

Back-End Development

Introduction





Node.js® is a JavaScript runtime built on Chrome's V8 JavaScript engine (written in C++). Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient. Node.js' package ecosystem, *npm*, is the largest ecosystem of open source libraries in the world.

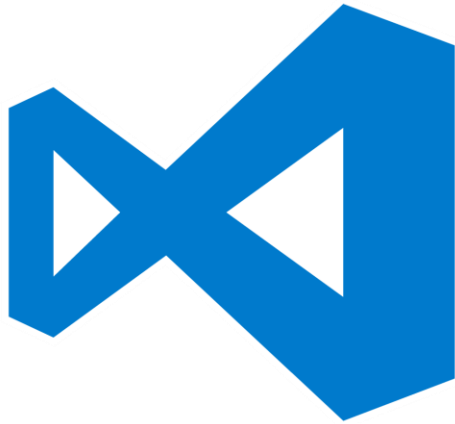
- A platform which allows us to run Javascript on computer/server.
- Read, delete & update files.
- Easily communicate with database.

Synchronous vs Asynchronous Blocking vs Non-Blocking



Basically, nodeJS is asynchronous!

SetUp



Visual Studio Code

Download & install here:

[*code.visualstudio.com*](https://code.visualstudio.com)

Node.Js

Download & install here:

[*nodejs.org*](https://nodejs.org)

\$ node --version

\$ node -v



Require a Module

satu.js

```
var nama = 'Andi';  
console.log(nama);
```

=====

dua.js

```
require('./satu.js');  
//require('./satu');
```

****Run dua.js!***

Require a Var

satu.js

```
var nama = 'Andi';  
module.exports = nama;
```

=====

dua.js

```
var siapa = require('./satu');  
console.log(siapa);
```

****Run dua.js!***

Require a Fn

satu.js

```
var nama = function(x){  
    return nama = x + ' Susilo'  
};  
module.exports = nama;
```

=====

dua.js

```
var siapa = require('./satu');  
console.log(siapa('Andi'));
```

****Run dua.js!***

Require Multiple Var #1

satu.js

```
var nama = 'Andi';  
var usia = 26;  
module.exports.nama = nama;  
module.exports.usia = usia;
```

=====

dua.js

```
var data = require('./satu');  
console.log(data.nama);  
console.log(data.usia);
```

****Run dua.js!***

Require Multiple Var #2

satu.js

```
module.exports.nama = 'Andi';  
module.exports.usia = 26;
```

=====

dua.js

```
var data = require('./satu');  
console.log(data.nama);  
console.log(data.usia);
```

****Run dua.js!***

Require Multiple Var #3

satu.js

```
var nama = 'Andi';  
var usia = 26;  
module.exports = {  
  nama: nama,  
  usia: usia}
```

=====

dua.js

```
var data = require('./satu');  
console.log(data.nama);  
console.log(data.usia);
```

****Run dua.js!***

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Introduction to

