



**AUSTIN 2016**

# CRISTIAN PARTICA

Module developer for M2 Core, Austin TX

**M1 to M2 Migration**

**[www.magetitans.com](http://www.magetitans.com)**

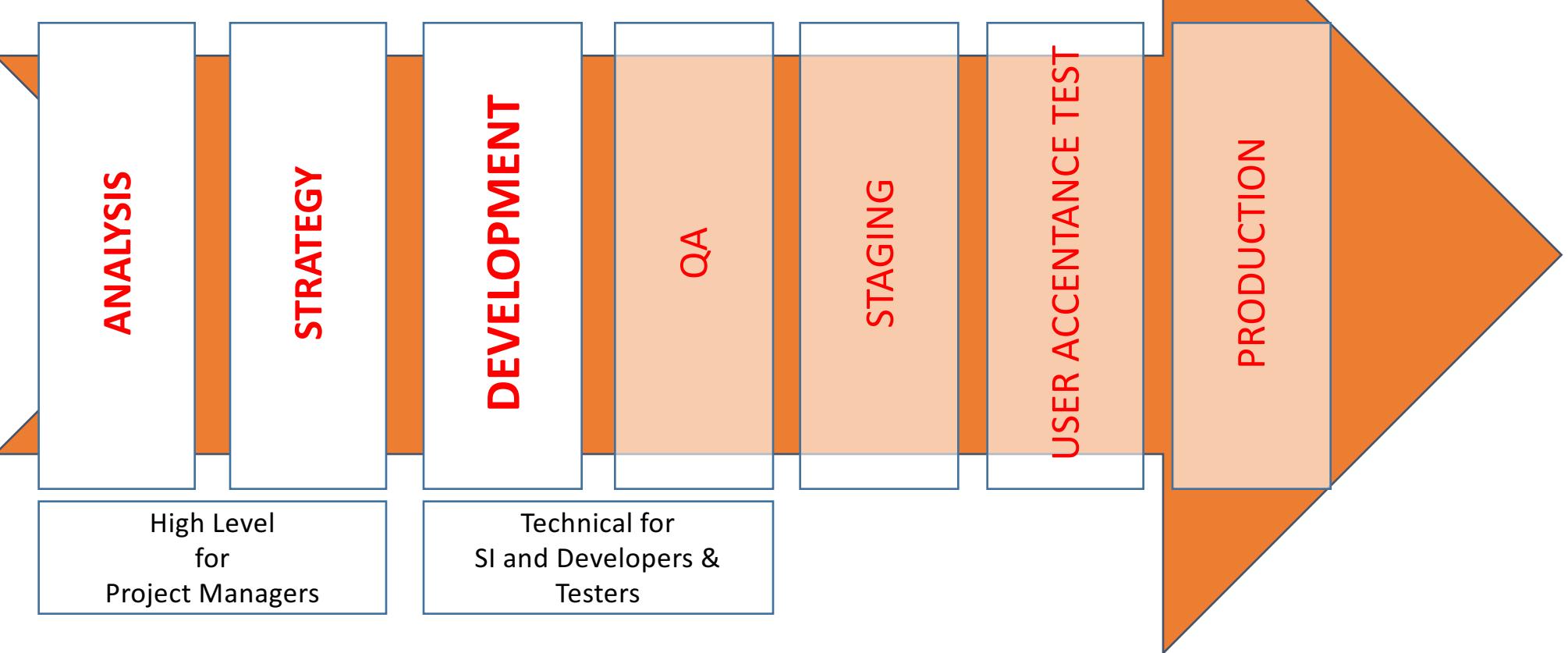
#MageTitansUSA @MageTitans



M1 to M2 Migration  
...is not easy but rewarding



# The Migration Project





# Analysis

# Analysis

## *Code Audit*

- Custom Modules & Extensions
- Unused modules & bad code
- Map dependencies
- Javascript libraries and logic on client side
- Re-evaluate your code & separation of concerns

# Analysis Requirements

- What features do you want to port to M2
- Are they compatible? How do they map out?
- Is Mobile a focus in your project?
- Testing
- Staging and production deployment tools

# Analysis

## *Presentation Layer*

- Theming is very different in M2
- Define your theming approach
- Re-evaluate your code & separation of concerns
- There is no automated tool for theming
- Do you have the resources for porting css, phtml, layouts into Luma, and implement equivalent customization with M2 Javascript

# Analysis

## *Testing Docs*

- Document your way into the project
- Plan for testing
- Define your tests and how will you execute them
  - Will you do only functional tests? Integration Tests? Unit tests?

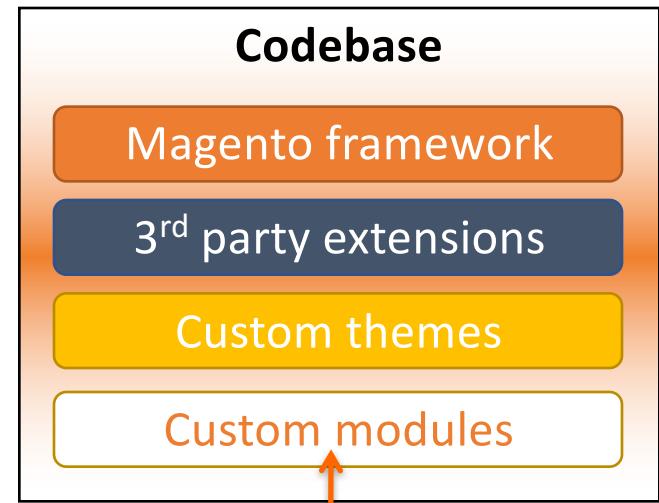


# Strategy



# Strategy Code

- Features, modules, theming, integrations
- Implement your own module? Or use 3<sup>rd</sup> party?
- Divide, merge, or completely refactor?
- A good time to re-architect



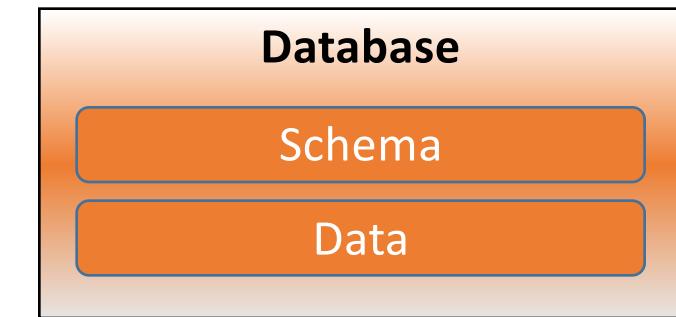
**Code migration tool**  
[github.com/magento/code-migration](https://github.com/magento/code-migration)



# Strategy

## Data

- Information Migration
- What data will you port
- Do you have custom data
- How much will you port
- Sample for development



**Data migration tool**  
[github.com/magento/data-migration-tool](https://github.com/magento/data-migration-tool)

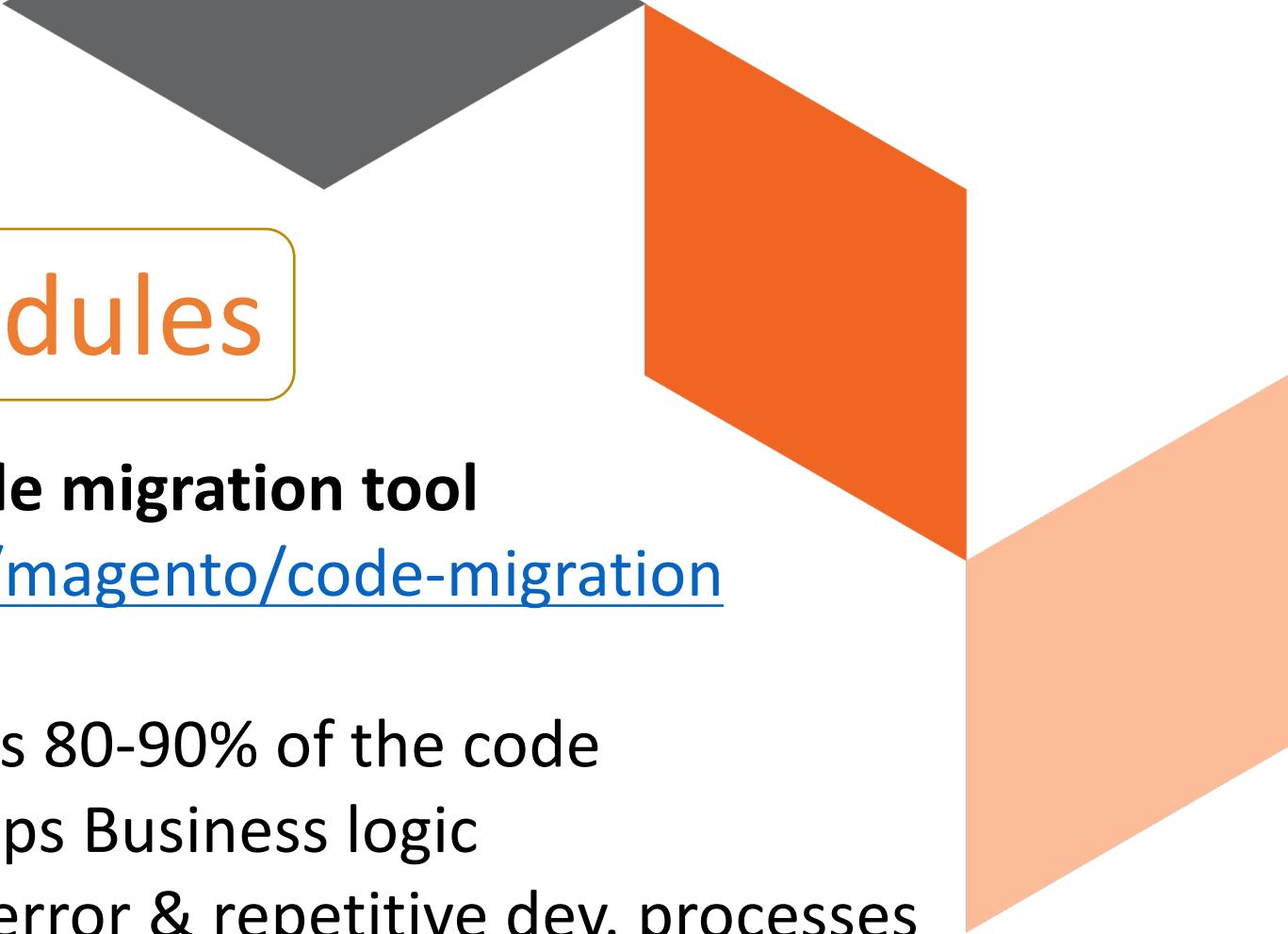


# Strategy

## DevOps

- New Technology Stack
- Deployment process
- Varnish, Redis IO, RabbitMQ,  
SOLR, Elastic Search
- Cloud, Docker, Virtual Hosting
- Continuous Integration:  
Travis, Jenkins, Bamboo





Code

## Custom modules

**Code migration tool**

[github.com/magento/code-migration](https://github.com/magento/code-migration)

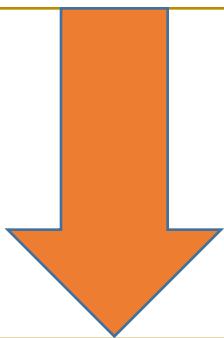
Converts 80-90% of the code

Keeps Business logic

Eliminates human error & repetitive dev. processes

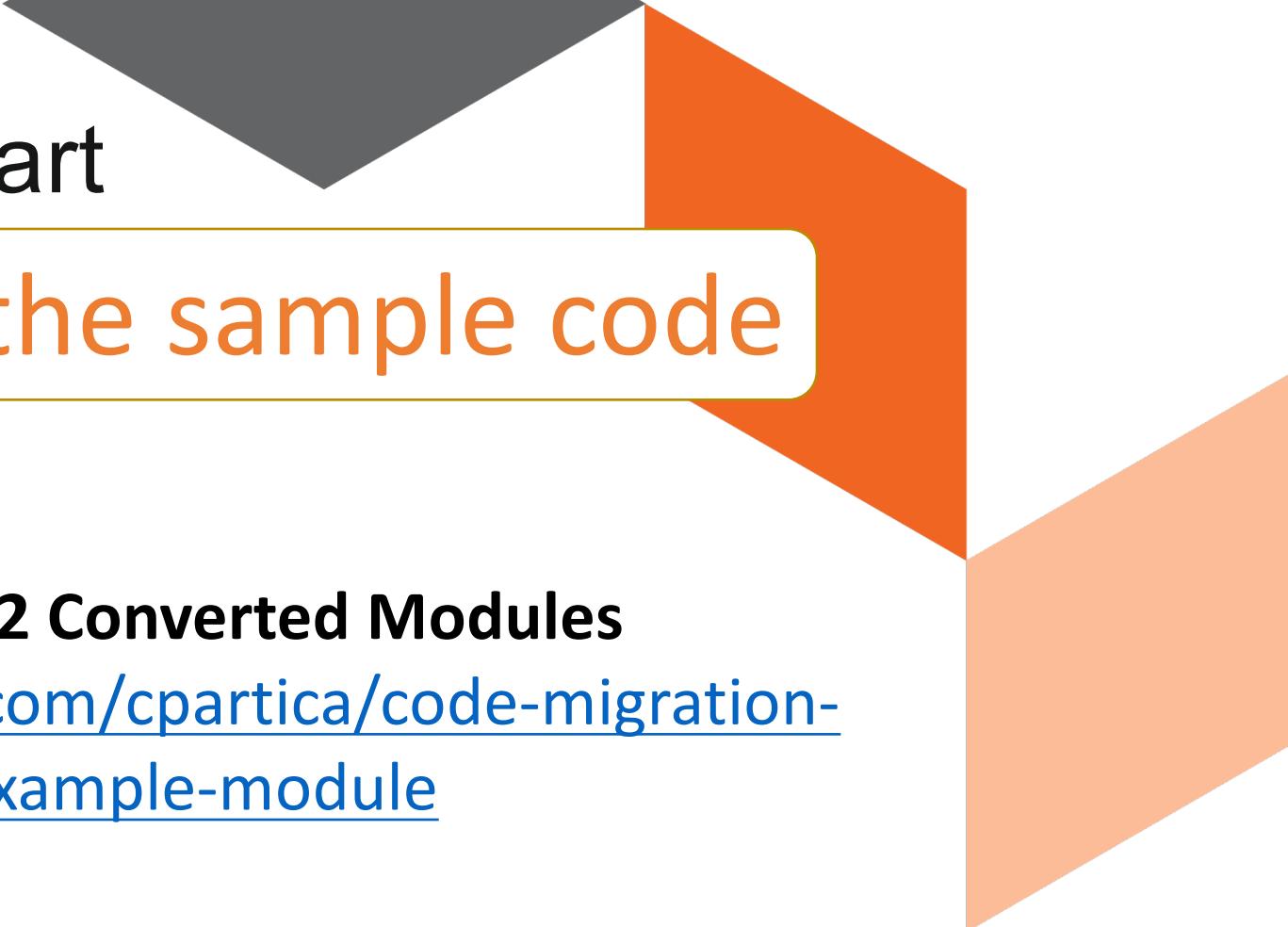
# DEMO

Blog M1 Module



- Convert
- Manual corrections

Blog M2 Module

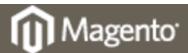


Before you start

Download the sample code

**M1 + M2 Converted Modules**

<https://github.com/cpartica/code-migration-example-module>



This is a demo store. Any orders placed through this store will not be honored or fulfilled.

YOUR LANGUAGE: English

WELCOME

# Magento 1 version of a custom Blog ISLAND

WOMEN

MEN

ACCESSORIES

HOME & DECOR

SALE

VIP

HOME / BLOG

## MY BLOG TITLE

2016-09-03 00:00:00

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing

Posted By John Smith

## LOREM IPSUM HAS BLOG TITLE

2016-09-04 00:00:00

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of

ACCOUNT

CART

Search entire store here...



## RECENTLY VIEWED PRODUCTS



NOLITA CAMI



TORI TANK

## COMPARE PRODUCTS

You have no items to compare.



# Magento 2 version of a custom Blog

## Looks better doesn't it?

Home > Blog

Compare Products

You have no items to compare.

My Wish List

You have no items in your wish list.

