



# Laravel Vilnius Meetup 02

2015-11-27

[www.phppamokos.lt](http://www.phppamokos.lt)

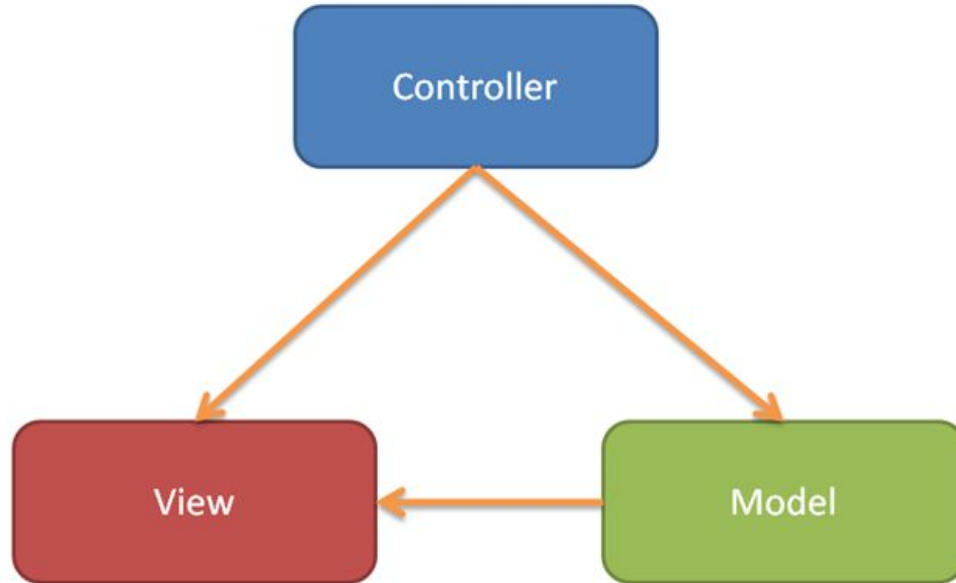
[www.laraveldaily.com](http://www.laraveldaily.com)

# Application Architecture in Laravel 5

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Laravel Vilnius Meetup  
2015-11-27

