



Promise

Explained to **5 year old**



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Fulfilled



Rejected



Pending

Imagine you're at a restaurant and you order a meal.

The waiter promises to bring your food after it's cooked.

This promise can end in three ways:

1. **Fulfilled:** You get your meal as ordered.
2. **Rejected:** The kitchen can't make your meal, so the waiter apologizes.
3. **Pending:** The kitchen is still preparing your meal.

In JavaScript, a Promise works similarly. It's a way to handle asynchronous operations, like requesting data from a server, **where you don't get a response immediately.**



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Why Promises?

Before Promises, JavaScript used **callbacks** for **asynchronous tasks**.

However, callbacks could lead to nested, hard-to-read code, known as "**callback hell**".

Promises offer a cleaner, **more manageable way** to **handle asynchronous code**.



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Where Used:

- Fetching data from APIs.
- Timers or delay functions.
- Reading files in Node.js.
- Any task that doesn't complete immediately.



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Creating Promise

```
let promise = new Promise(function (resolve, reject) {  
  // Asynchronous task here  
  if (/* task successful */) {  
    resolve(result);  
  } else {  
    reject(error);  
  }  
});
```

Handling Promise

```
promise  
  .then(function (result) {  
    // Handle the successful result  
  })  
  .catch(function (error) {  
    // Handle the error or rejection  
  });
```



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