### Title

Sep 6, 2016, 1:55:40 PM

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing

Lorem Ipsum passages, and more recently with desktop publishing

Posted By John Doe

### Other Title

Sep 6, 2016, 2:18:01 PM

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galle

Posted By Jane Doe

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```
[~ $ mkdir Migration  
[~ $ cd Migration/  
Migration $ █
```

```
~ $ mkdir Migration/
~ $ cd Migration/
Migration $
Migration $ git clone https://github.com/magento/code-migration
Cloning into 'code-migration'...

remote: Counting objects: 2762, done.
remote: Total 2762 (delta 0), reused 0 (delta 0), pack-reused 2762
Receiving objects: 100% (2762/2762), 1.52 MiB | 773.00 KiB/s, done.
Resolving deltas: 100% (1434/1434), done.
Checking connectivity... done.
Migration $
Migration $
```

🔗 <https://getcomposer.org/download/>

## Download Composer

Run this in your terminal to get the latest Composer version:

```
php -r "copy('https://getcomposer.org/installer', 'composer-setup.php');"  
php -r "if (hash_file('SHA384', 'composer-setup.php') === 'e115a8dc7871f15d853148a7'  
php composer-setup.php  
php -r "unlink('composer-setup.php');"
```

This installer script will simply check some php.ini settings, warn you if they are set incorrectly, and then download the latest composer.phar in the current directory. The 4 lines above will, in order:

- Download the installer to the current directory
- Verify the installer SHA-384 which you can also [cross-check here](#)
- Run the installer
- Remove the installer

**WARNING:** Please do not redistribute the install code. It will change with every version of the installer.  
Instead, please link to this page or check [how to install Composer programmatically](#).

```
Zend Engine v2.6.0, Copyright (c) 1998-2016 Zend Technologies
|code-migration $ 
|code-migration $ php -r "copy('http://getcomposer.org/installer', 'composer-setup.php');"
|code-migration $ 
|code-migration $ php composer-setup.php
All settings correct for using Composer
Downloading 1.2.0...

Composer successfully installed to: /Users/cpartica/Migration/code-migration/composer.phar
Use it: php composer.phar
|code-migration $ 
|code-migration $ php -r "unlink('composer-setup.php');"
|code-migration $ 
code-migration $ com
comm      command      compgen      compile_et      complete      composer.phar      compress
code-migration $ php composer.
composer.json  composer.lock  composer.phar
|code-migration $ php composer.phar install
Loading composer repositories with package information
Installing dependencies (including require-dev) from lock file
- Installing magento/framework (100.0.9)
  Loading from cache

- Installing magento/zendframework1 (1.12.13)
  Loading from cache

- Installing psr/log (1.0.0)
  Loading from cache
```

GNU nano 2.0.6

File: composer.json

```
{  
    "name": "magento/migration",  
    "description": "Tools for migrating Magento 1 extensions to Magento 2",  
    "type": "project",  
    "version": "0.0.1-alpha",  
    "license": [  
        "OSL-3.0",  
        "AFL-3.0"  
    ],  
    "repositories": {  
        "magento": {  
            "type": "composer",  
            "url": "https://repo.magento.com"  
        },  
        "pear": {  
            "type": "pear",  
            "url": "http://pear.php.net"  
        }  
    },  
    "require": {  
        "php": "~5.5.0|~5.6.0|~7.0.0",  
        "symfony/console": "2.7.4",  
        "monolog/monolog": "1.17.1",  
        "zendframework/zend-stdlib": "2.4.0",  
    }  
}
```

[ Read 59 lines ]

**^G** Get Help  
**^X** Exit

**^O** WriteOut  
**^J** Justify

**^R** Read File  
**^W** Where Is

**^Y** Prev Page  
**^V** Next Page

**^K** Cut Text  
**^U** UnCut Text

**^C** Cur Pos  
**^T** To Spell

## Running the Migration

Run all the migration scripts:

1. `php bin/migrate.php migrateModuleStructure <src> <dst>` - Migrate directory structure
2. `php bin/migrate.php convertLayout <dst>` - Migrate layout
3. `php bin/migrate.php convertConfig <dst>` - Migrate config
4. `php bin/migrate.php convertPhpCode <dst> <m1> <m2>` - Migrate PHP code

The migration scripts are to be ran in the specified order as the output from one script may be used as input for another script.

The scripts read the Magento 1.x code from the `<src>` directory, convert it, and write the transformed code to the `<dst>` directory. All converted code is saved to files with a `*.converted` extension. The directories `<m1>` and `<m2>` are used to lookup the context of the code being migrated.

## Understanding Migration Scripts

The toolkit comes with the flexibility to adjust certain migration steps by configuring or skipping execution of respective migration scripts. This section discusses specifics of each of the migration scripts.

### Module Structure Migration Script

This script does not alter contents of any files. Instead, it simply creates the appropriate Magento 2 module directory structure and moves the existing Magento 1.x code there. The output of this script is used as input by other scripts in the toolkit.

### Layout Migration Script

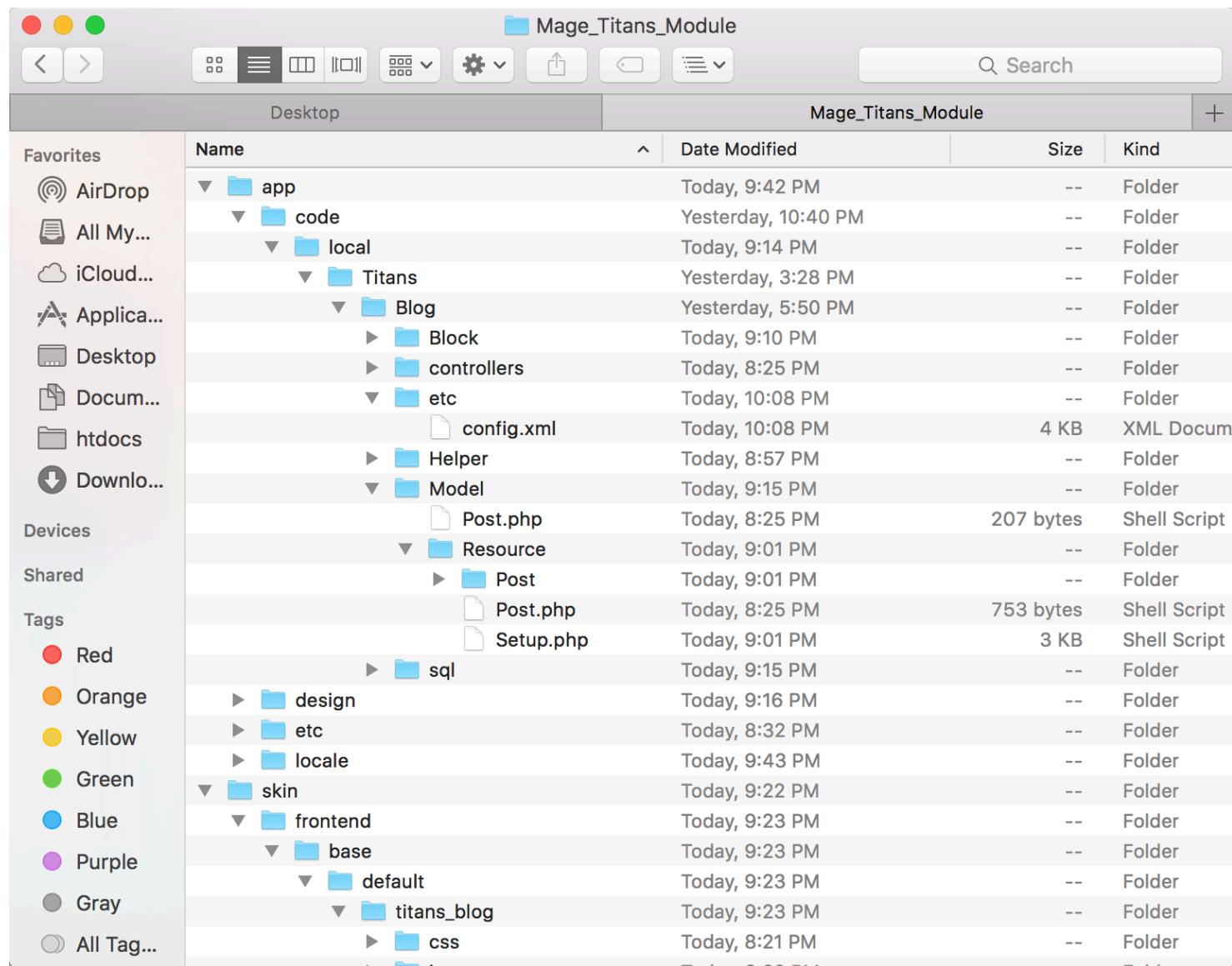
This script splits Magento 1.x layout files into separate XML files for each layout handle and converts their XML format to the one used in Magento 2.

```
[code-migration $ cp -R ../../Downloads/Mage_Titans_Module ./
[code-migration $ ls
CHANGELOG.md          app                  composer.phar        utils
COPYING.txt            bin                  mapping             vendor
Mage_Titans_Module     composer.json       src                 tests
README.md              composer.lock
code-migration $ ]
```

```
[code-migration $ cp -R ../../Downloads/Mage_Titans_Module ./
[code-migration $ ls
CHANGELOG.md          app                  composer.phar        utils
COPYING.txt            bin                  mapping             vendor
Mage_Titans_Module    composer.json       src                tests
README.md              composer.lock
code-migration $ ]
```

```
[code-migration $ cp -R ../../Downloads/Mage_Titans_Module ./
[code-migration $ ls
CHANGELOG.md          app                  composer.phar        utils
COPYING.txt            bin                  mapping             vendor
Mage_Titans_Module    composer.json       src                 src
README.md              composer.lock      tests               tests
code-migration $ ls /opt/local/apache2/htdocs/m1/app/code/local/
.DS_Store  Titans/
[code-migration $ ls /opt/local/apache2/htdocs/m1/app/code/local/Titans/Blog/
Block      Helper      Model      controllers      etc      sql
code-migration $
```

```
[code-migration $ cp -R ../../Downloads/Mage_Titans_Module ./
[code-migration $ ls
CHANGELOG.md          app                  composer.phar        utils
COPYING.txt           bin                  mapping            vendor
Mage_Titans_Module    composer.json       src                src
README.md             composer.lock      tests              tests
code-migration $ ls /opt/local/apache2/htdocs/m1/app/code/local/
.DS_Store  Titans/
[code-migration $ ls /opt/local/apache2/htdocs/m1/app/code/local/Titans/Blog/
Block      Helper      Model      controllers      etc      sql
[code-migration $ mkdir M2_Module
code-migration $
```



# Blog Module Structure In Magento 1

```
[code-migration $ cp -R ../../Downloads/Mage_Titans_Module ./
[code-migration $ ls
CHANGELOG.md          app                  composer.phar        utils
COPYING.txt           bin                  mapping            vendor
Mage_Titans_Module    composer.json       src                src
README.md             composer.lock      tests              tests
code-migration $ ls /opt/local/apache2/htdocs/m1/app/code/local/
.DS_Store  Titans/
[code-migration $ ls /opt/local/apache2/htdocs/m1/app/code/local/Titans/Blog/
Block      Helper      Model      controllers      etc      sql
[code-migration $ mkdir M2_Module
[code-migration $
[code-migration $ php bin/migrate.php migrateModuleStructure Mage_Titans_Module M2_Module
[2016-09-05 04:12:33][INFO]: Starting module structure converter
[2016-09-05 04:12:33][INFO][stage: M1][codePool: local]: Processing M1 codepool
[2016-09-05 04:12:33][INFO][stage: M1][codePool: local][module: Titans_Blog]: Processing Module
[2016-09-05 04:12:33][INFO][stage: M2][codePool: local][module: Titans_Blog]: Converting 17 files found in module
[2016-09-05 04:12:33][INFO][stage: M2][codePool: local][module: Titans_Blog]: Ending module structure converter
code-migration $
```

```
[code-migration $ cp -R ../../Downloads/Mage_Titans_Module ./
[code-migration $ ls
CHANGELOG.md          app                  composer.phar        utils
COPYING.txt           bin                  mapping            vendor
Mage_Titans_Module    composer.json       src                src
README.md             composer.lock      tests              tests
code-migration $ ls /opt/local/apache2/htdocs/m1/app/code/local/
.DS_Store  Titans/
[code-migration $ ls /opt/local/apache2/htdocs/m1/app/code/local/Titans/Blog/
Block      Helper      Model      controllers      etc      sql
[code-migration $ mkdir M2_Module
[code-migration $
[code-migration $ php bin/migrate.php migrateModuleStructure Mage_Titans_Module M2_Module
[2016-09-05 04:12:33][INFO]: Starting module structure converter
[2016-09-05 04:12:33][INFO][stage: M1][codePool: local]: Processing M1 codepool
[2016-09-05 04:12:33][INFO][stage: M1][codePool: local][module: Titans_Blog]: Processing Module
[2016-09-05 04:12:33][INFO][stage: M2][codePool: local][module: Titans_Blog]: Converting 17 files found in module
[2016-09-05 04:12:33][INFO][stage: M2][codePool: local][module: Titans_Blog]: Ending module structure converter
code-migration $
```

Converted Structure			
M1		M2	
Name	Date Modified		Date Modified
app	Today, 11:06 PM	--	Today, 11:18 PM
code	Today, 11:06 PM	--	Today, 11:18 PM
local	Today, 11:06 PM	--	Today, 11:18 PM
Titans	Today, 11:06 PM	--	Today, 11:18 PM
Blog	Today, 11:06 PM	--	Today, 11:12 PM
Block	Today, 11:06 PM	--	Today, 11:12 PM
controllers	Today, 11:06 PM	--	Today, 11:12 PM
etc	Today, 11:06 PM	--	Today, 11:12 PM
config.xml	Today, 11:06 PM	4 KB	3 KB
Helper	Today, 11:06 PM	--	Shell Script
Model	Today, 11:06 PM	--	IndexController.php
Post.php	Today, 11:06 PM	207 bytes	Shell Script
Resource	Today, 11:06 PM	--	Controller
Post	Today, 11:06 PM	--	IndexController.php
Post.php	Today, 11:06 PM	753 bytes	Shell Script
Setup.php	Today, 11:06 PM	3 KB	Post.php
sql	Today, 11:06 PM	--	Post.php
design	Today, 11:06 PM	--	Today, 11:12 PM
frontend	Today, 11:06 PM	--	Today, 11:12 PM
base	Today, 11:06 PM	--	Today, 11:12 PM
default	Today, 11:06 PM	--	Today, 11:12 PM
layout	Today, 11:06 PM	--	Today, 11:12 PM
titans_blog.xml	Today, 11:06 PM	707 bytes	titans_blog.xml
template	Today, 11:06 PM	--	frontend
titans_blog	Today, 11:06 PM	--	layout
blog.phtml	Today, 11:06 PM	973 bytes	titans_blog
post.phtml	Today, 11:06 PM	599 bytes	blog.phtml
etc	Today, 11:06 PM	--	post.phtml
locale	Today, 11:06 PM	--	view
en_US	Today, 11:06 PM	--	frontend
Titans_Blog.csv	Today, 11:06 PM	27 bytes	layout
es_ES	Today, 11:06 PM	--	titans_blog
skin	Today, 11:06 PM	--	blog.phtml
frontend	Today, 11:06 PM	--	post.phtml
base	Today, 11:06 PM	--	titans_blog
default	Today, 11:06 PM	--	css
titans_blog	Today, 11:06 PM	--	style.css
css	Today, 11:06 PM	--	images
style.css	Today, 11:06 PM	355 bytes	dot.jpeg
images	Today, 11:06 PM	--	web
dot.jpeg	Today, 11:06 PM	404 bytes	titans_blog
			css
			style.css
			images
			dot.jpeg

```
[code-migration $ php bin/migrate.php convertLayout M2_Module  
[2016-09-05 04:30:09][INFO]: Starting layout xml converter for M2_Module  
[2016-09-05 04:30:09][INFO]: Created M2 layout file M2_Module/app/code/Titans/Blog/view/frontend/layout/default.xml  
[2016-09-05 04:30:09][INFO]: Created M2 layout file M2_Module/app/code/Titans/Blog/view/frontend/layout/titans_blog_index_index.xml  
[2016-09-05 04:30:10][INFO]: Created M2 layout file M2_Module/app/code/Titans/Blog/view/frontend/layout/titans_blog_index_post.xml  
[2016-09-05 04:30:10][INFO]: Deleted M1 layout file M2_Module/app/code/Titans/Blog/view/frontend/layout/titans_blog.xml  
[2016-09-05 04:30:10][INFO]: Ending layout xml converter  
code-migration $
```

The image shows a file browser on the left and a code editor on the right.

**File Browser (Left):**

- Abstract.php
- Blog.php
- Post.php
- controllers
- etc

  - config.xml

- Helper

  - Data.php

- Model

  - Post.php
  - Resource

    - Post

      - Collection.php
      - Post.php
      - Setup.php

- sql
- titans\_blog\_setup

  - install-1.0.0.0.php

- design

  - frontend

    - base

      - default

        - layout

          - titans\_blog.xml

        - template

          - titans\_blog

            - blog.phtml
            - post.phtml

    - etc
    - locale

      - en\_US

        - Titans\_Blog.csv

      - es\_ES

    - skin

      - frontend

        - base

          - default

            - titans\_blog

              - css
              - style.css

titans\_blog.xml