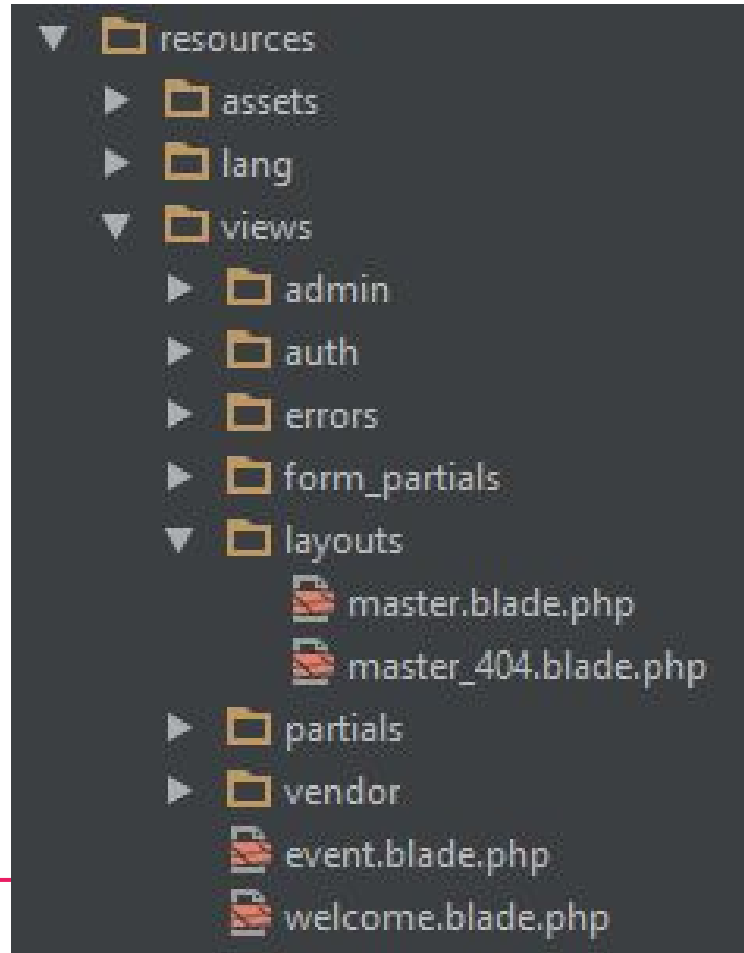
# Let's start from basics: MVC

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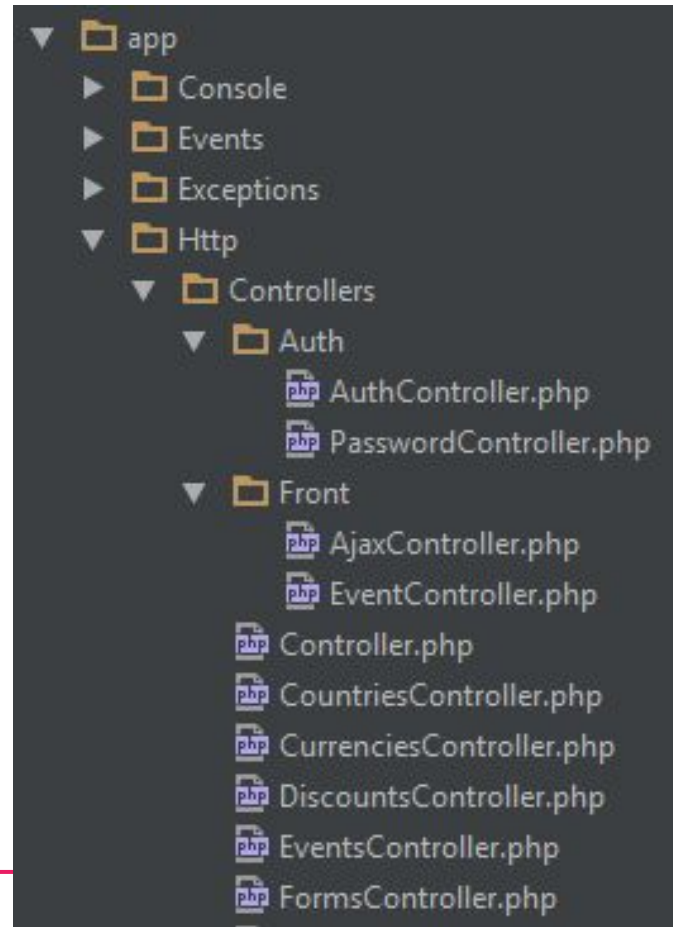
# MVC in Laravel 5

V stands for... Views!



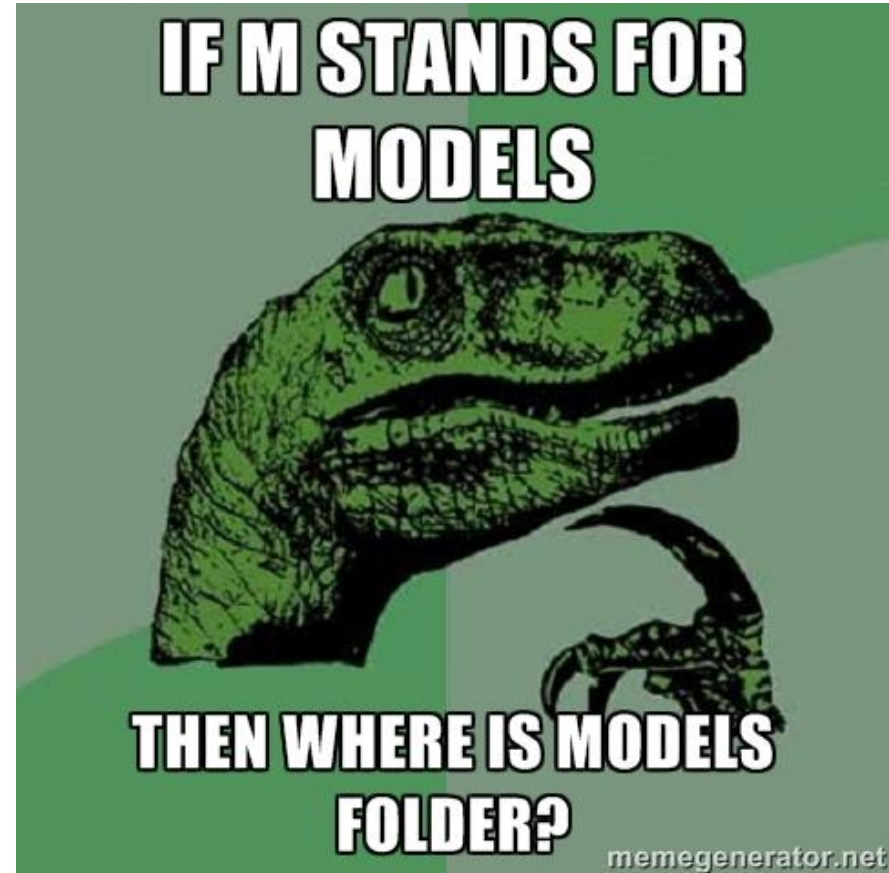
# MVC in Laravel 5

C stands for... Controllers!



