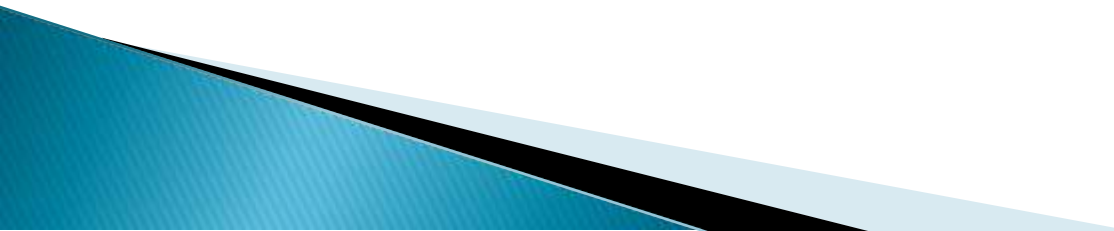
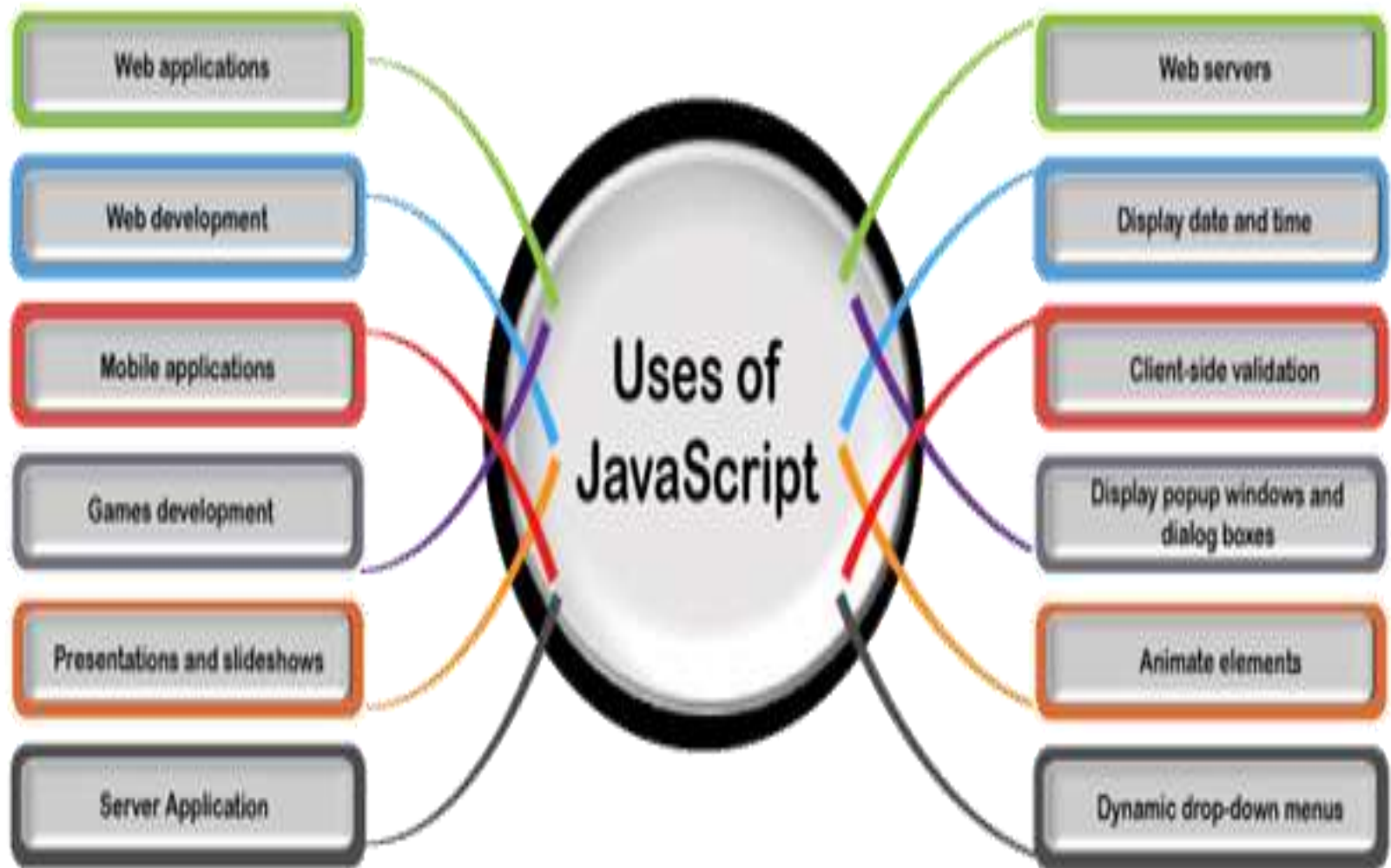


