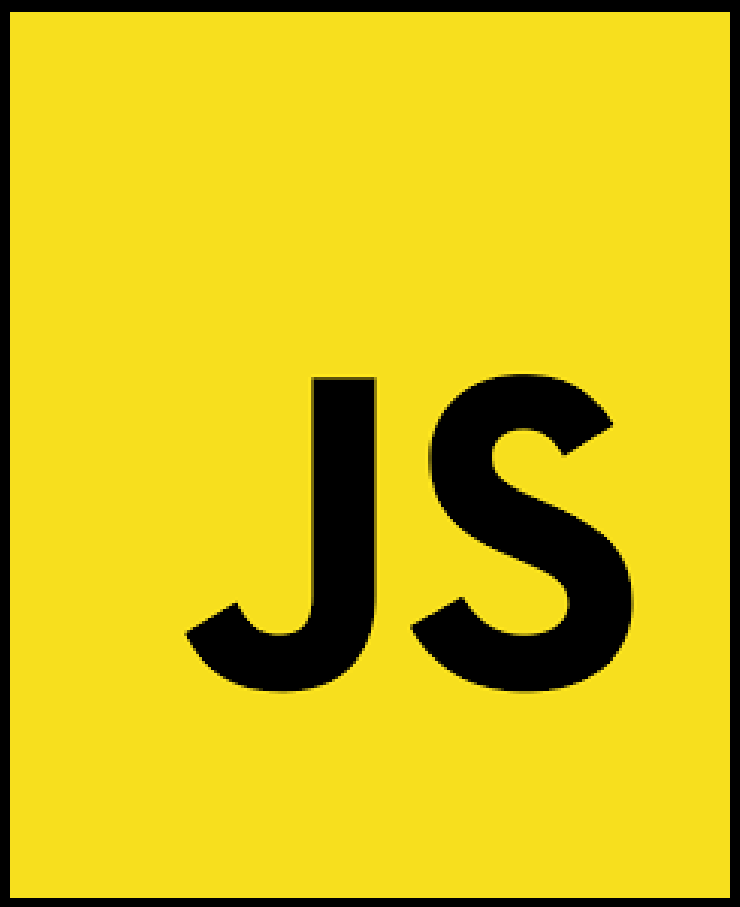
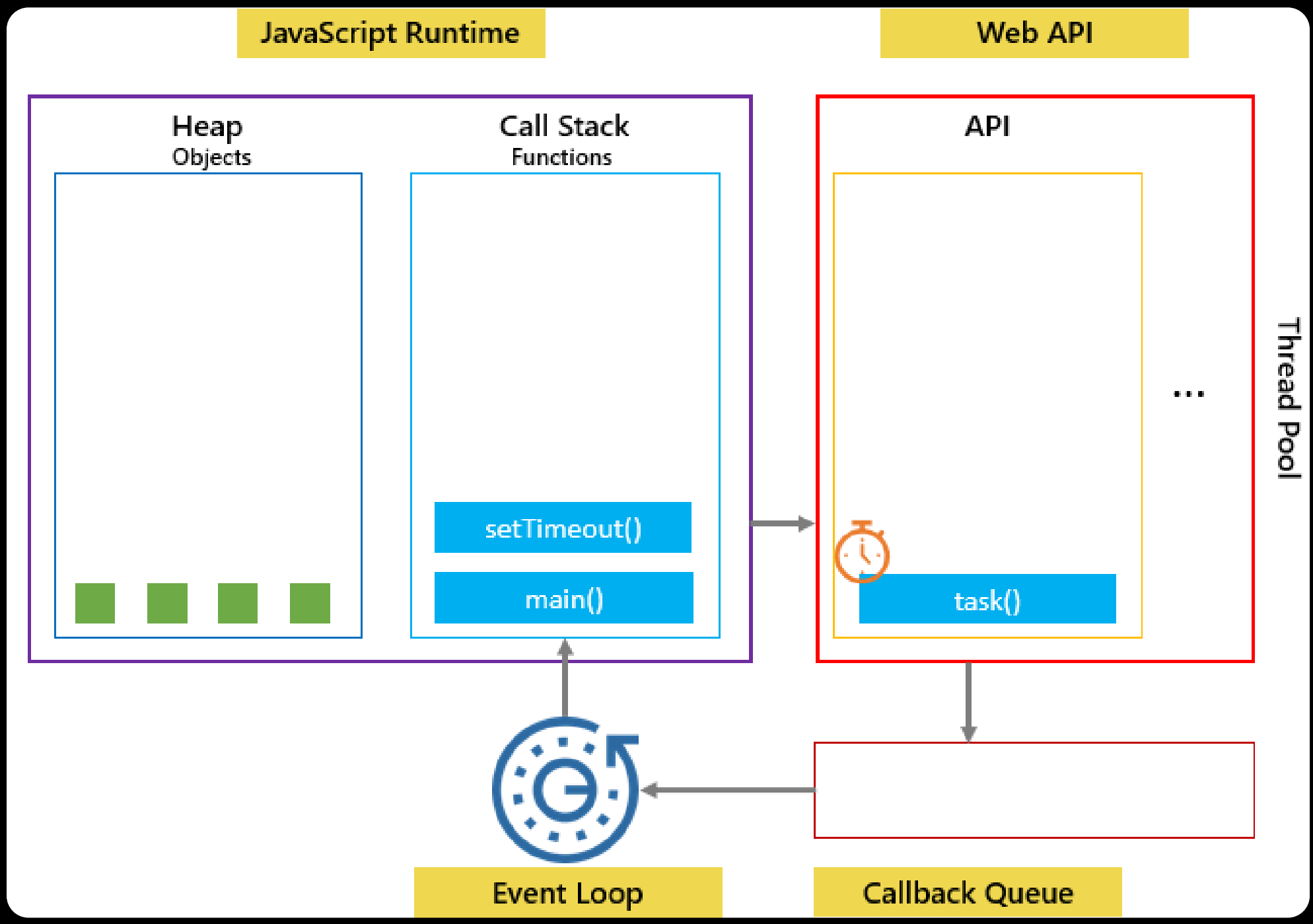


