

Composer, l'outil moderne de gestion de dépendances

C'est à quel sujet ?

- Dépendances, kezako ?
- Mes 1ers pas avec Composer
- Aller un peu plus loin

Votre serviteur



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The Ebook Alternative

‘tea’
the ebook alternative



The Ebook Alternative



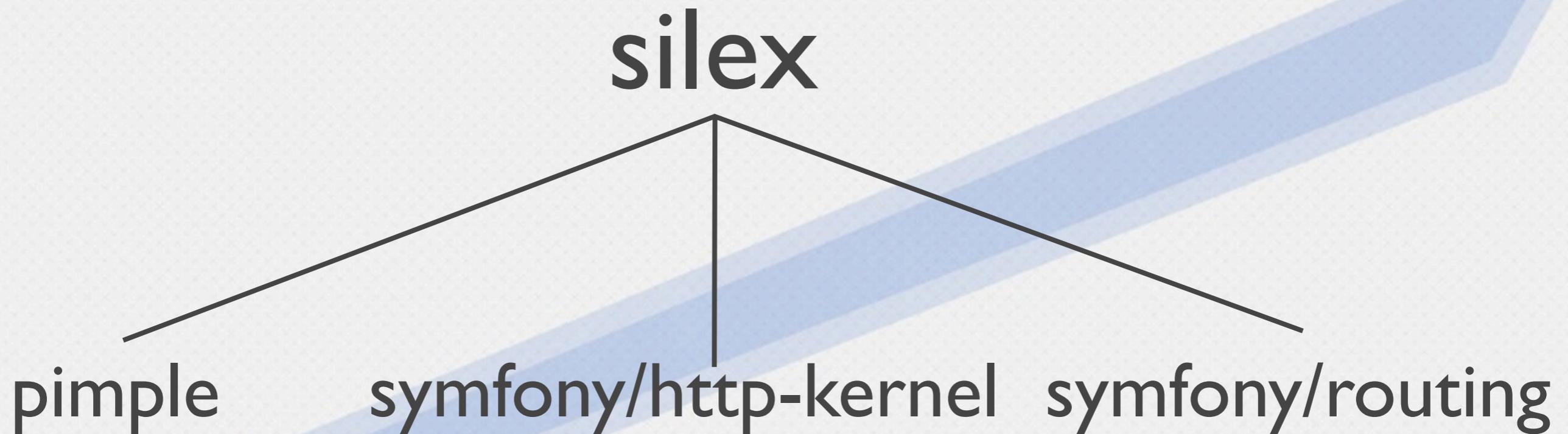
Dépendance

Kézako ?

