

THE COMPLETE JAVASCRIPT COURSE

FROM ZERO TO EXPERT!

SECTION

ASYNCHRONOUS JAVASCRIPT:
PROMISES, ASYNC/AWAIT AND AJAX

LECTURE

PROMISES AND THE FETCH API

JS

WHAT ARE PROMISES?

PROMISE

👉 **Promise:** An object that is used as a placeholder for the future result of an asynchronous operation.

↓ Less formal

👉 **Promise:** A container for an asynchronously delivered value.

↓ Less formal

👉 **Promise:** A container for a future value.

Example: Response
from AJAX call

👉 We no longer need to rely on events and callbacks passed into asynchronous functions to handle asynchronous results;

👉 Instead of nesting callbacks, we can **chain promises** for a sequence of asynchronous operations: **escaping callback hell** 🎉



Promise that I will receive money if I guess correct outcome



I buy lottery ticket (promise) right now

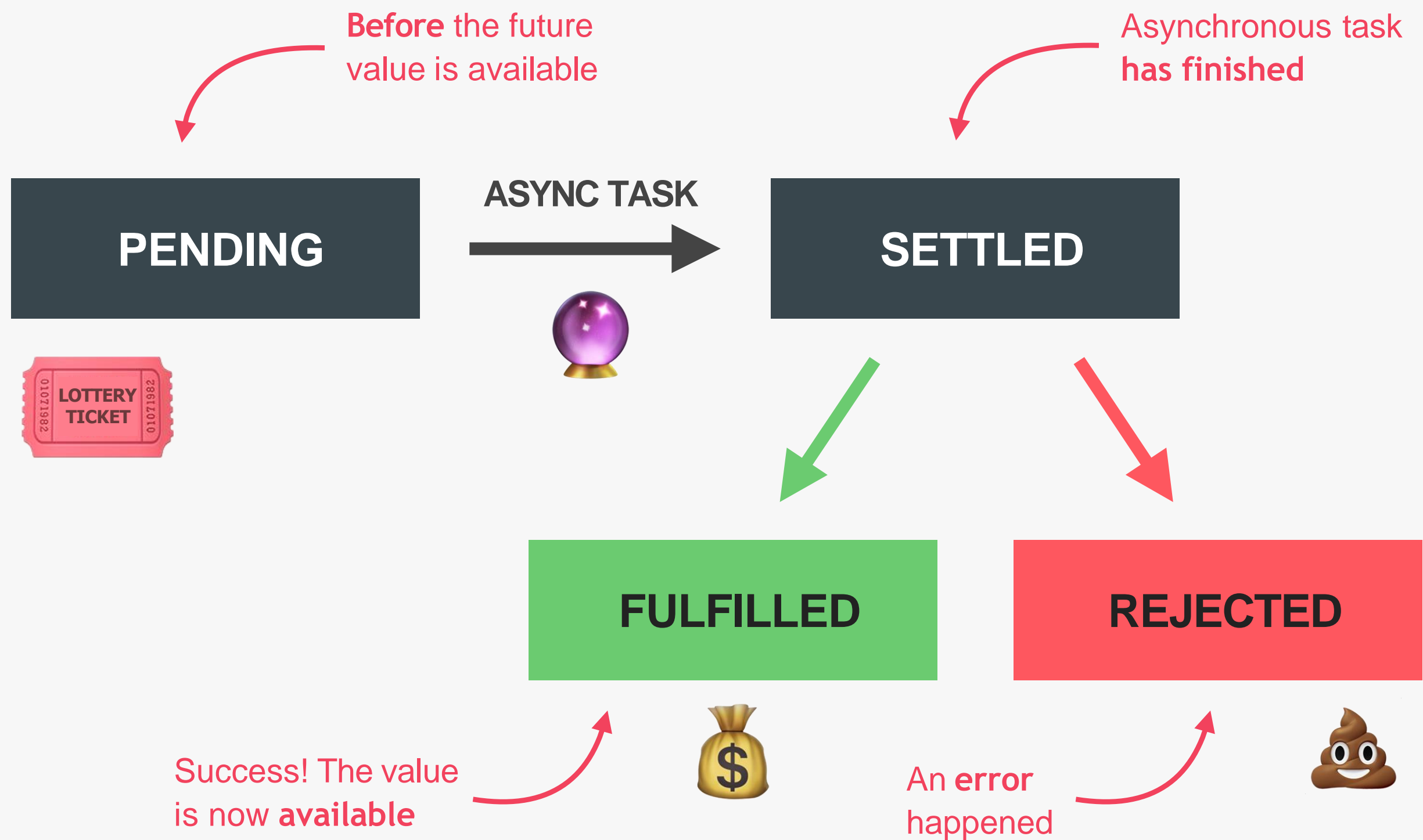


Lottery draw happens asynchronously

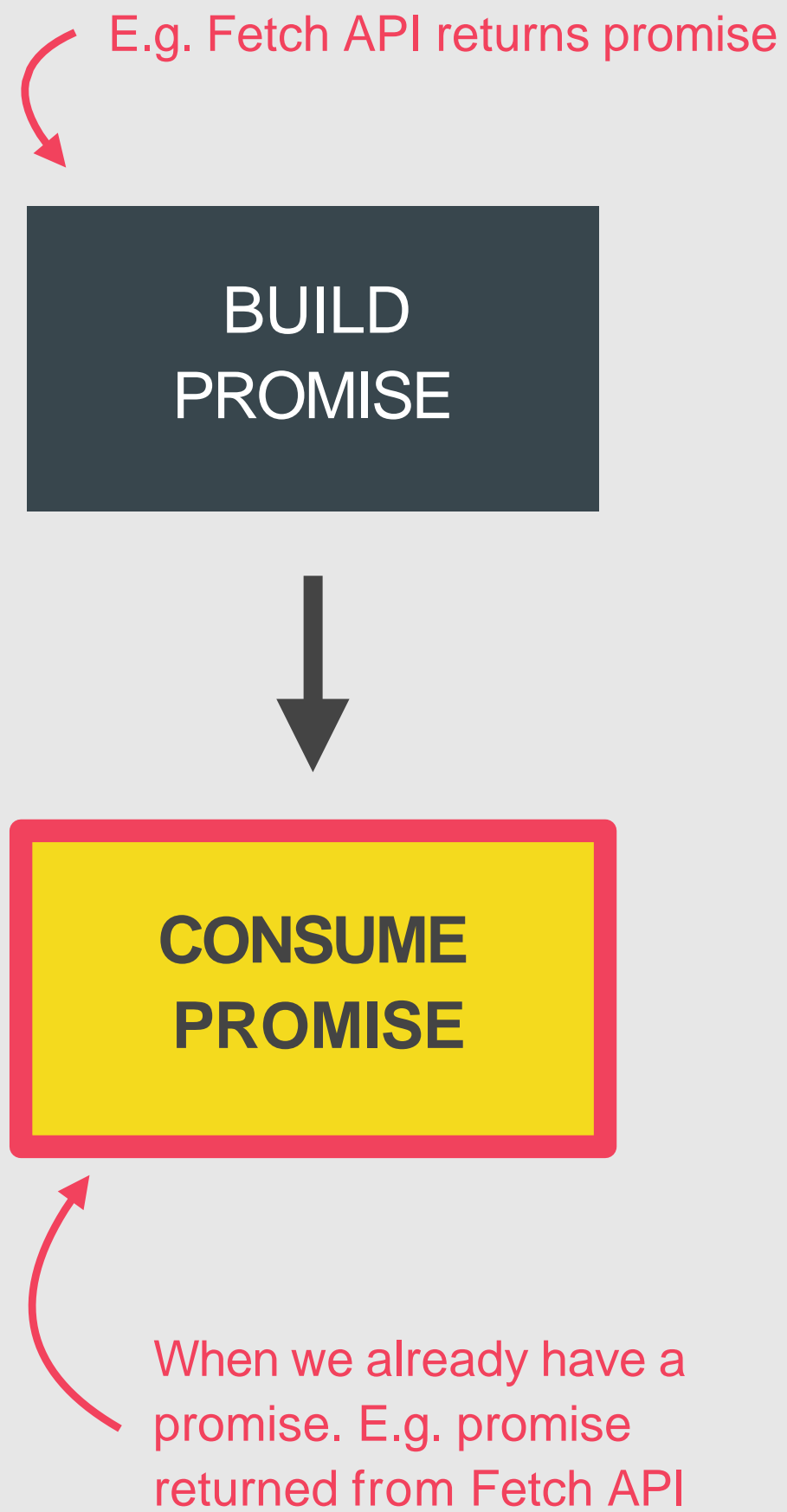


If correct outcome, I receive money, because it was promised

THE PROMISELIFECYCLE



👉 We are able **handle** these different states in our code!



