# GRADLE COMMAND LINE CHEAT SHEET

## Command line options

Pass these options when executing task(s) on the command line.

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|---|---|
| `--help (-h)` | prints all command line options |
| `--info (-i)` | prints extra output. Useful for debugging. |
| `--console=<plain, auto, rich, verbose>` | default is *auto*. Set to *verbose* to print tasks executed as part of this build. |

## Gradle wrapper

Use the wrapper script so a) anyone who clones your repo can build it without a local Gradle installation, and b) all builds use the same Gradle version.

| | |
|---|---|
| `gradle wrapper` | creates the Gradle wrapper in an existing project. Requires a local Gradle installation. |
| `gradlew.bat <task-name> (Windows)` `./gradlew <task-name> (Linux/Mac)` | executes a task using wrapper |
| `gradlew.bat wrapper --gradle-version=<gradle-version> (Windows)` `./gradlew wrapper --gradle-version=<gradle-version> (Linux/Mac)` | updates the Gradle version used by the wrapper |

**i** remember to commit ALL wrapper files into version control
(*gradle-wrapper.jar, gradle-wrapper.properties, gradlew, and gradlew.bat*)

## Project layout

A standard Gradle project can have the following files and directories.

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|---|---|
| `.gradle` | Gradle internal cache (do not commit) |
| `build` | directory into which Gradle creates task outputs, such as compiled classes (do not commit) |
| `buildSrc` | directory into which you add custom tasks and plugins |
| `build.gradle.kts` | build configuration file, written in Kotlin |
| `gradle/wrapper/gradle-wrapper.jar` | program responsible for downloading Gradle distribution when executing the wrapper script |
| `gradle/wrapper/gradle-wrapper.properties` | configuration file for wrapper, including Gradle distribution URL. Updated automatically when you modify Gradle version (see *Gradle wrapper* section). |
| `gradlew` | wrapper script for Linux/Mac environments |
| `gradlew.bat` | wrapper script for Windows environments |
| `settings.gradle.kts` | project settings file, written in Kotlin. Set the project name here. |

## Abbreviated task names

Shorten the task name(s) you pass to the wrapper, saving time. Here are some examples.

| | |
|---|---|
| `./gradlew h` | runs the *help* task |
| `./gradlew gD` | runs a task called *generateDescriptions* |
| `./gradlew p` | fails as it matches *projects* and *properties*. Provide more of the task name e.g. `./gradlew proj`. |