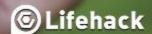
PROMISE IS A BIG WORD. IT EITHER MAKES SOMETHING OR IT BREAKS EVERYTHING



A promise represents the eventual result of an asynchronous operation. The primary way of interacting with a promise is through its then method, which registers callbacks to receive either a promise's eventual value or the reason why the promise cannot be fulfilled.

"INTERNET EXPLORER HAS STOPPED Nat **WORKING."** FALSE THAT WOULD MEAN THAT INTERNET EXPLORER WAS WORKING TO BEGIN WITH.

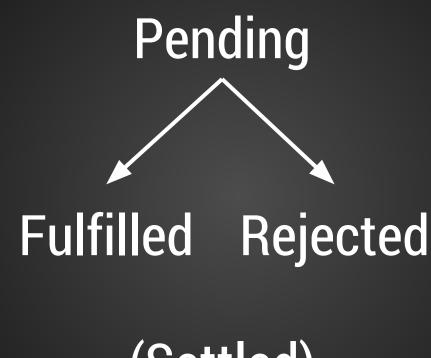
Promises/A+

Q/when/WinJS/RSVP.js

jQuery Deffereds / Promise

http://promisesaplus.com/

State



(Settled)

```
var img1 = document.querySelector('.img-1');
img1.addEventListener('load', function() {
 // woo yey image loaded
});
img1.addEventListener('error', function() {
 // argh everything's broken
});
```

Ett promise lyckas eller misslyckas en gång.

Ett promise kan **inte byta** från att vara lyckat till misslyckat eller vice versa.

Om ett promise har lyckats eller misslyckats och du lägger till callbacks senare anropas rätt callback.

```
var myPromise = new Promise(function(resolve, reject) {
  // do a thing, possibly async, then...
 if (/* everything turned out fine */) {
    resolve("Stuff worked!");
  else {
    reject(Error("It broke"));
});
```

Then

Catch

Resolve

Reject

All

Race

Then

```
myPromise.then(function(myString) {
    // myString = "Stuff worked!"
}, function(err) {
    // Err = Error("It broke")
});
```

"Thenables"

```
var jsPromise = Promise.resolve($.ajax('/whatever.json'));
```

```
function(response, statusText, xhr0bj) { }
```

Catch

```
myPromise.then(null, function(err) {
  // Err = Error("It broke")
});
myPromise.catch(function(err) {
  // Err = Error("It broke")
});
```

Resolve / Reject

```
Promise.resolve("Lyckades!");
Promise.reject("Misslyckades!");
```

Resolve / Reject

```
var promise = new Promise(function (resolve, reject) {
  resolve(JSON.parse("detta är inte JSON!"));
});
promise.then(function () {
  console.log("OK!");
}, function () {
  console.log("Error!");
});
// Error!
```

All

```
var p1 = new Promise(function(resolve, reject) {
   setTimeout(resolve, 500, "one");
});
var p2 = new Promise(function(resolve, reject) {
   setTimeout(resolve, 100, "two");
});
Promise.all([p1, p2]).then(function(value) {
 // value === ["one", "two"]
});
```

Race

```
var p1 = new Promise(function(resolve, reject) {
   setTimeout(resolve, 500, "one");
});
var p2 = new Promise(function(resolve, reject) {
   setTimeout(resolve, 100, "two");
});
Promise.race([p1, p2]).then(function(value) {
  // value === "two"
});
```

Chaining

```
Promise.resolve(5).then(function (num) {
 return num * 2;
}).then(function (num) {
 return Promise.resolve(num + 5);
}).then(function (num) {
 // num === 15
       KOM IHAG RETURN
```

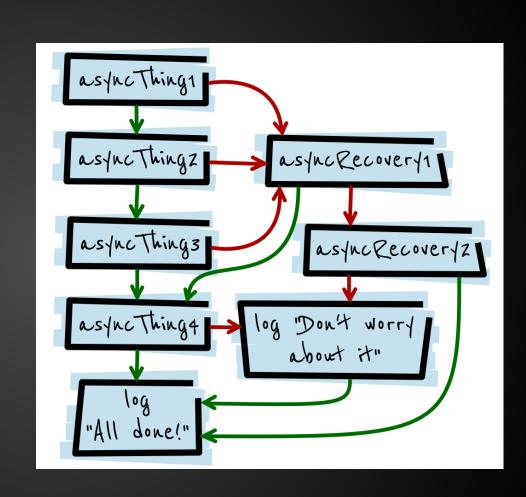
```
var p = Promise.resolve(asyncThing());

for (var i = 0; i < 10; i++) {
   p = p.then(/* gör något med resultat */);
}</pre>
```

p.then(/* gör tillslut något */);

```
return asyncThing2();
})
.then(function() {
  return asyncThing3();
})
.catch(function(err) {
  return asyncRecovery1();
})
.then(function() {
  return asyncThing4();
}, function(err) {
  return asyncRecovery2();
})
.catch(function(err) {
  console.log("Don't worry about it");
})
.then(function() {
  console.log("All done!");
});
```

asyncThing1().then(function() {



https://github.com/jayway/javascript-promises-lab