# MVC in Laravel 5

M stands for... Models?



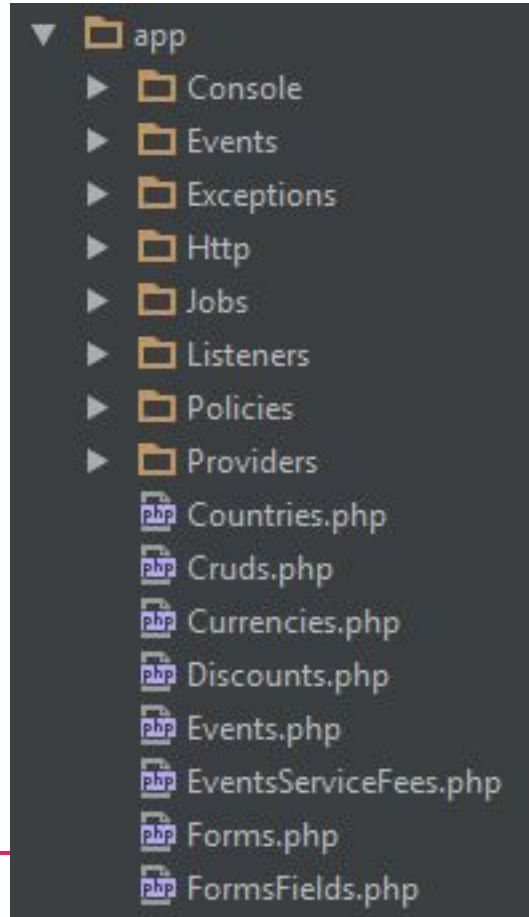
So the biggest question in Laravel is...:

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*WHERE DO I PUT MY STUFF??!!*



Simple option:  
put your models  
in /app





# But... what if I have 20 models? 30? 50?

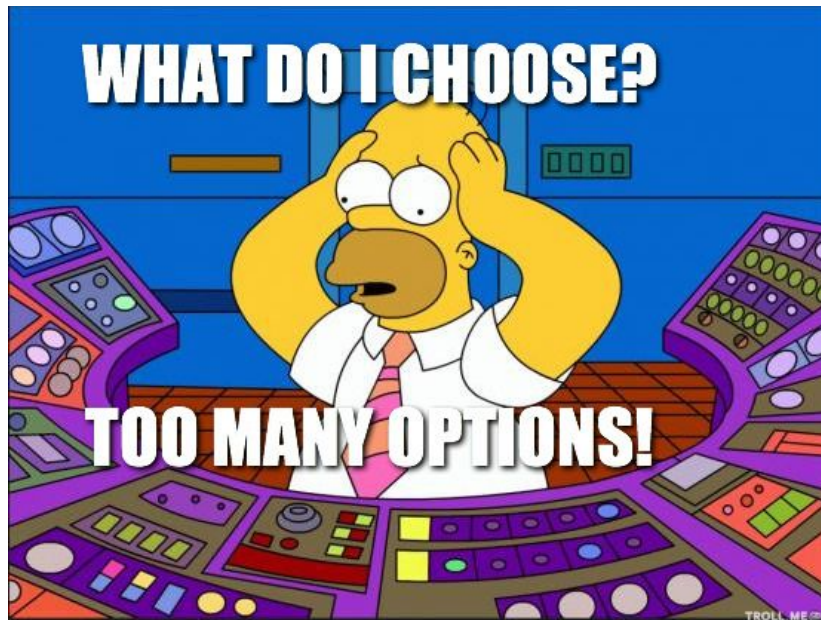
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- Put them all into app/Models
- Organize them by topic (app/Users/...)
- Everything in /app is auto-loaded with PSR-4

# Design patterns. Where things get complicated.

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- Repositories
- Facades
- Factories
- Observers
- Builders
- Decorators
- Proxies
- [enter your name here]



# Thinking process

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**PHP?** *It just works.*

**Laravel?** *It just works.*

**Design patterns?**

**Architecture?**

*Now we actually need to* **THINK.**



# Example from Taylor Otwell himself: Repository pattern

— — —

<http://laravel.com/docs/5.1/quickstart-intermediate>

We want to define a **TaskRepository** that holds all of our data access logic for the **Task model**. This will be especially useful if the application grows and you need to share some Eloquent queries across the application.