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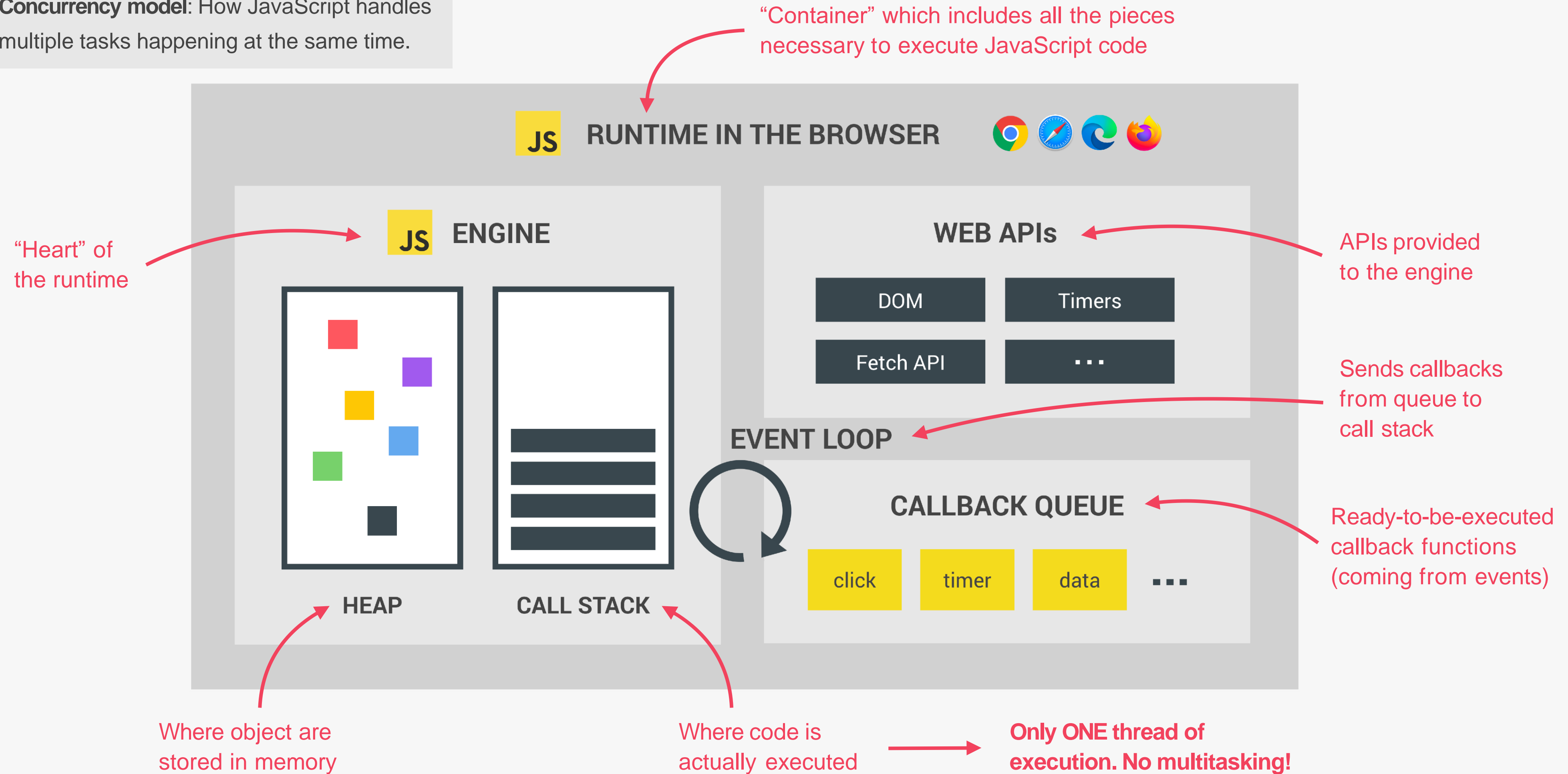
LECTURE

