Asynchronous function calls
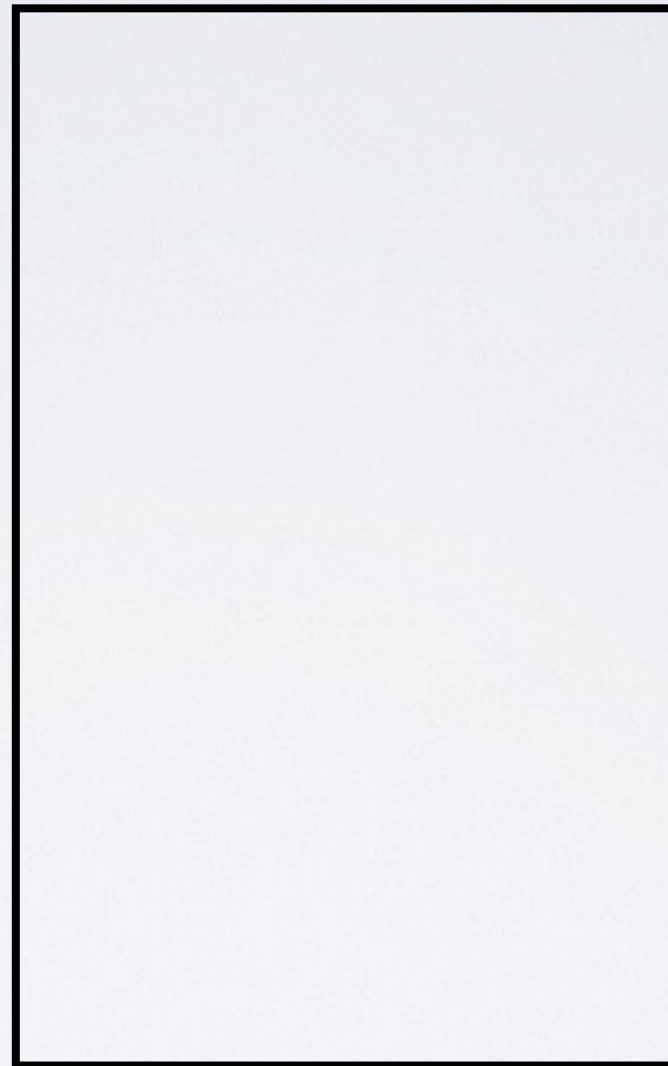
- DOM events (browser)

- Ajax requests (browser)

- Timer (browser and NodeJs)

- any non-blocking I/O (NodeJs)

⦿ but promises are not necessarily asynchronous by default

The Javascript Event Loop

Heap

Stack

Synchronous API

```
Array.sort(f)
```

Asynchronous API

```
setTimeout(f,t)
```