

Lab 10.1 - Synchronous Error Handling

The native URL constructor can be used to parse URLs, it's been wrapped into a function called parseURL:

```
function parseURL (str) {
  const parsed = new URL(str)
  return parsed
}
```

If URL is passed a unparsable URL string it will throw, so calling parseURL('foo') will result in an exception:



```
2. bash
$ cat example.js
function parseUrl (str) {
  const parsed = new URL(str)
  return parsed
parseUrl('foo')
$ node example.js
internal/url.js:243
  throw error;
TypeError [ERR_INVALID_URL]: Invalid URL: foo
    at onParseError (internal/url.js:241:17)
    at new URL (internal/url.js:319:5)
    at parseUrl (/training/ch-10/example.js:2:18)
    at Object.<anonymous> (/training/ch-10/example.js:6:1)
    at Module._compile (internal/modules/cjs/loader.js:778:30)
    at Object.Module._extensions..js (internal/modules/cjs/loader.js:789:10)
    at Module.load (internal/modules/cjs/loader.js:653:32)
    at tryModuleLoad (internal/modules/cjs/loader.js:593:12)
    at Function.Module._load (internal/modules/cjs/loader.js:585:3)
    at Function.Module.runMain (internal/modules/cjs/loader.js:831:12)
```

The labs-1 folder contains an index. js file with the following content:

```
'use strict'
const assert = require('assert')

function parseUrl (str) {
  const parsed = new URL(str)
  return parsed
}

assert.doesNotThrow(() => { parseUrl('invalid-url') })
assert.equal(parseUrl('invalid-url'), null)
assert.deepEqual(
  parseUrl('http://example.com'),
  new URL('http://example.com')
)
console.log('passed!')
```



Modify the parseURL function body such that instead of throwing an error, it returns null when the URL is invalid. Use the fact that URL will throw when given invalid input to determine whether or not to return null or a parsed object.

Once implemented, execute the index.js file with node, if the output says passed! then the exercise was completed successfully:

```
passed!
```