

Laravel



Preface

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Getting Started

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Introduction

- # Where To Start
- # Laravel Philosophy
- # Additional Resources
- # Development Team

Where To Start

Learning a new framework can be daunting, but it's also exciting. To smooth your transition, we've attempted to

Directory Structure

/app

/bootstrap

/public

/vendor

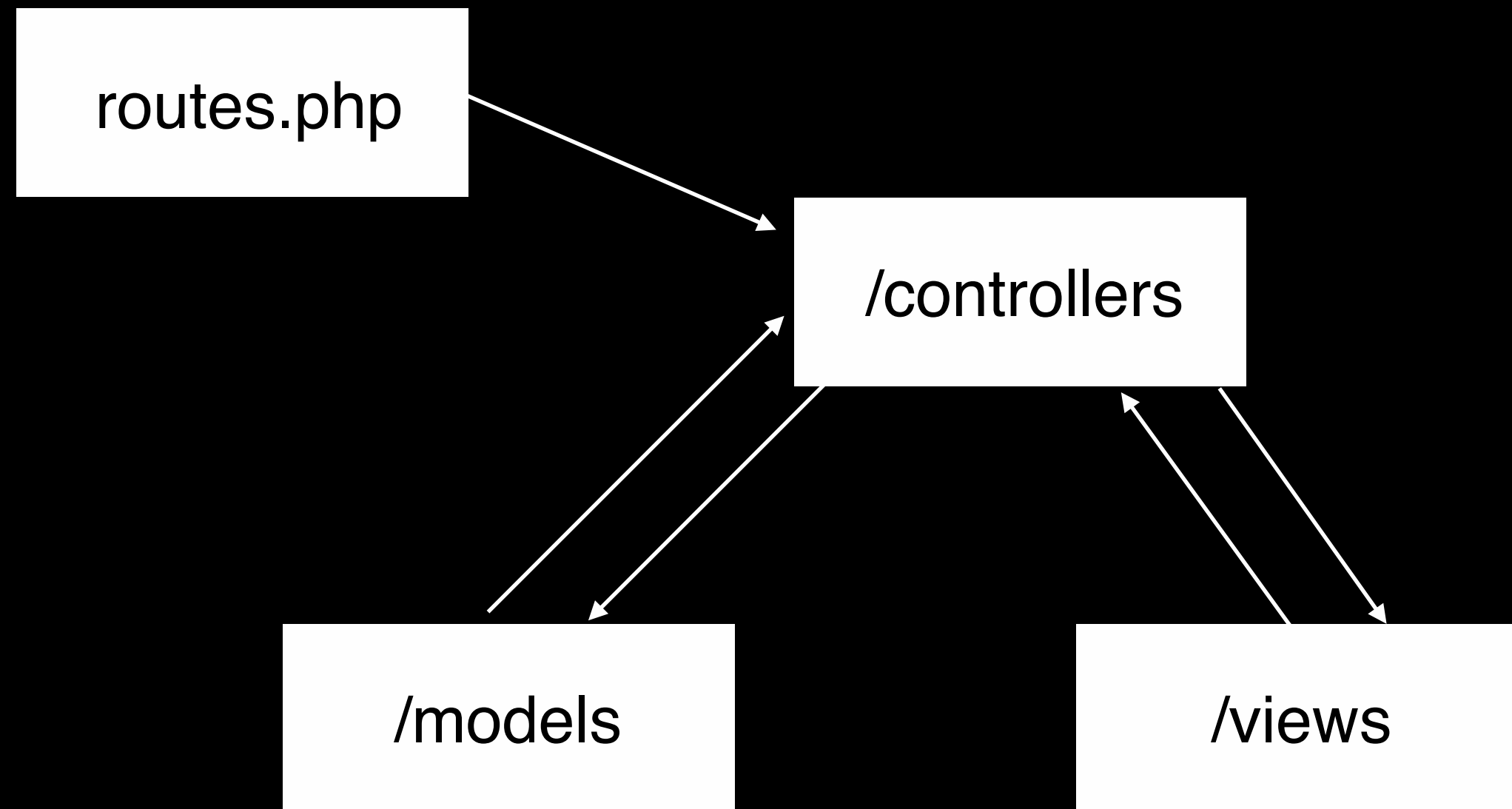
/public

- index.php
- .htaccess
- /css
- /js
- /packages
- favicon.ico, robots.txt, etc.

/app

- routes.php
- /config
- /controllers
- /models
- /views
- (tests, filters, storage, start ...)

