

Watchexec Cheatsheet

A comprehensive cheat sheet for Watchexec, a tool that executes commands on file changes. Includes installation, basic usage, advanced options, and practical examples.



tallati

| Installation & Basic Usage | | |
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| nstallation | Basic Usage | Watching Specific Files/Directories |
| Install Watchexec using your preferred package manager. macOS: brew install watchexec | The most basic use case: running a command when any file in the current directory changes. Example: watchexec echo 'File changed!' | You can tell Watchexec to only watch specific files or directories using thewatch or -w flag. Example: watchexec -w src -w tests npm test |
| Rust(Cargo): cargo install watchexec | This will print 'File changed!' to the console every time a file in the current directory is modified. | This command watches the src and tests directories, and runs npm test when any file |
| Linux/Windows: Download pre-built binaries from the <u>GitHub</u> <u>releases page</u> . | watchexec npm test Runs npm test whenever a file changes in the current directory. | within those directories changes. |
| Advanced Options & Configuration Filtering File Changes | Controlling Command Execution | Signal Handling |
| Watchexec allows you to filter which file changes trigger a command execution using extensions or ignore patterns. | You can control how Watchexec executes your commands using flags likerestart and debounce. | Usesignal or -s to specify which signal should be used to terminate the previously running process. |
| Example (Extensions): | Example (Restart): | Example: |
| watchexecexts js,jsx,ts,tsx npm run build | watchexecrestart npm start | watchexecsignal SIGTERM npm start |
| This command only triggers the npm run build command when a file with a .js, .jsx, .ts, or .tsx extension is modified. | If npm start is already running, Watchexec will restart the process on file change. If not specified, watchexec will run the command in parallel which might not be desirable. | This will send SIGTERM to the npm start process before restarting it. |
| Example (Ignore Patterns): | Example (Debounce): | |
| watchexecignore 'node_modules/*' ignore 'dist/*' npm run dev | watchexecdebounce 500 npm run test | |
| This command ignores changes within the node_modules and dist directories, preventing unnecessary command executions. | This command debounces the execution of npm run test by 500 milliseconds. If multiple file changes occur within that time, the command will only be executed once after the last change. | |
| Practical Examples | | |
| Web Development Workflow | Backend Development Workflow | Running Tests |
| Automatically rebuild and reload your web application on code changes. | Automatically restart your backend server on code changes. | Automatically run your tests when source files change. |
| Example (React): | Example (Node.js): | Example (Jest): |
| watchexec -w srcexts | watchexec -w srcexts js,tsrestart | watchexec -w src -w testexts |

js,jsx,ts,tsx,css,scss npm run start

Watches the src directory for changes in JavaScript, TypeScript, CSS, and SCSS files, then restarts the development server.

Watches the src directory for changes in JavaScript and TypeScript files, then restarts the

node server.js

Node.js server.

watchexec -w src -w test --exts js,jsx,ts,tsx npm test

Watches the src and test directories for changes in JavaScript and TypeScript files, then runs the Jest test suite.

Troubleshooting & Tips

| Common Issues | Configuration Files | |
|---|---|--|
| Too many restarts: If your command is triggered too frequently, use thedebounce flag to limit the execution rate. | For complex configurations, consider using a Watchexec configuration file (e.g., watchexec.toml). | |
| Ignoring files: Ensure yourignore patterns are correctly specified. Use glob patterns for directories (e.g., node_modules/*). | <pre>Example watchexec.toml : [commands] main = "npm run dev"</pre> | |
| Tips and Tricks | [watch] | |
| Combine with other tools: Watchexec works well with other build tools and task runners like Make, Gulp, or Webpack. | <pre>paths = ["src", "public"] extensions = ["js", "jsx", "ts", "tsx", "html", "css", "scss"]</pre> | |
| Use environment variables: Pass environment variables to your command using the standard syntax (e.g., NODE_ENV=development watchexec npm start). | <pre>[ignore] globs = ["node_modules/*", "dist/*"]</pre> | |

Run with watchexec --config

watchexec.toml .

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