```
<?xml version="1.0"?>
<layout version="0.1.0">
    <default>
        <reference name="head">
            <action method="addItem">
                <type>skin_css</type>
                <name>titans_blog/css/style.css</name>
            </action>
        </reference>
    </default>
    <titans_blog_index_index>
        <reference name="content">
            <block type="titans_blog/blog" name="blog" template="titans_blog/blog.phtml"/>
        </reference>
    </titans_blog_index_index>

    <titans_blog_index_post>
        <reference name="content">
            <block type="titans_blog/post" name="post" template="titans_blog/post.phtml"/>
        </reference>
    </titans_blog_index_post>
</layout>
```

Combined layout in Magento 1

**Split layout in Magento 2**

```

titans_blog_index_index.xml
<?xml version="1.0"?>
<page xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <body>
        <referenceContainer name="content">
            <block template="Titans_Blog::titans_blog/blog.phtml" class="Titans\Blog\Block\Blog" name="blog"/>
        </referenceContainer>
    </body>
</page>

titans_blog_index_post.xml
<?xml version="1.0"?>
<page xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <body>
        <referenceContainer name="content">
            <block template="Titans_Blog::titans_blog/post.phtml" class="Titans\Blog\Block\Post" name="post"/>
        </referenceContainer>
    </body>
</page>

default.xml
<?xml version="1.0"?>
<page xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
    <head>
        <action method="addItem">
            <argument name="type" xsi:type="string">skin_css</argument>
            <argument name="name" xsi:type="string">titans_blog/css/style.css</argument>
        </action>
    </head>
</page>

```

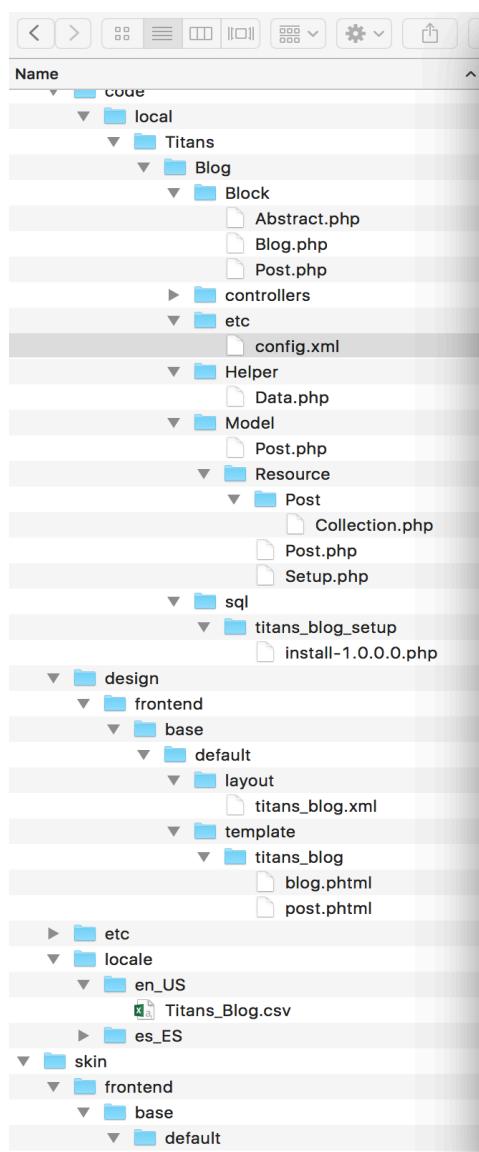
app

- code
- Titans
  - Blog
    - Block
  - Controller
    - IndexController.php
    - IndexController.phpconverted
  - etc
  - Helper
  - i18n
  - Model
    - Post.php
    - Post.phpconverted
  - Resource
    - Post
      - Post.php
      - Post.phpconverted
    - Setup.php
    - Setup.phpconverted
- view
  - frontend
    - layout
      - default.xml
      - titans\_blog\_index\_index.xml
      - titans\_blog\_index\_post.xml
  - templates
    - titans\_blog
      - blog.phtml
      - post.phtml
  - web
    - titans\_blog
      - css
        - style.css
      - images
        - dot.jpeg

```
[code-migration $ php bin/migrate.php convertLayout M2_Module
[2016-09-05 04:30:09][INFO]: Starting layout xml converter for M2_Module
[2016-09-05 04:30:09][INFO]: Created M2 layout file M2_Module/app/code/Titans/Blog/view/frontend/layout/default.xml
[2016-09-05 04:30:09][INFO]: Created M2 layout file M2_Module/app/code/Titans/Blog/view/frontend/layout/titans_blog_index_index.xml
[2016-09-05 04:30:10][INFO]: Created M2 layout file M2_Module/app/code/Titans/Blog/view/frontend/layout/titans_blog_index_post.xml
[2016-09-05 04:30:10][INFO]: Deleted M1 layout file M2_Module/app/code/Titans/Blog/view/frontend/layout/titans_blog.xml
[2016-09-05 04:30:10][INFO]: Ending layout xml converter
[code-migration $
[code-migration $ php bin/migrate.php convertConfig M2_Module
[2016-09-05 04:37:16][INFO]: Starting etc config xml converter for M2_Module
[2016-09-05 04:37:16][INFO]: Created M2 config file M2_Module/app/code/Titans/Blog/etc./module.xml
[2016-09-05 04:37:16][INFO]: Created M2 config file M2_Module/app/code/Titans/Blog/etc./config.xml
[2016-09-05 04:37:16][INFO]: Created M2 config file M2_Module/app/code/Titans/Blog/etc/frontend/routes.xml
[2016-09-05 04:37:16][INFO]: Ending etc config xml converter
code-migration $
```

## Combined config in Magento 2

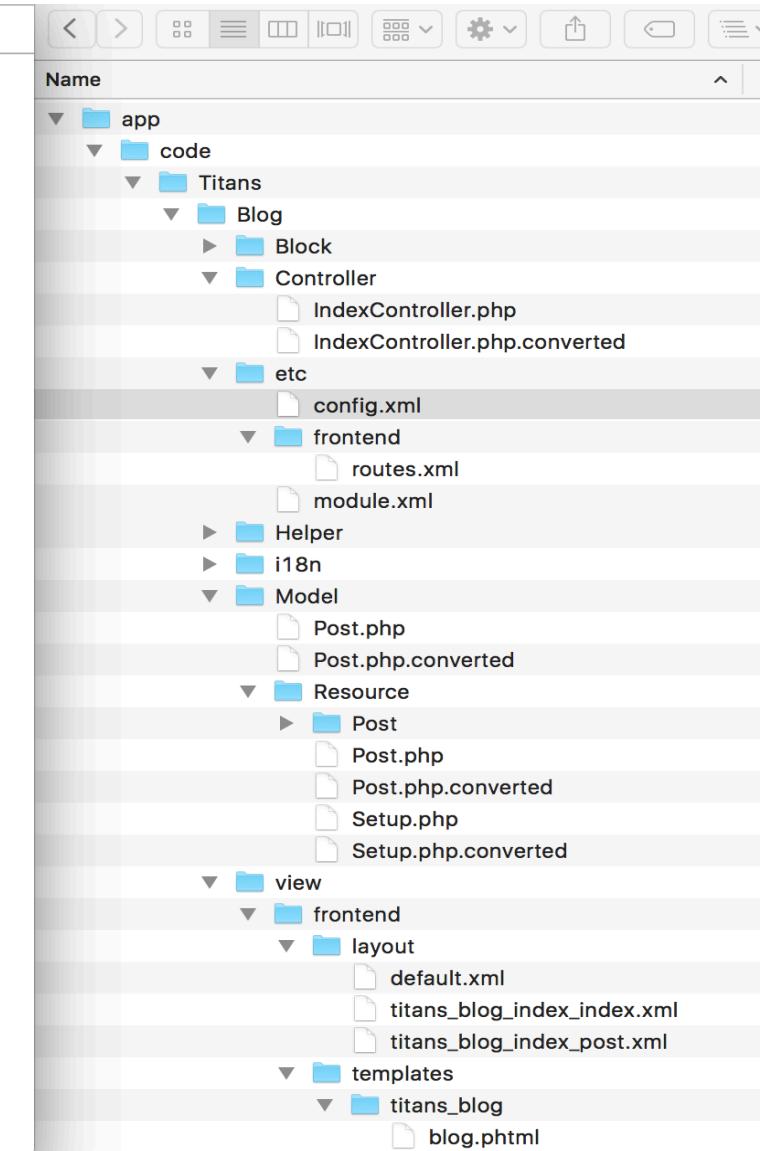
```
</blog_write>
<blog_read>
    <connection>
        <use>core_read</use>
    </connection>
</blog_read>
</resources>
</global>
<frontend>
    <routers>
        <titans_blog>
            <use>standard</use>
            <args>
                <module>Titans_Blog</module>
                <frontName>blog</frontName>
            </args>
        </titans_blog>
    </routers>
    <layout>
        <updates>
            <blog module="Titans_Blog">
                <file>titans_blog.xml</file>
            </blog>
        </updates>
    </layout>
    <translate>
        <modules>
            <Titans_Blog>
                <files>
                    <default>Titans_Blog.csv</default>
                </files>
            </Titans_Blog>
        </modules>
    </translate>
</frontend>
<default>
    <blog>
        <blog>
            <enabled>1</enabled>
```



config.xml <menu>

```
<?xml version="1.0"?>
<config xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="urn:magento:module:
    Magento_Store:etc/config.xsd">
    <default>
        <blog>
            <blog>
                <enabled>1</enabled>
                <title>Blog</title>
                <footerEnabled>1</footerEnabled>
                <layout>page/2columns-right.phtml</layout>
                <blogcrumbs>1</blogcrumbs>
                <useshortcontent>1</useshortcontent>
                <dateformat>2</dateformat>
            </blog>
            <menu>
                <category>1</category>
                <tagcloud_size>10</tagcloud_size>
            </menu>
        </blog>
    </default>
</config>
```

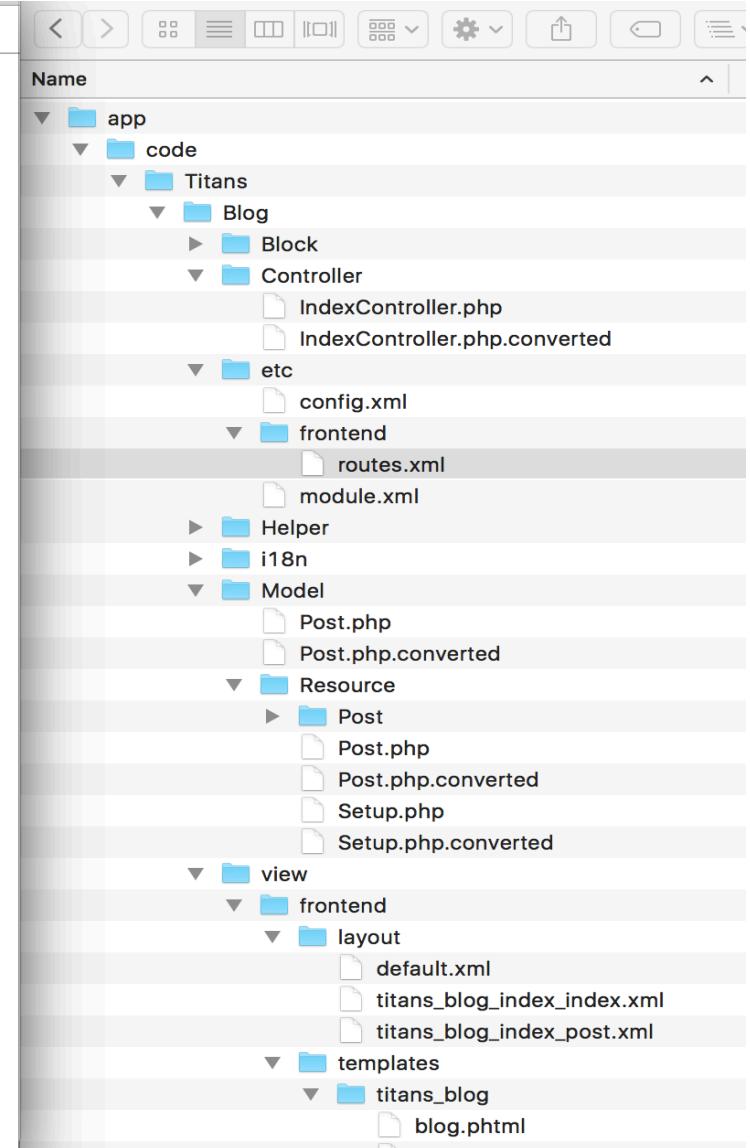
## Split config in Magento 2



routes.xml No Selection

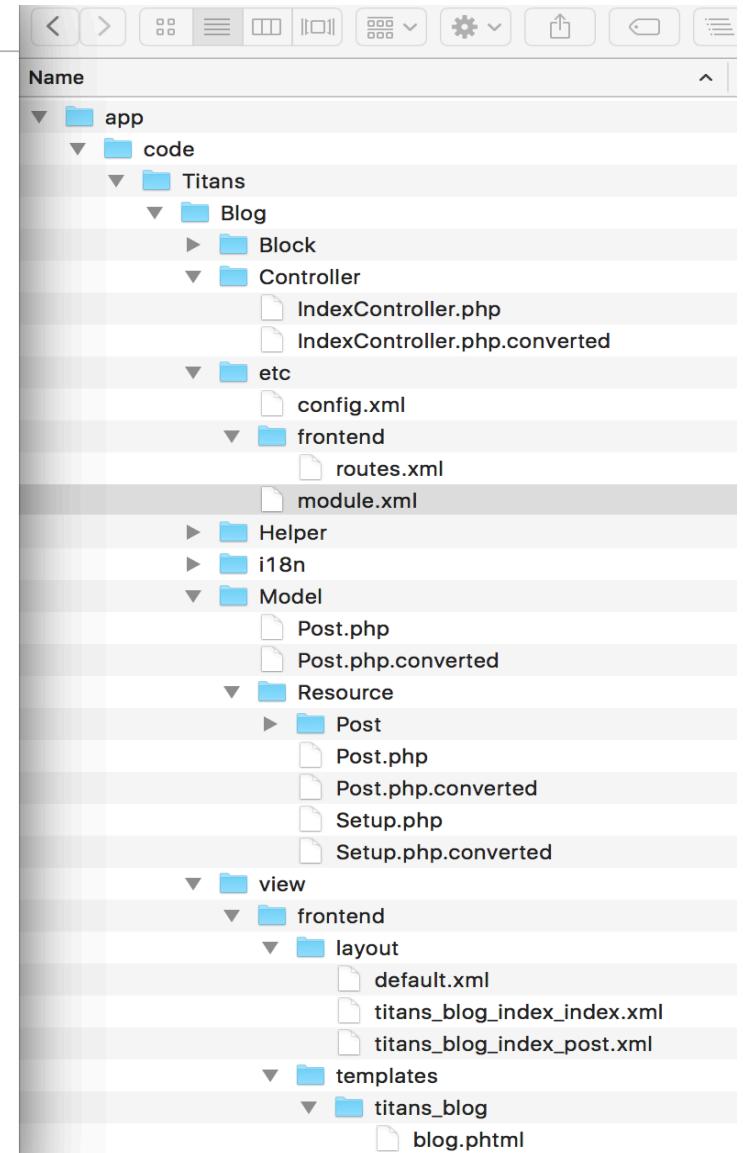
```
<?xml version="1.0"?>
<config xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="urn:magento:framework:App/
    etc/routes.xsd">
    <router id="standard">
        <route id="titans_blog" frontName="blog"/>
    </router>
</config>
```

## Split config in Magento 2

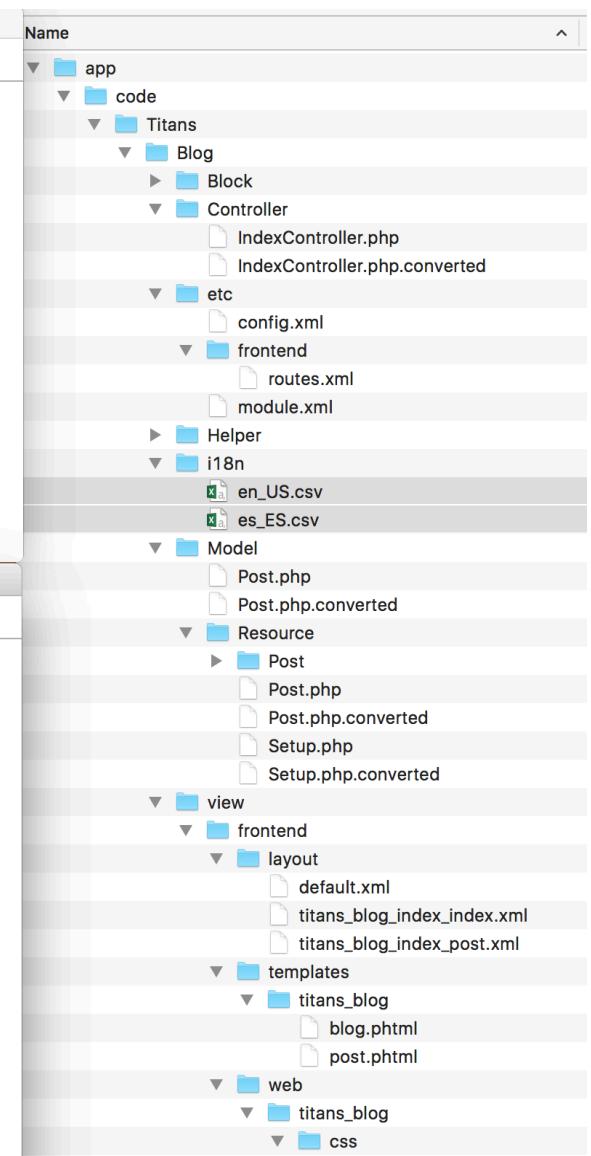
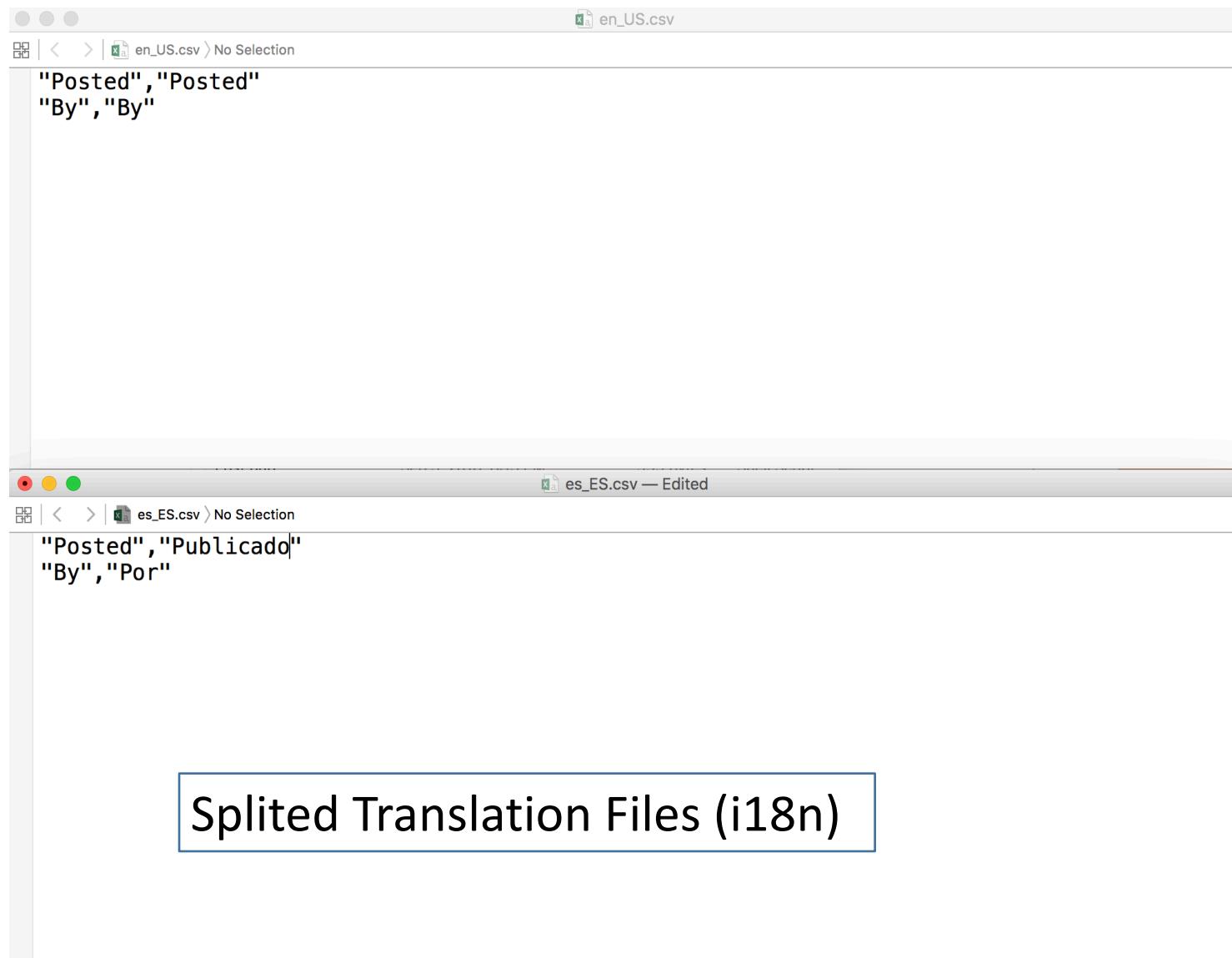


