

# readme.md for @git.zone/tools

A powerful CLI utility for managing your `@git.zone` development toolchain. Scan, update, and install all official `@git.zone` packages across multiple package managers — from a single command.

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## Installation

Install globally with your preferred package manager:

```
# npm
npm install -g @git.zone/tools

# pnpm (recommended)
pnpm add -g @git.zone/tools

# yarn
yarn global add @git.zone/tools
```

This gives you the `gtools` binary.

## Usage

# Overview

```
gtools          # Show available commands
gtools update   # Check & update installed @git.zone packages
gtools install  # Interactively install missing @git.zone packages
```

## gtools update — Keep Everything Fresh

Scans all available package managers (npm, pnpm, yarn) on your system, detects globally installed `@git.zone` packages, and checks them against the latest published versions.

```
gtools update          # Interactive – prompts before updating
gtools update -y       # Auto-approve all updates (great for CI)
gtools update --verbose # Show package manager detection diagnostics
```

### What it does:

1. `gtools` Detects which package managers are available on your system
2. `gtools` Shows a version table for each detected package manager
3. `gtools` Checks for a **self-update** of `gtools` itself first
4. `gtools` Lists all globally installed `@git.zone` packages with current vs. latest versions
5. `gtools` Prompts you to update any outdated packages (or auto-updates with `-y`)

### Example output:

Package managers:

Name	Current	Latest	Status
pnpm	10.28.2	10.28.2	✓ Up to date

Installed @git.zone packages:

Package	Current	Latest	PM	Status
@git.zone/cli	1.10.0	1.10.0	pnpm	✓ Up to date
@git.zone/tsbuild	4.3.0	4.3.0	pnpm	✓ Up to date
@git.zone/tstest	3.5.1	3.5.1	pnpm	✓ Up to date

All packages are up to date!

# gtools install — Bootstrap Your Toolchain ☐☐

Detects which official `@git.zone` packages are **not** installed and lets you pick which ones to add.

```
gtools install          # Interactive selection
gtools install -y      # Install all missing packages automatically
gtools install --verbose # Show detection diagnostics
```

## Managed packages:

Package	Description
<code>@git.zone/cli</code>	The main gitzone CLI ( <code>gitzone</code> command)
<code>@git.zone/tsbuild</code>	TypeScript compiler wrapper
<code>@git.zone/tstest</code>	Test runner for TypeScript projects
<code>@git.zone/tsbundle</code>	Bundle TypeScript for browsers
<code>@git.zone/tswatch</code>	File watcher with live reload
<code>@git.zone/tspublish</code>	Publish packages to npm registries
<code>@git.zone/tsdoc</code>	Documentation generator
<code>@git.zone/tsdocker</code>	Docker integration for TS projects
<code>@git.zone/tsview</code>	Component viewer
<code>@git.zone/tsrust</code>	Rust cross-compilation support

## Smart Package Manager Detection ☐☐

`gtools` doesn't assume which package manager you use. It probes for `npm`, `pnpm`, and `yarn` using multiple detection strategies:

1. `which` **command** — checks the system PATH
2. `--version` **fallback** — directly invokes the PM if `which` fails

When installing, it recommends the package manager that already has the most `@git.zone` packages, so your toolchain stays consistent.

# Programmatic API

You can also use `@git.zone/tools` as a library:

```
import { runCli } from '@git.zone/tools';

// Launch the CLI programmatically
await runCli();
```

Or use the `PackageManagerUtil` class directly for custom tooling:

```
import { PackageManagerUtil } from
 '@git.zone/tools/dist_ts/mod_update/classes.packagemanager.js';

const pmUtil = new PackageManagerUtil();

// Check if pnpm is available
const pnpmInfo = await pmUtil.detectPackageManager('pnpm');
console.log(pnpmInfo.available); // true/false

// Get globally installed @git.zone packages
const packages = await pmUtil.getInstalledPackages('pnpm');

// Get latest version from registry (checks private registry first, then npm)
const latest = await pmUtil.getLatestVersion('@git.zone/tsbuild');

// Compare versions
pmUtil.isNewerVersion('1.0.0', '2.0.0'); // true
```

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