

# await

The `await` operator is used to wait for a [Promise](#). It can only be used inside an [async function](#).

## Syntax

```
[rv] = await expression;
```

### expression

A [Promise](#) or any value to wait for.

### rv

Returns the fulfilled value of the promise, or the value itself if it's not a [Promise](#).

## Description

The `await` expression causes `async` function execution to pause until a [Promise](#) is fulfilled or rejected, and to resume execution of the `async` function after fulfillment. When resumed, the value of the `await` expression is that of the fulfilled [Promise](#).

If the [Promise](#) is rejected, the `await` expression throws the rejected value.

If the value of the `expression` following the `await` operator is not a [Promise](#), it's converted to a [resolved Promise](#).

## Examples

If a [Promise](#) is passed to an `await` expression, it waits for the [Promise](#) to be fulfilled and returns the fulfilled value.

```
1  function resolveAfter2Seconds(x) {
2    return new Promise(resolve => {
3      setTimeout(() => {
4        resolve(x);
5      }, 2000);
```

```
6   });
7 }
8
9 async function f1() {
10   var x = await resolveAfter2Seconds(10);
11   console.log(x); // 10
12 }
13 f1();
```

If the value is not a `Promise`, it converts the value to a resolved `Promise`, and waits for it.

```
1 async function f2() {
2   var y = await 20;
3   console.log(y); // 20
4 }
5 f2();
```

If the `Promise` is rejected, the rejected value is thrown.

```
1 async function f3() {
2   try {
3     var z = await Promise.reject(30);
4   } catch(e) {
5     console.log(e); // 30
6   }
7 }
8 f3();
```

## Specifications

Specification	Status	Comment
<a href="#">ECMAScript Latest Draft (ECMA-262)</a> The definition of 'async functions' in that specification.	 Living Standard	Initial definition in ES2017.

## Browser compatibility

[Desktop](#)[Mobile](#)

Feature	Chrome	Edge	Firefox	Internet Explorer	Opera	Safari
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Basic Support	55	(Yes)	52	?	42	10.1
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## See also

- [async function](#)
- [async function expression](#)
- [AsyncFunction object](#)