



Introduction to Laravel

The PHP Framework for Web Artisans

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Overview

Introduction to Laravel

Learning Path

Appendix



Introduction to Laravel: Prerequisite Knowledge & Skills

- ▶ Basic understanding of **web development** (HTML, CSS, JavaScript)
- ▶ Familiarity with **object-oriented programming (OOP)**
- ▶ Knowledge of **database** concepts (MySQL/MariaDB)
- ▶ Basic understanding of **PHP**
- ▶ **Architecture patterns** (MVC) and **design principles**
- ▶ Some prior **struggling** experience with PHP and DBMS web projects



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Introduction to Laravel: PHP, dead?



The Future Programmer

@TheProgrammerMe

1995: PHP is dead, learn ColdFusion

2002: PHP is dead, learn ASP .net

2003: PHP is dead, learn Django

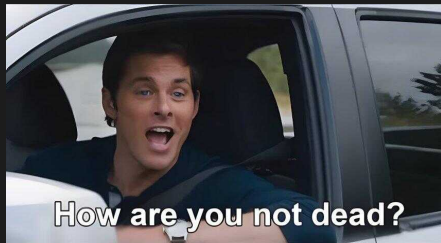
2004: PHP is dead, learn Ruby on Rails

2010: PHP is dead, learn Flask

2011: PHP is dead, learn AngularJS

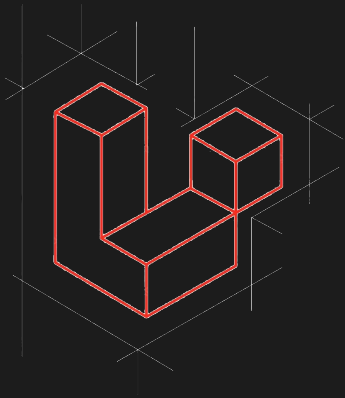
2016: PHP is dead, learn Next.js

2022: okay this is awkward





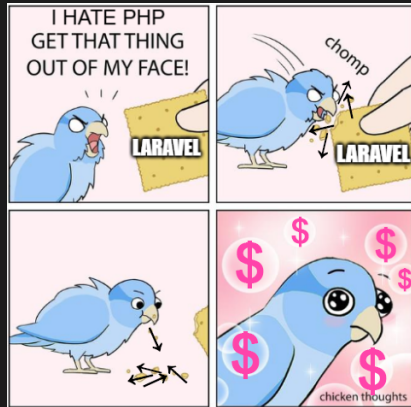
Introduction to Laravel: PHP, not dead yet



Laravel

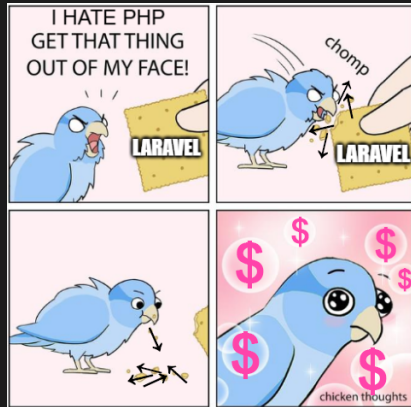
Introduction to Laravel: What is Laravel?

- ▶ A free, open-source PHP web framework
- ▶ Comes with a rich set of libraries, features and tools for web development
- ▶ Makes life easier for developers by providing elegant syntax and conventions
- ▶ Follows the MVC (Model-View-Controller) architectural pattern
- ▶ Designed for building modern web applications



