CSS Selectors

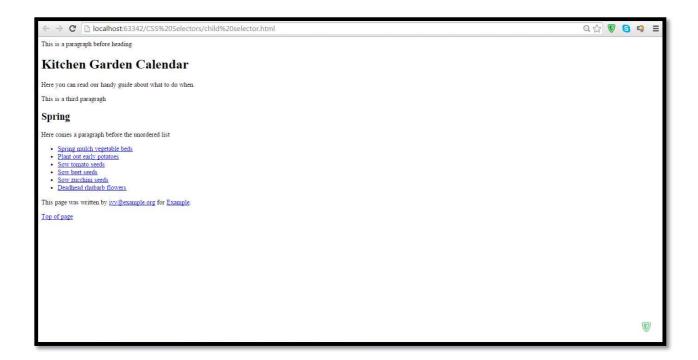
What are CSS Selectors?

- CSS selectors allow you to select and style HTML elements.
- CSS selectors are used to "find" (or select) HTML elements based on their id, class, type, attribute, and more.
- CSS selectors are case sensitive, so they must match element names and attribute values exactly.

SELECTOR	MEANING	EXAMPLE
UNIVERSAL SELECTOR	Applies to all elements in the document	* [] Targets all elements on the page
TYPE SELECTOR	Matches element names	h1, h2, h3 () Targets the <h1>, <h2> and <h3> elements</h3></h2></h1>
CLASS SELECTOR	Matches an element whose class attribute has a value that matches the one specified after the period (or full stop) symbol	.note () Targets any element whose class attribute has a value of note p.note () Targets only elements whose class attribute has a value of note
ID SELECTOR	Matches an element whose id attribute has a value that matches the one specified after the pound or hash symbol	#introduction () Targets the element whose id attribute has a value of introduction
CHILD SELECTOR	Matches an element that is a direct child of another	Targets any <a> elements that are children of an <1i> element (but not other <a> elements in the page)
DESCENDANT SELECTOR	Matches an element that is a descendent of another specified element (not just a direct child of that element)	p a () Targets any <a> elements that sit inside a element, even if there are other elements nested between them
ADJACENT SIBLING SELECTOR	Matches an element that is the next sibling of another	h1+p () Targets the first element after any <h1> element (but not other elements)</h1>
GENERAL SIBLING SELECTOR	Matches an element that is a sibling of another, although it does not have to be the directly preceding element	h1~p () If you had two elements that are siblings of an <h1> element, this rule would apply to both</h1>

I have made few changes in book HTML Code to help you understand well.

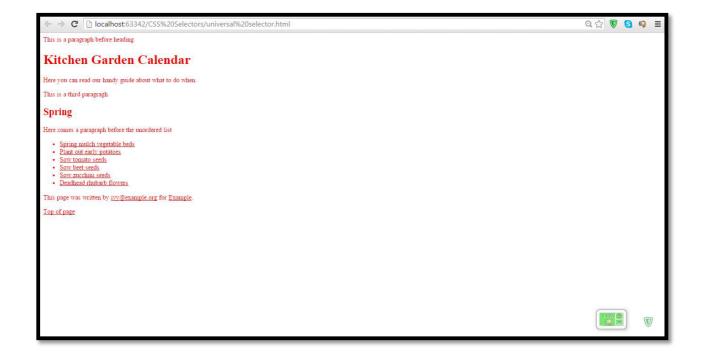
```
<html>
<head>
   <title>CSS Selectors</title>
</head>
<body>
This is a paragraph before heading
<h1 id="top">Kitchen Garden Calendar</h1>
Here you can read our handy guide about what to do when.
This is a third paragragh
<h2 class="note">Spring</h2>
Here comes a paragraph before the unordered list
<u1>
   <1i>>
       <div>
           <a href="mulch.html">Spring mulch vegetable beds</a>
       </div>
   <1i>>
       <a href="potato.html">Plant out early potatoes</a>
   <1i>>
       <a href="tomato.html">Sow tomato seeds</a>
   <1i>>
       <a href="beet.html">Sow beet seeds</a>
   <1i>>
       <a href="zucchini.html">Sow zucchini seeds</a>
   \langle 1i \rangle
       <a href="rhubarb.html">Deadhead rhubarb flowers</a>
This page was written by
   <a href="mailto:ivy@example.org">ivy@example.org</a>
   <a href="http://www.example.org">Example</a>.
</p>
<q>
   <a href="#top">Top of page</a>
</body>
</html>
```



Universal Selector (*):