ASYNCHRONOUS BEHIND THE
SCENES: THE EVENT LOOP

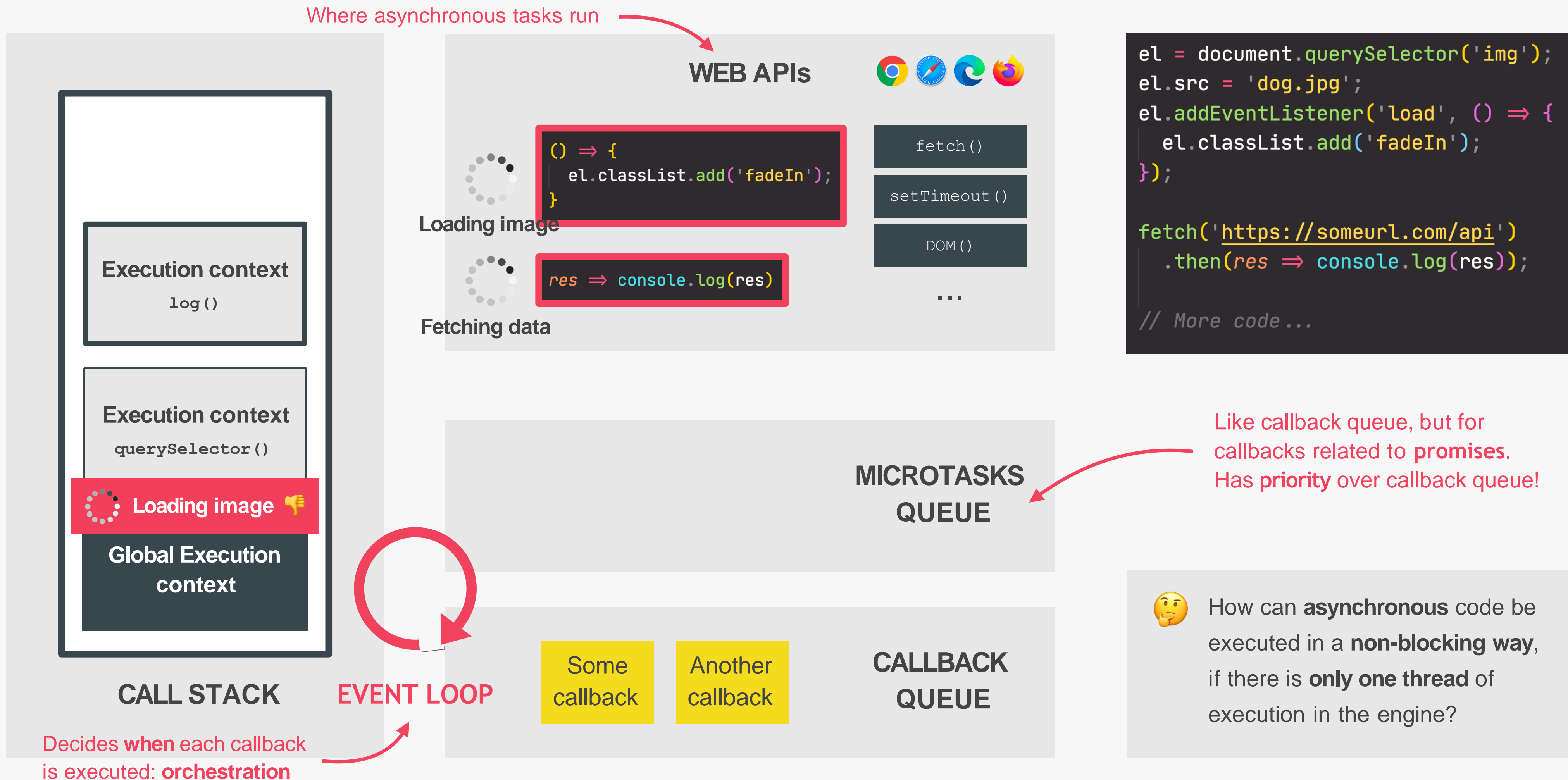
JS

REVIEW: JAVASCRIPT RUNTIME

👉 **Concurrency model:** How JavaScript handles multiple tasks happening at the same time.



HOW ASYNCHRONOUS JAVASCRIPT WORKS BEHIND THE SCENES



MODERN JAVASCRIPT DEVELOPMENT: MODULES AND TOOLING

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MODERN JAVASCRIPT
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AN OVERVIEW OF MODERN
JAVASCRIPT DEVELOPMENT

JS

MODERN JAVASCRIPT DEVELOPMENT

