

Promises

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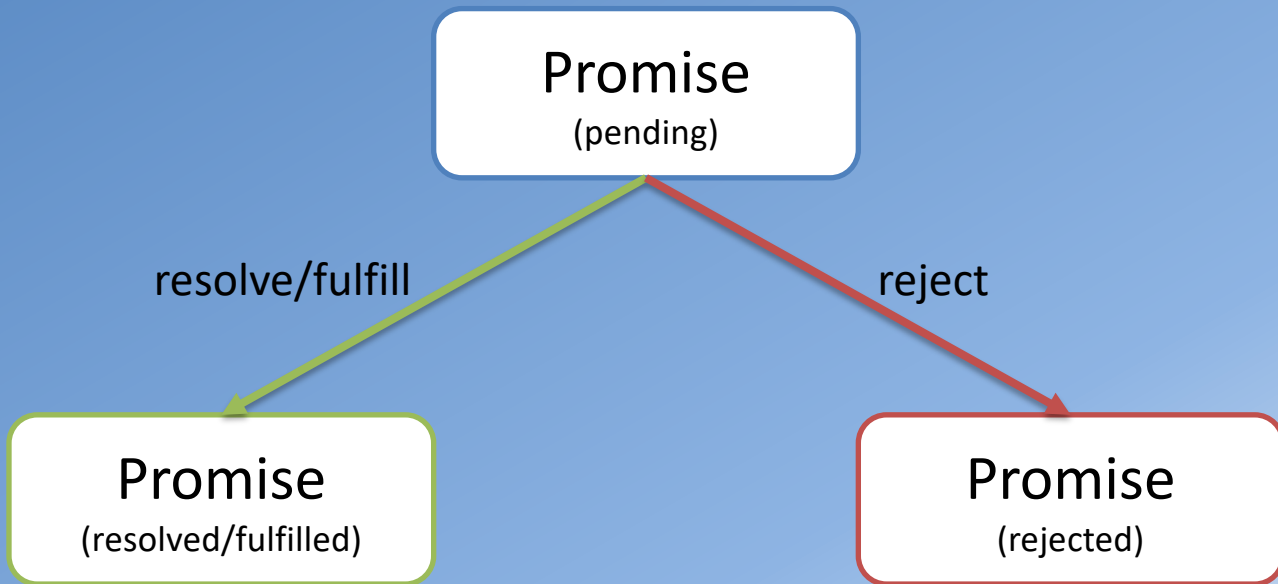


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Promise

- Promise is a mechanism that supports asynchronous computation
- Proxy for a value not necessarily known when the promise is created:
 - It represents a value that may be available now, or in the future, or never

Promise



`new Promise (function (resolve, reject) { . . . });`

Promise Example

```
...  
fetch()
```

```
.then ( function(result) {
```

```
})
```

```
.catch ( function(error) {
```

```
});
```

Fetch

```
return new Promise (
```

```
function(resolve, reject) {
```

```
// do something
```

```
if (successful) {  
  resolve(result);  
}
```

```
else {  
  reject(error);  
}
```

```
});  
}
```

Why Promises?

- Solves the callback hell (heavily nested callback code) problem
- Promises can be chained
- Can immediately return:
 - `Promise.resolve(result)`
 - `Promise.reject(error)`