EVENT LOOP

- **We know that javaScript is a single threaded language and the secret behind JavaScript's asynchronous programming is EVENT LOOP**



How EventLoop works?

we will know one by one from
call stack -> web API ->Callback Queue
-> Event loop ->call Stack

- **Call stack is nothing but the simple stack data structure which keeps track of the function currently being executed. Here functions call are executed one by one**

- **since our JavaScript runtime is single-threaded, it can export some time consuming tasks or async tasks to the WEB APIs which helps us to respond to multiple requests.**

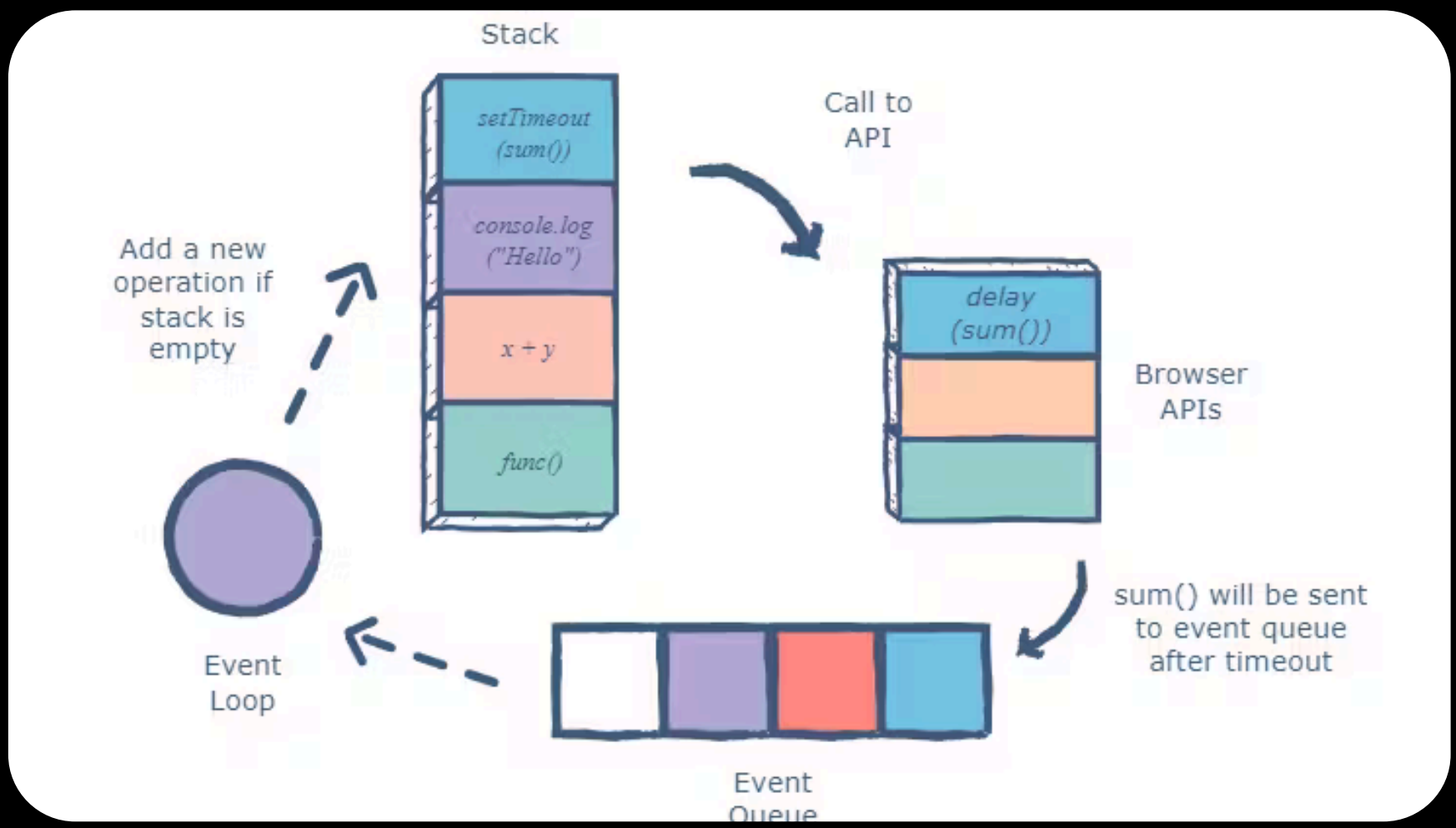
Example of some web APIs are:

