

CSS Zen Garden

Create js/script.js and link to index.html

All codes should be entered within script.js

Study the DOM structure using developer tools



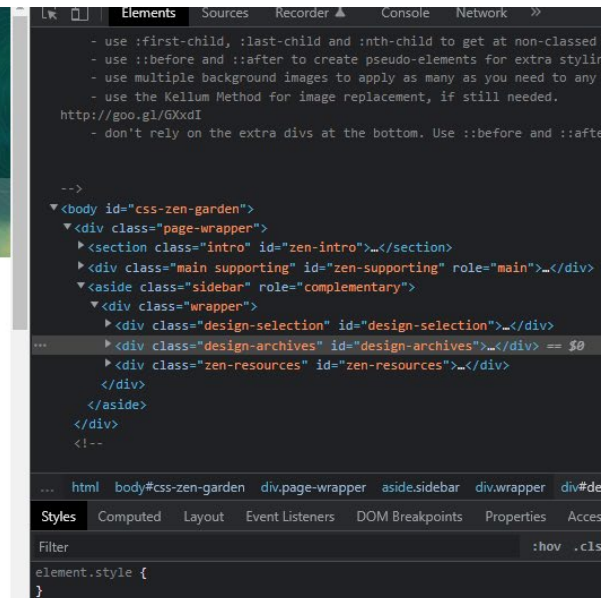
A demonstration of what can be accomplished through CSS-based design. Select any style sheet from the list to load it into this page.

Download the example  HTML FILE and  CSS FILE

THE ROAD TO ENLIGHTENMENT

Littering a dark and dreary road lay the past relics of browser-specific tags, incompatible DOMs, broken CSS support, and abandoned browsers.

We must clear the mind of the past. Web enlightenment has been achieved thanks to the tireless efforts of folk like the [W3C](#), [WASP](#), and the major browser creators.



document.getElementById

□ Note that it is not document.getElementBylD (small 'D')

□ Returns a reference to the element by its Id.

```
<body id="css-zen-garden">
/<div class="page-wrapper">

  <section class="intro" id="zen-intro">
    <header role="banner">
      <h1>CSS Zen Garden</h1>
      <h2>The Beauty of <abbr title="Cascading Style Sheets">CSS</abbr> Design</h2>
    </header>

// JavaScript Document
var intro = document.getElementById("zen-intro");
console.log(intro);

//console
📄 section#zen-intro.intro
```

document.getElementById

- Try it: get the following IDs.

```
<div class="summary" id="zen-summary" role="article">
```

```
<div class="main supporting" id="zen-supporting" role="main">
```

document.getElementsByTagName

- Note that it is document.getElemen^sByTagName
- Returns an HTMLCollection of elements with the given tag name. Treat the HTMLCollection as an array and to index it using array notation.

```
//html
```

```
<h1>CSS Zen Garden</h1>
```

```
//JavaScript Document
```

```
var mainheader = intro.getElementsByTagName("h1");  
console.log(mainheader);
```

```
//console
```

```
▼ HTMLCollection[1] ⓘ
```

```
▼ 0: h1
```

```
  innerHTML: "CSS playground"
```

innerHTML

- Sets or returns the HTML content (inner HTML) of an element.

How to drill down a HTMLCollection

- Use array notation []
- Array index starts from 0.

```
//JavaScript Document
```

```
var temp = document.getElementsByTagName("h1");  
console.log(temp[0].innerHTML);
```

```
//console
```

```
CSS Zen Garden
```

document.getElementsByTagName

- Try it: get the following Tags

- h3

```
▼ [h3, h3, h3, h3, h3, h3.select, h3.archives, h3.resources] ⓘ  
  ▶ 0: h3  
  ▶ 1: h3  
  ▶ 2: h3  
  ▶ 3: h3  
  ▶ 4: h3  
  ▶ 5: h3.select  
  ▶ 6: h3.archives  
  ▶ 7: h3.resources  
    length: 8  
  ▶ __proto__: HTMLCollection
```

- p

```
▶ [p, p, p, p, p, p, p, p, p, p, p, p, p, p, p]
```

- Try it: get the 4th innerHTML of the Tags

Using both ID and Tag

- IDs may not be in the part you want to extract. You may need to combine the use of ID and Tag.

```
<div class="preamble" id="zen-preamble" role="article">  
  <h3>The Road to Enlightenment</h3>  
  <p>Littering a dark and dreary road lay the past relics of b
```

- While we can find by `<p>` tag, sometimes we want to go through an ID rather than list all the tags.

```
//JavaScript Document  
var zenPreamble = document.getElementById("zen-preamble");  
var p = zenPreamble.getElementsByTagName("p");  
console.log(p[0].innerHTML);
```


document.getElementsByClassName

- Returns an array-like object of all child elements which have all of the given class names.

```
//JavaScript Document
```

```
var temp = document.getElementsByClassName("design-name");  
console.log(temp);
```

```
//console
```

```
▼ [a.design-name, a.design-name, a.design-name, a.design-name, a.design-name, a.design-name, a.design-name, a.design-name]  
  ▶ 0: a.design-name  
  ▶ 1: a.design-name  
  ▶ 2: a.design-name  
  ▶ 3: a.design-name  
  ▶ 4: a.design-name  
  ▶ 5: a.design-name  
  ▶ 6: a.design-name  
  ▶ 7: a.design-name  
    length: 8  
  ▶ __proto__: HTMLCollection
```

- Try it: How do you get the innerHTML for one of them?

Change the text

- innerHTML can be used to change the text.
- Try it:
 - ▣ Traverse to “zen-intro”, “h1”.
 - ▣ Change the text to “CSS Playground”.
- Try it:
 - ▣ Traverse to “zen-intro”, “h2”.
 - ▣ Change the text to “CSS is Beautiful”.

Redo everything using querySelector!
Save using a new script file (comment
away the earlier code to keep them too)