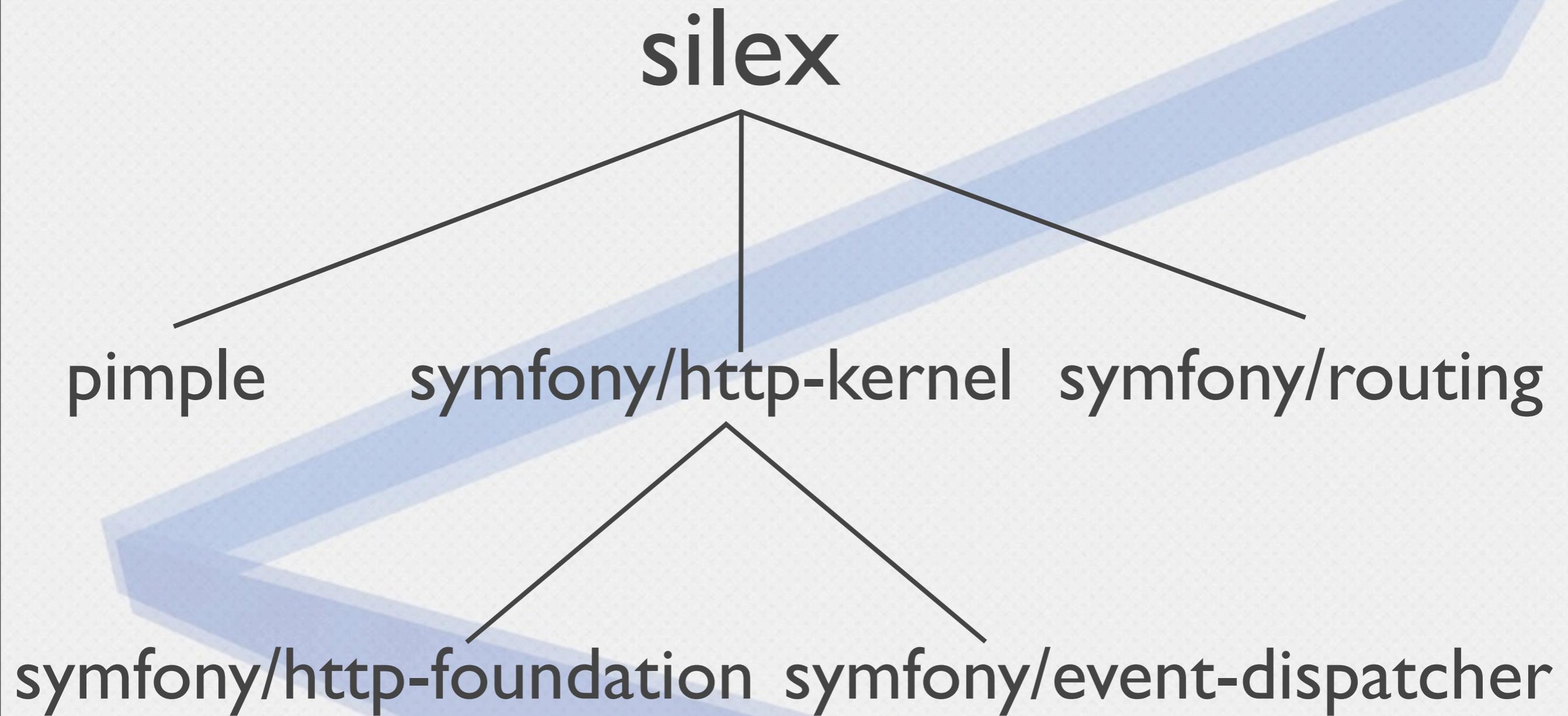
Problème des dépendances

silex

Problème des dépendances



Problème des dépendances



Maintenance



Maintenance



Comment faisions-nous ?

- Téléchargement et installation à la main
- Submodules des gestionnaires de versions

Et donc, composer ?



Et donc, composer ?



Installer composer

```
$ curl -s https://getcomposer.org/installer | php
```

```
$ php composer.phar
```

```
$ php composer.phar self-update
```

Un fichier nommé plaisir

composer.json

```
{  
    "require": {  
        "silex/silex": "1.0.x-dev"  
    }  
}
```

Les packages

- « dépendance »
- Archive / Repository Git / Dépôt SVN
- Version
 - 1.0.x-dev
 - 1.0.0
 - $\geq 1.0, < 2.0$