This selector selects **ALL ELEMENTS**.

```
<html>
<head>
   <title>CSS Selectors</title>
   <style>
         {
              color: red;
         }
   </style>
</head>
<body>
\langle \mathbf{p} \rangleThis is a paragraph before heading\langle \mathbf{p} \rangle
<h1 id="top">Kitchen Garden Calendar</h1>
Here you can read our handy guide about what to do when.
This is a third paragragh
<h2 class="note">Spring</h2>
Here comes a paragraph before the unordered list
<u1>
   <1i>>
       <div>
           <a href="mulch.html">Spring mulch vegetable beds</a>
       </div>
   <a href="potato.html">Plant out early potatoes</a>
   \langle 1i \rangle
       <a href="tomato.html">Sow tomato seeds</a>
   <a href="beet.html">Sow beet seeds</a>
   \langle 1i \rangle
       <a href="zucchini.html">Sow zucchini seeds</a>
   <1i>>
       <a href="rhubarb.html">Deadhead rhubarb flowers</a>
   This page was written by
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   <a href="http://www.example.org">Example</a>.
```



Type Selector

Type Selector is also known as **ELEMENT** selector.

In Type selector, we can apply styling to:

• A Single Element. You will just write the element name and all done. :

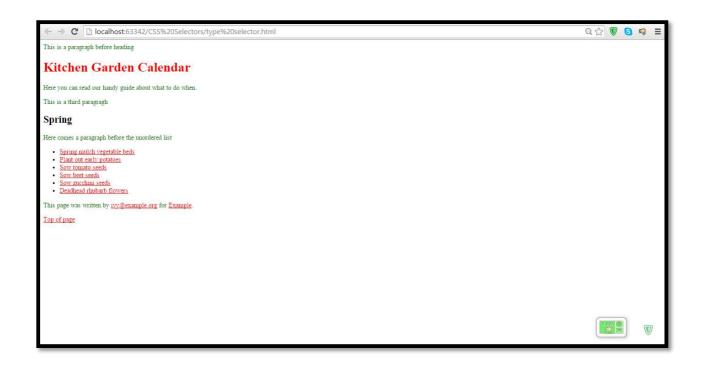
```
p
{
   color: green;
}
```

Multiple Elements. To style several elements with the same style,
 separate each element name with a comma.

```
h1, a
{
    color: red;
}
```

```
<html>
<head>
   <title>CSS Selectors</title>
   <style>
       h1, a
       {
           color: red;
       }
       p
           color: green;
   </style>
</head>
<body>
This is a paragraph before heading
<h1 id="top">Kitchen Garden Calendar</h1>
Here you can read our handy guide about what to do
when.
This is a third paragragh
<h2 class="note">Spring</h2>
Here comes a paragraph before the unordered list
```

```
<ul>
   <1i>>
       <div>
           <a href="mulch.html">Spring mulch vegetable beds</a>
       </div>
   <1i>>
       <a href="potato.html">Plant out early potatoes</a>
   <1i>>
       <a href="tomato.html">Sow tomato seeds</a>
   <a href="beet.html">Sow beet seeds</a>
   <1i>>
       <a href="zucchini.html">Sow zucchini seeds</a>
   <1i>>
       <a href="rhubarb.html">Deadhead rhubarb flowers</a>
   This page was written by
   <a href="mailto:ivy@example.org">ivy@example.org</a>
   for
   <a href="http://www.example.org">Example</a>.
</p>
<q>
   <a href="#top">Top of page</a>
</p>
</body>
</html>
```



Class Selector

The class selector selects elements with a specific class attribute.

To select elements with a specific class, write a period (.) character, followed by the name of the class.

You can select all elements having the specific class.

```
.note
{
    color: red;
}
```

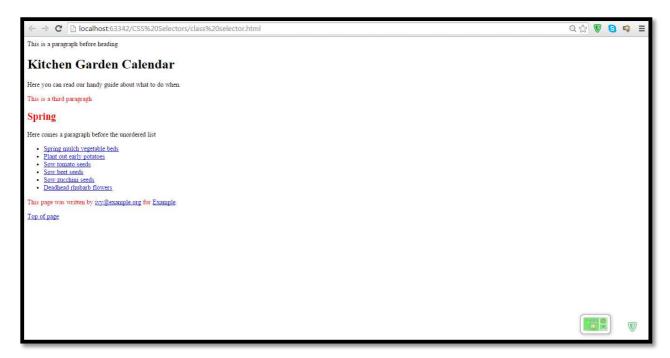
 You can also specify that only specific HTML elements should be affected by a class.

