

Promises

Agenda

- ① What are promises
- ② Async programming with promises
- ③ Chaining of promises

CALLBACK
HELL

$f_1()$

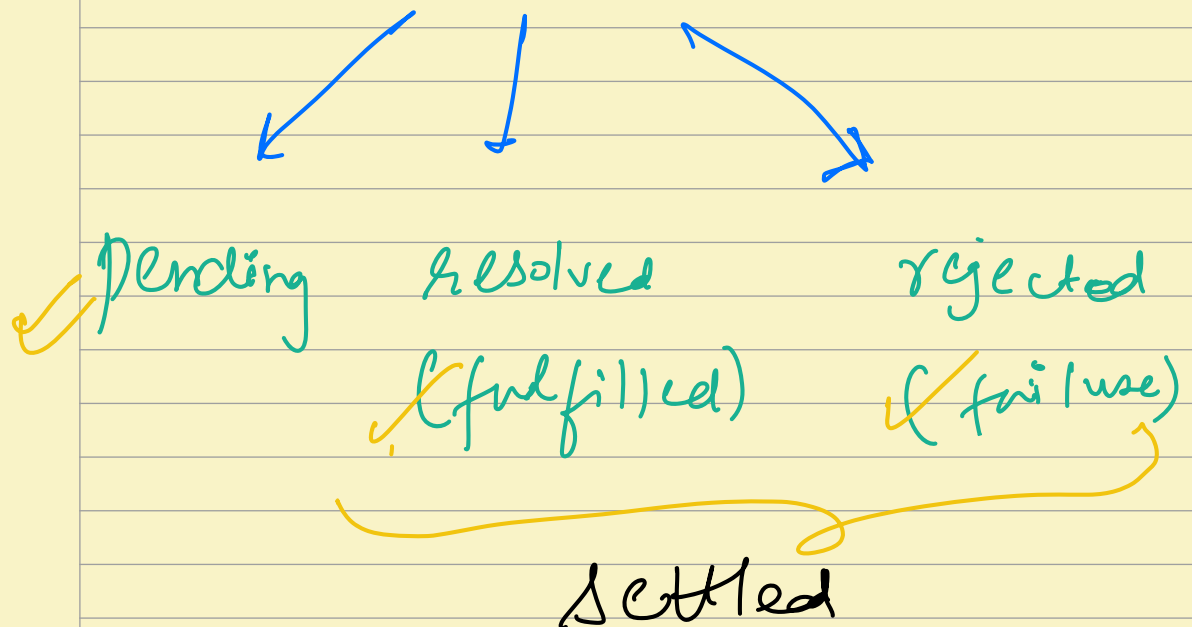
$f_2()$

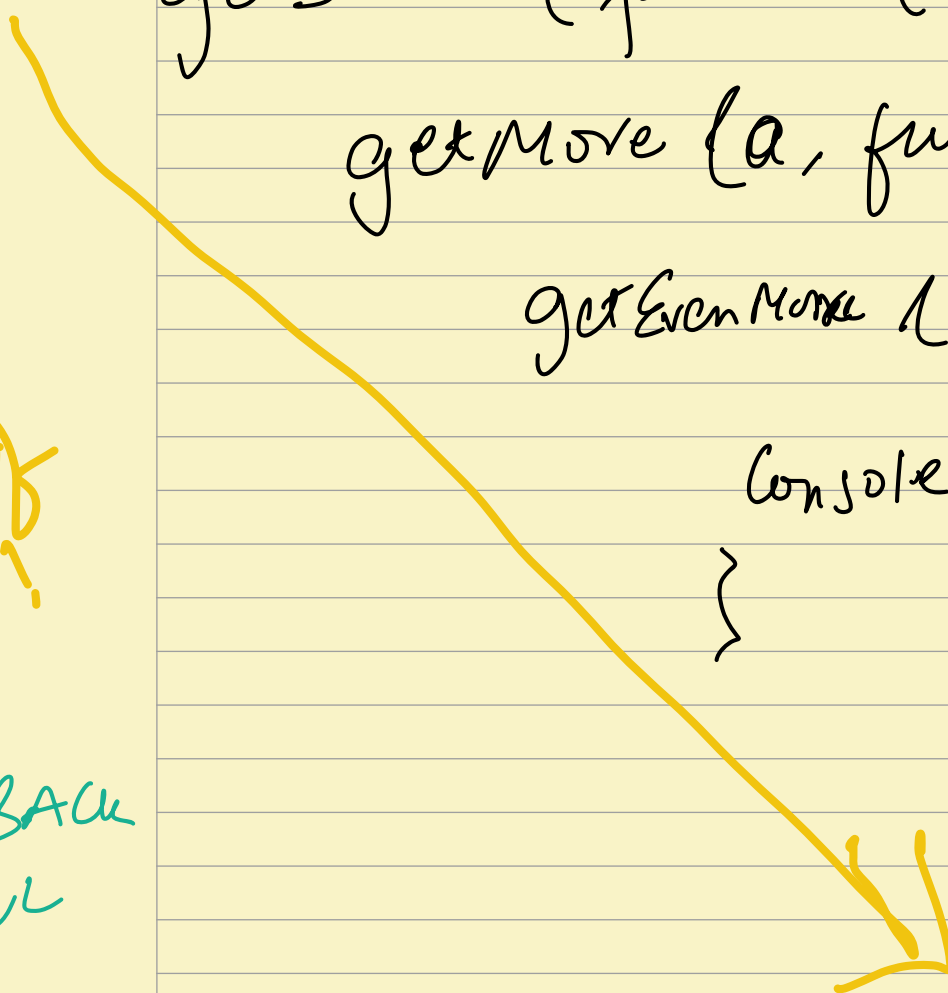
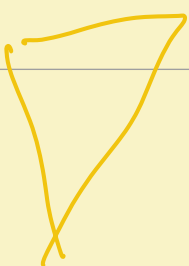
$f_3()$

Promises

{ }

Object representing eventual completion or failure of an asynchronous function

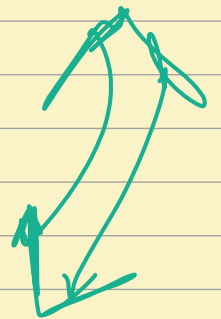




```
getData (function (a) {  
  getMore (a, function (b) {  
    getEvenMore (b, function (c) {  
      console.log (c)  
    })  
  })  
})
```

Pyramid of
Doom!!

CALLBACK
HELL



Cleaner!
Easier
to
read

```
getData ()  
  .then (getMore)  
  .then (getEvenMore)  
  .then (console.log)  
  
(Promises)
```

Async programming with Promises

①

Pending .

②

Fulfilled .

③

Rejected .

Promise is created
using Promise constructor.

for
async
class

new Promise

Promises

①

Creation

②

Consumption

execute
{
 success?
 fail?
 callback
}

let myPromise = new Promise (function (res, rej) {

[promise]

if (true) {

resolve ('success')

else {

reject ('fail')

Consume a

Promise

myPromise

- then (. . .)
- catch (. . .)
- finally (. . .)

then →

on success of a promise

catch →

on fail/reject of a promise

finally →

Always : (Settled of a promise)