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 re-solves 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

`composer validate`
Check composer.json is valid

`composer config <key> <value>`
Set a config value

`composer diagnose`
Check system and network problems

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 install --dry-run`
Show what would happen

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

`composer clear-cache`
Empty the download cache

REQUIRE & UPDATE

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

REQUIRE & UPDATE (cont.)

`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

`composer update --dry-run`
Preview an update

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`composer outdated`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`composer outdated -D`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?

`composer search <text>`
Search Packagist

`composer check-platform-reqs`
Check PHP and extension needs

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

AUTOLOAD & SCRIPTS (cont.)

`composer <name>`
Shortcut for run-script

`composer run-script -l`
List available scripts

`composer run-script <name> -- <args>`
Pass arguments to a script

`composer exec <bin>`
Run a binary from vendor/bin

SECURITY & AUDIT

`composer audit`
Check for known vulnerabilities

`composer audit --locked`
Audit the lock file only

GLOBAL & OPTIONS

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

`composer self-update`
Update Composer itself

`composer -d <dir> <command>`
Run in another directory

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

`composer -v / -vv / -vvv`
More output

`composer --version`
Show the Composer version

`composer help <command>`
Help for a command

`composer list`
List all commands

RECIPES

New project with a dev tool

```
composer init
composer require monolog/monolog
composer require --dev phpunit/phpunit
vendor/bin/phpunit
```

Production deploy

```
composer install --no-dev -o --no-interaction
# or: -a for an authoritative classmap
```