

Introduction to CSS	
	this activity sheet, you'll learn how to style web pages using CSS nagic tool that helps make websites look cool and user-friendly.
Activity 1: CSS Basics	
1. What does CSS stand for?	
<ol> <li>a) Colorful Style Sheets</li> <li>b) Cascading Style Sheets</li> <li>c) Creative Style Sheets</li> <li>d) Coding Style Sheets</li> </ol>	
Answer: b) Cascading Style Sheets	

ACTIVITY 2: COIO	r Palette
Create a color pa	lette for a website using the following colors:
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Draw a simple diagram showing where each element would be placed on the page.
Activity 5: CSS Selectors
What is the difference between a class and an ID in CSS?
<ol> <li>a) A class is used for multiple elements, while an ID is used for a single element.</li> <li>b) A class is used for a single element, while an ID is used for multiple elements.</li> <li>c) A class and an ID are the same thing.</li> <li>d) A class is used for styling, while an ID is used for layout.</li> </ol>
Answer: a) A class is used for multiple elements, while an ID is used for a single element.

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What is the purpose of the `background-color` property in CSS?
<ol> <li>a) To change the text color</li> <li>b) To change the background color</li> <li>c) To change the font style</li> <li>d) To add an image to the background</li> </ol>
Answer: b) To change the background color
Activity 7: Design Principles
What are the three basic design principles?
<ol> <li>a) Balance, contrast, emphasis</li> <li>b) Color, font, layout</li> <li>c) Image, video, audio</li> <li>d) Navigation, interaction, animation</li> </ol>
Answer: a) Balance, contrast, emphasis

Activity 8: Web Page Design
Design a simple web page using the design principles learned. Consider the balance, contrast, and emphasis in your design.
<u> </u>
Activity 9: CSS Quiz
Take a short quiz to test your understanding of CSS basics:
What is the syntax for changing the text color to red?     1. a) `color: red;`
2. b) `text-color: red;` 3. c) `background-color: red;`
4. d) `font-color: red;` 2. What is the purpose of the `margin` property in CSS?
a) To add space between elements     b) To change the background color
3. c) To change the font style 4. d) To add an image to the background
Answer: a) `color: red;` and a) To add space between elements

Create a simple activity sheet.	web page using HTML and CSS. Apply the design principles and CSS concepts learned in th
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<ul><li>CodePen</li><li>CSS Coloring Book</li></ul>	

Conclusion	
Congratulations! You've completed the Styling Web Pages with CSS activity sheet. Keep practicing and soon you'll be a web design master!	
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### **Advanced CSS Concepts**

Now that you have a solid understanding of the basics, it's time to dive into some advanced CSS concepts. One of the most powerful features of CSS is its ability to create complex layouts using flexbox and grid. Flexbox is a layout mode that allows you to easily create flexible, responsive layouts, while grid is a more powerful layout system that allows you to create two-dimensional grids.

### **Example: Flexbox Layout**

To create a flexbox layout, you need to define a container element and set its display property to flex. You can then add child elements to the container and use the flex-grow and flex-shrink properties to control their size and position.

```
.container {
    display: flex;
    flex-direction: row;
}
.child {
    flex-grow: 1;
    flex-shrink: 1;
}
```

### Case Study: Responsive Design

A responsive design is a design that adapts to different screen sizes and devices. To create a responsive design, you need to use media queries to apply different styles based on the screen size. For example, you can use the following media query to apply a different layout on small screens:

```
@media only screen and (max-width: 600px) {
    .container {
        flex-direction: column;
    }
}
```

### **CSS Preprocessors**

CSS preprocessors are tools that allow you to write CSS code in a more efficient and modular way. They provide features such as variables, nesting, and mixins, which can help you write more maintainable and efficient CSS code. Some popular CSS preprocessors include Sass, Less, and Stylus.

### **Example: Sass Variables**

In Sass, you can define variables using the \$ symbol. You can then use these variables throughout your CSS code to apply consistent styles.

```
$primary-color: #333;
.header {
    background-color: $primary-color;
}
```

### Case Study: Modular CSS

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Modular CSS is a approach to writing CSS code that emphasizes modularity and reusability. By breaking down your CSS code into smaller, independent modules, you can make it easier to maintain and update your styles.

```
/* module.scss */
.module {
    background-color: #f0f0f0;
    padding: 20px;
}
```

#### CSS Frameworks

CSS frameworks are pre-built sets of CSS classes and styles that can help you quickly build responsive and consistent layouts. Some popular CSS frameworks include Bootstrap, Foundation, and Bulma.

# Example: Bootstrap Grid

Bootstrap provides a powerful grid system that allows you to create complex layouts using a simple and intuitive syntax.

Column 1

Column 2

Column 3

# Case Study: Customizing Bootstrap

While Bootstrap provides a lot of built-in styles and components, you can also customize it to fit your specific needs. By using Sass variables and overrides, you can change the look and feel of Bootstrap to match your brand.

```
$primary-color: #333;
@import "bootstrap";
```

### **CSS Best Practices**

Writing clean, efficient, and maintainable CSS code is crucial for building fast and scalable websites. Here are some best practices to keep in mind:

- · Use a consistent naming convention
- Use meaningful class names
- Avoid using inline styles
- Use a preprocessor or framework

# **Example: Organizing CSS Code**

By organizing your CSS code into separate files and using a consistent naming convention, you can make it easier to maintain and update your styles.

```
/* styles.css */
.header {
    background-color: #333;
}
```

#### Case Study: Refactoring CSS Code

Refactoring CSS code involves simplifying and optimizing existing code to make it more efficient and maintainable. By removing unnecessary styles and consolidating similar code, you can improve the performance and scalability of your website.

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```
/* before */
.header {
    background-color: #333;
    padding: 20px;
}
.footer {
    background-color: #333;
    padding: 20px;
}
/* after */
.header, .footer {
    background-color: #333;
    padding: 20px;
}
```

### **CSS Tools and Resources**

There are many tools and resources available to help you write and optimize your CSS code. Here are a few popular ones:

- · Chrome DevTools
- Firefox Developer Edition
- CSS Lint
- Stylelint

#### Example: Using Chrome DevTools

Chrome DevTools provides a powerful set of tools for inspecting and debugging your CSS code. You can use the Elements tab to inspect the HTML and CSS of a webpage, and the Styles tab to edit and debug your CSS code.

```
/* inspecting CSS code in Chrome DevTools */
```

# Case Study: Optimizing CSS Code

By using tools like CSS Lint and Stylelint, you can identify and fix errors and inefficiencies in your CSS code. This can help improve the performance and scalability of your website.

```
/* optimizing CSS code with CSS Lint */
```

#### Conclusion

In this guide, we've covered the basics of CSS and explored some advanced concepts and techniques. We've also discussed the importance of writing clean, efficient, and maintainable CSS code, and provided some best practices and tools to help you achieve this.

### **Example: Putting it all Together**

By applying the concepts and techniques covered in this guide, you can create fast, scalable, and maintainable websites that provide a great user experience.

```
/* example of well-organized CSS code */
```

# Case Study: Real-World Example

Let's take a look at a real-world example of a website that uses CSS to provide a great user experience. We'll explore the CSS code and discuss how it's used to create a responsive and maintainable design.

```
/* example of real-world CSS code */
```



#### Introduction to CSS

Welcome to the world of web design! In this activity sheet, you'll learn how to style web pages using CSS (Cascading Style Sheets). CSS is like a magic tool that helps make websites look cool and user-friendly.

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