```
<?xml version="1.0"?>
<config xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:noNamespaceSchemaLocation="urn:magento:framework:Module
    /etc/module.xsd">
    <module name="Titans_Blog" setup_version="1.0.0.0">
        <sequence/>
    </module>
</config>
```

## Split config in Magento 2



## Split Translation Files (i18n)



```
|code-migration $  
|code-migration $ php bin/migrate.php convertPhpCode M2_Module /opt/local/apache2/htdocs/m1 /opt/local/apache2/  
htdocs/magento2ce  
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Abstract.php  
[2016-09-05 04:41:36][WARNING]: Variable inside a Mage::helper call not converted: $type  
[2016-09-05 04:41:36][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Abstract.php  
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Blog.php  
[2016-09-05 04:41:36][WARNING]: Failed to load parent class: \Titans\Blog\Block\Abstract  
[2016-09-05 04:41:36][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Blog.php  
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Post.php  
[2016-09-05 04:41:36][WARNING]: Failed to load parent class: \Titans\Blog\Block\Abstract  
[2016-09-05 04:41:36][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Post.php  
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Controller/IndexController.php  
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Controller/IndexController.php  
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Helper/Data.php  
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Helper/Data.php  
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Post.php  
[2016-09-05 04:41:37][WARNING]: Could not map table name titans_blog of type post  
[2016-09-05 04:41:37][WARNING]: Can not map table : 'titans_blog/post'  
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Post.php  
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post.php  
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post.php  
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Setup.php  
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Setup.php  
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post/Collection.php  
[2016-09-05 04:41:37][WARNING]: Could not map table name titans_blog of type post  
[2016-09-05 04:41:37][WARNING]: Can not map table : 'titans_blog/post'  
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post/Collection.php
```

```
htdocs/magento2ce
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Abstract.php
[2016-09-05 04:41:36][WARNING]: Variable inside a Mage::helper call not converted: $type
[2016-09-05 04:41:36][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Abstract.php
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Blog.php
[2016-09-05 04:41:36][WARNING]: Failed to load parent class: \Titans\Blog\Block\Abstract
[2016-09-05 04:41:36][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Blog.php
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Post.php
[2016-09-05 04:41:36][WARNING]: Failed to load parent class: \Titans\Blog\Block\Abstract
[2016-09-05 04:41:36][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Post.php
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Controller/IndexController.php
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Controller/IndexController.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Helper/Data.php
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Helper/Data.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Post.php
[2016-09-05 04:41:37][WARNING]: Could not map table name titans_blog of type post
[2016-09-05 04:41:37][WARNING]: Can not map table : 'titans_blog/post'
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Post.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post.php
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Setup.php
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Setup.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post/Collection.php
[2016-09-05 04:41:37][WARNING]: Could not map table name titans_blog of type post
[2016-09-05 04:41:37][WARNING]: Can not map table : 'titans_blog/post'
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post/Collection.php
code-migration $
```

```
htdocs/magento2ce
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Abstract.php
[2016-09-05 04:41:36][WARNING]: Variable inside a Mage::helper call not converted: $type
[2016-09-05 04:41:36][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Abstract.php
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Blog.php
[2016-09-05 04:41:36][WARNING]: Failed to load parent class: \Titans\Blog\Block\Abstract
[2016-09-05 04:41:36][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Blog.php
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Post.php
[2016-09-05 04:41:36][WARNING]: Failed to load parent class: \Titans\Blog\Block\Abstract
[2016-09-05 04:41:36][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Post.php
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Controller/IndexController.php
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Controller/IndexController.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Helper/Data.php
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Helper/Data.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Post.php
[2016-09-05 04:41:37][WARNING]: Could not map table name titans_blog of type post
[2016-09-05 04:41:37][WARNING]: Can not map table : 'titans_blog/post'
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Post.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post.php
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Setup.php
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Setup.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post/Collection.php
[2016-09-05 04:41:37][WARNING]: Could not map table name titans_blog of type post
[2016-09-05 04:41:37][WARNING]: Can not map table : 'titans_blog/post'
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post/Collection.php
code-migration $
```

```
[code-migration $ php bin/utils.php generateTableNamesMapping /opt/local/apache2/htdocs/m1
[2016-09-06 01:37:40][INFO]: /Users/cpartica/Migration/code-migration/mapping/table_names_mapping.json was generated
[code-migration $ php bin/migrate.php convertPhpCode M2_Module /opt/local/apache2/htdocs/m1 /opt/local/apache2/htdocs/magento2ce
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Abstract.php
[2016-09-06 01:38:13][WARNING]: Variable inside a Mage::helper call not converted: $type
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Abstract.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Blog.php
[2016-09-06 01:38:13][WARNING]: Failed to load parent class: \Titans\Blog\Block\Abstract
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Blog.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Post.php
[2016-09-06 01:38:13][WARNING]: Failed to load parent class: \Titans\Blog\Block\Abstract
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Post.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Controller/IndexController.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Controller/IndexController.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Helper/Data.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Helper/Data.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Post.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Post.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Setup.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Setup.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post/Collection.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post/Collection.php
code-migration $
```

```
[code-migration $ php bin/utils.php generateTableNamesMapping /opt/local/apache2/htdocs/m1
[2016-09-06 01:37:40][INFO]: /Users/cpartica/Migration/code-migration/mapping/table_names_mapping.json was generated
[code-migration $ php bin/migrate.php convertPhpCode M2_Module /opt/local/apache2/htdocs/m1 /opt/local/apache2/htdocs/magento2ce
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Abstract.php
[2016-09-06 01:38:13][WARNING]: Variable inside a Mage::helper call not converted: $type
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Abstract.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Blog.php
[2016-09-06 01:38:13][WARNING]: Failed to load parent class: \Titans\Blog\Block\Abstract
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Blog.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Post.php
[2016-09-06 01:38:13][WARNING]: Failed to load parent class: \Titans\Blog\Block\Abstract
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Post.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Controller/IndexController.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Controller/IndexController.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Helper/Data.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Helper/Data.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Post.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Post.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Setup.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Setup.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post/Collection.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post/Collection.php
code-migration $
```

Staged files

# Mappings used by the conversion tool

 Unstaged files

-  mapping/aliases.json ...
-  mapping/class\_dependency.json ...
-  mapping/class\_dependency\_aggregated.json ...
-  mapping/class\_mapping.json ...
-  mapping/module\_mapping.json ...
-  mapping/references.xml ...
-  mapping/table\_names\_mapping.json ...
-  mapping/unmapped\_classes.json ...
-  mapping/view\_mapping\_adminhtml.json ...
-  mapping/view\_mapping\_frontend.json ...

 mapping/table\_names\_mapping.json

## Hunk 1 : Lines 1-13

```
1   1   {
2   2   +   "titans_blog": {
3   3   +       "post_entity": "titans_blog_post_entity",
4   4   +       "post_entity_datetime": "titans_blog_post_entity_datetime",
5   5   +       "post_entity_decimal": "titans_blog_post_entity_decimal",
6   6   +       "post_entity_int": "titans_blog_post_entity_int",
7   7   +       "post_entity_text": "titans_blog_post_entity_text",
8   8   +       "post_entity_varchar": "titans_blog_post_entity_varchar",
9   9   +       "post_entity_char": "titans_blog_post_entity_char"
10 10  },
11 11  "xmlconnect": {
12 12     "application": "xmlconnect_application",
13 13     "history": "xmlconnect_history",
```

## Hunk 2 : Lines 175-180

```
166 175  "paygate": {
167 176     "authorizenet_debug": "paygate_authorizenet_debug"
168 177  },
169 178  - "ogone": {
170 179  -     "api_debug": "ogone_api_debug"
171 180  - },
172 178  "oauth": {
173 179     "consumer": "oauth_consumer",
174 180     "token": "oauth_token",
```

## Hunk 3 : Lines 438-442

```
432 438  "role": "admin_role",
433 439  "rule": "admin_rule",
434 440  "assert": "admin_assert"
435 441  },
436 442  - "enterprise_urlrewrite": {
437 443  -     "url_rewrite": "enterprise_url_rewrite",
438 444  -     "redirect": "enterprise_url_rewrite_redirect",
439 445  -     "redirect_rewrite": "enterprise_url_rewrite_redirect_rewrite"
440 446  - },
441 447  - "enterprise_targetrule": {
442 448  -     "rule": "enterprise_targetrule",
443 449  -     "customersegment": "enterprise_targetrule_customersegment",
```

Stage hunkDiscard hunkStage hunkDiscard hunkStage hunkDiscard hunk

```

        $data
    );

    $resource = $this->resourceConnection
        ;
    $this->setType('titans_blog_post');
    $this->setConnection(
        $resource->getConnection
            ('blog_read'),
        $resource->getConnection
            ('blog_write')
    );
    $this->postTable = $this->getTable
        ('titans_blog/post');
}



### Before custom table mapping


/*
 * Set default attributes
 */
protected function _getDefaultAttributes
()
{
    return array(
        'entity_type_id',
        'attribute_set_id'
}

```

		Date Modified	Size	Kind
Abstract.php.converted		Today, 8:44 PM	4 KB	Docum
Blog.php		Yesterday, 11:12 PM	385 bytes	Shell S
Blog.php.converted		Today, 8:44 PM	398 bytes	Docum
Post.php		Yesterday, 11:12 PM	2 KB	Shell S
Post.php.converted		Today, 8:44 PM	2 KB	Docum
Controller		Today, 7:56 AM	--	Folder
IndexController.php		Yesterday, 11:12 PM	1 KB	Shell S
IndexController.php.converted		Today, 8:44 PM	3 KB	Docum
etc		Yesterday, 11:37 PM	--	Folder
config.xml		Yesterday, 11:37 PM	726 bytes	XML Di
frontend		Yesterday, 11:37 PM	--	Folder
routes.xml		Yesterday, 11:37 PM	260 bytes	XML Di
module.xml		Yesterday, 11:37 PM	261 bytes	XML Di
Helper		Yesterday, 11:41 PM	--	Folder
i18n		Yesterday, 11:12 PM	--	Folder
en_US.csv		Yesterday, 11:12 PM	27 bytes	Comm.
es_ES.csv		Yesterday, 11:12 PM	29 bytes	Comm.
Model		Today, 8:18 PM	--	Folder
Post.php		Yesterday, 11:12 PM	207 bytes	Shell S
Post.php.converted		Today, 8:44 PM	742 bytes	Docum
Resource		Today, 8:44 PM	--	Folder
Post		Today, 8:18 PM	--	Folder
Collection.php		Yesterday, 11:12 PM	244 bytes	Shell S
Collection.php.converted		Today, 8:44 PM	1 KB	Docum
Post.php		Today, 8:43 PM	992 bytes	Shell S
Post.php.converted.php		Today, 8:44 PM	1 KB	Shell S
Setup.php		Today, 8:01 PM	3 KB	Shell S
Setup.php.converted		Today, 8:44 PM	4 KB	Docum
view		Yesterday, 11:18 PM	--	Folder
frontend		Yesterday, 11:18 PM	--	Folder
layout		Yesterday, 11:30 PM	--	Folder
default.xml		Yesterday, 11:30 PM	327 bytes	XML Di
titans_blog_index_index.xml		Yesterday, 11:30 PM	299 bytes	XML Di
titans_blog_index_post.xml		Yesterday, 11:30 PM	299 bytes	XML Di
templates		Yesterday, 11:18 PM	--	Folder
titans_blog		Yesterday, 11:12 PM	973 bytes	Shell S
blog.phtml		Yesterday, 11:12 PM	599 bytes	Shell S
post.phtml		Yesterday, 11:12 PM	--	Folder
web		Yesterday, 11:19 PM	--	Folder
titans_blog		Yesterday, 11:19 PM	--	Folder
css		Yesterday, 11:12 PM	--	Folder