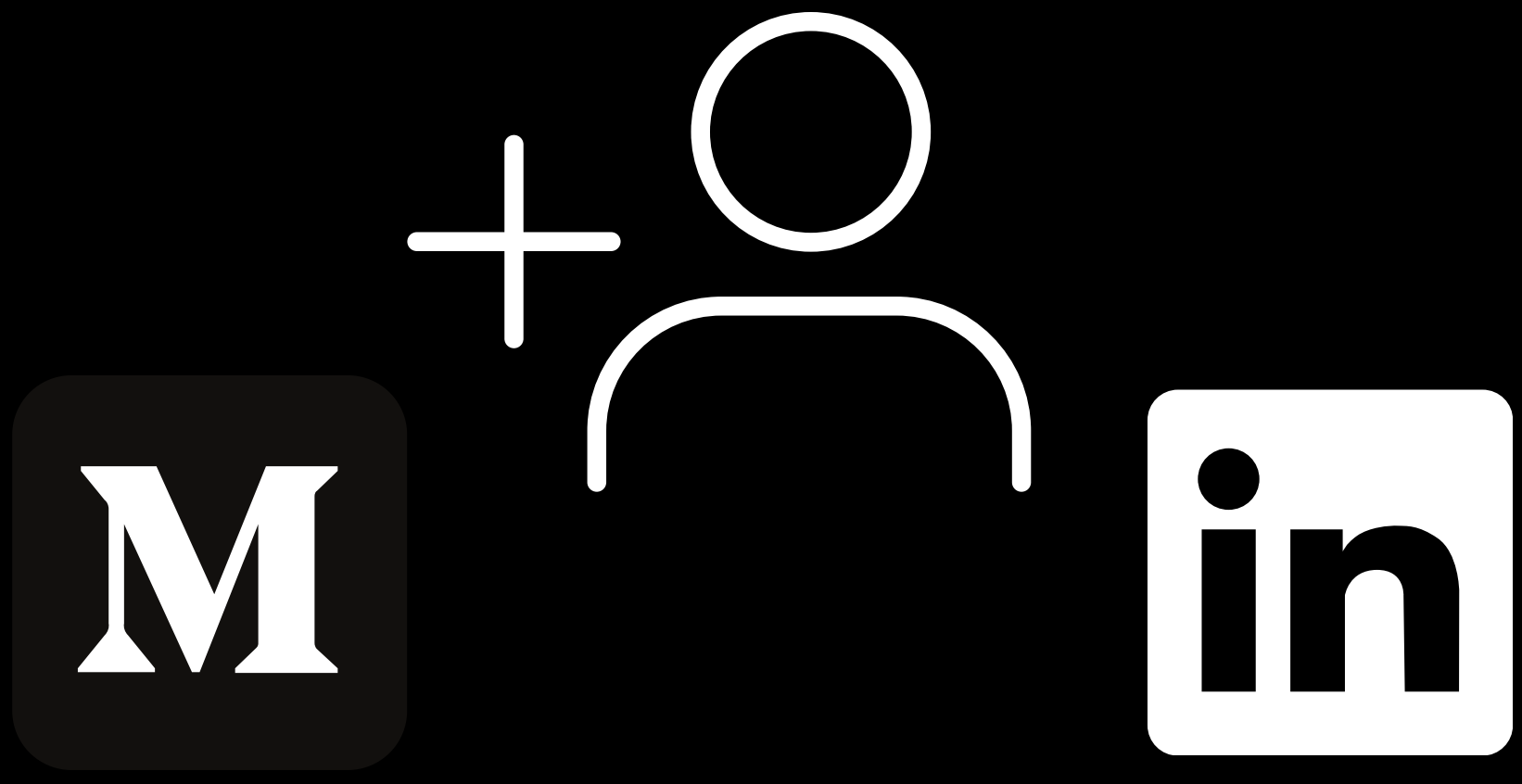
- **DOM**
- **Network requests**
- **setTimeout()**

- **Once the Web Api request is completed, it will be push to callback Queue**

- **In between the callback Queue and call stack there is a EventLoop which will continuously look any requests are present in callback Queue, if present event loop will push the requests to call stack**

- **Once it reaches the call stack it finishes the task and gives the output nedded**





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