L'installation des dépendances

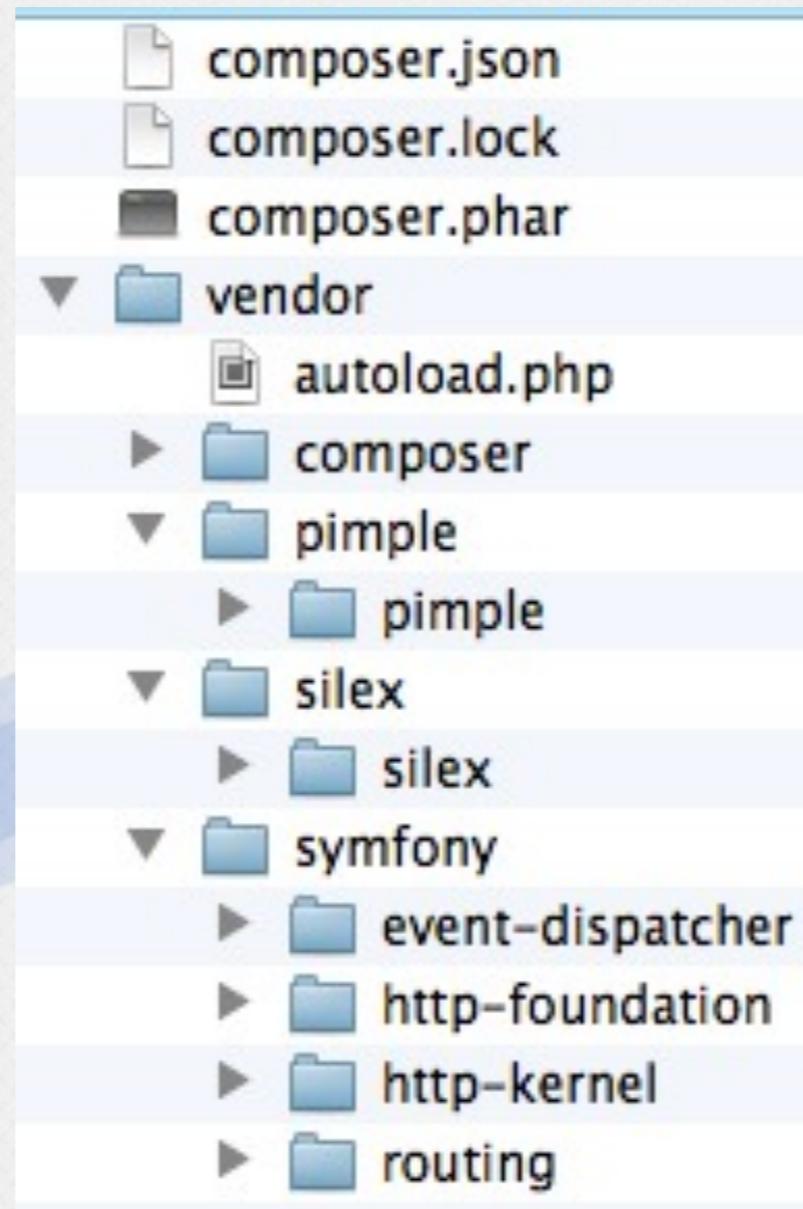
```
$ php composer.phar install
```

```
Loading composer repositories with package information
Installing dependencies
- Installing symfony/routing (v2.1.3)
- Installing symfony/http-foundation (v2.1.3)
- Installing symfony/event-dispatcher (v2.1.3)
- Installing symfony/http-kernel (v2.1.3)
- Installing pimple/pimple (1.0.0)
- Installing silex/silex (dev-master 0829298)
  Cloning 0829298b374167464842ad2c52e574dc6140dccf
```

