

# Node.js Path Module – Cheat Sheet

## 1. Load Path Module

```
const path = require("path");
```

## 2. **path.join()** – Join path segments safely.

```
path.join("folder", "sub", "file.txt")
```

## 3. **path.resolve()** – Create absolute path.

```
path.resolve("folder", "file.txt")
```

## 4. **path.basename()** – Get filename.

```
path.basename("/home/user/file.txt")
```

## 5. **path.dirname()** – Get directory name.

```
path.dirname("/home/user/file.txt")
```

## 6. **path.extname()** – Get file extension.

```
path.extname("file.txt")
```

## 7. **path.parse()** – Extract all path parts.

```
path.parse("/home/test/app.js")
```

## 8. **path.format()** – Build a path from object.

```
path.format({ dir: "/folder", base: "a.txt" })
```

## 9. **path.normalize()** – Fix messy paths.

```
path.normalize("/folder//sub/..file.txt")
```

## 10. **path.isAbsolute()** – Check if absolute.

```
path.isAbsolute("/home")
```

## 11. **path.sep** – OS separator.

Linux: / Windows: \

## Useful Patterns

- Get current file: `path.basename(__filename)`
- Get current folder: `path.dirname(__filename)`
- Build project path: `path.join(__dirname, "data", "users.json")`