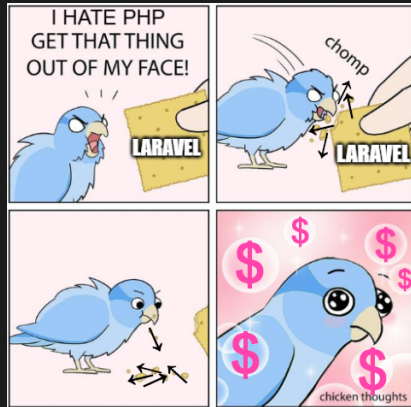
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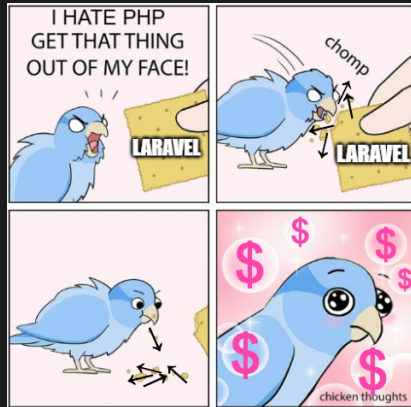
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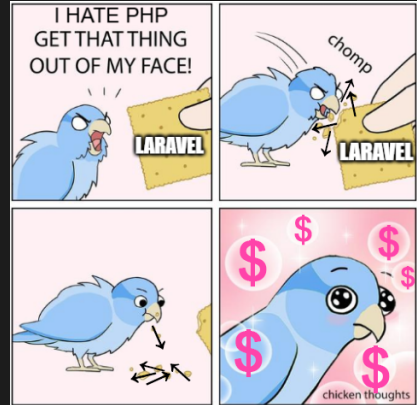
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Introduction to Laravel: Laravel vs PHP

Aspect	Laravel	PHP
Type	Full-stack web framework	Server-side scripting language
Structure	Conventions for MVC, config, tests and queues	You design folder layout and patterns yourself
Routing	Declarative routes with middleware pipeline	\$_GET/.htaccess or custom router
Database	Eloquent ORM, migrations, factories	PDO or raw SQL
CLI & tooling	Artisan commands, migrations, queues	Composer scripts or bash
Extensibility	90 000+ Laravel-specific packages plus generic PHP libs	Any PHP lib via Composer

NOTE: Though, it is illogical to compare between a programming language and a framework built on same language.

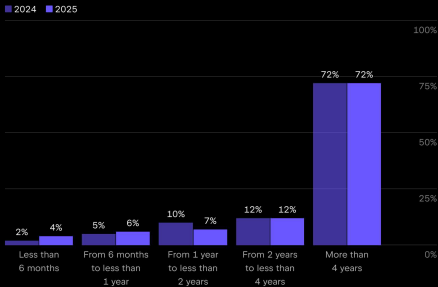
Introduction to Laravel: Laravel vs PHP

- ▶ **Performance** reality check
 - ▶ **I/O still dominates:** Database calls and network latency, not PHP byte-code, are the bottleneck in most production workloads; **Laravel's caching**, eager-loading and Octane workers help mitigate that.
- ▶ **Where raw PHP can still win:** Ultra-lean APIs, edge-deployed scripts or micro-services with stringent memory budgets can shave a few milliseconds by skipping framework bootstrapping.
- ▶ **When Laravel outperforms:** Long-running apps using Laravel Octane (Swoole/RoadRunner) stay active between requests, handling more requests faster than traditional setups.

Source: <https://tailkits.com/blog/laravel-vs-php/>

Introduction to Laravel: Laravel vs PHP

How long have you been using PHP?



The State of PHP 2025
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Which PHP frameworks and CMSs do you regularly use, if any?

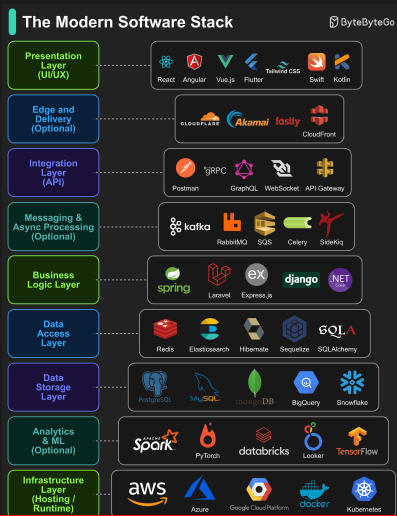
2020	2021	2022	2023	2024	2025	
50%	67%	58%	61%	61%	64%	Laravel
22%	24%	21%	22%	23%	25%	WordPress
24%	22%	24%	21%	21%	23%	Symfony
12%	9%	9%	10%	11%	9%	CodeIgniter
9%	6%	7%	6%	8%	6%	Yii
7%	4%	5%	5%	4%	5%	CakePHP
5%	5%	5%	4%	5%	5%	Drupal
4%	3%	4%	2%	3%	3%	Magento
3%	3%	3%	2%	2%	2%	Joomla
9%	7%	8%	8%	9%	11%	Other
13%	7%	10%	11%	10%	8%	None

0% 67%

The State of PHP 2025
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Introduction to Laravel: Exactly, where are we?





