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W0 Reading (L7)

Further Functions

Immediately Invoked Function Expressions. (IIFE)

It is invoked as soon as it's defined.

```
e.g. (function(){
      const temp = 'World';
      console.log(`Hello ${temp}`);
    })();
    << 'Hello World'</pre>
```

Safe use of strict mode

- One of the problems with simply placing 'use strict' at the beginning of a file is that it will enforce strict mode on all the JavaScript in the file.
- To solve the problem, "use strict " is placed inside an IIFE

```
e.g. (function() {
    'use strict';
// All your code would go inside this function
})();
```

Promises

- It represents the future result of an asynchronous operation.
- They help simplify the process, and avoid the convoluted code that can result from using multiple callbacks.

<u>Pending</u>: not yet fulfilled or rejected. <u>Fulfilled</u>: the result is a value (complete). Rejected: the result is an error (failed).

Async Function

Using await operator

Async makes a function return a Promise. await makes a function wait for a Promise

```
E.g.
async function:
async function loadGame(userName) {
try {
const user = await login(userName);
const info = await getPlayerInfo (user.id);
// load the game using the returned info
}
catch (error){
throw error;
}
}
```

Currying

- Currying is a transformation of functions that translates a function from callable as f(a, b, c) into callable as f(a)(b)(c)
- It doesn't call a function, just transforms it.

```
E.g.
function curry(func,...oldArgs) {
  return function(...newArgs) {
  const allArgs = [...oldArgs,...newArgs];
  return func(...allArgs);
}}
const divider = (x,y) => x/y;
  divider(10,5);
  << 2</pre>
```