

Most Important Prerequisite Topics for Cypress Automation

1. Core JavaScript Essentials

Cypress tests are written in JavaScript, so this is the most important prerequisite.

Key areas to know:

- Variables: `let`, `const`
 - Data types and objects
 - Arrays and common array methods (`map`, `filter`, `reduce`, `find`)
 - Functions and arrow functions
 - Callback functions
 - Asynchronous JavaScript (Promises, `async/await`, event loop)
 - Basic understanding of the browser DOM
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2. Node.js and NPM Basics

Cypress runs on Node, and all dependencies are managed through npm.

You should understand:

- Installing Node.js
- `package.json`
- Installing and using dependencies

- Running npm scripts
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3. HTML and CSS Selectors

You do not need deep frontend development skills, but you must understand:

- HTML structure and attributes
 - Classes, IDs, and data attributes
 - CSS selectors (Cypress primarily uses CSS selectors)
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4. Git and Version Control

Cypress projects are usually part of a development workflow.

Learn the basics:

- Initializing a repository
 - Cloning repos
 - Adding and committing files
 - Pushing to GitHub or GitLab
 - Basic branching
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5. Cypress Fundamentals

Once the above foundations are clear, start with Cypress concepts.

Major topics:

- Cypress folder structure
 - Writing and executing Cypress tests
 - Element selection using `cy.get()` and `cy.contains()`
 - Assertions using `should` and `expect`
 - Custom commands
 - Fixtures and test data
 - Environment variables
 - Network stubbing and request handling using `cy.intercept()`
 - Retry mechanism and automatic waits
 - Page Object Model (recommended for larger frameworks)
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6. Basic Web Application Architecture

You should know:

- Difference between frontend and backend
 - Basics of client–server communication
 - JSON structure
 - Cookies, sessions, and authentication flows
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7. API Testing Fundamentals

Cypress supports backend testing using `cy.request()`.

Prerequisites:

- HTTP methods
 - Status codes
 - Headers
 - Query params
 - JSON request/response formats
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8. CI/CD Foundations

Cypress integrates with most CI tools.

You should be familiar with:

- GitHub Actions, GitLab CI, Jenkins (any one is enough)
 - Understanding YAML configuration
 - Running Cypress in headless mode
 - Generating reports and artifacts
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Final Priority Order (Most Important First)

1. JavaScript (especially asynchronous concepts)
2. Cypress basics and commands
3. HTML/CSS selectors
4. Node.js + NPM
5. API testing fundamentals

6. Git
 7. CI/CD pipelines
 8. Basic understanding of frontend/backend architecture
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If you want, I can also prepare:

- **A 30-day Cypress learning roadmap**
- **A complete syllabus for beginner to advanced**
- **A Cypress interview preparation guide**

Would you like any of these?