

EdX and its Members use cookies and other tracking technologies for performance, analytics, and marketing purposes. By using this website, you accept this use. Learn more about these technologies in the [Privacy Policy](#).



[Course](#) > [Node C...](#) > [Launch...](#) > [Node.j...](#)

Node.js Process

Each Node.js script that runs is, in essence, a process. For example, `ps aux | grep 'node'` outputs all Node.js programs running on a machine. Conveniently, developers can access useful process information in code with the `process` object, e.g., `node -e "console.log(process.pid)"` will print the process ID.

Other useful process information includes:

- `env`: Environment variables
- `argv`: Command-line arguments
- `exit()`: Method to exit/terminate process

Let's see how to use each of them.

Environment Variables

Environment variables can be accessed via the `env` attribute:

```
console.log(process.env)

{ SHELL: '/bin/bash',
  USER: 'jordan',
  HOME: '/home/jordan',
  ...
}
```

A short one-liner can set the environment variable in bash, and then run Node eval to print the value. This is a bash/Terminal/ Command Prompt command which will print "development":

```
NODE_ENV=development node -e "console.log(process.env.NODE_ENV) "
```

NODE_ENV is a convention. Common values include:

- development: used by developers to code verbose error messages and logs for debugging
- production: used by developers to hide excessive error messages and logs

This is just a convention but some libraries and frameworks will augment their behavior to hide error messages, e.g., Express.

Command-Line Arguments

To access CLI arguments, use the `process.argv` property which is an array.

For example, if the command is

```
node app.js arg1 arg2 arg3=val3
```

The first two elements are 'node' and the application's name while the rest are the command-line arguments. Thus, `process.argv`:

```
[  
  'node',  
  'app.js',  
  'arg1',  
  'arg2',  
  'arg3=val3'  
]
```

Exiting a Process

To exit a process, use the `exit` function:

```
process.exit()
```

When your application encounters an error, you want to exit with errors. Exit codes can also be specified

```
// this process failed
process.exit(1)

// this process failed with a different code
process.exit(129)

// this process exits successfully
process.exit(0)
```

Different failure codes can be used to differentiate types of failure. And knowing how an application failed allows the developers the means to program an appropriate response.

© All Rights Reserved