## 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.

## Problem with scoping

- → In the browser, all Javascript files share the same execution environment i.e they share the same scope
  - variable (and function) naming conflicts
  - strict mode applied to all