Deno Secure TS runtime

CONCEPTS

Scripts run in a sandbox: no disk, network or env access unless you grant it with --allow-* flags (or answer the prompt).

Specifier jsr: npm: https:
↓ resolve
Cache deno.lock pins it
↓ check
Type-check TypeScript built in
↓ permissions
Run sandboxed by flags

RUN AND PERMISSIONS

`deno run <file>`
Run a script or URL

`deno run -A <file>`
Allow everything (trusted code only)

`--allow-read[=<path>] / -R`
Allow file reads, optionally scoped

`--allow-write[=<path>] / -W`
Allow file writes

`--allow-net[=<host>] / -N`
Allow network access

`--allow-env[=<VAR>] / -E`
Allow reading env vars

`deno run --watch <file>`
Restart on file changes

`--env-file[=<path>]`
Load env vars from a file

`deno serve <file>`
Run a default-export fetch handler as a server

TASKS AND CONFIG

`deno task`
List tasks in deno.json

`deno task <name>`
Run a task

TASKS AND CONFIG (cont.)

`deno init <dir>`
New project with main.ts and a test

DEPENDENCIES

`deno add <pkg>`
Add dependencies to the config

`deno add jsr:@std/<name>`
Add a JSR package

`deno add npm:<pkg>`
Add an npm package

`deno install`
Install all deps from deno.json/ package.json

`deno outdated`
Show newer dependency versions

TEST AND CHECK

`deno test`
Run all tests

`deno test <file>`
Run one test file

`deno test --filter "<name>"`
Run tests matching a name

`deno check <file>`
Type-check without running

A test is Deno.test("name", () ⇒ {...}) in a file named *_test.ts or *.test.ts.

FORMAT AND LINT

`deno fmt`
Format all files

`deno fmt --check`
Fail if anything is unformatted

`deno lint`
Lint all files

BUILD AND PUBLISH

`deno compile <file>`
Bundle into a standalone executable