

Async development introduction

Async functions

Callbacks

```
1 fs.readFile('/foo.txt', function (error, data) {  
2   →   if (error) { throw error; }  
3   →   console.log(data);  
4   });
```

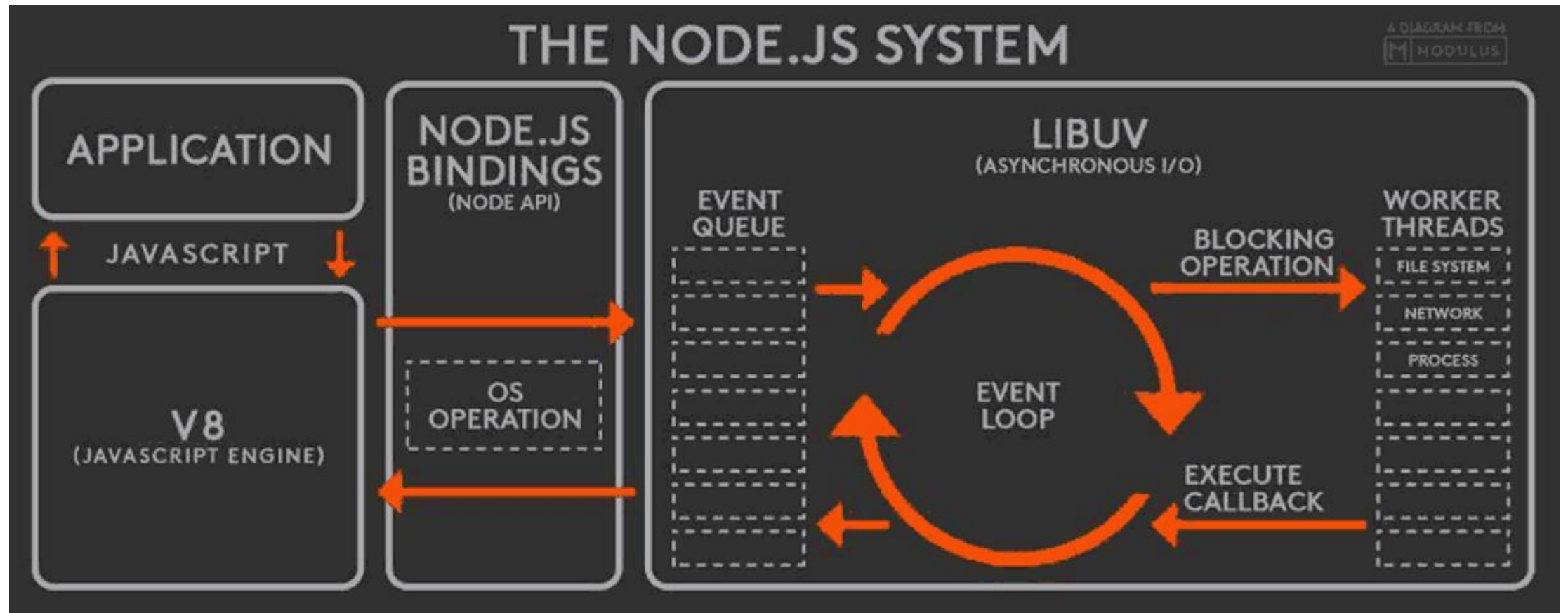
Promises

```
1  promisifiedRename('/foo.txt', '/bar.txt')
2  ....then(function () {
3  ....|    return promisifiedReadFile('/bar.txt');
4  ....})
5  ....then(function (data) {
6  ....|    response.send('Content of bar.txt: ' + data);
7  ....})
8  ....catch(function (error) {
9  ....|    logger.error(error)
10 ....|    response.status(500).send('Something broke!');
11 ....});
```

Generator functions

Async functions

Only one EventLoop



When do we do async functions?

- File system
- Events
- Streams

Timeout in node

Next tick