Promise.all

Promise.race

in JavaScript

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Promise.all

- Promise.all takes an array of promises and returns a single promise that resolves when ALL promises have resolved or rejects as soon as one promise fails.

```javascript
let p1 = Promise.resolve('Task 1');
let p2 = Promise.resolve('Task 2');
let p3 = Promise.resolve('Task 3');

Promise.all([p1, p2, p3])
    .then((values) ⇒ console.log(values))
    // ['Task 1', 'Task 2', 'Task 3']
    .catch((err) ⇒ console.log(err));
```

When to Use Promise.all

- Set storeWait for all tasks to complete, like loading multiple resources (APIs, files, etc.).s unique values.

- If one task fails, stop everything and handle the failure.

Promise.race

- Promise.race returns a single promise that resolves or rejects as soon as the first promise resolves or rejects.
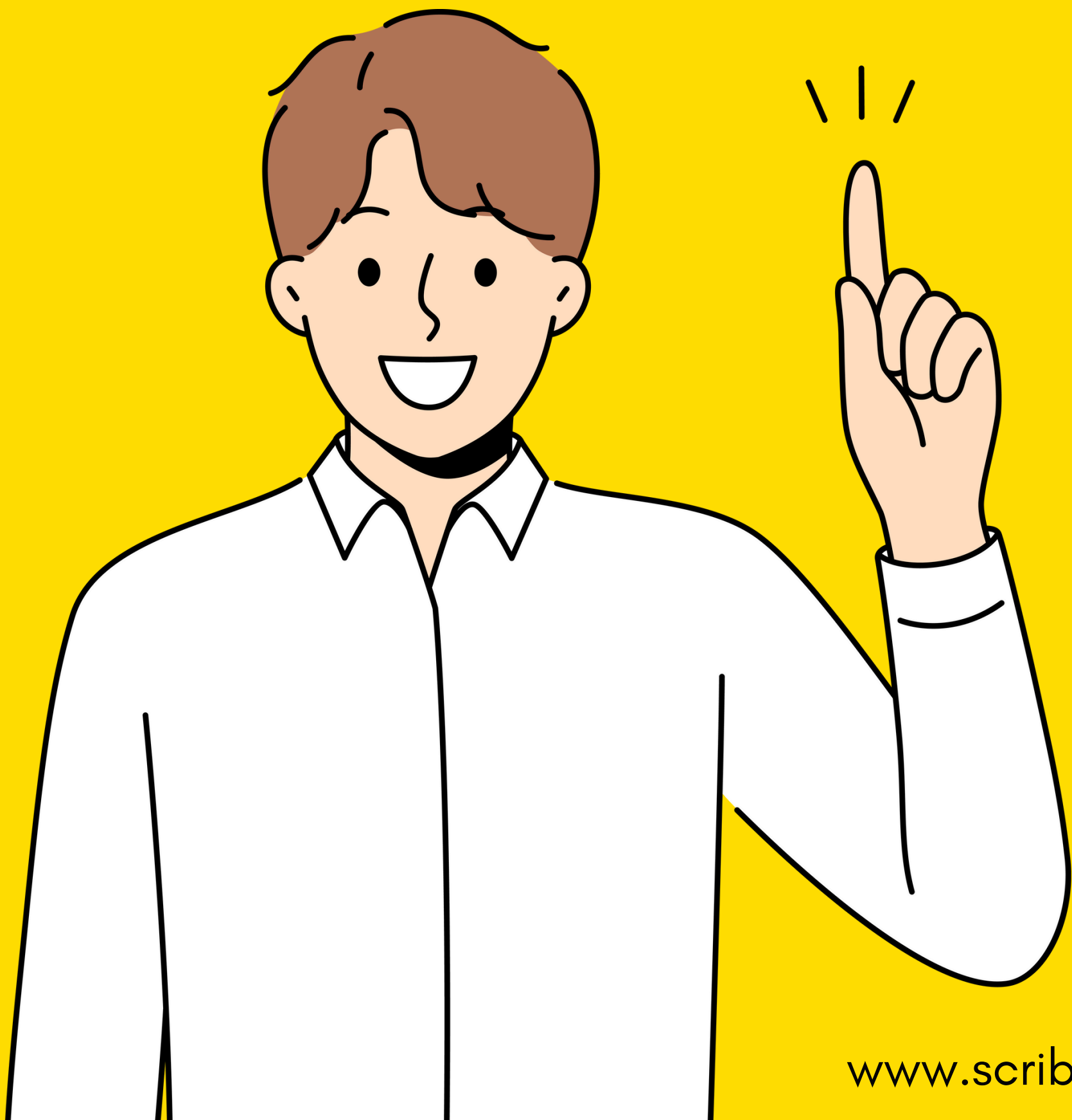
```javascript
let p1 = new Promise((resolve) ⇒
        setTimeout(resolve, 1000, 'Task 1'));
let p2 = new Promise((resolve) ⇒
        setTimeout(resolve, 500, 'Task 2'));

Promise.race([p1, p2])
  .then((value) ⇒ console.log(value))
  // 'Task 2'
  .catch((err) ⇒ console.log(err));
```

When to Use Promise.race

- Time-sensitive tasks where the fastest response wins.

- Implementing timeout functionality in your async operations.

- Example - making multiple requests and taking the first successful one.

Resolves When

Promise.all	Promise.race
All promises resolve	The first promise resolves or rejects

Failure Handling

Fails if any promise rejects

Succeeds /fails based on the first outcome

Promise.all

Promise.race

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Share this with a friend who needs it and make sure to practice these in scribbler.

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