

# Different Ways of Adding JavaScript to a Page

## Inline JavaScript Code

```
<script>  
alert('Hi there!');  
</script>
```

Executed directly when the browser (HTML parser) reaches this tag

Typically only used for very trivial sites/ scripts (you'd create a huge HTML file otherwise)

## External / Imported JavaScript Files

Use this approach!

```
<script src="someFile.js"></script>  
<script src="otherFile.js"></script>  
<script src="otherFile.js"></script>
```

Multiple imports (even of the same file) are possible and normal!

Requested & loaded when browser (HTML parser) reaches this tag

Execution behavior depends on configuration: **async** and **defer** allows HTML parser to continue

# How To Import Your Scripts

Inline

```
<script>  
alert('Hi!');  
</script>
```

Immediately executed,  
blocks HTML parsing &  
rendering

External File

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

Immediately loaded &  
executed, blocks HTML  
parsing & rendering

External File (async)

```
<script src="file.js" async>  
</script>
```

Immediately loaded &  
executed thereafter, blocks  
HTML parsing & rendering

External File (defer)

```
<script src="file.js" defer>  
</script>
```

Immediately loaded &  
executed after HTML  
parsing & rendering

# Timeline Summary

