

# 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 }
```

```

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.	<div>LS</div> Living Standard	Initial definition in ES2017.

## Browser compatibility

Desktop		Mobile				
Feature	Chrome	Edge	Firefox	Internet Explorer	Opera	Safari
Basic Support	55	(Yes)	52	?	42	10.1

## See also

- `async function`
- `async function expression`
- `AsyncFunction` object