



# Node.js NPM

Topics : [Node.js](#)

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## Node.js NPM

NPM is a package manager for Node.js packages, or modules.

NPM is used to download and install Node.js packages, or modules into your system.

NPM helps install, manage, and share JavaScript libraries and tools.

### 1. Initializing a New Project

```
mkdir node-website  
cd node-website  
npm init
```

It will ask for details like **name, version, description, etc.** You can skip all by running:

```
npm init -y
```

This creates a package.json file.

### 2. Installing Packages

```
npm install express
```

OR

```
npm i express
```

### 3. Install a package globally

```
npm install -g nodemon
```

Global packages are installed system-wide and can be used from any project.

### 4. Uninstalling Packages

```
npm uninstall express
```

```
npm uninstall -g nodemon
```

### 5. View installed packages

npm list

## 6. View outdated packages

npm outdated

## 7. Update all packages

npm update

## 8. Install dependencies from package.json

npm install

## 9. Running Scripts with NPM

Inside package.json, add: json

```
"scripts": {  
  "start": "node server.js",  
  "dev": "nodemon server.js"  
}
```

Run the script:

npm run start

npm run dev

Below NPM command is used to install express package.

```
D:\nodejs\node-website> npm install express
```

Below NPM command is used to install moment package.

```
D:\nodejs\node-website> npm install moment
```

Below NPM command is used to install path package.

```
D:\nodejs\node-website> npm install path
```

Below NPM command is used to install async package.

```
D:\nodejs\node-website> npm install async
```

Below NPM command is used to install mysql package.

```
D:\nodejs\node-website> npm install mysql
```

**Example for express package:**

```
const express = require('express');
const app = express();

app.get('/', (req, res) => {
  res.send('Hello, World!');
});

app.get('/aboutus', (req, res) => {
  res.send('About us!');
});

app.listen(3000, () => {
  console.log('Server running on http://localhost:3000');
});
```

### **Example for moment package :**

```
const moment = require('moment');

// Get current date and time
console.log("Current Date & Time:", moment().format('YYYY-MM-DD HH:mm:ss'));

// Format a date
const myDate = moment('2025-02-18');
console.log("Formatted Date:", myDate.format('MMMM Do YYYY, h:mm:ss a'));

// Add days to the current date
console.log("Date after 5 days:", moment().add(5, 'days').format('YYYY-MM-DD'));

// Subtract months from the current date
console.log("Date 2 months ago:", moment().subtract(2, 'months').format('YYYY-MM-DD'));

// Get the day of the week
console.log("Day of the week:", moment().format('dddd'));

// Get time from now
console.log("Time from now:", moment("2024-12-31").fromNow());

// Check if a date is valid
console.log("Is the date valid?", moment("2024-02-30").isValid());
```

### **Output :**

Current Date & Time: 2025-02-17 13:00:47  
Formatted Date: February 17th 2025, 12:00:00 am

Date after 5 days: 2025-02-23  
Date 2 months ago: 2024-12-18  
Day of the week: Tuesday  
Time from now: 2 months ago  
Is the date valid? false

### **Example for path package:**

```
const path = require('path');  
  
// Get file path dynamically  
  
const filePath = path.join(__dirname, 'data', 'example.txt');  
  
console.log("Current Directory:", __dirname);  
  
console.log("File Path:", filePath);  
  
console.log("File Extension:", path.extname(filePath));  
  
console.log("File Name:", path.basename(filePath));  
  
console.log("Directory Name:", path.dirname(filePath));
```

### **Output :**

```
Current Directory: D:\xampp\htdocs\nodejs_tutorials  
File Path: D:\xampp\htdocs\nodejs_tutorials\data\example.txt  
File Extension: .txt  
File Name: example.txt  
Directory Name: D:\xampp\htdocs\nodejs_tutorials\data
```

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