MVC



Controllers

```
Route::get('user/{id}', 'UserController@showProfile');
```

```
Route::post('user/{id}', 'UserController@createProfile');
```

URL:

Method:

GET

Submit

Request Body | Request Headers | Auth | Files

Param Key	Param Value

+
-

Raw Input

Response Body | Response Headers | Request Headers Sent

```
1
```

JavaScript

Ready

Controllers

```
Route::get('user/{id}', 'UserController@showProfile');
```

```
Route::post('user/{id}', 'UserController@createProfile');
```

```
Route::controller('user', 'UserController');
```

```
Route::resource('user', 'UserController');
```

Eloquent ORM

Eloquent ORM

- Class Name - Model directory, Singular Database Tables
- Extends the "Eloquent" class
- Relations
- Simple syntax for querying data in SQL
- Eager Loading (avoiding N+1 queries)

Database Config:

- `/app/config/database.php`
- `username / password` (jharvard / crimson)

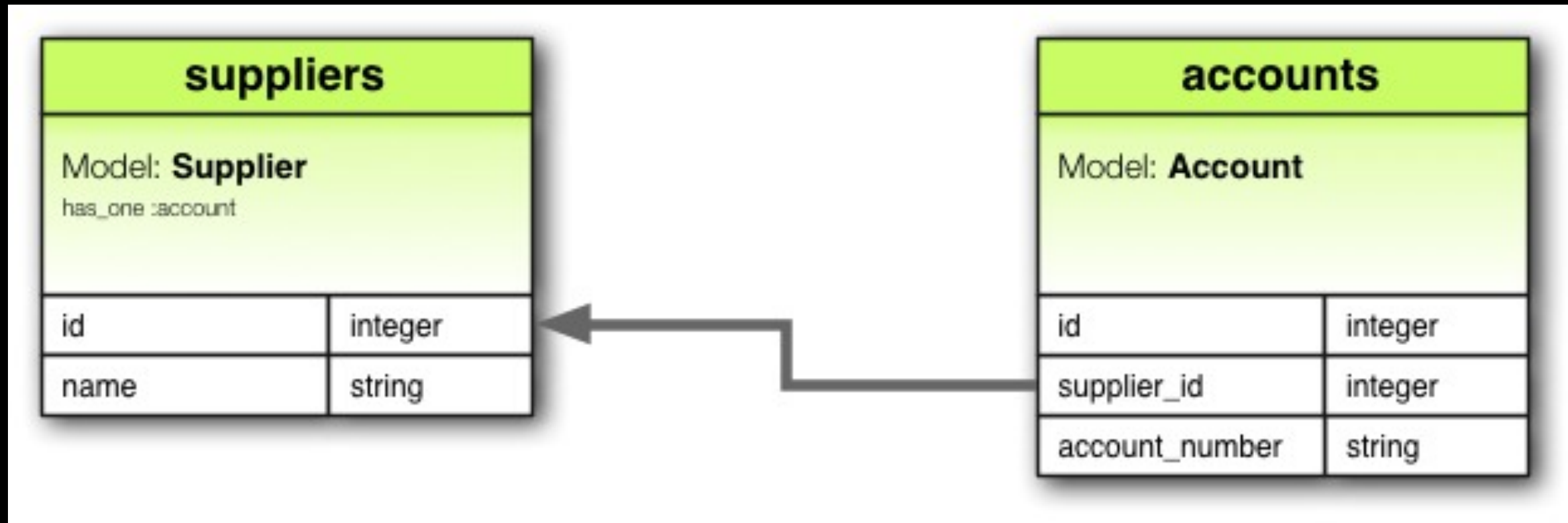
Migrations

- `php artisan migrate:install`
- `php artisan migrate:make migration_name`
- `up: create / alter database tables`
- `down: rollback changes made in "up"`
- `php artisan migrate`

