



Composer & Frameworks

How they make development easier

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About me

- 25 years
- Student @ Fontys Venlo
- 4th Semester - Software-Engineering
- <https://github.com/lukeelten>

Frameworks - Do not reinvent the wheel

What is a Framework?

[...] a software framework is an abstraction in which software providing generic functionality [...]

- Wikipedia (Software framework)

What is a Framework?

- Reusable code (DRY)
- Design pattern applied
- Server-side / Client-side

Why should I use a Framework?

- + Faster Coding
- + Security Functions included
- + Tested and frequently used
- + ORM

But ...

- Time to learn
- Forced application structure
- Multiple files to load

Some Frameworks in detail



Contao



PIWIK



shopware



**Massachusetts
Institute of
Technology**





Other important frameworks

- Laravel
- Horde Framework
- Yana Framework
- Yii Framework

Composer - Dependency Management for PHP

What is Dependency Management?

Dependency Management in other languages

- Maven (Java)
- gem / bundler (Ruby)
- pip (Python)
- npm / bower (Javascript)

Why composer makes your life easier

Important files

- `composer.json`
- `composer.lock`
- `vendor/autoload.php`

```
{  
    "name": "vendorName/projectName",  
    "require": {  
        "important/package": "2.*",  
    }  
}
```


Common mistakes

Workshop

Installing composer

OSX

brew install composer

Linux

Package Manager: *composer* or *php-composer*

Download .phar at <https://getcomposer.org/download>

Windows

Installation package on <https://getcomposer.org/download>

Existing PHP Installation required (e.g. XAMPP)

Using composer

General command

composer OR php composer.phar

Create project

composer create-project *vendor/projectname target_dir*

Install package

composer require [--dev] *package_name*

Use existing project

composer install

composer update

Start CakePHP Project

Create Project

```
composer create-project --prefer-dist cakephp/app AppName
```

Thank you for your attention.

Any Questions?

This talk is freely available on GitHub.

<https://github.com/lukeelten/typo3camp2016>

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- <https://getcomposer.org>
- <http://cakephp.org>
- <http://bakery.cakephp.org>
- https://en.wikipedia.org/wiki/Software_framework
- <http://flow.typo3.org>