So, let's create an **app/Repositories** directory and add a **TaskRepository** class.

# Repository pattern (2)

```
<?php

namespace App\Repositories;

use App\User;
use App\Task;

class TaskRepository
{
    /**
     * Get all of the tasks for a given user.
     *
     * @param User $user
     * @return Collection
     */
    public function forUser(User $user)
    {
        return Task::where('user_id', $user->id)
            ->orderBy('created_at', 'asc')
            ->get();
    }
}
```

# Repository pattern (3)

```
namespace App\Http\Controllers;

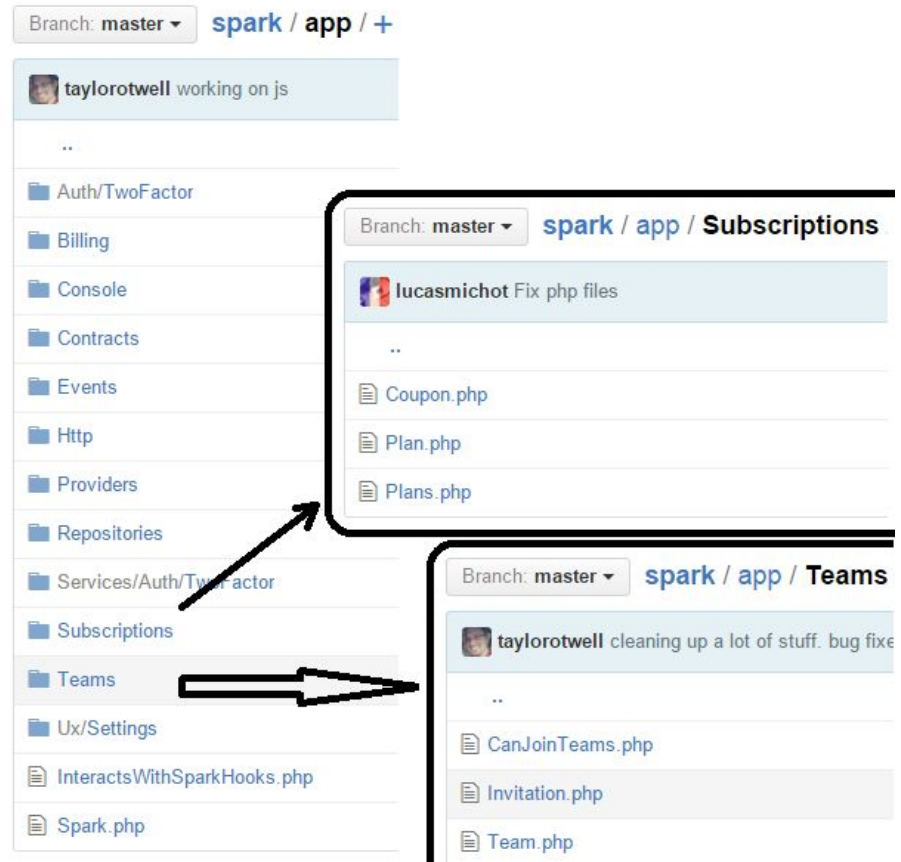
use App\Task;
use App\Http\Requests;
use Illuminate\Http\Request;
use App\Http\Controllers\Controller;
use App\Repositories\TaskRepository;

class TaskController extends Controller
{
    protected $tasks;

    public function __construct(TaskRepository $tasks)
    {
        $this->tasks = $tasks;
    }

    public function index(Request $request)
    {
        return view('tasks.index', [
            'tasks' => $this->tasks->forUser($request->user()),
        ]);
    }
}
```

# Example no.2 by Taylor Otwell: Laravel Spark



**So where do I put my stuff?**



**The answer is ...**

# 42

Answer to the Ultimate Question of Life, the Universe, and  
Everything

**The real answer is: IT DEPENDS.**

# So finally: where do I put my stuff?

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- Simple logic?

Stick with **Models**, put them somewhere in the **/app**

- More complicated logic?

Put them in **/app sub-folders**

- Some more complex architecture?

**Design patterns.** Start with **Repositories**.

Final thought:  
**Life is simple. Don't make it complicated.**

Thank you. Questions?