



JONAS.IO
SCHMEDTMANN

THE COMPLETE JAVASCRIPT COURSE

FROM ZERO TO EXPERT!



@JONASSCHMEDTMAN

SECTION

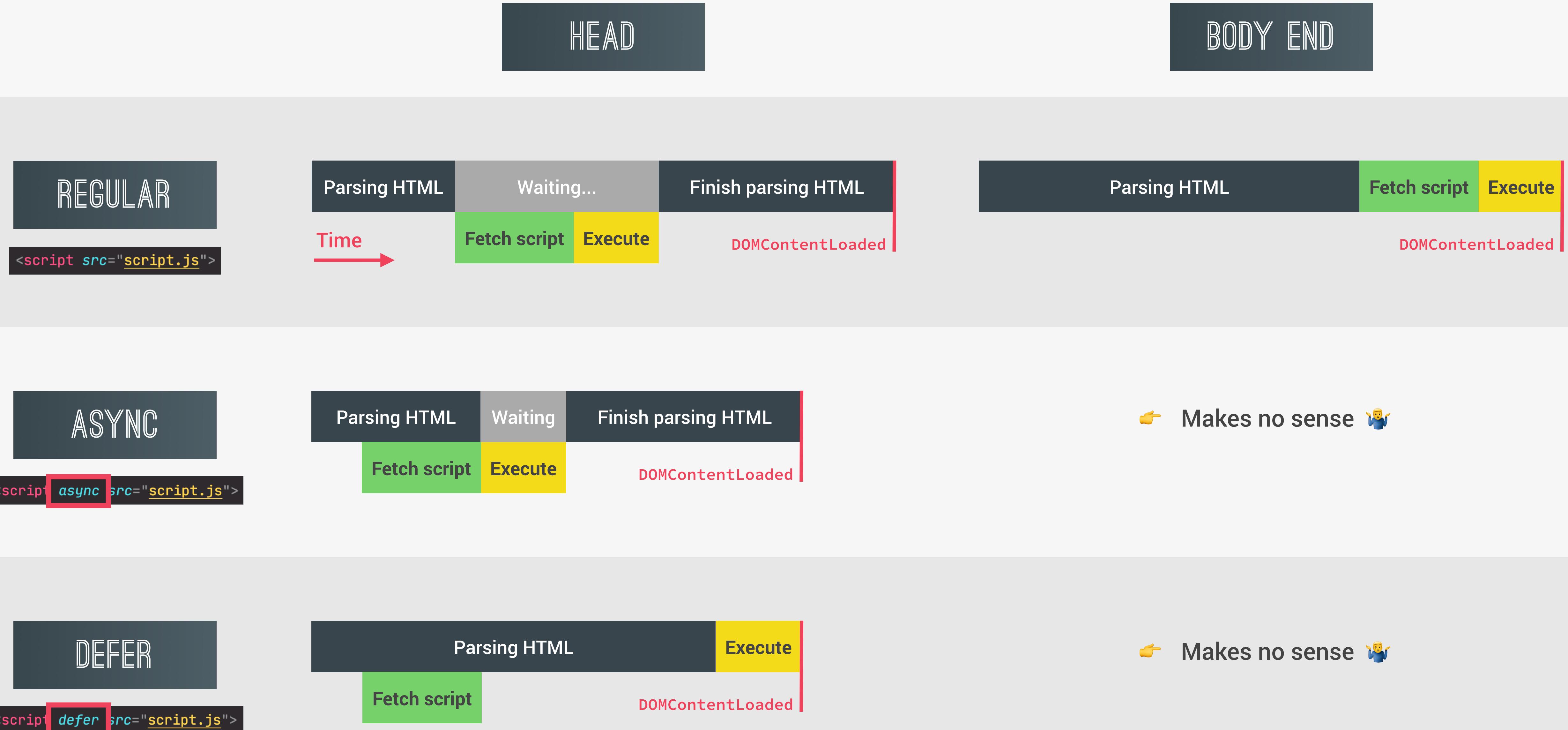
ADVANCED DOM AND EVENTS

LECTURE

EFFICIENT SCRIPT LOADING: DEFER
AND ASYNC

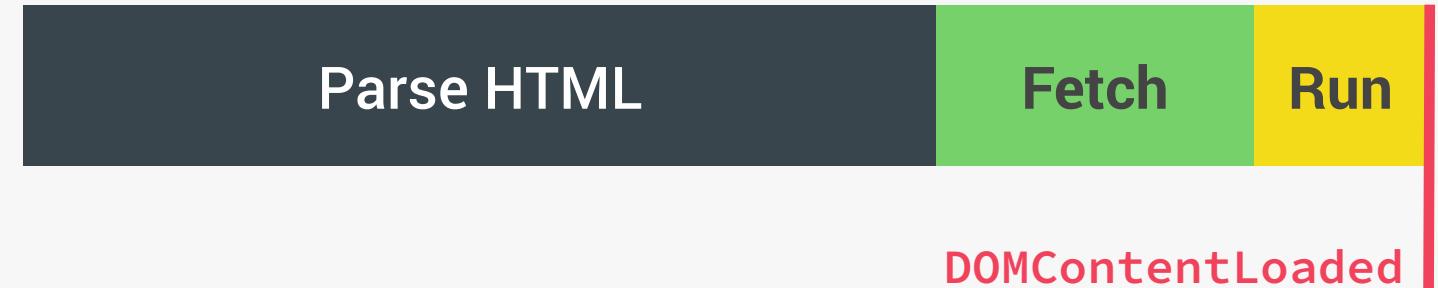
JS

DEFER AND ASYNC SCRIPT LOADING



REGULAR VS. ASYNC VS. DEFER

END OF BODY



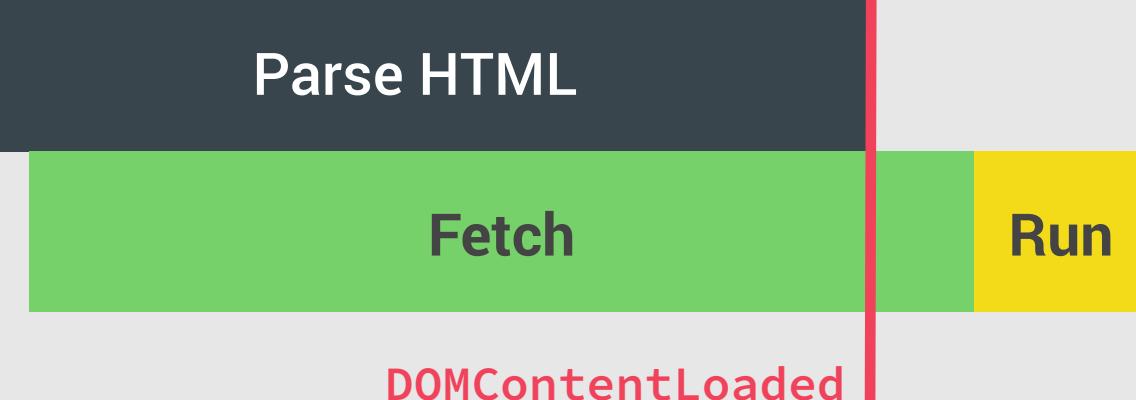
- 👉 Scripts are fetched and executed **after the HTML is completely parsed**
- 👉 **Use if you need to support old browsers**

You can, of course, use **different strategies for different scripts**. Usually a complete web application includes more than just one script

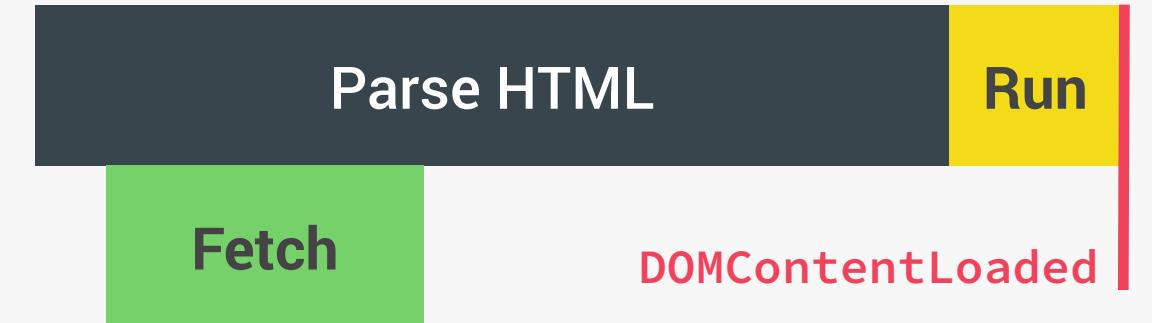
ASYNC IN HEAD



- 👉 Scripts are fetched **asynchronously** and executed **immediately**
- 👉 Usually the **DOMContentLoaded** event waits for **all** scripts to execute, except for `async` scripts. So, **DOMContentLoaded** does **not** wait for an `async` script
- 👉 Scripts **not** guaranteed to execute in order
- 👉 **Use for 3rd-party scripts where order doesn't matter (e.g. Google Analytics)**



DEFER IN HEAD



- 👉 Scripts are fetched **asynchronously** and executed **after the HTML is completely parsed**
- 👉 **DOMContentLoaded** event fires **after** `defer` script is executed
- 👉 Scripts are executed **in order**
- 👉 **This is overall the best solution! Use for your own scripts, and when order matters (e.g. including a library)**