First write the element name and WITHOUT SPACE, write a period (.) character, followed by the name of the class.

```
p.note
{
    color: green;
}
```

Select All Elements having a specific class

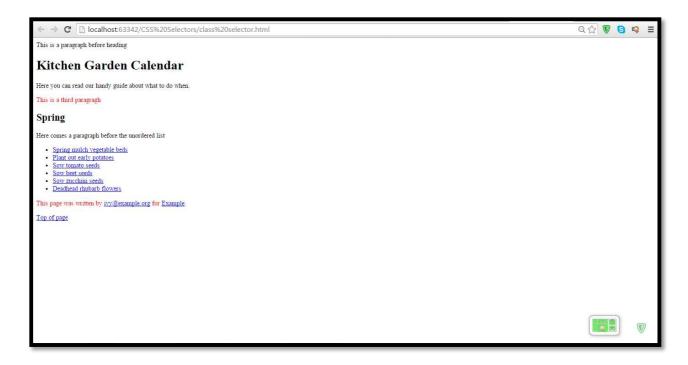
```
<ul>
   <1i>>
       <div>
           <a href="mulch.html">Spring mulch vegetable beds</a>
       </div>
   <1i>>
       <a href="potato.html">Plant out early potatoes</a>
   <1i>>
       <a href="tomato.html">Sow tomato seeds</a>
   <1i>>
       <a href="beet.html">Sow beet seeds</a>
   <1i>>
       <a href="zucchini.html">Sow zucchini seeds</a>
   <1i>>
       <a href="rhubarb.html">Deadhead rhubarb flowers</a>
   </ul>
This page was written by
   <a href="mailto:ivy@example.org">ivy@example.org</a>
   <a href="http://www.example.org">Example</a>.
</p>
<q>
   <a href="#top">Top of page</a>
</p>
</body>
</html>
```



Select SPECIFIC Element having a specific class

```
<html>
<head>
   <title>CSS Selectors</title>
   <style>
        p.note
        {
            color: red;
   </style>
</head>
<body>
This is a paragraph before heading
<h1 id="top">Kitchen Garden Calendar</h1>
Here you can read our handy guide about what to do when.
This is a third paragragh
<h2 class="note">Spring</h2>
Here comes a paragraph before the unordered list
<ul>
   <1i>>
       <div>
          <a href="mulch.html">Spring mulch vegetable beds</a>
       </div>
   <1i>>
       <a href="potato.html">Plant out early potatoes</a>
```

```
<1i>>
       <a href="tomato.html">Sow tomato seeds</a>
   <1i>>
       <a href="beet.html">Sow beet seeds</a>
   <a href="zucchini.html">Sow zucchini seeds</a>
   <1i>>
       <a href="rhubarb.html">Deadhead rhubarb flowers</a>
   </ul>
This page was written by
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   for
   <a href="http://www.example.org">Example</a>.
</p>
<p>
   <a href="#top">Top of page</a>
</p>
</body>
</html>
```



ID Selector

The #id selector styles the element with the specified id.

The id selector uses the id attribute of an HTML element to select a specific element.

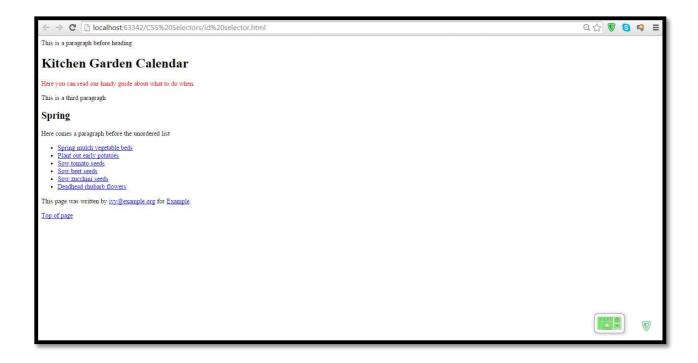
An id should be unique within a page, so the id selector is used if you want to select a single, unique element.