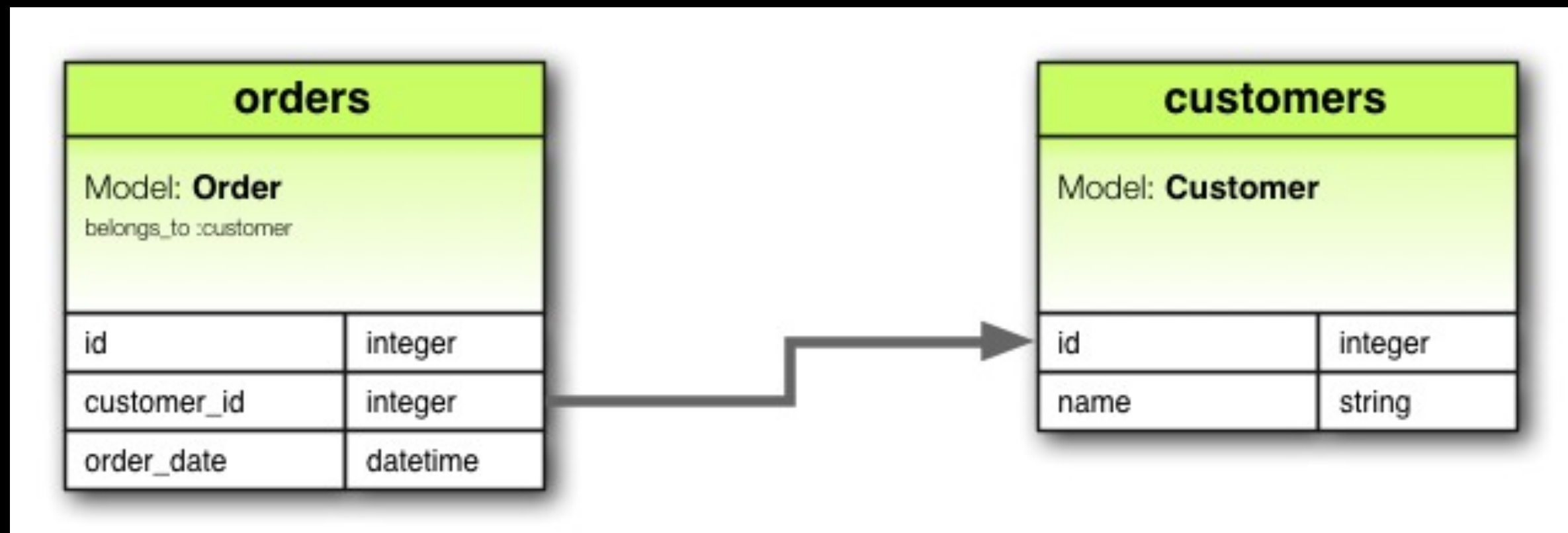
Relations

- hasOne
- hasMany
- belongsTo
- belongsToMany

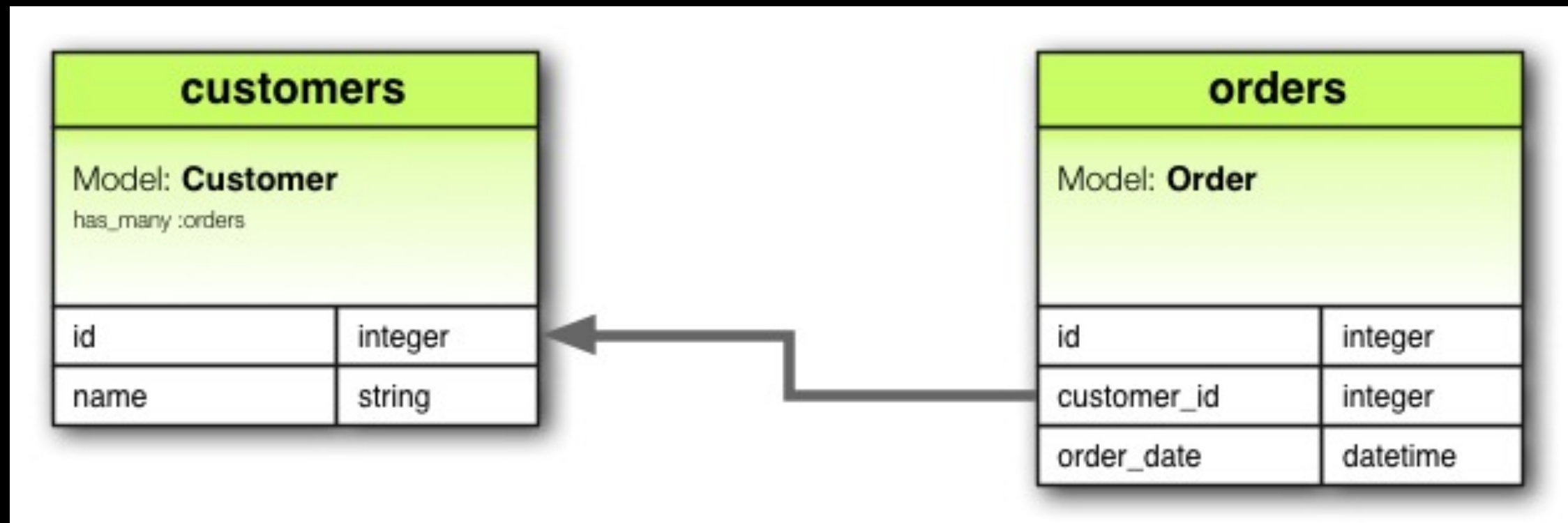
hasOne



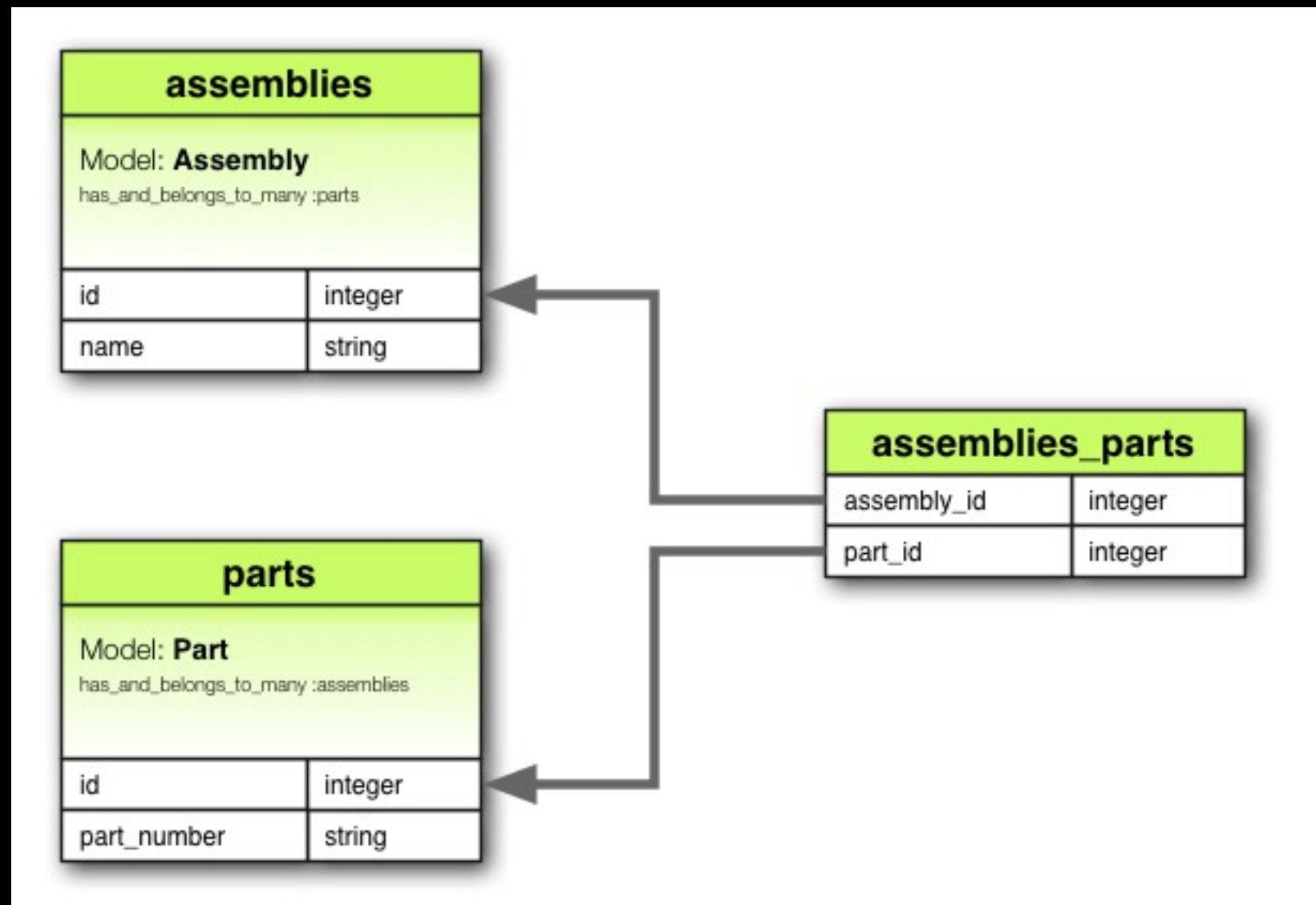
belongs To



hasMany



belongsToMany



Schema

- Courses
 - hasMany: Meeting
 - belongsTo: Department
 - belongsToMany: Instructor, Requirement

Fetching Data

- `Course::limit(10)->get();`
- `Course::with(['department', 'instructors', 'requirements', 'meetings'])
->limit(10)->get();`