```

        $data
    );

$resource = $this->resourceConnection
    ;
$this->setType('titans_blog_post');
$this->setConnection(
    $resource->getConnection
        ('blog_read'),
    $resource->getConnection
        ('blog_write')
);
$this->postTable = $this->getTable
    ('titans_blog_post_entity');
}

/* Before custom table mapping
 * Set default attributes
 */
protected function _getDefaultAttributes()
{
    return array(
        'entity_type_id',
        'attribute_set_id',

```

	Date Modified	Size	Kind
Abstract.php.converted	Today, 8:49 PM	4 KB	Document
Blog.php	Yesterday, 11:12 PM	385 bytes	Shell Script
Blog.php.converted	Today, 8:49 PM	398 bytes	Document
Post.php	Yesterday, 11:12 PM	2 KB	Shell Script
Post.php.converted	Today, 8:49 PM	2 KB	Document
Controller	Today, 7:56 AM	--	Folder
IndexController.php	Yesterday, 11:12 PM	1 KB	Shell Script
IndexController.php.converted	Today, 8:49 PM	3 KB	Document
etc	Yesterday, 11:37 PM	--	Folder
config.xml	Yesterday, 11:37 PM	726 bytes	XML Document
frontend	Yesterday, 11:37 PM	--	Folder
routes.xml	Yesterday, 11:37 PM	260 bytes	XML Document
module.xml	Yesterday, 11:37 PM	261 bytes	XML Document
Helper	Yesterday, 11:41 PM	--	Folder
i18n	Yesterday, 11:12 PM	--	Folder
en_US.csv	Yesterday, 11:12 PM	27 bytes	Community Content
es_ES.csv	Yesterday, 11:12 PM	29 bytes	Community Content
Model	Today, 8:18 PM	--	Folder
Post.php	Yesterday, 11:12 PM	207 bytes	Shell Script
Post.php.converted	Today, 8:49 PM	742 bytes	Document
Resource	Today, 8:49 PM	--	Folder
Post	Today, 8:18 PM	--	Folder
Collection.php	Yesterday, 11:12 PM	244 bytes	Shell Script
Collection.php.converted	Today, 8:49 PM	1 KB	Document
Post.php	Today, 8:43 PM	992 bytes	Shell Script
Post.php.converted.php	Today, 8:49 PM	1 KB	Shell Script
Setup.php	Today, 8:01 PM	3 KB	Shell Script
Setup.php.converted	Today, 8:49 PM	4 KB	Document
view	Yesterday, 11:18 PM	--	Folder
frontend	Yesterday, 11:18 PM	--	Folder
layout	Yesterday, 11:30 PM	--	Folder
default.xml	Yesterday, 11:30 PM	327 bytes	XML Document
titans_blog_index_index.xml	Yesterday, 11:30 PM	299 bytes	XML Document
titans_blog_index_post.xml	Yesterday, 11:30 PM	299 bytes	XML Document
templates	Yesterday, 11:18 PM	--	Folder
titans_blog	Yesterday, 11:12 PM	--	Folder
blog.phtml	Yesterday, 11:12 PM	973 bytes	Shell Script
post.phtml	Yesterday, 11:12 PM	599 bytes	Shell Script
web	Yesterday, 11:19 PM	--	Folder
titans_blog	Yesterday, 11:19 PM	--	Folder
css	Yesterday, 11:12 PM	--	Folder
style.css	Yesterday, 11:12 PM	355 bytes	CSS style sheet

```
htdocs/magento2ce
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Abstract.php
[2016-09-05 04:41:36][WARNING]: Variable inside a Mage::helper call not converted: $type
[2016-09-05 04:41:36][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Abstract.php
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Blog.php
[2016-09-05 04:41:36][WARNING]: Failed to load parent class: \Titans\Blog\Block\Abstract
[2016-09-05 04:41:36][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Blog.php
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Post.php
[2016-09-05 04:41:36][WARNING]: Failed to load parent class: \Titans\Blog\Block\Abstract
[2016-09-05 04:41:36][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Post.php
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Controller/IndexController.php
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Controller/IndexController.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Helper/Data.php
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Helper/Data.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Post.php
[2016-09-05 04:41:37][WARNING]: Could not map table name titans_blog of type post
[2016-09-05 04:41:37][WARNING]: Can not map table : 'titans_blog/post'
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Post.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post.php
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Setup.php
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Setup.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post/Collection.php
[2016-09-05 04:41:37][WARNING]: Could not map table name titans_blog of type post
[2016-09-05 04:41:37][WARNING]: Can not map table : 'titans_blog/post'
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post/Collection.php
code-migration $
```

```
BlockAbstract.php > No Selection
```

```
        return false;
    }

    public function getBlogUrl($route =
        null, $param = 'post_id')
    {
        $blogRoute = self::$_helper->
            getRoute();
        $postRoute =
            Titans_Blog_Helper_Data:::
            POST_URI_PARAM;
        $blogRoute .= "/index/
            {$postRoute}/{$param}/
            {$route}";
        return $this->getUrl($blogRoute
            );
    }

    protected function _helper($type =
        'titans_blog/data')
    {
        return Mage::helper($type);
    }
}
```

Name	Date Modified	Size	Kind
app	Sep 4, 2016, 11:18 PM	--	Folder
code	Sep 4, 2016, 11:18 PM	--	Folder
Titans	Sep 4, 2016, 11:18 PM	--	Folder
Blog	Sep 4, 2016, 11:18 PM	--	Folder
Block	Today, 7:53 AM	--	Folder
BlockAbstract.php	Today, 7:53 AM	3 KB	Shell Sc
BlockAbstract.php.converted	Today, 7:53 AM	4 KB	Docume
Blog.php	Yesterday, 9:28 PM	390 bytes	Shell Sc
Blog.php.converted	Today, 7:53 AM	403 bytes	Docume
Post.php	Yesterday, 9:31 PM	2 KB	Shell Sc
Post.php.converted	Today, 7:53 AM	2 KB	Docume
Controller	Yesterday, 7:56 AM	--	Folder
etc	Sep 4, 2016, 11:37 PM	--	Folder
Helper	Sep 4, 2016, 11:41 PM	--	Folder
i18n	Sep 4, 2016, 11:12 PM	--	Folder
Model	Yesterday, 8:18 PM	--	Folder
view	Sep 4, 2016, 11:18 PM	--	Folder

Can't evaluate \$type as parameter

```

        return false;
    }

    public function getBlogUrl($route =
        null, $param = 'post_id')
    {
        $blogRoute = self::$_helper->
            getRoute();
        $postRoute =
            Titans_Blog_Helper_Data:::
            POST_URI_PARAM;
        $blogRoute .= "/index/
            {$postRoute}/{$param}/
            {$route}";
        return $this->getUrl($blogRoute
        );
    }

    protected function _helper($type)
    {
        return Mage::helper
            ('titans_blog/data');
    }
}

```

Name	Date Modified	Size	Kind
app	Sep 4, 2016, 11:18 PM	--	Folder
code	Sep 4, 2016, 11:18 PM	--	Folder
Titans	Sep 4, 2016, 11:18 PM	--	Folder
Blog	Sep 4, 2016, 11:18 PM	--	Folder
Block	Today, 7:53 AM	--	Folder
BlockAbstract.php	Today, 7:53 AM	3 KB	Shell Sci
BlockAbstract.php.converted	Today, 7:53 AM	4 KB	Docume
Blog.php	Yesterday, 9:28 PM	390 bytes	Shell Sci
Blog.php.converted	Today, 7:53 AM	403 bytes	Docume
Post.php	Yesterday, 9:31 PM	2 KB	Shell Sci
Post.php.converted	Today, 7:53 AM	2 KB	Docume
Controller	Yesterday, 7:56 AM	--	Folder
etc	Sep 4, 2016, 11:37 PM	--	Folder
Helper	Sep 4, 2016, 11:41 PM	--	Folder
i18n	Sep 4, 2016, 11:12 PM	--	Folder

Replace before conversion the static calls in M1 code with string value

**Mage::getSingleton ()**  
**Mage::getModel()**  
**Mage::getTable ()**  
**Mage::helper ()**  
**->\_init()**

```
code-migration $ php bin/utils.php generateTableNamesMapping /opt/local/apache2/htdocs/m1
[2016-09-06 01:37:40][INFO]: /Users/cpartica/Migration/code-migration/mapping/table_names_mapping.json was generated
code-migration $ php bin/migrate.php convertPhpCode M2_Module /opt/local/apache2/htdocs/m1 /opt/local/apache2/htdocs/magento2ce
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Abstract.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Abstract.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Blog.php
[2016-09-06 01:38:13][WARNING]: Failed to load parent class: \Titans\Blog\Block\Abstract
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Blog.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Post.php
[2016-09-06 01:38:13][WARNING]: Failed to load parent class: \Titans\Blog\Block\Abstract
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Post.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Controller/IndexController.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Controller/IndexController.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Helper/Data.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Helper/Data.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Post.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Post.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Setup.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Setup.php
[2016-09-06 01:38:13][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post/Collection.php
[2016-09-06 01:38:13][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post/Collection.php
code-migration $
```

```
htdocs/magento2ce
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Abstract.php
[2016-09-05 04:41:36][WARNING]: Variable inside a Mage::helper call not converted: $type
[2016-09-05 04:41:36][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Abstract.php
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Blog.php
[2016-09-05 04:41:36][WARNING]: Failed to load parent class: \Titans\Blog\Block\Abstract
[2016-09-05 04:41:36][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Blog.php
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Post.php
[2016-09-05 04:41:36][WARNING]: Failed to load parent class: \Titans\Blog\Block\Abstract
[2016-09-05 04:41:36][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Post.php
[2016-09-05 04:41:36][INFO]: Processing file M2_Module/app/code/Titans/Blog/Controller/IndexController.php
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Controller/IndexController.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Helper/Data.php
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Helper/Data.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Post.php
[2016-09-05 04:41:37][WARNING]: Could not map table name titans_blog of type post
[2016-09-05 04:41:37][WARNING]: Can not map table : 'titans_blog/post'
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Post.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post.php
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Setup.php
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Setup.php
[2016-09-05 04:41:37][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post/Collection.php
[2016-09-05 04:41:37][WARNING]: Could not map table name titans_blog of type post
[2016-09-05 04:41:37][WARNING]: Can not map table : 'titans_blog/post'
[2016-09-05 04:41:37][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post/Collection.php
code-migration $
```

app		Sep 4, 2016, 11:06 PM	--	Folder
code		Sep 4, 2016, 11:06 PM	--	Folder
local		Sep 4, 2016, 11:06 PM	--	Folder
Titans		Sep 4, 2016, 11:06 PM	--	Folder
Blog		Sep 4, 2016, 11:06 PM	--	Folder
Block		Yesterday, 8:01 AM	--	Folder
Abstract.php		Yesterday, 8:01 AM	3 KB	Shell Script
Blog.php		Sep 4, 2016, 11:06 PM	385 bytes	Shell Script
Post.php		Sep 4, 2016, 11:06 PM	2 KB	Shell Script
controllers		Sep 4, 2016, 11:06 PM	--	Folder
etc		Yesterday, 2:10 PM	--	Folder
config.xml		Yesterday, 2:10 PM	4 KB	XML Document
Helper		Sep 4, 2016, 11:06 PM	--	Folder
Model		Sep 4, 2016, 11:06 PM	--	Folder
Post.php		Sep 4, 2016, 11:06 PM	207 bytes	Shell Script
Resource		Sep 5, 2016, 8:16 PM	--	Folder
Post		Sep 4, 2016, 11:06 PM	--	Folder
Post.php		Sep 5, 2016, 8:13 PM	999 bytes	Shell Script
Setup.php		Sep 5, 2016, 8:01 PM	3 KB	Shell Script
sql		Sep 4, 2016, 11:06 PM	--	Folder
titans_blog_setup		Yesterday, 7:00 PM	--	Folder
install-1.0.0.0.php		Yesterday, 7:00 PM	17 KB	Shell Script
design		Sep 4, 2016, 11:06 PM	--	Folder
frontend		Sep 4, 2016, 11:06 PM	--	Folder
base		Sep 4, 2016, 11:06 PM	--	Folder
default		Sep 4, 2016, 11:06 PM	--	Folder
layout		Sep 4, 2016, 11:06 PM	--	Folder
titans_blog.xml		Sep 4, 2016, 11:06 PM	707 bytes	XML Document
template		Sep 4, 2016, 11:06 PM	--	Folder
titans_blog		Sep 4, 2016, 11:06 PM	--	Folder
blog.phtml		Sep 4, 2016, 11:06 PM	973 bytes	Shell Script
post.phtml		Sep 4, 2016, 11:06 PM	599 bytes	Shell Script
etc		Sep 4, 2016, 11:06 PM	--	Folder
locale		Sep 4, 2016, 11:06 PM	--	Folder
en_US		Sep 4, 2016, 11:06 PM	--	Folder
Titans_Blog.csv		Sep 4, 2016, 11:06 PM	27 bytes	Comm...t (.csv)
es_ES		Sep 4, 2016, 11:06 PM	--	Folder
skin		Sep 4, 2016, 11:06 PM	--	Folder
frontend		Sep 4, 2016, 11:06 PM	--	Folder
base		Sep 4, 2016, 11:06 PM	--	Folder
default		Sep 4, 2016, 11:06 PM	--	Folder
titans_blog		Sep 4, 2016, 11:06 PM	--	Folder

app		Sep 4, 2016, 11:18 PM	--	Folder
code		Sep 4, 2016, 11:18 PM	--	Folder
Titans		Sep 4, 2016, 11:18 PM	--	Folder
Blog		Sep 4, 2016, 11:18 PM	--	Folder
Block		Today, 7:54 PM	--	Folder
Abstract.php		Yesterday, 7:56 AM	3 KB	Shell Scr
Abstract.php.converted		Today, 7:54 PM	4 KB	Shell Scr
Blog.php		Sep 5, 2016, 9:28 PM	390 bytes	Shell Scr
Blog.php.converted		Yesterday, 5:31 PM	1 KB	Docume
Post.php		Sep 5, 2016, 9:31 PM	2 KB	Shell Scr
Post.php.converted		Yesterday, 5:31 PM	3 KB	Docume
Controller		Sep 5, 2016, 7:56 AM	--	Folder
IndexController.php		Sep 4, 2016, 11:12 PM	1 KB	Shell Scr
IndexController.php.converted		Yesterday, 5:31 PM	3 KB	Docume
etc		Sep 5, 2016, 8:16 PM	--	Folder
config.xml		Yesterday, 2:10 PM	722 bytes	XML Doc
frontend		Sep 4, 2016, 11:37 PM	--	Folder
routes.xml		Sep 4, 2016, 11:37 PM	260 bytes	XML Doc
module.xml		Sep 4, 2016, 11:37 PM	261 bytes	XML Doc
Helper		Sep 4, 2016, 11:41 PM	--	Folder
Data.php		Sep 4, 2016, 11:12 PM	2 KB	Shell Scr
Data.php.converted		Yesterday, 5:31 PM	3 KB	Docume
i18n		Sep 4, 2016, 11:12 PM	--	Folder
en_US.csv		Sep 4, 2016, 11:12 PM	27 bytes	Comm...t
es_ES.csv		Sep 4, 2016, 11:12 PM	29 bytes	Comm...t
Model		Sep 5, 2016, 8:18 PM	--	Folder
Post.php		Sep 4, 2016, 11:12 PM	207 bytes	Shell Scr
Post.php.converted		Yesterday, 5:31 PM	742 bytes	Docume
Resource		Sep 5, 2016, 8:53 PM	--	Folder
Post		Sep 5, 2016, 8:53 PM	--	Folder
Collection.php		Sep 4, 2016, 11:12 PM	244 bytes	Shell Scr
Collection.php.converted		Yesterday, 5:31 PM	1 KB	Docume
Post.php		Sep 5, 2016, 8:43 PM	992 bytes	Shell Scr
Post.php.converted		Yesterday, 5:31 PM	1 KB	Docume
Setup.php		Sep 5, 2016, 8:01 PM	3 KB	Shell Scr
Setup.php.converted		Yesterday, 5:31 PM	4 KB	Docume
view		Sep 4, 2016, 11:18 PM	--	Folder
frontend		Sep 4, 2016, 11:18 PM	--	Folder
layout		Sep 4, 2016, 11:30 PM	--	Folder
templates		Sep 4, 2016, 11:18 PM	--	Folder
web		Sep 4, 2016, 11:19 PM	--	Folder
titans_blog		Sep 4, 2016, 11:19 PM	--	Folder

Abstract.php > No Selection

