Composer PHP package manager

CONCEPTS

Commit composer.lock for applications: install then gives every machine the same versions.

composer.json your constraints
↓ update / require
composer.lock exact versions
↓ install
vendor/ packages + autoload.php

install reads the lock file; update resolves composer.json and rewrites the lock.

PROJECT

composer init
Create composer.json interactively

composer create-project *<vendor/pkg> <dir>*
Start a new project from a package

INSTALL & REMOVE

composer install
Install exactly what the lock says

composer install --no-dev
Skip require-dev packages

composer install -o
Optimize the autoloader

composer remove *<vendor/pkg>*
Remove a dependency

REQUIRE & UPDATE

composer require *<vendor/pkg>*
Add a package and install it

composer require *<vendor/pkg>*:*<constraint>*
Add with a version constraint

composer require --dev *<vendor/pkg>*
Add a dev-only dependency

composer update
Update everything within constraints

composer update *<vendor/pkg>*
Update only one package

composer update *<vendor/pkg>* **-W**
Also update its dependencies

INSPECT

composer show
List installed packages

composer show *<vendor/pkg>*
Details of one package

composer show -t
Dependency tree

composer outdated
List packages with newer versions

composer outdated -D
Only direct dependencies

composer why *<vendor/pkg>*
Why is this installed?

composer why-not *<vendor/pkg> <version>*
Why can't this version be installed?

AUTOLOAD & SCRIPTS

composer dump-autoload
Regenerate the autoloader

composer dump-autoload -o
Generate an optimized classmap

composer run-script *<name>*
Run a script from composer.json

composer *<name>*
Shortcut for run-script

SECURITY & AUDIT

composer audit
Check for known vulnerabilities

GLOBAL & OPTIONS

composer global require *<vendor/pkg>*
Install a tool for your user

composer self-update
Update Composer itself

composer -n *<command>*
Never ask questions (CI)

composer --version
Show the Composer version

composer help *<command>*
Help for a command

composer list
List all commands