Introduction to Laravel: Why Laravel?

- ▶ Modular **packaging system** with a dedicated dependency manager
- ▶ Multiple ways for accessing relational databases
- ▶ Ease database migration, seeding, and version control
- ▶ Built-in support for unit testing and test-driven development
- ▶ Robust security features for authentication, authorization, and data protection
- ▶ Task scheduling and queuing for background jobs
- ▶ Utilities that aid in application deployment and maintenance
- ▶ Orientation toward syntactic sugar for elegant code



Introduction to Laravel: Laravel Release History

Version	Release date	Bug Fixes Until	Security Fixes Until	PHP version
1.0	June 2011	–	–	–
7	March 3, 2020	October 6, 2020	March 3, 2021	7.2 – 8.0
8	September 8, 2020	July 26, 2022	January 24, 2023	7.3 – 8.1
9	February 8, 2022	August 8, 2023	February 6, 2024	8.0 – 8.2
10	February 14, 2023	August 6, 2024	February 4, 2025	8.1 – 8.3
11 (Unsupported)	March 12, 2024	September 3, 2025	March 12, 2026	8.2 – 8.4
12 (Supported)	February 24, 2025	August 13, 2026	February 24, 2027	≥ 8.2
13 (Latest)	March 17, 2026	Q3 2027	March 17, 2028	≥ 8.3
14 (Planned)	Q1 2027	–	–	–



Learning Path: Best Learning Resource

Laravel Learn: Getting Started with Laravel (click here)

NOTE: This slide is based on this official learning resources by Laravel.



Learning Path: Getting Started with Laravel **Fundamentals**

1. **What are we building?** - Meet Chirper, a Twitter-like microblogging app
2. **Setting up your Laravel project** - Install Laravel, PHP, and create your first project
3. **Your first route** - Create routes and Blade templates for your homepage
4. **Deploying your app** - Deploy to Laravel Cloud with Git basics
5. **What is MVC?** - Understand Model-View-Controller pattern and create your first controller
6. **Working with the database** - Migrations, seeding, and database tools
7. **Our first model** - Build Eloquent models to interact with databases



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9. **Creating and storing Chirps** - Forms, validation, and mass assignment
10. **Edit and delete Chirps** - Complete CRUD operations with RESTful routing
11. **Basic authentication: Registration** - Build user registration and password hashing
12. **Basic authentication: Login/Logout** - Sessions, middleware, and route protection
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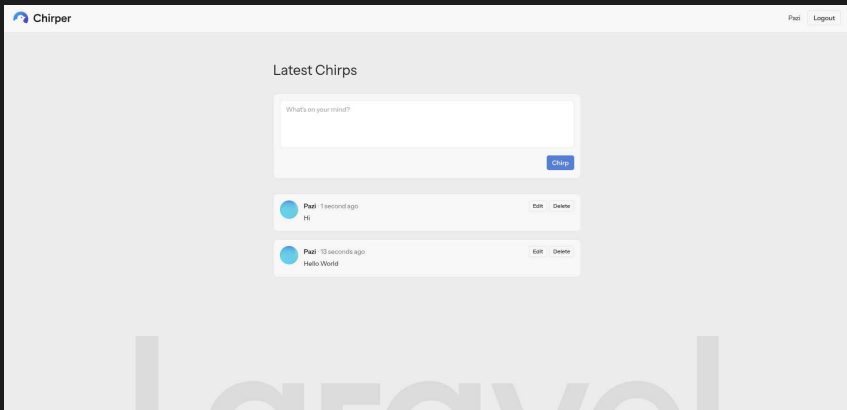


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Learning Path: What are we building? I





Learning Path: What are we building? II

See the live demo on Laravel Cloud: <http://chirper.laravel.cloud/>.