To select an element with a specific id, write a hash character, followed by the id of the element.

```
#introduction
{
    color: red;
}
```

```
<html>
<head>
   <title>CSS Selectors</title>
   <style>
          #introduction
              color: red;
   </style>
</head>
This is a paragraph before heading
<h1 id="top">Kitchen Garden Calendar</h1>
<p id="introduction">Here you can read our handy guide about what to do when.</p>
This is a third paragragh
<h2 class="note">Spring</h2>
Here comes a paragraph before the unordered list
<u1>
   <1i>>
           <a href="mulch.html">Spring mulch vegetable beds</a>
       </div>
   <1i>>
       <a href="potato.html">Plant out early potatoes</a>
   <1i>>
       <a href="tomato.html">Sow tomato seeds</a>
```

```
<1i>>
       <a href="beet.html">Sow beet seeds</a>
   <1i>>
       <a href="zucchini.html">Sow zucchini seeds</a>
   <1i>>
       <a href="rhubarb.html">Deadhead rhubarb flowers</a>
   </ul>
This page was written by
   <a href="mailto:ivy@example.org">ivy@example.org</a>
   <a href="http://www.example.org">Example</a>.
</p>
<q>
   <a href="#top">Top of page</a>
</p>
</body>
</html>
```



Child Selector

Matches an element that is a direct child of another.

The *element>element* selector is used to select elements with a specific parent.

Note: Elements that are not directly a child of the specified parent, are not selected.

```
li > a
{
    color : red;
}
```

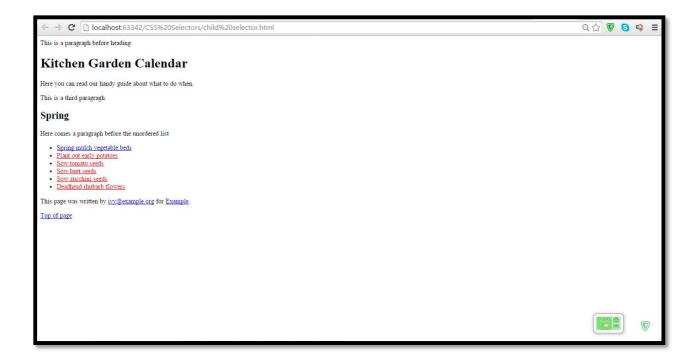
Here, <Ii> is the parent element, <a> is the child element.

Here, this selector targets any **<a>** elements that are children of an element (but not other **<a>** elements in the page)

Syntax: We write parent element name first, followed by the > sign and then the child element name.

```
<html>
<head>
   <title>CSS Selectors</title>
   <style>
         li > a
             color : red;
   </style>
</head>
<body>
This is a paragraph before heading
<h1 id="top">Kitchen Garden Calendar</h1>
Here you can read our handy guide about what to do when.
This is a third paragragh
<h2 class="note">Spring</h2>
Here comes a paragraph before the unordered list
   <1i>>
       <div>
          <a href="mulch.html">Spring mulch vegetable beds</a>
       </div>
```

```
<1i>>
       <a href="potato.html">Plant out early potatoes</a>
   <1i>>
       <a href="tomato.html">Sow tomato seeds</a>
   <a href="beet.html">Sow beet seeds</a>
   <1i>>
       <a href="zucchini.html">Sow zucchini seeds</a>
   <1i>>
       <a href="rhubarb.html">Deadhead rhubarb flowers</a>
   </ul>
This page was written by
   <a href="mailto:ivy@example.org">ivy@example.org</a>
   <a href="http://www.example.org">Example</a>.
</p>
   <a href="#top">Top of page</a>
</body>
</html>
```



Descendant Selector

This selector is used to select elements inside elements.

It matches an element that is a descendent of another specified element (not just a direct child of that element).

```
li a
{
    color : red;
}
```

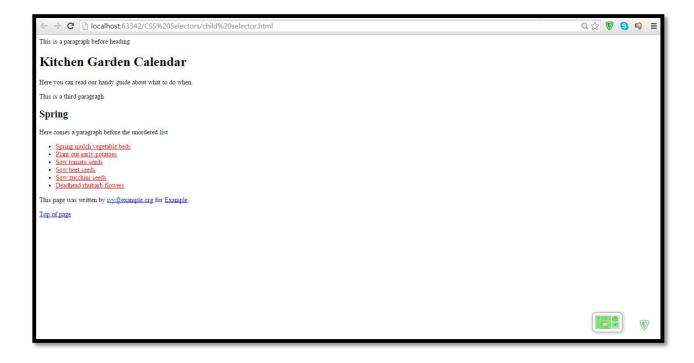
Here, is the parent element and <a> is the descendent element.

This selector will target any **<a>** elements that sit inside element, even if there are other elements nested between them.