```
<?php
abstract class Titans_Blog_Block_BlockAbstract extends Mage_Core_Block_Template
{
    protected static $_helper;
    protected static $_collection;
    protected function _construct()
    {
        if (!self::$_helper) {
            self::$_helper = Mage::helper('titans_blog/data');
        }
        if (!self::$_collection) {
            self::$_collection = $this->_prepareCollection();
        }
    }

    protected function _prepareCollection()
    {
        if (!$this->getData('cached_collection')) {

            $collection = Mage::getModel('titans_blog/post')->getCollection()
                ->addAttributeToSelect('title')
                ->addAttributeToSelect('author')
                ->addAttributeToSelect('content')
                ->setOrder('created_at', 'asc');

            $this->setData('cached_collection', $collection);
        }
        return $this->getData('cached_collection');
    }

    public function isBlogPage()
    {
        return Mage::app()->getRequest()->getModuleName() == Titans_Blog_Helper_Data::DEFAULT_ROOT;
    }

    public function getPosts()
    {
        $collection = $this->_prepareCollection();
        $this->_processCollection($collection);
        return $collection;
    }

    protected function _processCollection($collection)
    {
        foreach ($collection as $item) {
            $this->_prepareData($item)->_prepareDates($item);
            $item->setAddress($this->getBlogUrl($item->getEntityId()));
        }
        $collection->load();
    }

    protected function _prepareData($item)
    {
        $item->setTitle(htmlspecialchars($item->getTitle()));
        $item->setShortContent(trim($item->getContent()));

        return $this;
    }

    protected function _prepareDates($item)
```

Abstract.php.converted.php > No Selection

```
<?php
namespace Titans\Blog\Block;

abstract class Abstract extends \Magento\Framework\View\Element\Template
{
    protected static $_helper;
    protected static $_collection;
    /**
     * @var \Titans\Blog\Helper\Data
     */
    protected $blogHelper;

    /**
     * @var \Titans\Blog\Model\Resource\Post\CollectionFactory
     */
    protected $blogResourcePostCollectionFactory;

    /**
     * @var \Magento\Framework\App\Request\Http
     */
    protected $request;

    public function __construct(
        \Magento\Framework\View\Element\Template\Context $context,
        \Titans\Blog\Helper\Data $blogHelper,
        \Titans\Blog\Model\Resource\Post\CollectionFactory $blogResourcePostCollectionFactory,
        \Magento\Framework\App\Request\Http $request,
        array $data = []
    ) {
        $this->blogHelper = $blogHelper;
        $this->blogResourcePostCollectionFactory = $blogResourcePostCollectionFactory;
        $this->request = $request;
        parent::__construct(
            $context,
            $data
        );
    }

    protected function _construct()
    {
        if (!self::$_helper) {
            self::$_helper = $this->blogHelper;
        }
        if (!self::$_collection) {
            self::$_collection = $this->_prepareCollection();
        }
    }

    protected function _prepareCollection()
    {
        if (!$this->getData('cached_collection')) {

            $collection = $this->blogResourcePostCollectionFactory->create()->addAttributeToSelect('title')
                ->addAttributeToSelect('author')
                ->addAttributeToSelect('content')
                ->setOrder('created_at', 'asc');

            $this->setData('cached_collection', $collection);
        }
    }
```

```
\Titans\Blog\Block\
```

```
<?php
namespace Titans\Blog\Block;

abstract class Abstract extends \Magento\Framework\View\Element\Template
{
    protected Expected:{$_helper};

    protected static $_collection;

    /**
     * @var \Titans\Blog\Helper\Data
     */
    protected $blogHelper;

    /**
     * @var \Titans\Blog\Model\Resource\Post\CollectionFactory
     */
    protected $blogResourcePostCollectionFactory;

    /**
     * @var \Magento\Framework\App\Request\Http
     */
    protected $request;

    public function __construct(
        \Magento\Framework\View\Element\Template\Context $context,
        \Titans\Blog\Helper\Data $blogHelper,
        \Titans\Blog\Model\Resource\Post\CollectionFactory $blogResourcePostCollectionFactory,
        \Magento\Framework\App\Request\Http $request,
        array $data = []
    ) {
        $this->blogHelper = $blogHelper;
        $this->blogResourcePostCollectionFactory = $blogResourcePostCollectionFactory;
        $this->request = $request;
        parent::__construct(
            $context,
            $data
        );
    }
}
```

Can't use keywords as identifiers.  
Splitting M1 names to namespaces  
can cause this situation

```
<?php  
  
abstract class Titans_Blog_Block_BlockAbstract  
extends Mage_Core_Block_Template  
{  
    protected static $_helper;  
  
    protected static $_collection;  
  
    protected function _construct()  
    {  
        if (!self::$_helper) {  
            self::$_helper = Mage::  
                helper('titans_blog/  
                    data');  
        }  
        if (!self::$_collection) {  
            self::$_collection = $this->  
                _prepareCollection();  
        }  
    }  
  
    protected function _  
        prepareCollection()
```

Rename prohibited identifiers and  
re-run the conversion tool

	Date Modified	Size	Kind
	Yesterday, 11:18 PM	--	Folder
	Yesterday, 11:18 PM	--	Folder
	Yesterday, 11:18 PM	--	Folder
	Yesterday, 11:18 PM	--	Folder
	Today, 9:28 PM	--	Folder
Blog			
Block			
Abstract.php	Today, 9:28 PM	3 KB	Shell Sc
Abstract.php.converted	Today, 9:12 PM	4 KB	Docume
Abstract.php.converted	Today, 8:53 PM	4 KB	Shell Sc
Abstract.php.converted.php.converted	Today, 9:12 PM	4 KB	Docume
Blog.php	Yesterday, 11:12 PM	385 bytes	Shell Sc
Blog.php.converted	Today, 9:12 PM	398 bytes	Docume
Post.php	Yesterday, 11:12 PM	2 KB	Shell Sc
Post.php.converted	Today, 9:12 PM	2 KB	Docume
Controller			
etc			
Helper			
i18n			
Model			
view			

```
code-migration $ php bin/migrate.php convertPhpCode M2_Module /opt/local/apache2/htdocs/m1 /opt/local/apache2/htdocs/magento2cce
[2016-09-06 12:55:00][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/BlockAbstract.php
[2016-09-06 12:55:00][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/BlockAbstract.php
[2016-09-06 12:55:00][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Blog.php
[2016-09-06 12:55:00][WARNING]: Failed to load parent class: \Titans\Blog\Block\BlockAbstract
[2016-09-06 12:55:00][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Blog.php
[2016-09-06 12:55:00][INFO]: Processing file M2_Module/app/code/Titans/Blog/Block/Post.php
[2016-09-06 12:55:00][WARNING]: Failed to load parent class: \Titans\Blog\Block\BlockAbstract
[2016-09-06 12:55:00][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Block/Post.php
[2016-09-06 12:55:00][INFO]: Processing file M2_Module/app/code/Titans/Blog/Controller/IndexController.php
[2016-09-06 12:55:00][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Controller/IndexController.php
[2016-09-06 12:55:00][INFO]: Processing file M2_Module/app/code/Titans/Blog/Helper/Data.php
[2016-09-06 12:55:00][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Helper/Data.php
[2016-09-06 12:55:00][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Post.php
[2016-09-06 12:55:00][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Post.php
[2016-09-06 12:55:00][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post.php
[2016-09-06 12:55:00][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post.php
[2016-09-06 12:55:00][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Setup.php
[2016-09-06 12:55:00][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Setup.php
[2016-09-06 12:55:00][INFO]: Processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post/Collection.php
[2016-09-06 12:55:01][INFO]: Finished processing file M2_Module/app/code/Titans/Blog/Model/Resource/Post/Collection.php
code-migration $
```

```

Blog.php.converted.php > No Selection
<?php
namespace Titans\Blog\Block;

class Blog extends \Titans\Blog\Block\Abstract
{
    protected function _prepareLayout()
    {
        if ($this->isBlogPage() && ($breadcrumbs = $this->getCrumb())) {
            $this->_prepareMetaData(self::$_helper);
            $breadcrumbs->addCrumb('blog', array('label' => self::$_helper->getTitle()));
        }
        parent::_prepareLayout();
    }
}

```

**titans\_blog**

- css**
- images**
- dot.jpeg**

Name	Date Modified	Size	Kind
app	Today, 11:18 PM	--	Folder
code	Today, 11:18 PM	--	Folder
Titans	Today, 11:18 PM	--	Folder
Blog	Today, 11:18 PM	--	Folder
Block	Today, 11:50 PM	--	Folder
Abstract.php	Today, 11:12 PM	3 KB	Shell Sc
Abstract.php.converted	Today, 11:41 PM	4 KB	Shell Sc
Blog.php	Today, 11:12 PM	385 bytes	Shell Sc
Blog.php.converted.php	Today, 11:41 PM	398 bytes	Shell Sc
Post.php	Today, 11:12 PM	2 KB	Shell Sc
Post.php.converted	Today, 11:41 PM	2 KB	Docume
Controller	Today, 11:41 PM	--	Folder
IndexController.php	Today, 11:12 PM	1 KB	Shell Sc
IndexController.php.converted	Today, 11:41 PM	3 KB	Docume
etc	Today, 11:37 PM	--	Folder
config.xml	Today, 11:37 PM	726 bytes	XML Do
frontend	Today, 11:37 PM	--	Folder
routes.xml	Today, 11:37 PM	260 bytes	XML Do
module.xml	Today, 11:37 PM	261 bytes	XML Do
Helper	Today, 11:41 PM	--	Folder
i18n	Today, 11:12 PM	--	Folder
en_US.csv	Today, 11:12 PM	27 bytes	Comm...
es_ES.csv	Today, 11:12 PM	29 bytes	Comm...
Model	Today, 11:41 PM	--	Folder
Post.php	Today, 11:12 PM	207 bytes	Shell Sc
Post.php.converted	Today, 11:41 PM	742 bytes	Docume
Resource	Today, 11:41 PM	--	Folder
Post	Today, 11:41 PM	--	Folder
Collection.php	Today, 11:12 PM	244 bytes	Shell Sc
Collection.php.converted	Today, 11:41 PM	1 KB	Docume
Post.php	Today, 11:12 PM	753 bytes	Shell Sc
Post.php.converted	Today, 11:41 PM	1 KB	Docume
Setup.php	Today, 11:12 PM	3 KB	Shell Sc
Setup.php.converted	Today, 11:41 PM	3 KB	Docume
view	Today, 11:18 PM	--	Folder
frontend	Today, 11:18 PM	--	Folder
layout	Today, 11:30 PM	--	Folder
default.xml	Today, 11:30 PM	327 bytes	XML Do
titans_blog_index_index.xml	Today, 11:30 PM	299 bytes	XML Do
titans_blog_index_post.xml	Today, 11:30 PM	299 bytes	XML Do
templates	Today, 11:18 PM	--	Folder

Classes that extend a class that is not part of M2 will not keep constructor signature

Name	Date Modified	Size	Kind
Block	Today, 10:49 PM	--	Folder
BlockAbstract.php	Today, 10:48 PM	4 KB	Shell
composer.json	Today, 10:32 PM	481 bytes	Plain
etc	Today, 8:59 PM	--	Folder
module.xml	Yesterday, 11:37 PM	261 bytes	XML
Helper	Today, 9:05 PM	--	Folder
Model	Today, 9:06 PM	--	Folder
Post.php	Today, 8:53 PM	742 bytes	Shell
Resource	Today, 9:06 PM	--	Folder
Post	Today, 10:50 PM	--	Folder
Collection.php	Today, 10:50 PM	1 KB	Shell
Post.php	Today, 8:53 PM	1 KB	Shell
Setup.php	Today, 8:53 PM	4 KB	Shell
registration.php	Today, 9:58 PM	161 bytes	Shell

Abstract classes can't be instantiated  
Therefore M2 can't know it's dependencies

```
<?php
namespace Titans\Blog\Block;

abstract class BlockAbstract extends \Magento\Framework\View\Element\Template
{
    protected static $_helper;
    protected static $_collection;

    /**
     * @var \Titans\Blog\Helper\Data
     */
    protected $blogHelper;

    /**
     * @var \Titans\Blog\Model\Resource\Post\CollectionFactory
     */
    protected $blogResourcePostCollectionFactory;

    /**
     * @var \Magento\Framework\App\Request
     */
    protected $request;
}
```

Name	Date Modified	Size	Kind
Block	Today, 10:49 PM	--	Folder
BlockAbstract.php	Today, 10:48 PM	4 KB	Shell
composer.json	Today, 10:32 PM	481 bytes	Plain
etc	Today, 8:59 PM	--	Folder
module.xml	Yesterday, 11:37 PM	261 bytes	XML
Helper	Today, 9:05 PM	--	Folder
Model	Today, 9:06 PM	--	Folder
Post.php	Today, 8:53 PM	742 bytes	Shell
Resource	Today, 9:06 PM	--	Folder
Post	Today, 10:50 PM	--	Folder
Collection.php	Today, 10:50 PM	1 KB	Shell
Post.php	Today, 8:53 PM	1 KB	Shell
Setup.php	Today, 8:53 PM	4 KB	Shell
registration.php	Today, 9:58 PM	161 bytes	Shell

Constructor dependencies are calculated only if class can be instantiated in M2

This custom module doesn't exist yet in M2

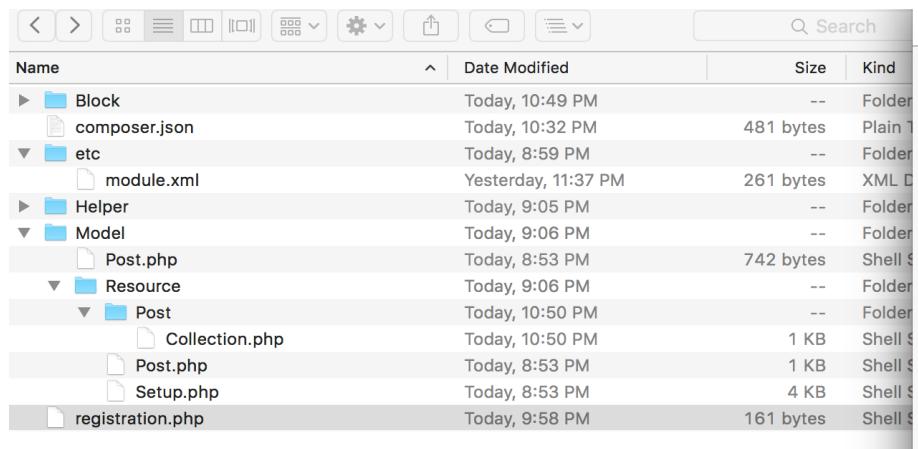
```
<?php
namespace Titans\Blog\Block;

class BlockAbstract extends \Magento\Framework\View\Element\Template
{
    protected static $_helper;
    protected static $_collection;

    /**
     * @var \Titans\Blog\Helper\Data
     */
    protected $blogHelper;

    /**
     * @var \Titans\Blog\Model\Resource\Post\CollectionFactory
     */
    protected
        $blogResourcePostCollectionFactory;