- ▶ Register an account
- ▶ Post chirps
- ▶ See a live feed
- ▶ Edit or delete your own chirps
- ▶ Only modify your own chirps.

Learning Path: Install Laravel I

- ▶ Install PHP and Composer:
 - ▶ Debian/Ubuntu: `sudo apt update && sudo apt install -y php`
 - ▶ Arch Linux: `sudo pacman -S php`
- ▶ Install Laravel: <https://laravel.com/docs/12.x#installing-php>
 - ▶ **Linux:** `/bin/bash -c "$(curl -fsSL https://php.new/install/linux/8.4)"`
 - ▶ **Windows:** (Follow official instructions)
 - ▶ **Composer:** `composer global require laravel/installer`
- ▶ Check Installation: `php -v` and `laravel -v`
- ▶ Create a new Laravel project: `laravel new chirper && cd chirper`
- ▶ Run the development server: `composer run dev`
- ▶ Access the application in a web browser: `http://localhost:8000`



Learning Path: IDE for Laravel

Which editor or IDE do you use the most for PHP development?

2020	2021	2022	2023	2024	2025	
63%	67%	67%	62%	58%	68%	PhpStorm (and IntelliJ IDEA Ultimate with the PHP plugin)
21%	24%	25%	30%	35%	23%	VS Code
—	—	—	—	—	6%	Cursor
10%	8%	6%	9%	7%	3%	Others



The State of PHP 2025
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Learning Path: IDE for Laravel

The screenshot shows an IDE with the following structure:

- Project:** chirper -> main -> resources -> views -> home.blade.php
- Files:** web.php, layout.blade.php, welcome.blade.php, home.blade.php, Controller.php, ChirpController.php, app.css
- Code (home.blade.php):**

```
<@x-layout>
<div class="max-w-2xl mx-auto">
  <!-- Chirp Form -->
  <div class="card bg-base-100 shadow mt-8">
    <div class="card-body">
      <form method="POST" action="/addChirps">
        @csrf
        <div class="form-control w-full">
          <textarea
            name="message"
            placeholder="What's on your mind?..."
            class="textarea textarea-bordered w-full resize-
              rows="4"
              maxlength="255"
              required
          >{{ old('message') }}</textarea>
          <div class="label">
            <span class="label-text-alt text-error">
              </div>
            </div>
            <div class="mt-4 flex items-center justify-end">
              <button type="submit" class="btn btn-primary">
                Chirp
              </button>
            </div>
          </form>
        </div>
      </div>
    </div>
  </div>
</div>
```
- Code (ChirpController.php):**

```
class ChirpController extends Controller
{
  /**
   * Display a listing of the resource.
   */
  // ...

  GET / Kazi Rifat Morshed
  public function index()
  {
    // ...

    $chirpsArr = Chirp::with('relations: user') // use App\Models\Chirp
      ->latest() // order
      ->take($value: 50) // Limit to 50 most recent chirps
      ->get();

    return view('home', ['myChirps' => $chirpsArr]);
  }

  /**
   * Show the form for creating a new resource.
   */
  Kazi Rifat Morshed
  public function create()
  {
    // ...

    /**
     * Store a newly created resource in storage.
     */
  }
}
```



Learning Path: Explore the Project Structure

AGENTS.md	composer.json	package.json	routes/
app/	composer.lock	package-lock.json	storage/
artisan*	config/	phpunit.xml	tests/
boost.json	database/	public/	vendor/
bootstrap/	README.md	vite.config.js	
CLAUDE.md	node_modules/	resources/	

- ▶ **routes/** — Define application URLs and behavior
- ▶ **app/** — **Models** and **controllers** live here
- ▶ **resources/views/** — Blade templates **View** in HTML
- ▶ **database/** — Migrations and SQLite database file

You'll primarily work in just a couple of these directories!

Learning Path: Your First Route

In Laravel, web routes are defined in the `routes/web.php` file:

```
1 Route::get('/', function () {  
2     return view('welcome');  
3 });  
4
```

Listing 1: Defining a basic route in `routes/web.php`

Let's follow that welcome view to `resources/views/welcome.blade.php`.

