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***TASK TITLE Asynchronous JS: setTimeout, setInterval, Promises***

### ⏳ Asynchronous JavaScript

Asynchronous code **does not block** the program. It allows other code to run **while waiting** for tasks like timers, data fetching, etc.

**⏱ 1. setTimeout()**

* **Use**: Runs code **once** after a delay.
* **Syntax**:

setTimeout(() => {

console.log("Runs after 2 seconds");

}, 2000);

**🔁 2. setInterval()**

* **Use**: Runs code **repeatedly** at a fixed time interval.
* **Syntax**:

setInterval(() => {

console.log("Repeats every 1 second");

}, 1000);

**📦 3. Promises**

* **Use**: Handle tasks that finish **later** (like fetching data).
* **States**: pending, fulfilled, rejected

**✅ Example:**

let promise = new Promise((resolve, reject) => {

setTimeout(() => resolve("Done!"), 1000);

});

promise.then(result => console.log(result)); // Done!