



CSS3



HTML5

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CSS3



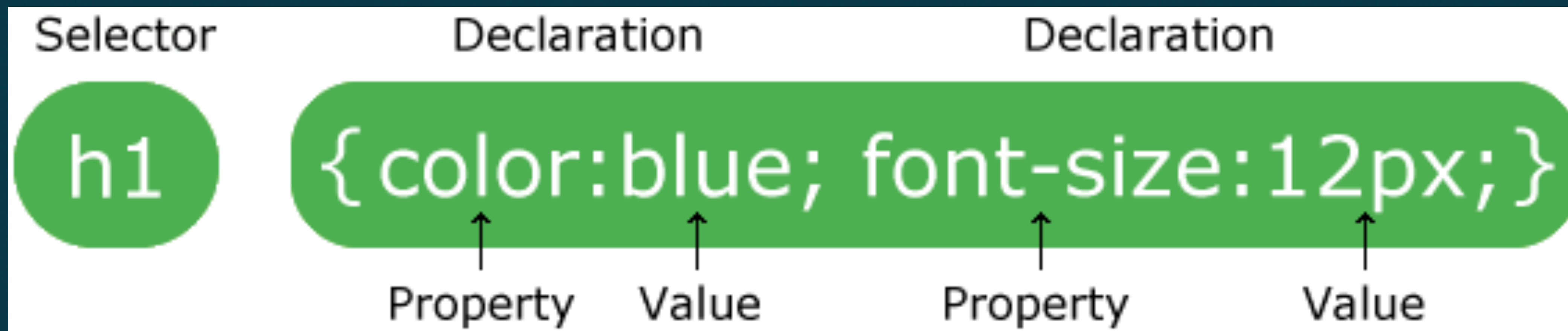
CSS

(Cascading Style Sheets)

CSS can be added to HTML elements in 3 ways:

- **Inline** - by using the style attribute in HTML elements.
- **Internal** - by using a `<style>` element in the `<head>` section
- **External** - by using an external CSS file

CSS Syntax



Selectors

- All elements
- The id Attribute (#id)
- The class Attribute (.class)
- Grouping
- Specific
- Child
- Siblings
- Immediately after
- Attribute
- Pseudo-classes
- Pseudo-elements

All elements

```
* {  
  color: blue;  
}
```



```
<p>I am a book.</p>  
<h1>Google Map</h1>  

```


The id Attribute (#id)

```
<p id="foo">Google</p>
```



```
#foo {  
  color: blue;  
}
```

mark: Avoid using id

The class Attribute (.class)

```
<p class="foo">Google</p>
```



```
.foo {  
  color: blue;  
}
```


Grouping

```
body {  
  text-align: center;  
  color: red;  
}
```

```
footer {  
  text-align: center;  
  color: red;  
}
```

```
p {  
  text-align: center;  
  color: red;  
}
```



```
body, footer, p {  
  text-align: center;  
  color: red;  
}
```


Specific

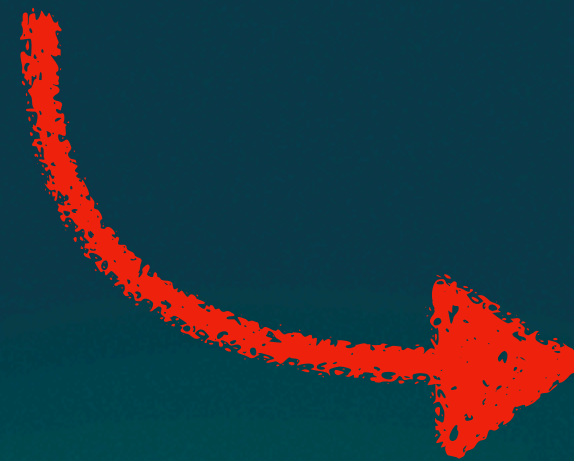
```
body #main p .content {  
  text-align: center;  
  color: red;  
}
```



```
<body>  
  <div id="main">  
    <p>  
      <span class="content">Google</span>  
      <span>Maps</span>  
    </p>  
  </div>  
  <p class="content">Dummy</p>  
</body>
```


