

02–Node–Module–System/README.md

Chapter 2: Node Module System

Course Rules Reminder



Important Guidelines

-  **Attendance** - Not mandatory but highly recommended
-  **Remote troubleshooting** - Very difficult, attend class for best support

Questions

- **During class** - Always welcome! Ask immediately
- **After class** - Use the Toledo forum
- **Stuck?** - Independent research (Google, Stack Overflow, AI tools)

Labs

-  **Complete all GitHub Classroom Labs** - Essential for understanding
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Chapter Overview

Understanding the Node Module System

Learn how to organize your code into reusable modules

🤔 Key Questions

This chapter answers:

- 🔍 **What are modules?** - Building blocks of Node applications
 - 🎯 **Why do we need them?** - Code organization and reusability
 - 💡 **How do we use them?** - `require()` and `module.exports`
 - 🛠️ **How do we create them?** - Building your own modules
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📚 Modules We've Seen

You've already encountered some built-in modules:

Module	Purpose
<code>os</code>	Operating system information
<code>fs</code>	File system operations
<code>events</code>	Event handling
<code>http</code>	Create web servers

🎯 What You'll Learn

🌐 Global Objects

- Browser vs Node.js globals
- Understanding scope
- The `global` object

Module System

- What is a module?
- Module object
- Creating modules

Built-in Modules

- Path module
- OS module
- File System module

Events

- EventEmitter
- Event arguments
- Creating event-driven code

Chapter Slides

1. [Global Objects](#) - Understanding global scope in Node.js
2. [Module System Basics](#) - What modules are and why we need them
3. [Creating Custom Modules](#) - Build and export your own modules
4. [Built-in Modules](#) - Path, OS, and File System

5. [Events & EventEmitter](#) - Working with events
 6. [HTTP Module](#) - Creating web servers
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Key Concepts

Module Benefits

-  **Encapsulation** - Keep variables and functions private
 -  **Reusability** - Use the same code in multiple places
 -  **Maintainability** - Easier to update and debug
 -  **Organization** - Logical code structure
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Let's Get Started!

Ready to master the Node.js module system?

[Start with Global Objects →](#)

 [Course Home](#) | [← Previous: Chapter 1](#) | [Next Chapter: NPM →](#)