

Async Callbacks - 1

Agenda

- Synchronous & Asynchronous Programming
- Callbacks
- Async function using inbuilt modules
- Event loop
- Parallel async operations.

Sync → One at a time.
Strict sequence (FAST TAG)

Async → McDonalds.

- ↳ Multiple tasks simultaneously.
- NO waiting.

7 AM

7:30 AM

8:30 AM

9 AM

5mins Doubt

10m Doubt

5mins Doubt

(Doubt
end)

1/10

9 person
↓

(Time waste)

Blocked

Async / Sync in JS

whether function needs to wait for external resource

→

CALLBACKS



```
function myFunc (a, b, func) {
```

(function)

func ()

}

↖ (CALLBACK)

```
myFunc ( 1, 2, function () { console.log(); } )
```

Super
"Super
Important"

Event Loop

CL('start')
setTimeout(
 timer1
)

STL
CL(timer1)

CL(timer2)

CL(timer3)

CL(timer4)

CL(timer5)

CL(timer6)

CL(timer7)

CL(timer8)

CL(timer9)

CL(timer10)

CL(timer11)

CL(timer12)

CL(timer13)

CL(timer14)

CL(timer15)

CL(timer16)

CL(timer17)

CL(timer18)

~~timer1~~
~~timer2~~
~~CL('end')~~
~~CL('start')~~

(CALL STACK)

start
end.
timer2
timer1

(event loop)

Web/Node API

setTimeout(
 timer2
)
setTimeout(
 timer3
)

~~timer2~~ ~~timer1~~

callback queue