JavaScript

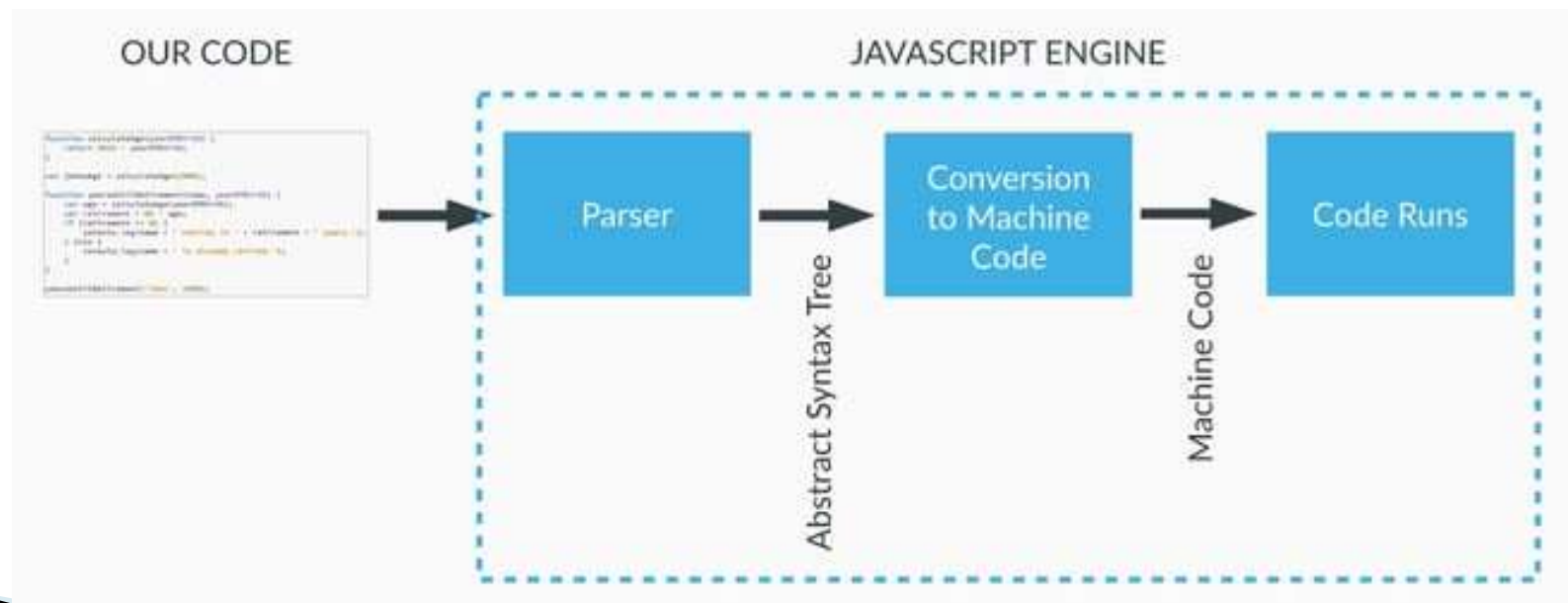
What is JavaScript

- ▶ JavaScript is a programming language invented to meet the needs of the evolving landscape of the internet.
 - ▶ JavaScript can create different kinds of software such as games, computer programs, web applications, and even technologies like blockchain.
 - ▶ JavaScript is arguably the most popular programming language for the web.
- 



How does JavaScript work?

- ▶ JavaScript is considered a client-side scripting language, which means that it operates on the user's browser and does not function on an external device.



