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

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Command	Description
composer install	Install dependencies from composer.lock
composer installno-dev	Install without development dependencies

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

Global dependencies

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

Configuration

Command

composer config sort-packages true

Description

Sort packages in composer.json alphabetically

Authentication

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

Dependency analysis	
Command	Description
composer show	List all installed dependencies
composer show <package></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composer outdated	List dependencies that are outdated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></package>	Create a new project from a package

Other commands	
Command	Description
composerversion	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></url>	Add a new repository named foo with the given URL as a Composer repository
composer config repositories.foo vcs <url></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
<pre>composer config repositories.foo path <path></path></pre>	Add a new repository named foo with the given path as a path repository