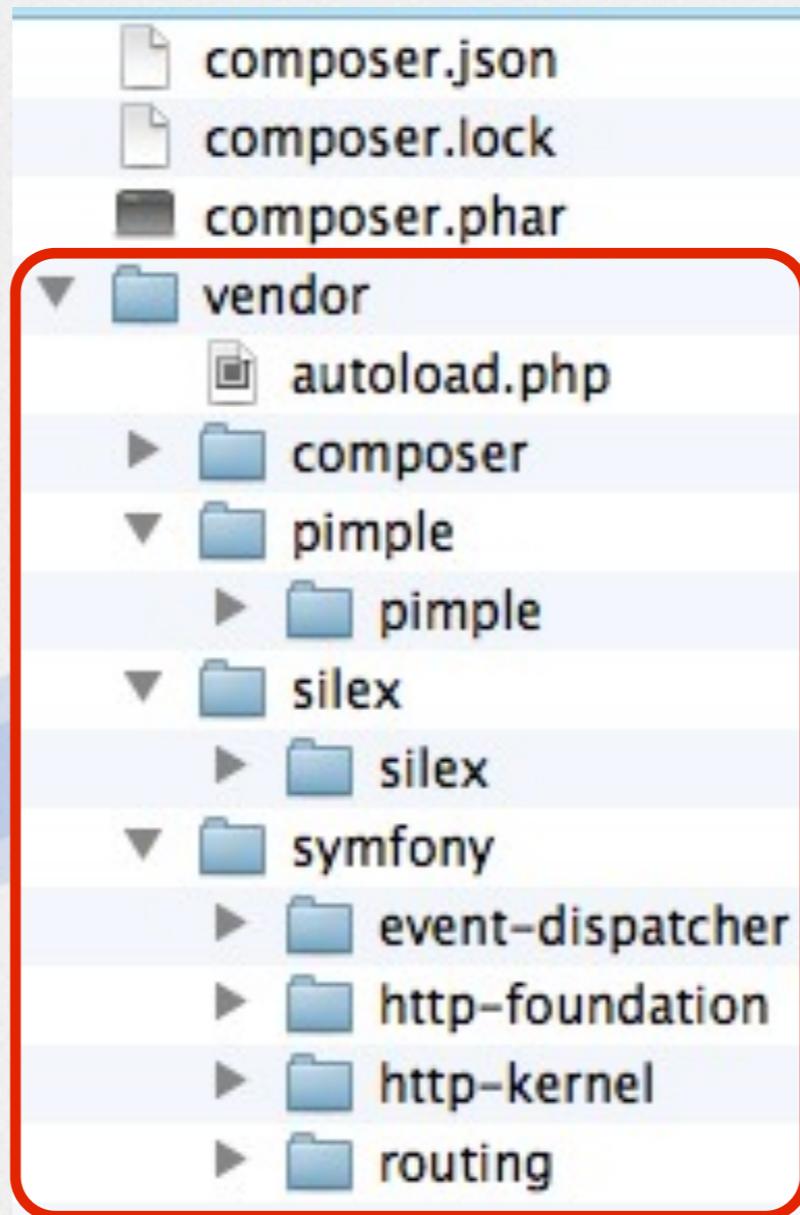
Tips

```
$ php composer.phar install --dry-run
```

