

Async/Await

Topics Covered:

- Async
- Await

Topics in Detail:

Async

- To make a function **return a promise**, add an **async** keyword before a function.

Syntax

```
async function myFunction() {  
  return "Hello";  
}
```

Same as

```
function myFunction() {  
  return Promise.resolve("Hello");  
}
```

How to use a promise

```
myFunction().then(  
  function(value) { /* code if successful */ },  
  function(error) { /* code if some error */ }  
);
```

Example

```
async function myFunction() {  
  return "Hello";  
}  
myFunction().then(  
  function(value) {myDisplayer(value);},  
  function(error) {myDisplayer(error);}  
);
```

Output

JavaScript async / await

Hello

Await

- To make a function **wait for a promise**, add **await** keyword before a function.

Syntax

```
let value = await promise;
```

- **Await** keyword can be used **only within an async** function.

Example

```
async function myDisplay() {  
  let myPromise = new Promise(function(resolve, reject) {  
    resolve("I love You !!");  
  });  
  document.getElementById("demo").innerHTML = await myPromise;  
}  
  
myDisplay();
```

Output

JavaScript async / await

I love You !!

- JavaScript has **two pre-defined arguments** (**resolve** and **reject**).
- When the **executor** function is **ready**, **call one** of them.
- The **reject** function is **not needed very often**.