Composer Cheat Sheet

Installation

Download Composer from https://getcomposer.org/download/ and follow the instructions.

Enable bash autocompletion:

```
composer completion bash | sudo tee /etc/bash_completion.d/composer
```

Installing dependencies

Command	Description
composer install	Install dependencies from composer.lock
composer install --no-dev	Install without development dependencies

Managing dependencies

Command	Description
composer require <package>	Add a new dependency to composer.json and install it
composer require <package>:<version>	Require a specific version of a dependency
composer require --dev <package>	Add a new development dependency to composer.json and install it
composer update	Update all dependencies to their latest installable versions
composer update <package>	Update a dependency to its latest installable version
composer update <vendor>/*	Update all dependencies of a vendor to their latest versions
composer remove <package>	Remove a dependency from composer.json and uninstall

Global dependencies

Command	Description
composer global require <package>	Add a new global dependency to composer.json and install it
composer global update	Update all global dependencies

Configuration

Command	Description
composer config sort-packages true	Sort packages in composer.json alphabetically

Authentication

Command	Description
composer config --global github-oauth.github.com <token>	Authenticate with GitHub using a personal access token
composer config --global http-basic.repo.packagist.com <username> <password>	Authenticate with Private Packagist using a username and password

Dependency analysis

Command	Description
composer show	List all installed dependencies
composer show <package>	Display detailed information about a package
composer outdated	List dependencies that are outdated
composer audit	Check for known security vulnerabilities in dependencies
composer licenses	List all licenses of installed dependencies

Creating new Composer projects

Command	Description
composer init	Create a composer.json file in the current directory
composer create-project <package>	Create a new project from a package

Other commands

Command	Description
composer --version	Show the current Composer version
composer self-update	Update Composer to the latest version

Version constraints

Constraint	Description
`1.0.2`	Exactly version `1.0.2`
`>=1.0.2`	Version `1.0.2` or higher
`>=1.0.2 <1.1.0`	Version `1.0.2` or higher but lower than `1.1.0`
`>=1.0.2 <1.1.0 || >=1.2.0`	Version `1.0.2` or higher but lower than `1.1.0` or version `1.2.0` or higher
`1.0 - 2.0`	Version `1.0` to `2.0` (including `1.0` and `2.0`)
`1.0.*`	Version `1.0` with any patch version
`~1.2`	Version `1.2` or higher but lower than `2.0`
`~1.2.3`	Version `1.2.3` or higher but lower than `1.3`
`^1.2`	Version `1.2` or higher but lower than `2.0`
`^1.2.3`	Version `1.2.3` or higher but lower than `2.0`

Repositories

Command	Description
`composer config repositories.foo composer <url>`	Add a new repository named `foo` with the given URL as a Composer repository
`composer config repositories.foo vcs <url>`	Add a new repository named `foo` with the given URL as a VCS repository
`composer config repositories.foo vcs git@github.com:foo/bar.git`	Add a new GitHub repository named `foo/bar` as a VCS repository
`composer config repositories.foo path <path>`	Add a new repository named `foo` with the given path as a path repository