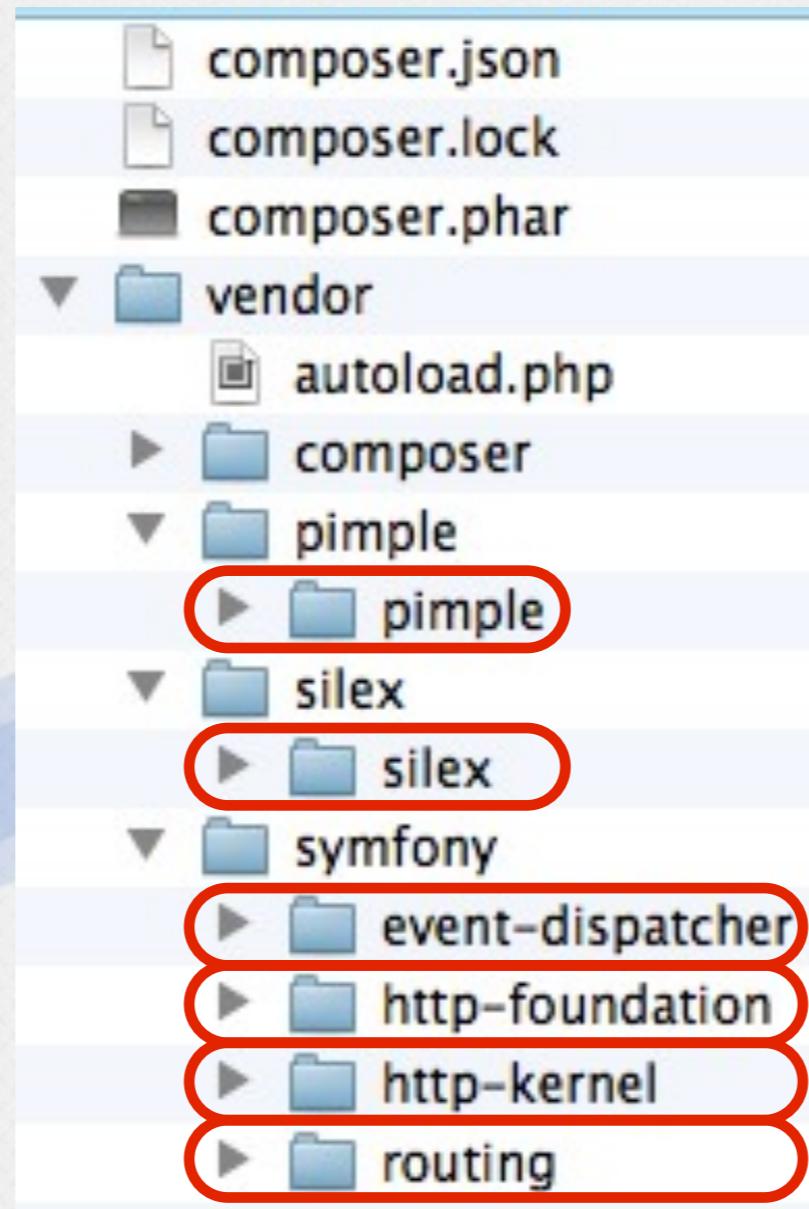
Mes dépendances



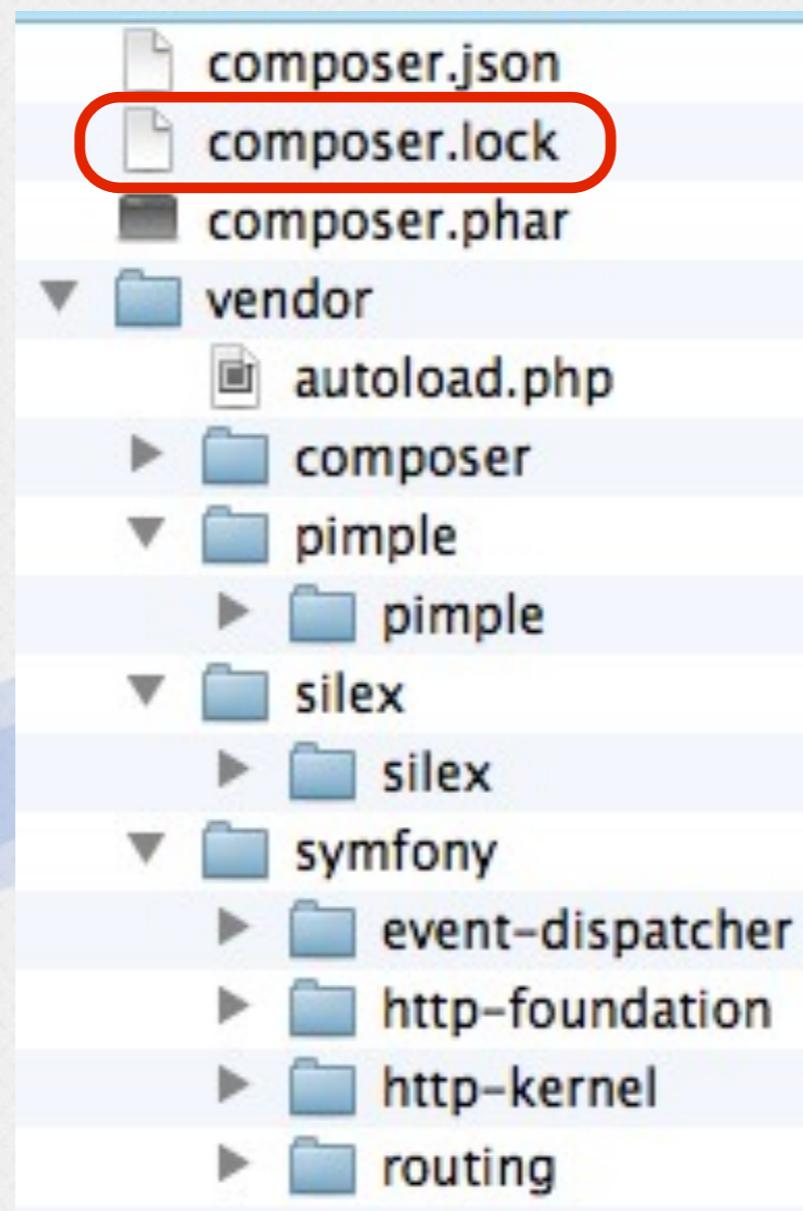
Mes dépendances



Mes dépendances



Mes dépendances



composer.lock

```
{  
    "name": "silex/silex",  
    "version": "dev-master",  
    "source": {  
        "type": "git",  
        "url": "git://github.com/fabpot/Silex.git",  
        "reference": "46ac91f06d2b5b37bde03d7f185b82645f10f691"  
    },  
    "dist": {  
        "type": "zip",  
        "url": "https://github.com/fabpot/Silex/archive/46ac91f06d2b5b37bde03d7f185b82645f10f691.zip",  
        "reference": "46ac91f06d2b5b37bde03d7f185b82645f10f691",  
        "shasum": ""  
    },  
    "require": {  
        "php": ">=5.3.3",  
        "pimple/pimple": "1.*",  
        "symfony/event-dispatcher": ">=2.1,<2.3-dev",  
        "symfony/http-foundation": ">=2.1,<2.3-dev",  
        "symfony/http-kernel": ">=2.1,<2.3-dev",  
        "symfony/routing": ">=2.1,<2.3-dev"  
    },  
}
```

l'installation d'un existant

```
$ php composer.phar install
```

Et les mises à jour alors ?

```
$ php composer.phar update
```

```
Loading composer repositories with package information
Updating dependencies
- Updating silex/silex dev-master (0829298 => 46ac91f)
  Checking out 46ac91f06d2b5b37bde03d7f185b82645f10f691

Writing lock file
Generating autoload files
```

Versionnement

```
$ cat .gitignore  
vendor/
```

```
$ git add composer.*
```

Trouver mes dépendances



Packagist
The PHP package archivist.

Transformer un projet en package

- Dis, papa, c'est quoi un package ?
- Mon fils, c'est un projet avec un nom

Transformer un projet en package

```
{  
    "name": "PhpTourNantes/presentation",  
    "require": {  
        "silex/silex": "1.0.x-dev"  
    }  
}
```

```
{  
    "require": {  
        "PhpTourNantes/presentation"  
    }  
}
```

Transformer un projet en package

```
{  
    "name": "PhpTourNantes/presentation"  
    "require": {  
        "silex/silex": "1.0.x-dev"  
    }  
}
```

```
{  
    "require": {  
        "PhpTourNantes/presentation"  
    }  
}
```

Et mes packages privés ?

