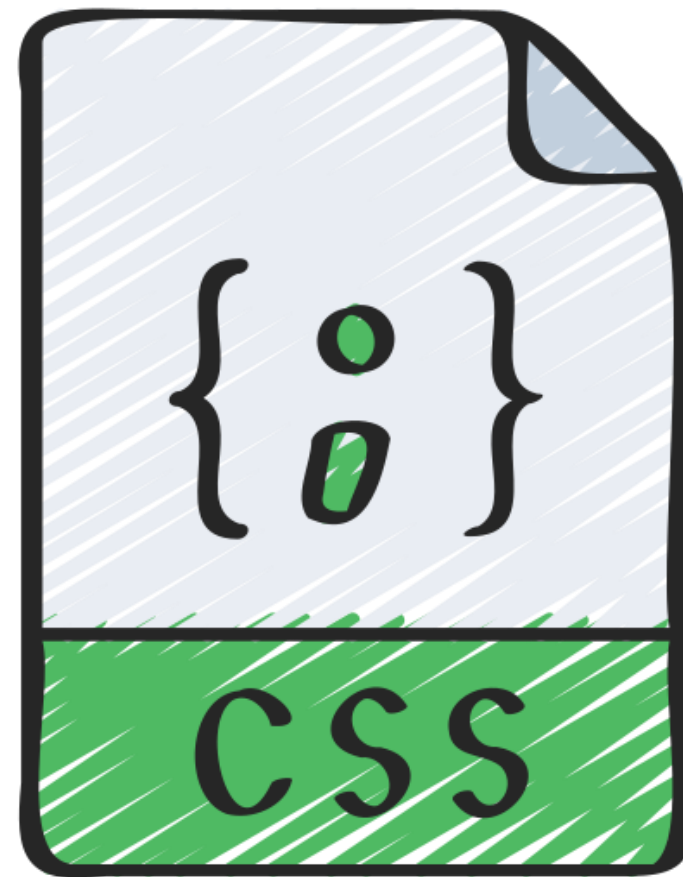
This technique defines specific styles for individual elements without needing an external stylesheet or internal CSS block.

Inline CSS: Syntax

The syntax for applying inline CSS is shown in the example below:

```
<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>
```
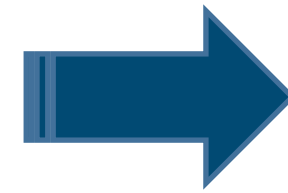
Output

This is red

This is green

Adding Inline Styles

Problem Statement:

You have been asked to develop the HTML file using inline styles.

Outcome:

By completing this task, you will understand how to directly style HTML elements using inline CSS

> **Note**: Refer to the demo document for detailed steps:
> 01_Adding_Inline_Styles

ASSISTED PRACTICE

Assisted Practice: Guidelines

Steps to be followed are:

1. Create the index.html file
2. Add inline styles to the webpage
3. View the results in your local browser

Internal CSS

What Is Internal CSS?

It is a method of including CSS rules directly within an HTML document. These styles are defined inside a **<style>** tag in the HTML document's **<head>** section.

<style>

It allows developers to define specific styles for individual elements without needing an external stylesheet or internal CSS block.

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Internal CSS: Syntax

The syntax for internal CSS can be written as:

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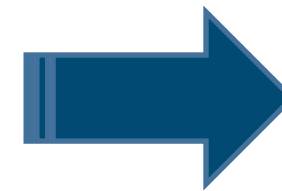
Internal CSS: Example

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

External CSS

What Is External CSS?

It is a method of applying styles to multiple web pages by linking them to a common stylesheet stored in a separate file.

<link> tag

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: Example

Style CSS file:

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

Design

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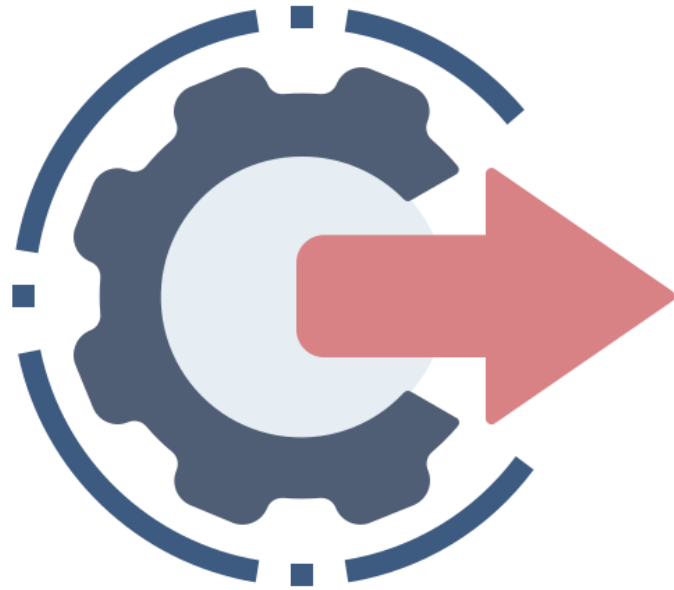
```
<!DOCTYPE html>
<html>
<head>
<title>External CSS</title>
<link rel=" stylesheet" type="text/css" href=" style.css"/>
</head>
<body>
<p class=" pink">This is pink</p>
<p class=" purple">This is purple and thick</p>
<p class=" thick">This is thick</p>
</body>
</html>
```

Structure

External CSS: Example

Output

This is pink

This is purple and thick

This is thick

Adding External Styles

Problem Statement:

You have been asked to develop an HTML file with external styling.

Outcome:

By completing this task, you will learn how to enhance the appearance of web pages using external stylesheets.

Note: Refer to the demo document for detailed steps:
02_Adding_External_Styles

ASSISTED PRACTICE

Assisted Practice: Guidelines

Steps to be followed are:

1. Create the index.html and styles.css files
2. Add external styling with styles.css
3. View the results in your local browser

Key Takeaways

◉ CSS stands for Cascading Style Sheets, a style sheet language used to define the visual presentation of web pages.

◉ CSS provides effective ways to declare numerous attributes for diverse objects.

◉ Inline CSS changes 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 include the internal style sheet rules in the HTML document's header section.

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TECHNOLOGY

Thank You

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