Child

```
div > p {  
  color: red;  
}
```



```
<div id="main">
```

```
<p>
```

```
<span class="content">Google</span>
```

```
<span>Maps</span>
```

```
</p>
```

```
<div>
```

```
<span>
```

```
<p> Maps </p>
```

```
</span>
```

```
</div>
```

```
<p>Google</p>
```

```
</div>
```


Siblings

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



```
<div id="main">  
  <span>This is not red.</span>  
  <p>Here is a paragraph.</p>  
  <h1>Google</h1>  
  <span>And here is a red span!</span>  
  <div>Dev</div>  
  <span>And here is a red span!</span>  
</div>
```


Immediately after

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



```
<div id="main">  
  <span>This is not red.</span>  
  <p>Here is a paragraph.</p>  
  <h1>Google</h1>  
  <span>This is not red.</span>  
  <p>Dev</p>  
  <span>And here is a red span!</span>  
  <span>This is not red.</span>  
  <p>Dev</p>  
  <span>And here is a red span!</span>  
</div>
```


Attribute

```
a[href="https://www.google.com"]  
{  
  color: red;  
}
```

```
h1[title] {  
  color: blue;  
}
```



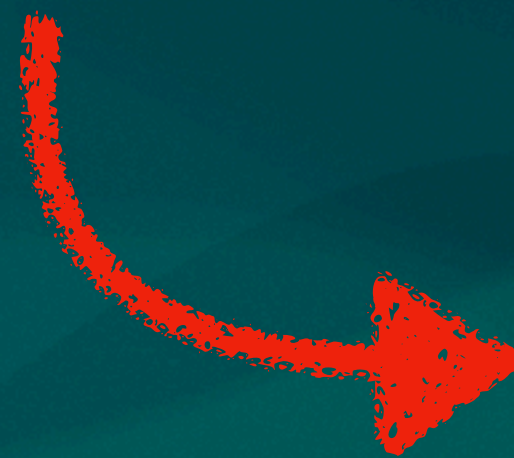
```
<div id="main">  
  <p>  
    <a href="https://www.google.com">Google</a>  
  </p>  
  <h1>Maps</h1>  
  <h1 title="foo">Maps</h1>  
</div>
```


Attribute (cont.)

```
[class^='main'] { /* begins */  
  color: red;  
}
```

```
p[class$='dummy'] { /* ending */  
  color: red;  
}
```

```
[class|='foo'] { /* starting or followed by a hyphen */  
  color: red;  
}
```



```
<div class="main">  
  <p class="textdummy">  
    <p class="dummysnone">Google</p>  
    <h1 class="foo-foo">A</h1>  
  </p>  
  <h1>Dev1</h1>  
  <p class="codedummy">Dev2</p>  
</div>
```


Pseudo-classes

```
/* unvisited link */  
a:link {  
    color: #ff0000;  
}
```

```
/* visited link */  
a:visited {  
    color: #00ff00;  
}
```

```
/* mouse over link */  
a:hover {  
    color: #ff00ff;  
}
```

```
/* selected link */  
a:active {  
    color: #0000ff;  
}
```


Pseudo-classes (cont.)

```
li:nth-child(2) {  
  color: green;  
}  
li:nth-last-child(1) {  
  color: orange;  
}
```



```
<body>  
  <li>Title 1</li>  
  <li>Title 2</li>  
  <ul>  
    <li>List 1</li>  
    <li>List 2</li>  
    <li>List 3</li>  
    <li>List 4</li>  
  </ul>  
  <li>Title 3</li>  
  <li>Title 4</li>  
</body>
```