Working with Javascript

▶ First Method

```
<script src="yourFile.js"></script>
```

▶ Second Method

```
<script  
type="text/JavaScript">JavaScript code  
goes here</script>
```

JavaScript Display Possibilities

- ▶ JavaScript can "display" data in different ways:
 - Writing into an HTML element, using `innerHTML`.
 - Writing into the HTML output using `document.write()`.
 - Writing into an alert box, using `window.alert()`.

Using innerHTML

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h2>My First Web Page</h2>
```

```
<p>My First Paragraph.</p>
```

```
<p id="demo"></p>
```

```
<script>
```

```
document.getElementById("demo").innerHTML = 5 + 6;
```

```
</script>
```

```
</body>
```

```
</html>
```



using document.write()

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1>My First Web Page</h1>
```

```
<p>My first paragraph.</p>
```

```
<script>
```

```
document.write(5 + 6);
```

```
</script>
```

```
</body>
```

```
</html>
```



using document.write()

- ▶ Using document.write() after an HTML document is loaded, will delete all existing HTML

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h2>My First Web Page</h2>
```

```
<p>My first paragraph.</p>
```

```
<button type="button" onclick="document.write(5 + 6)">Try  
it</button>
```

```
</body></html>
```

using window.alert()

- ▶ Window – optional

```
<!DOCTYPE html>  
<html>  
<body>  
  
<h2>My First Web Page</h2>  
<p>My first paragraph.</p>  
  
<script>  
window.alert(5 + 6);  
</script>  
  
</body>  
</html>
```

What JS can do?

▶ JavaScript Can Change HTML Content

```
document.getElementById("demo").innerHTML = "Hello JavaScript";
```

```
<!DOCTYPE html>  
<html>  
<body>  
<h2>What Can JavaScript Do?</h2>  
<p id="demo">JavaScript can change HTML content.</p>  
  
<button type="button"  
onclick='document.getElementById("demo").innerHTML = "Hello  
JavaScript!'">Click Me!</button>  
  
</body></html>
```

What JS can do?

▶ JavaScript Can Change HTML Attribute Values

```
<!DOCTYPE html>  
<html> <body>  
<h2>What Can JavaScript Do?</h2>  
<p>JavaScript can change HTML attribute values.</p>
```

```
<p>In this case JavaScript changes the value of the src (source)  
attribute of an image.</p>
```

```
<button  
onclick="document.getElementById('myImage').src='pic_bulbon.gif'">  
Turn on the light</button>  
  
<button  
onclick="document.getElementById('myImage').src='pic_bulboff.gif'">  
Turn off the light</button>  
</body> </html>
```

What JS can do?

- ▶ JavaScript Can Change HTML Styles (CSS)

```
<!DOCTYPE html>  
<html>  
<body>
```

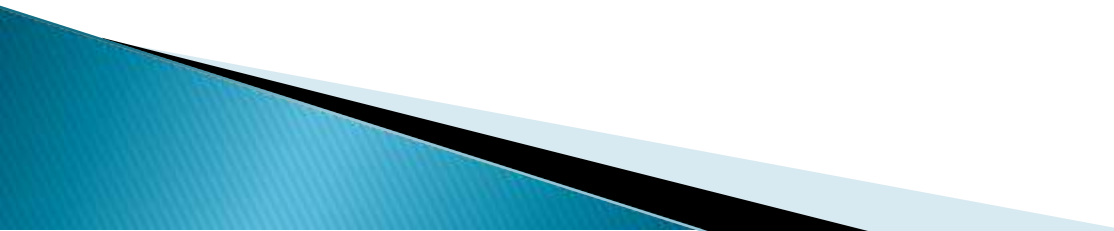
```
<h2>What Can JavaScript Do?</h2>
```

```
<p id="demo">JavaScript can change the style of an HTML  
element.</p>
```

```
<button type="button"  
onclick="document.getElementById('demo').style.fontSize='35px'"  
>Click Me!</button>
```

```
</body></html>
```

JavaScript Print

- ▶ JavaScript does not have any print object or print methods.
 - ▶ You cannot access output devices from JavaScript.
 - ▶ The only exception is that you can call the `window.print()` method in the browser to print the content of the current window.
- 

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h2>The window.print() Method</h2>
```

```
<p>Click the button to print the current page.</p>
```

```
<button onclick="window.print()">Print this  
page</button>
```

```
</body>
```

```
</html>
```