    /**
     * @var \Magento\Framework\App\Request
```



A screenshot of a file explorer window showing the directory structure of a Magento module. The structure includes Block, etc, Helper, Model, and registration.php files.

Name	Date Modified	Size	Kind
Block	Today, 10:49 PM	--	Folder
composer.json	Today, 10:32 PM	481 bytes	Plain Text
etc	Today, 8:59 PM	--	Folder
module.xml	Yesterday, 11:37 PM	261 bytes	XML Document
Helper	Today, 9:05 PM	--	Folder
Model	Today, 9:06 PM	--	Folder
Post.php	Today, 8:53 PM	742 bytes	Shell Script
Resource	Today, 9:06 PM	--	Folder
Post	Today, 10:50 PM	--	Folder
Collection.php	Today, 10:50 PM	1 KB	Shell Script
Post.php	Today, 8:53 PM	1 KB	Shell Script
Setup.php	Today, 8:53 PM	4 KB	Shell Script
registration.php	Today, 9:58 PM	161 bytes	Shell Script



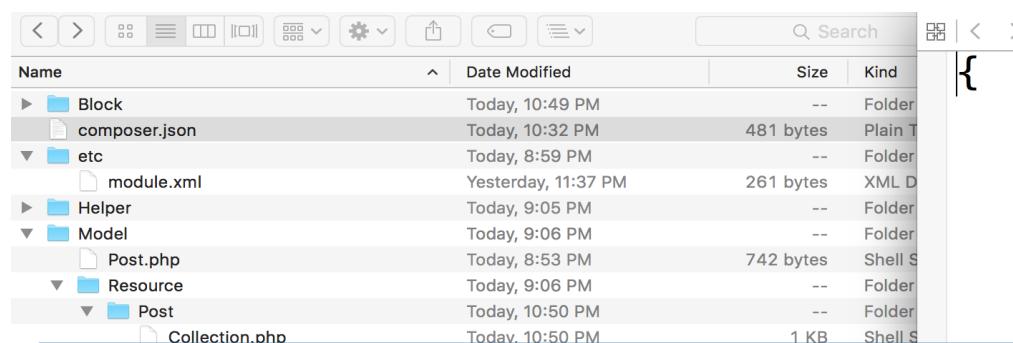
```
<?php  
  
\Magento\Framework\Component\  
ComponentRegistrar::register(  
\Magento\Framework\Component\  
ComponentRegistrar::MODULE,  
'Titans_Blog',  
__DIR__  
);
```

Create the folder  
app/code/Titans/Blog &  
Copy files to a working M2  
installation and enable the  
module

Name	Date Modified	Size	Kind
Block	Today, 10:49 PM	--	Folder
composer.json	Today, 10:32 PM	481 bytes	Plain T
etc	Today, 8:59 PM	--	Folder
module.xml	Yesterday, 11:37 PM	261 bytes	XML D
Helper	Today, 9:05 PM	--	Folder
Model	Today, 9:06 PM	--	Folder
Post.php	Today, 8:53 PM	742 bytes	Shell S
Resource	Today, 9:06 PM	--	Folder
Post	Today, 10:50 PM	--	Folder
Collection.php	Today, 10:50 PM	1 KB	Shell S
Post.php	Today, 8:53 PM	1 KB	Shell S
Setup.php	Today, 8:53 PM	4 KB	Shell S
registration.php	Today, 9:58 PM	161 bytes	Shell S

We have to create additional files not generated by the tool

```
{
  "name": "titans/module-blog",
  "description": "N/A",
  "require": {
    "php": "~5.6.0|7.0.2|7.0.4|~7.0.6",
    "magento/module-store": "100.*",
    "magento/framework": "100.2.*"
  },
  "type": "magento2-module",
  "version": "1.0.0.0-dev",
  "license": [
    "OSL-3.0",
    "AFL-3.0"
  ],
  "autoload": {
    "files": [
      "registration.php"
    ],
    "psr-4": {
      "Titans\\BLog\\": ""
    }
  }
}
```



To activate your module:

- Add PSR4 to composer.json
- Run composer.update
  - Run bin/magento setup:upgrade
  - Run bin/magento module:enable Titans\_Blog

```
{  
  "name": "titans/module-blog",  
  "description": "N/A",  
  "require": {  
    "php": "~5.6.0|7.0.2|7.0.4|~7.0.6",  
    "magento/module-store": "100.*",  
    "magento/framework": "100.2.*"  
  },  
  "type": "magento2-module",  
  "version": "1.0.0.0-dev",  
  "license": [  
    "OSL-3.0",  
    "AFL-3.0"  
  ],  
  "autoload": {  
    "files": [  
      "registration.php"  
    ],  
    "psr-4": {  
      "Titans\\BLog\\": ""  
    }  
  }  
}
```

## Not all config conversion is perfect but it gets you closer to what it should look like

```
1 exception(s):
Exception #0 (Magento\Framework\Exception\LocalizedException): Invalid XML in file
/opt/local/apache2/htdocs/magento2ce/app/code/Titans/Blog/etc/frontend/routes.xml:
Element 'route': Missing child element(s). Expected is ( module ).
Line: 4
```

```
Exception #0 (Magento\Framework\Exception\LocalizedException): Invalid XML in file
/opt/local/apache2/htdocs/magento2ce/app/code/Titans/Blog/etc/frontend/routes.xml:
Element 'route': Missing child element(s). Expected is ( module ).
Line: 4
```

The screenshot shows a code comparison interface with two XML files:

**Left File (routes.xml):**

```
<?xml version="1.0"?>
<config xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="standard">
    <router id="standard">
        <route id="titans_blog" frontName="blog"/>
    </router>
</config>
```

**Right File (routes.xml):**

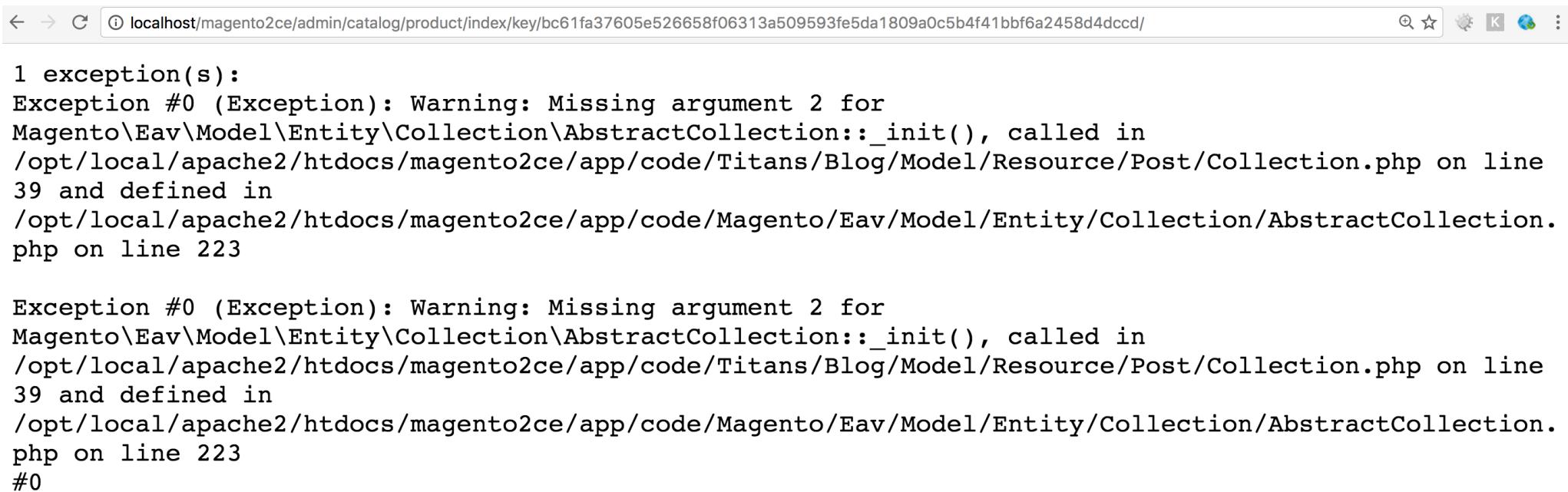
```
<?xml version="1.0" encoding="UTF-8"?>
<config xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="standard">
    <router id="standard">
        <route id="titans_blog" frontName="blog">
            <module name="Titans_Blog"/>
        </route>
    </router>
</config>
```

The comparison highlights the following differences:

- Line 1: The left file has `<?xml version="1.0"?>` and the right file has `<?xml version="1.0" encoding="UTF-8"?>`.
- Line 2: The left file has `xsi:noNamespaceSchemaLocation="standard"` and the right file has `xsi:noNamespaceSchemaLocation="standard"`. The right file's value is highlighted in green.
- Line 4: The left file has `<route id="titans\_blog" frontName="blog"/>` and the right file has `<route id="titans\_blog" frontName="blog">`. The right file's value is highlighted in green.
- Line 7: The left file has `</config>` and the right file has `</config>`. The right file's value is highlighted in green.

## Debugging your way through the code

- Enable Xdebug, Enable developer Mode



localhost/magento2ce/admin/catalog/product/index/key/bc61fa37605e526658f06313a509593fe5da1809a0c5b4f41bbf6a2458d4dccd/

1 exception(s):  
Exception #0 (Exception): Warning: Missing argument 2 for  
Magento\Eav\Model\Entity\Collection\AbstractCollection::\_\_init(), called in  
/opt/local/apache2/htdocs/magento2ce/app/code/Titans/Blog/Model/Resource/Post/Collection.php on line  
39 and defined in  
/opt/local/apache2/htdocs/magento2ce/app/code/Magento/Eav/Model/Entity/Collection/AbstractCollection.  
php on line 223

Exception #0 (Exception): Warning: Missing argument 2 for  
Magento\Eav\Model\Entity\Collection\AbstractCollection::\_\_init(), called in  
/opt/local/apache2/htdocs/magento2ce/app/code/Titans/Blog/Model/Resource/Post/Collection.php on line  
39 and defined in  
/opt/local/apache2/htdocs/magento2ce/app/code/Magento/Eav/Model/Entity/Collection/AbstractCollection.  
php on line 223  
#0

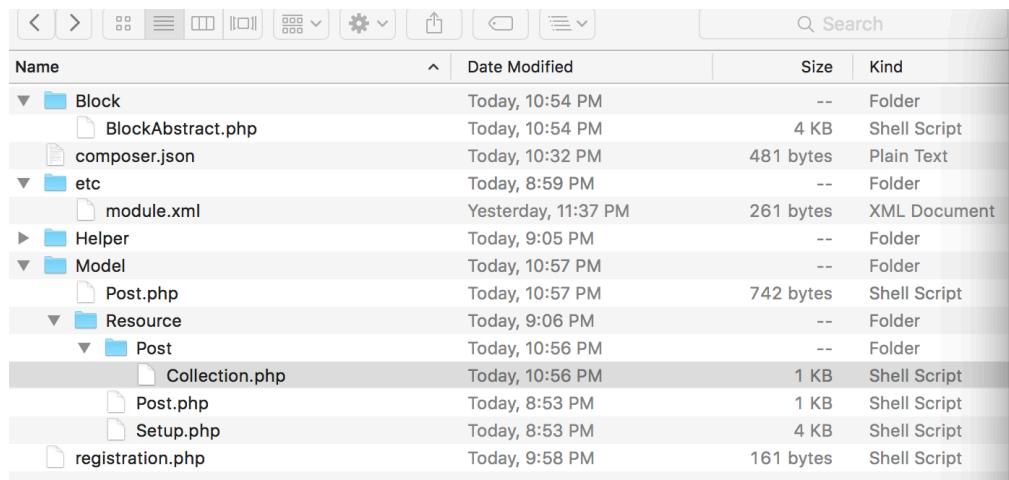
Module uses an EAV model so parameters  
of how you define if have changed in M2

Name	Date Modified	Size	K
local	Sep 4, 2016, 11:06 PM	--	F
Titans	Sep 4, 2016, 11:06 PM	--	F
Blog	Sep 4, 2016, 11:06 PM	--	F
Block	Yesterday, 8:01 AM	--	F
Abstract.php	Yesterday, 8:01 AM	3 KB	S
Blog.php	Sep 4, 2016, 11:06 PM	385 bytes	S
Post.php	Sep 4, 2016, 11:06 PM	2 KB	S
controllers	Sep 4, 2016, 11:06 PM	--	F
etc	Yesterday, 2:10 PM	--	F
config.xml	Yesterday, 2:10 PM	4 KB	X
Helper	Sep 4, 2016, 11:06 PM	--	F
Data.php	Sep 4, 2016, 11:06 PM	2 KB	S
Model	Sep 4, 2016, 11:06 PM	--	F
Post.php	Sep 4, 2016, 11:06 PM	207 bytes	S
Resource	Today, 9:39 PM	--	F
Post	Sep 4, 2016, 11:06 PM	--	F
Collection.php	Sep 4, 2016, 11:06 PM	244 bytes	S
Post.php	Sep 5, 2016, 8:13 PM	999 bytes	S
Setup.php	Sep 5, 2016, 8:01 PM	3 KB	S
sql	Sep 4, 2016, 11:06 PM	--	F
titans_blog_setup	Yesterday, 7:00 PM	--	F
install-1.0.0.0.php	Yesterday, 7:00 PM	17 KB	S
design	Sep 4, 2016, 11:06 PM	--	F
frontend	Sep 4, 2016, 11:06 PM	--	F
base	Sep 4, 2016, 11:06 PM	--	F
default	Sep 4, 2016, 11:06 PM	--	F
layout	Sep 4, 2016, 11:06 PM	--	F
titans_blog.xml	Sep 4, 2016, 11:06 PM	707 bytes	X
template	Sep 4, 2016, 11:06 PM	--	F
titans_blog	Sep 4, 2016, 11:06 PM	--	F
blog.phtml	Sep 4, 2016, 11:06 PM	973 bytes	S
post.phtml	Sep 4, 2016, 11:06 PM	599 bytes	S
etc	Sep 4, 2016, 11:06 PM	--	F
locale	Sep 4, 2016, 11:06 PM	--	F
en_US	Sep 4, 2016, 11:06 PM	--	F
Titans_Blog.csv	Sep 4, 2016, 11:06 PM	27 bytes	C
es_ES	Sep 4, 2016, 11:06 PM	--	F
skin	Sep 4, 2016, 11:06 PM	--	F
frontend	Sep 4, 2016, 11:06 PM	--	F
base	Sep 4, 2016, 11:06 PM	--	F
default	Sep 4, 2016, 11:06 PM	--	F

```
<?php

class Titans_Blog_Model_Resource_Post_Collection
    extends Mage_Eav_Model_Entity_Collection_Abstract
{
    /**
     * Set resource model
     */
    protected function _construct()
    {
        $this->_init('titans_blog/post');
    }
}
```

Original M1 definition



Name	Date Modified	Size	Kind
Block	Today, 10:54 PM	--	Folder
BlockAbstract.php	Today, 10:54 PM	4 KB	Shell Script
composer.json	Today, 10:32 PM	481 bytes	Plain Text
etc	Today, 8:59 PM	--	Folder
module.xml	Yesterday, 11:37 PM	261 bytes	XML Document
Helper	Today, 9:05 PM	--	Folder
Model	Today, 10:57 PM	--	Folder
Post.php	Today, 10:57 PM	742 bytes	Shell Script
Resource	Today, 9:06 PM	--	Folder
Post	Today, 10:56 PM	--	Folder
Collection.php	Today, 10:56 PM	1 KB	Shell Script
Post.php	Today, 8:53 PM	1 KB	Shell Script
Setup.php	Today, 8:53 PM	4 KB	Shell Script
registration.php	Today, 9:58 PM	161 bytes	Shell Script

Don't try to guess  
parameters  
Use a good IDE to go to  
definitions

```
$universalFactory,  
\Magento\Framework\DB\Adapter\  
AdapterInterface $connection  
= null  
)  
{  
    parent::__construct(  
        $entityFactory,  
        $logger,  
        $fetchStrategy,  
        $eventManager,  
        $eavConfig,  
        $resource,  
        $eavEntityFactory,  
        $resourceHelper,  
        $universalFactory,  
        $connection  
    );  
}  
  
protected function _construct()  
{  
    $this->_init('Titans\\Blog\\Model\\  
Resource\\Post', 'entity_id');  
}
```

## Scary errors where most devs give up

```
1 exception(s):
Exception #0 (InvalidArgumentException): Titans\Blog\Model\Resource\Post does not extend
\Magento\Framework\DataObject

Exception #0 (InvalidArgumentException): Titans\Blog\Model\Resource\Post does not extend
\Magento\Framework\DataObject
#0
/opt/local/apache2/htdocs/magento2ce/app/code/Magento/Eav/Model/Entity/Collection/AbstractCollection.
php(225): Magento\Framework\Collection->setItemObjectClass('Titans\\Blog\\Mod...')
#1 /opt/local/apache2/htdocs/magento2ce/app/code/Titans/Blog/Model/Resource/Post/Collection.php(39):
Magento\Eav\Model\Entity\Collection\AbstractCollection->_init('Titans\\Blog\\Mod...', 'entity_id')
#2
/opt/local/apache2/htdocs/magento2ce/app/code/Magento/Eav/Model/Entity/Collection/AbstractCollection.
php(161): Titans\Blog\Model\Resource\Post\Collection->__construct()
#3 /opt/local/apache2/htdocs/magento2ce/app/code/Titans/Blog/Model/Resource/Post/Collection.php(34):
Magento\Eav\Model\Entity\Collection\AbstractCollection-
>__construct(Object(Magento\Framework\Data\Collection\EntityFactory),
Object(Magento\Framework\Logger\Monolog),
Object(Magento\Framework\Data\Collection\Db\FetchStrategy\Query),
Object(Magento\Staging\Model\Event\Manager\Proxy), Object(Magento\Eav\Model\Config),
Object(Magento\Framework\App\ResourceConnection), Object(Magento\Eav\Model\EntityFactory),
Object(Magento\Eav\Model\ResourceModel\Helper), Object(Magento\Framework\Validator\UniversalFactory),
NULL)
#4
```