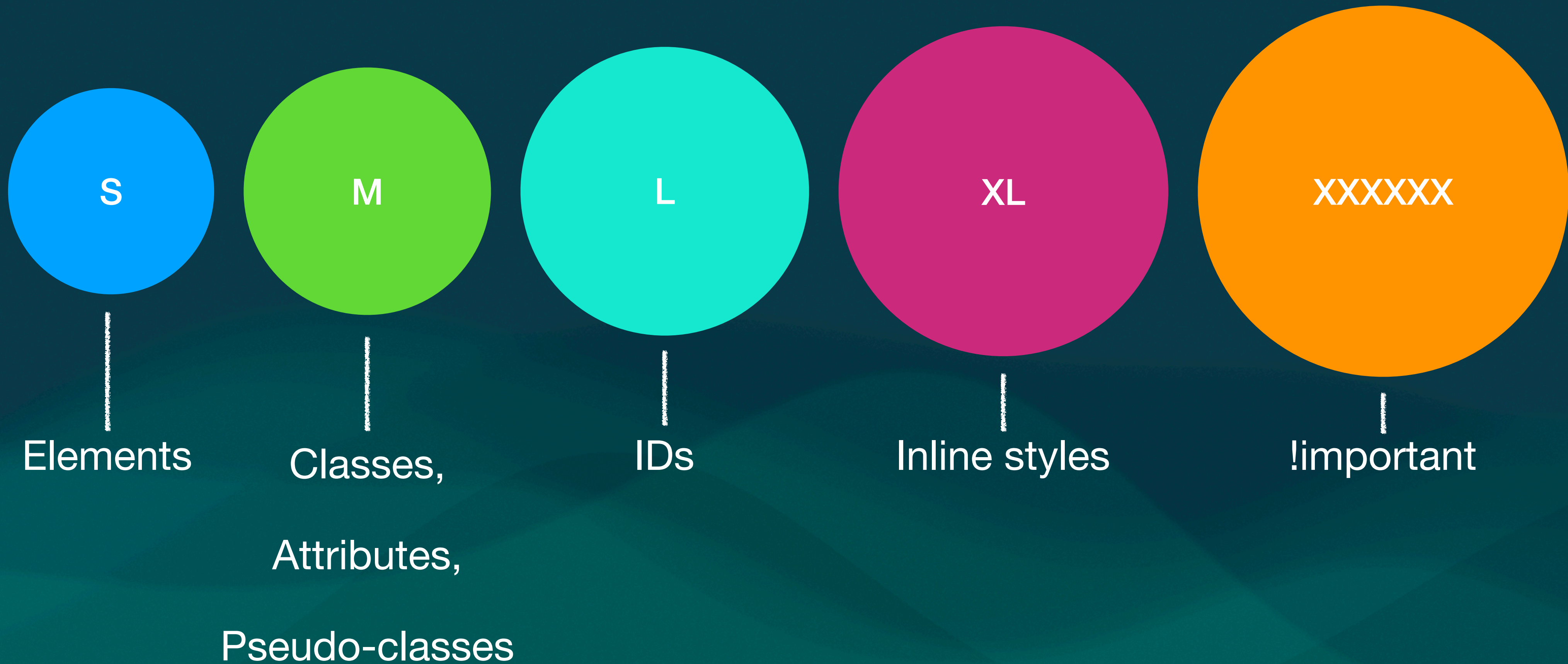

Pseudo-elements

```
p::first-line {  
  color: #ff0000;  
  font-variant: small-caps;  
}
```



`<p>`You can use the `::first-line` pseudo-element to add a special effect to the first line of a text. Some more text.`</p>`

Specificity



Media Queries

Media Types

- all Used for all media type devices
- print Used for printers
- screen Used for computer screens, tablets, smart-phones etc.
- speech Used for screenreaders that "reads" the page out loud

Media Queries

Media Syntax

```
@media not|only mediatype and (expressions) {  
    CSS-Code;  
}
```

```
@media only screen and (max-width: 600px) {  
    body {  
        background-color: lightblue;  
    }  
}
```

If the browser window is 600px or smaller, the background color will be lightblue