github.com/composer/satis

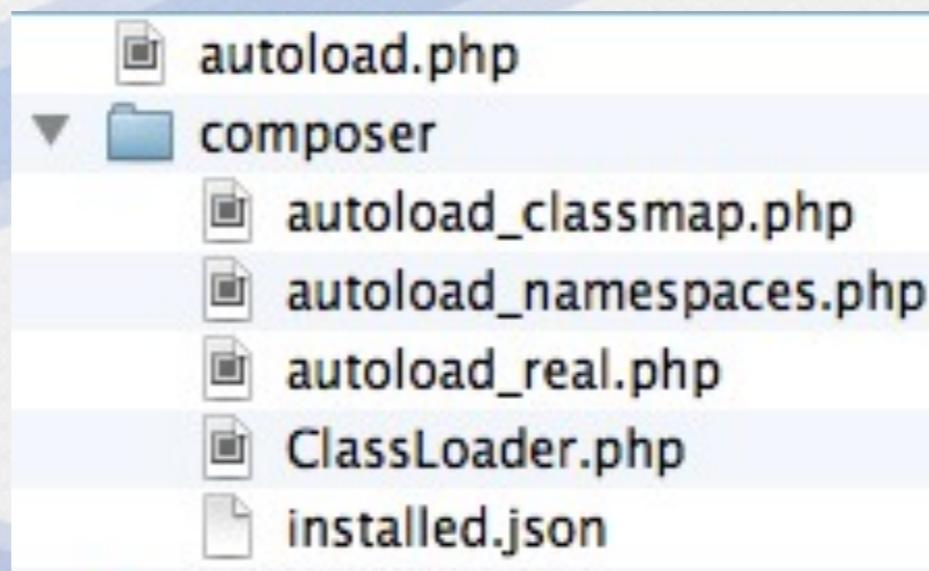
```
{  
    "repositories": [  
        { "type": "vcs", "url": "http://github.com/phptournantes/presentation" }  
    ],  
    "require": {  
        "phptournantes/presentation": "*",  
    }  
}
```

```
{  
    "repositories": [ { "type": "composer", "url": "http://packages.example.org/" } ],  
    "require": {  
        "PhpTourNantes/presentation"  
    }  
}
```

Utiliser ses dépendances

```
<?php
```

```
require __DIR__.' /vendor/autoload.php '
```



Autoloading de mes sources

```
{  
    "name": "PhpTourNantes/presentation",  
    "require": {  
        "silex/silex": "1.0.x-dev"  
    },  
    "autoload": {  
        "psr-0": { "AFUP": "src/AFUP" },  
        "classmap": ["src/foobar", "lib/", "Something.php"],  
        "files": ["foobar/myFunctions.php"]  
    }  
}
```

Tips

```
$ php composer.phar install --optimize-autoloader
```

Les mauvais côtés

- Pas de proxy efficace
 - Dépendance aux repositories distants
 - Pas de mutualisation possible

Les mauvais côtés

- En développement constant
 - Pas de version stable

Composer, et plus encore

```
{  
    "name": "PhpTourNantes/presentation",  
    "require": {  
        "silex/silex": "1.0.x-dev",  
        "php": ">=5.4",  
        "ext-gd": "*",  
        "lib-curl": "*"  
    },  
}
```

Dépendances de développement

```
{  
    "name": "PhpTourNantes/presentation",  
    "require": {  
        "silex/silex": "1.0.x-dev"  
    },  
    "require-dev": {  
        "atoum/atoum": "dev-master"  
    }  
}
```

```
$ php composer.phar install --dev
```

Hooks

```
{  
    "name": "PhpTourNantes/presentation",  
    "require": {  
        "silex/silex": "1.0.x-dev"  
    },  
    "scripts": {  
        "post-update-cmd": "MyVendor\\MyClass::postUpdate",  
        "post-package-install": [  
            "MyVendor\\MyClass::postPackageInstall"  
        ],  
        "post-install-cmd": [  
            "MyVendor\\MyClass::warmCache",  
            "phpunit -c app/"  
        ]  
    }  
}
```

Conclusion

- Composer, c'est bien !
- Lire la doc
 - <http://getcomposer.org/doc/>
- Suivre le développement
 - <https://github.com/composer/composer>

Merci à vous

Question ?



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joindin <https://joind.in/talk/view/7247>