```

    \Magento\Framework\Data\Collection\EntityFactory
        $entityFactory,
    \Psr\Log\LoggerInterface $logger,
    \Magento\Framework\Data\Collection\Db\
        FetchStrategyInterface $fetchStrategy,
    \Magento\Framework\Event\ManagerInterface
        $eventManager,
    \Magento\Eav\Model\Config $eavConfig,
    \Magento\Framework\App\ResourceConnection $resource,
    \Magento\Eav\Model\EntityFactory $eavEntityFactory,
    \Magento\Eav\Model\ResourceModel\Helper
        $resourceHelper,
    \Magento\Framework\Validator\UniversalFactory
        $universalFactory,
    \Magento\Framework\DB\Adapter\AdapterInterface
        $connection = null
) {
    parent::__construct(
        $entityFactory,
        $logger,
        $fetchStrategy,
        $eventManager,
        $eavConfig,
        $resource,
        $eavEntityFactory,
        $resourceHelper,
        $universalFactory,
        $connection
    );
}

protected function _construct()
{
    $this->_init(
        \Titans\Blog\Model\Post::class,
        \Titans\Blog\Model\ResourceModel\Post::class
    );
}

```

Name	Date Modified	Size	Kind
Block	Yesterday, 6:05 PM	--	Folder
composer.json	Yesterday, 12:19 AM	481 bytes	Plain Text
Controller	Yesterday, 5:58 PM	--	Folder
etc	Yesterday, 6:08 PM	--	Folder
Helper	Yesterday, 5:58 PM	--	Folder
i18n	Yesterday, 5:58 PM	--	Folder
Model	Today, 9:43 PM	--	Folder
Post.php	Yesterday, 6:15 PM	753 bytes	Shell Script
ResourceModel	Today, 9:44 PM	--	Folder
Post	Today, 9:46 PM	--	Folder
Collection.php	Today, 9:46 PM	1 KB	Shell Script
Post.php	Yesterday, 6:15 PM	2 KB	Shell Script
Setup	Yesterday, 5:58 PM	--	Folder
registration.php	Yesterday, 6:15 PM	--	Shell Script
Setup	Yesterday, 5:58 PM	--	Folder
view	Yesterday, 5:58 PM	--	Folder

Lookup definitions and  
use them properly

```

/**
 * Standard resource collection initialization
 *
 * @param string $model
 * @param string $entityModel
 * @return $this
 */
protected function _init($model, $entityModel)
{
    $this->setItemObjectClass($model);
    $entity = $this->_universalFactory->create($entityModel);
    $this->setEntity($entity);

    return $this;
}

```

And...another error..  
and a lot more to working code

( ! ) Fatal error: Class 'Mage' not found in /opt/local/apache2/htdocs/magento2ce/app/code/Titans/Blog/view/frontend/templates/titans_blog/blog.phtml on line 4				
Call Stack				
#	Time	Memory	Function	Location
1	0.0065	248072	{main}()	.../index.php:0
2	0.4281	9093176	Magento\Framework\App\Bootstrap->run( ??? )	.../index.php:39
3	0.4304	9136736	Magento\Framework\App\Http->launch()	.../Bootstrap.php:258
4	8.0101	43537624	Magento\Framework\View\Result\Page\Interceptor->renderResult( ??? )	.../Http.php:139
5	8.0101	43538040	Magento\Framework\View\Result\Page\Interceptor->__callPlugins( ???, ???, ??? )	.../Interceptor.php:130

The conversion tool doesn't convert  
templates

blog.phtml | No Selection

```
<?php $posts = $this->getPosts(); ?>

<?php foreach ($posts as $post): ?>
    <?php if ($post->getContent()): ?>
        <div class="postWrapper">
            <div class="postTitle">
                <h2><a href="php echo $post-&gt;getAddress(); ?&gt;"&gt;&lt;?php echo $post-&gt;getTitle(); ?&gt;&lt;/a&gt;&lt;/h2&gt;
                &lt;h3&gt;&lt;?php echo $post-&gt;getCreatedAt(); ?&gt;&lt;/h3&gt;
            &lt;/div&gt;
            &lt;div class="postContent"&gt;&lt;?php echo $post-&gt;getContent(); ?&gt;&lt;/div&gt;
            &lt;div class="postDetails"&gt;
                &lt;b&gt;
                    &lt;?php echo Mage::helper('titans_blog/data')-&gt;__( 'Posted' ); ?&gt;
                    &lt;?php echo $this-&gt;__( "By" ); ?&gt; &lt;?php echo $post-&gt;getAuthor(); ?&gt;
                &lt;/b&gt;
            &lt;/div&gt;
        &lt;/div&gt;
    &lt;?php endif; ?&gt;
    &lt;br&gt;
&lt;?php endforeach; ?&gt;</pre
```

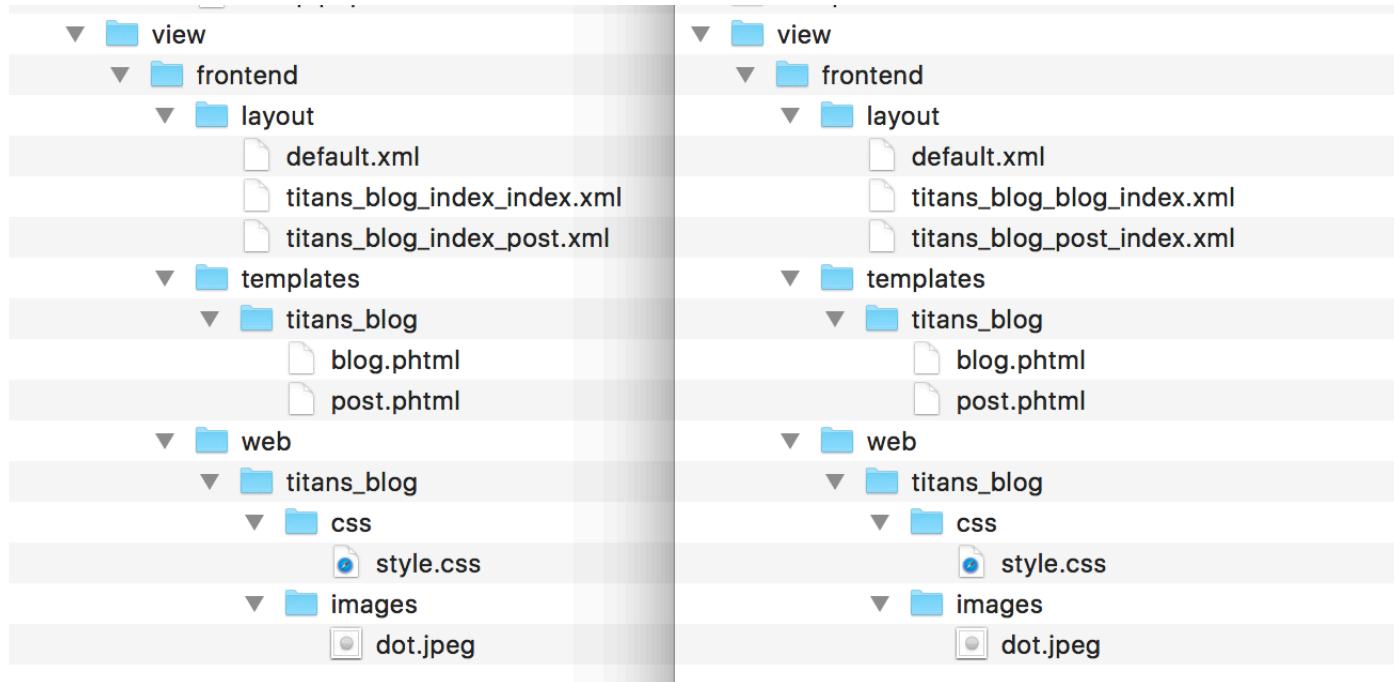
Static call not available anymore in M2

```
<?php $posts = $this->getPosts(); ?>  
<?php foreach ($posts as $post): ?>  
    <?php if ($post->getContent()): ?>  
        <div class="postWrapper">  
            <div class="postTitle">  
                <h2><a href="php echo $post-&gt;getAddress(); ?&gt;"&gt;&lt;?php echo $post-&gt;getTitle(); ?&gt;&lt;/a&gt;&lt;/h2&gt;<br/                <h3><?php echo $post->getCreatedAt(); ?></h3>  
            </div>  
            <div class="postContent"><?php echo $post->getContent(); ?></div>  
            <div class="postDetails">  
                <b>  
                    <?php echo __('Posted'); ?>  
                    <?php echo __("By"); ?> <?php echo $post->getAuthor(); ?>  
                </b>  
            </div>  
        </div>  
        <?php endif; ?>  
<?php endforeach; ?>
```

Translation can be used directly without helper

Templates will not use injected objects but all logic  
should be called through public methods in blocks

## Layout handles could be changed too



M1 Handles names & content are auto-converted to M2  
Custom handles names will not, only their content

Index.php | No Selection

```
<?php
namespace Titans\Blog\Controller\Blog;

use Magento\Framework\App\Action\Context;
use Magento\Framework\Controller\ResultFactory;
use Magento\Framework\App\RequestInterface;

class Index extends \Magento\Framework\App\Action\Action
{

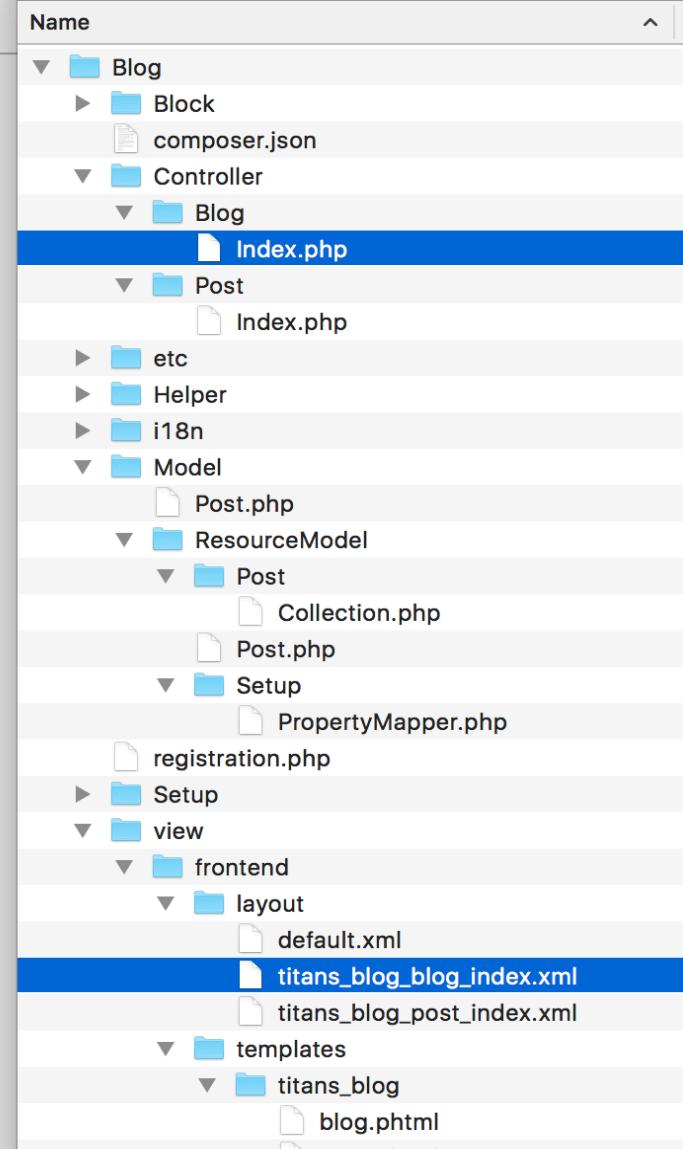
    /**
     * @var ResultFactory
     */
    protected $resultFactory;

    /**
     * @var \Titans\Blog\Helper\Data
     */
    protected $blogHelper;

    /**
     * Constructor
     *
     * @param Context $context
     * @param \Titans\Blog\Helper\Data $blogHelper
     */
    public function __construct(
        Context $context,
        \Titans\Blog\Helper\Data $blogHelper
    ) {
        $this->resultFactory = $context->getResultFactory();
        $this->blogHelper = $blogHelper;
        parent::__construct($context);
    }

    /**
     * @return \Magento\Framework\Controller\ResultInterface
     */
    public function execute()
    {
        $resultPage = $this->resultFactory->create(ResultFactory::TYPE_PAGE);
        return $resultPage;
    }
}
```

Controllers to match layouts  
In M2 each Controller is it's own separate class  
With execute being it's action



```
\Titans\Blog\Controller\Blog\Index execute
    * @return \Magento\Framework\Controller\ResultInterface
    */
    public function execute()
    {
        $resultPage = $this->resultFactory->create(ResultFactory::TYPE_PAGE);
        /** @var \Magento\Framework\View\Layout $layout */
        $layout = $resultPage->getLayout()->getUpdate();

        return $resultPage;
    }

    public function preDispatch()
    {
        parent::preDispatch();
        if (!$this->blogHelper->isEnabled()) {
            $this->_redirectUrl($this->frameworkHelperDataHelper->getHomeUrl());
        }
    }

```

Variables

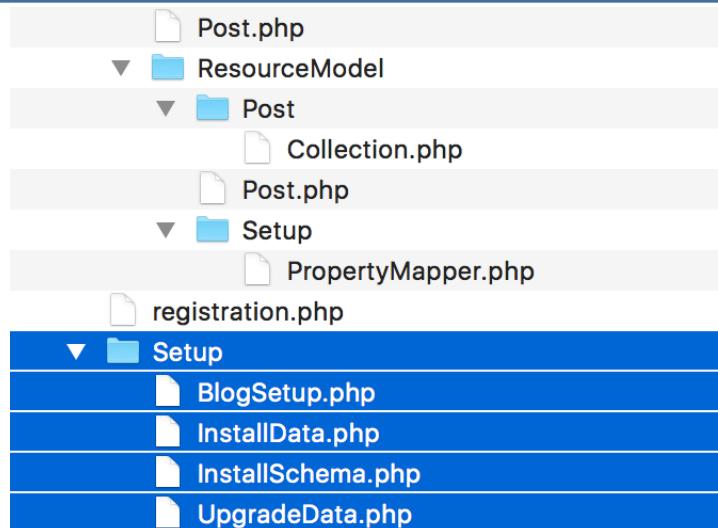
- \*Magento\Framework\View\Model\Layout\Merge\*theme = {Magento\Theme\Model\Theme} [30]
- \*Magento\Framework\View\Model\Layout\Merge\*scope = {Magento\Store\Model\Store\Inter... View
- layoutUpdatesCache = null
- updates = {array} [0]
- handles = {array} [2]
  - default = 1
- titans\_blog\_blog\_index = 1
- pageHandles = {array} [0]
- subst = null

Watches

Use Xdebug to find out the name of the handler associated with the controller

## Setup files that create the EAV

Without it the entity type will not be created + modifying the etc/di.xml



```
<config xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:noNamespaceSchemaLocation="urn:magento:framework:  
ObjectManager/etc/config.xsd">  
    <type name="Magento\Eav\Model\Entity\Setup\PropertyMapper\Composite">  
        <arguments>  
            <argument name="propertyMappers" xsi:type="array">  
                <item name="rma" xsi:type="string">Titans\Blog\Model\ResourceModel\Setup\PropertyMapper</item>  
            </argument>  
        </arguments>  
    </type>  
    <type name="Magento\Eav\Model\Entity\AttributeCache">  
        <arguments>  
            <argument name="unsupportedTypes" xsi:type="array">  
                <item name="titans_blog_post" xsi:type="string">titans_blog_post</item>  
            </argument>  
        </arguments>  
    </type>  
</config>
```



And we have a working  
module!

# Resources

Download the code

**M1 + M2 Converted Modules**

<https://github.com/cpartica/code-migration-example-module>



Thank you