Syntax: Write Parent Element Name, then space followed by the Descendant Element Name.

```
<html>
<head>
    <title>CSS Selectors</title>
    <style>
           li a
                color : red;
    </style>
</head>
<body>
\protect\ensuremath{\langle \mathbf{p} \rangle} This is a paragraph before heading \protect\ensuremath{\langle \mathbf{p} \rangle}
<h1 id="top">Kitchen Garden Calendar</h1>
Here you can read our handy guide about what to do when.
This is a third paragragh
<h2 class="note">Spring</h2>
Here comes a paragraph before the unordered list
<u1>
    <1i>>
        <div>
            <a href="mulch.html">Spring mulch vegetable beds</a>
        </div>
    <1i>>
        <a href="potato.html">Plant out early potatoes</a>
```

```
<1i>>
       <a href="tomato.html">Sow tomato seeds</a>
   <1i>>
       <a href="beet.html">Sow beet seeds</a>
   <a href="zucchini.html">Sow zucchini seeds</a>
   <1i>>
       <a href="rhubarb.html">Deadhead rhubarb flowers</a>
   </ul>
This page was written by
   <a href="mailto:ivy@example.org">ivy@example.org</a>
   for
   <a href="http://www.example.org">Example</a>.
</p>
<p>
   <a href="#top">Top of page</a>
</p>
</body>
</html>
```



Adjacent Sibling Selector

The *element+element* selector is used to select elements that is placed immediately after (not inside) the first specified element.

This selector matches an element that is the next sibling of another.

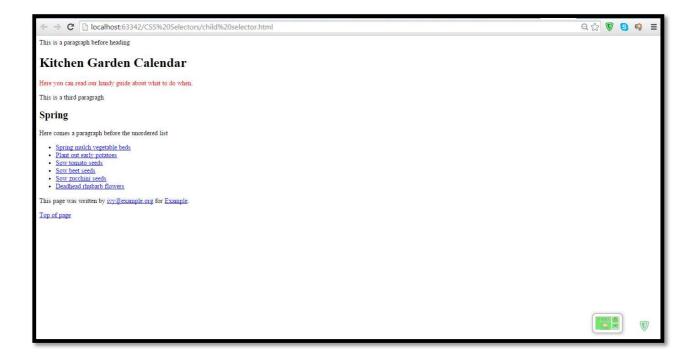
```
h1+p
{
    color : red;
}
```

Here, we are targeting the first element after any **<h1>** element (but not other elements)

It will select and style every element that are placed immediately after <h1> elements:

```
<html>
<head>
   <title>CSS Selectors</title>
   <style>
         h1+p
              color : red;
   </style>
</head>
<body>
This is a paragraph before heading
<h1 id="top">Kitchen Garden Calendar</h1>
Here you can read our handy guide about what to do when.
This is a third paragragh
<h2 class="note">Spring</h2>
Here comes a paragraph before the unordered list
ul>
   <1i>>
       <div>
          <a href="mulch.html">Spring mulch vegetable beds</a>
       </div>
   <a href="potato.html">Plant out early potatoes</a>
```

```
<1i>>
       <a href="tomato.html">Sow tomato seeds</a>
   <1i>>
       <a href="beet.html">Sow beet seeds</a>
   <a href="zucchini.html">Sow zucchini seeds</a>
   <1i>>
       <a href="rhubarb.html">Deadhead rhubarb flowers</a>
   </ul>
This page was written by
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   for
   <a href="http://www.example.org">Example</a>.
</p>
<p>
   <a href="#top">Top of page</a>
</p>
</body>
</html>
```



General Sibling Selector

The *element1~element2* selector matches occurrences of *element2* that are preceded by *element1*.

Both elements must have the same parent, but *element2* does not have to be immediately preceded by *element1*.

Matches an element that is a sibling of another, although it does not have to be the directly **preceding** element.

```
h1~p
{
    color : red;
}
```

Here all PRECEDING Siblings (siblings found downwards) of < h1 > element will be selected, required both < h1 > and have the same parent.

```
<html>
<head>
   <title>CSS Selectors</title>
   <style>
         h1~p
         {
              color : red;
   </style>
</head>
<body>
This is a paragraph before heading
<h1 id="top">Kitchen Garden Calendar</h1>
Here you can read our handy guide about what to do when.
This is a third paragragh
<h2 class="note">Spring</h2>
Here comes a paragraph before the unordered list
<u1>
   <1i>>
       <div>
          <a href="mulch.html">Spring mulch vegetable beds</a>
       </div>
   <a href="potato.html">Plant out early potatoes</a>
```

```
<1i>>
       <a href="tomato.html">Sow tomato seeds</a>
   <1i>>
       <a href="beet.html">Sow beet seeds</a>
   <a href="zucchini.html">Sow zucchini seeds</a>
   <1i>>
       <a href="rhubarb.html">Deadhead rhubarb flowers</a>
   </ul>
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</p>
<p>
   <a href="#top">Top of page</a>
</p>
</body>
</html>
```

