

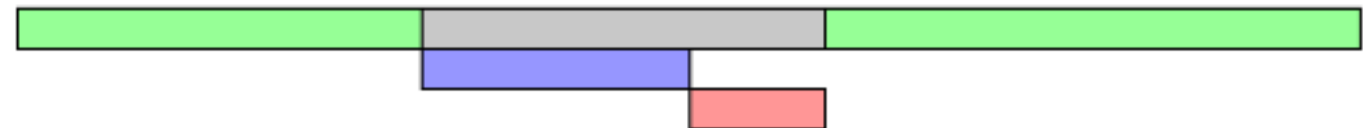
# [old way] Loading Javascript

## Legend

- HTML parsing
- HTML parsing paused
- Script download
- Script execution

## <script>

Let's start by defining what **<script>** without any attributes does. The HTML file will be parsed until the script file is hit, at that point parsing will stop and a request will be made to fetch the file (if it's external). The script will then be executed before parsing is resumed.



## <script async>

**async** downloads the file during HTML parsing and will pause the HTML parser to execute it when it has finished downloading.



## <script defer>

**defer** downloads the file during HTML parsing and will only execute it after the parser has completed. **defer** scripts are also guaranteed to execute in the order that they appear in the document.



# [new way] Javascript Modules (new in es6)

- ➡ provides encapsulation and namespace by default
- ➡ load the code asynchronously and defer execution by default

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index.html

```
<script type="module" src="file1.mjs">
```

---

file1.mjs

```
export doSomething = ...
```

---

file2.mjs

```
import { doSomething } from "/file1.mjs"
```