



Magento Composer Installer

MagentoLive Germany

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Composer

“Composer is a tool for dependency management in PHP. It allows you to declare the dependent libraries your project needs and it will install them in your project for you.”

<http://getcomposer.org>

Development of Composer

Only the Main Project

- First commit: 05.04.2011
- Commits since: >3800
- Contributor: 259

Some of the not counted Project parts:

- Packagist (powers packagist.org)
- Satis (gets used from packages.firegento.com)

Composer.phar

- composer.phar install
 - installs all required packages
- composer.phar update
 - Installs new required packages and removes packages not required anymore
- composer.phar validate
 - test if composer.json is ok for publish the module
- composer.phar licenses
 - for your legal department
- composer.phar archive
 - for creating an archive file with all depending libraries

composer.json

```
{  
  "require": {  
    "fbrnc/aoe_profiler": "0.3.0"  
  }  
}
```

composer.json of an Magento Module

```
{
  "name": "fbrnc/Aoe_Profiler",
  "license": "OSL-3.0",
  "type": "magento-module",
  "description": "Magento Profiler",
  "homepage": "http://www.fabrizio-branca.de/magento-profiler.html",
  "require": {
    "magento-hackathon/magento-composer-installer": "*"
  },
  "authors": [
    {
      "name": "Fabrizio Branca",
      "email": "mail@{firstname}-{lastname}.de"
    }
  ]
}
```

Where are dependencies downloaded to

```
$ tree -L 3
```

```
.  
├── composer.json  
├── composer.lock  
└── vendor  
    ├── autoload.php  
    ├── composer  
    │   ├── autoload_classmap.php  
    │   ├── autoload_namespaces.php  
    │   ├── autoload_real.php  
    │   ├── ClassLoader.php  
    │   └── installed.json  
    ├── fbrnc  
    │   └── Aoe_Profiler  
    ├── magento-hackathon  
    └── magento-composer-installer
```


Composer.lock

- it is only interpreted during composer.phar install
- if composer.lock exists, composer.json is ignored during install
- composer.lock is autogenerated after every install/update command
- it contains everything of composer.json + dependencies of modules + exact versions
- It is used to grant, that others have after “composer.phar install” the exact same versions as you have. (thats why adding ./vendor to vcs is not even necessary)
- this is expert knowledge, if you are not experianced enough, ignore this file

Install Magento via composer

```
{
  "require": {
    "connect20/mage_all_latest": "*"
  },
  "repositories": [
    {
      "type": "composer",
      "url": "http://packages.firegento.com"
    }
  ],
  "extra": {
    "magento-deploystrategy": "copy",
    "magento-force": "override",
    "magento-root-dir": "../htdocs/"
  }
}
```


Install Magento modules via composer

```
{
  "require": {
    "fbrnc/aoe_templatehints": "*",
    "fbrnc/aoe_profiler": "*",
    "firegento/psr0autoloader": "dev-master",
    "firegento/magesetup": "*"
  },
  "repositories": [
    {
      "type": "composer",
      "url": "http://packages.firegento.com"
    }
  ],
  "extra": {
    "magento-deploystrategy": "symlink",
    "magento-root-dir": "../htdocs/"
  }
}
```


How does the installer know where to put the files?

./modman

app/etc/modules/*
app/code/community/Aoe/Profiler
app/code/community/Varien/Profiler.php
app/code/community/Zend/Db/Profiler.php
skin/frontend/base/default/aoe_profiler
skin/adminhtml/base/default/aoe_profiler

app/etc/modules/
app/code/community/Aoe/Profiler
app/code/community/Varien/Profiler.php
app/code/community/Zend/Db/Profiler.php
skin/frontend/base/default/aoe_profiler
skin/adminhtml/base/default/aoe_profiler

Why Magento needs this

- Magento Connect Download Manager
 - Is for users, not developers
- Composer opens the gates to the php ecosystem
- Allows to change module structure slowly into magento2 direction

External Services based on Composer

- Versioneye
 - Notifies you about new releases
 - Warns if you use outdated versions
 - Integrates already in symfony and zend dev-toolbars
- SendsioLabs Security Advisories Checker beta
 - Automated report of possible security issues and php bad practice

Links

- <http://getcomposer.org/>
- <https://packagist.org/>
- <http://packages.firegento.com/>
- <https://github.com/magento-hackathon/composer-repository>
- <https://github.com/magento-hackathon/magento-composer-installer>