Learning Path: Your First Route

Let's play with this code!

```
1 Route::get('/', function () {  
2     // return view('welcome');  
3     return view('home'); // home not found or not created yet  
4 });  
5
```

- ▶ Refreshing now gives an error—Laravel can't find the home view yet.
- ▶ Create a new file named `home.blade.php` in `resources/views`.
- ▶ The error is gone, but the page is still blank, so let's build something.
- ▶ If you're following along on laravel.com/learn, you'll find the full code below the lesson.



Learning Path: Copy-Pasteable Code Snippets

To copy the full source files directly into your code editor during the presentation, click the links below to open/extract the files:

► **Home Blade File:** [\[Click to Open/Copy\]](#)

Notice that `$s/ot` in the main section? That's where the content from our individual pages will be injected. So basically, any other stuff that we add to a file using this layout will be put right there.

Note: File attachments are supported in standard desktop PDF viewers (like Adobe Acrobat Reader, Okular, and Evince). If viewing in a browser PDF reader, check the sidebar/attachments panel.



Also, look at how we're handling the title:

```
{{ isset($title) ? $title . ' - Chirper' : 'Chirper' }}.
```

We're using some PHP here to say: if this title variable is set, let's use it and append " - Chirper". If not, let's just revert to "Chirper". This gives us consistent branding across all pages!



With Tailwind CSS v4, we can customize our design system directly in app.css.
Update resources/css/app.css: **Tailwind CSS File:**
[\[Click to Open/Copy\]](#)

Learning Path: Applying the Layout Component

Let's update our `home.blade.php` to use this layout.

```
1 <x-layout>
2     <x-slot:title> Welcome </x-slot:title>
3     <div class="max-w-2xl mx-auto">
4         <div class="card bg-base-100 shadow mt-8">
5             <div class="card-body">
6                 <div>
7                     <h1 class="text-3xl font-bold">Welcome to
Chirper!</h1>
8                     <p class="mt-4 text-base-content/60">This
is your brand new Laravel application. Time to make it sing
(or chirp)!</p>
9                 </div> </div> </div> </div>
10 </x-layout>
11
```

Learning Path: Applying the Layout Component: What's Happening

```
1 ...  
2 <main class="flex-1 container mx-auto px-4 py-8">  
3     {{ $slot }}  
4 </main>  
5 ...
```

Listing 2: layout.blade.php

```
1 <x-layout>  
2     <x-slot:title> Welcome </x-slot:title>  
3     ...  
4 </x-layout>  
5
```

Listing 3: home.blade.php

Reminder: `Route::get('/', function () return view('home');`



Learning Path: Understanding MVC in Laravel

Model

- ▶ Manage your data and your business logic
- ▶ Fetch chirps(data) from the database

View

- ▶ Display information to your users
- ▶ Show the chirps nicely in `home.blade.php`

Controller

- ▶ Handle requests and coordinate responses
- ▶ Decide which chirps to show and how to present them



Learning Path: MVC Architecture: A Restaurant Analogy

- ▶ **The Waiter (Controller):** This is what you would think of as the waiter in a restaurant. It takes your order, it coordinates everything, and then it brings you the food.
- ▶ **The Kitchen (Model):** Well, the kitchen would then be the model. This is what prepares the food, it manages the ingredients—your data, I guess, in an application.
- ▶ **The Presentation (View):** And then there's the presentation—how the food looks on the plate when it arrives. It's your view.

Learning Path: The MVC Architecture Pattern implemented in Laravel

- ▶ Model-View-Controller pattern that keeps Laravel code organized in a structure.
- ▶ Each piece has its job in the MVC structure: Model, View, Controller.
- ▶ This keeps the code organized, and future you will thank current you.
- ▶ How to create MVC:
 - ▶ **Model:** `php artisan make:model Chirp`
 - ▶ **View:** Create a Blade template in `resources/views` directory.
 - ▶ **Controller:** `php artisan make:controller ChirpController` (Let's do it now!)
Creates a new file in `app/Http/Controllers/ChirpController.php`
 - ▶ **Route:** `routes/web.php`

Learning Path: The MVC Flow

- ▶ **Route**: This slash parameter, this root of your application, receives the request
- ▶ **Route calls Controller**: Route calls the ChirpController, specifically the index method of this ChirpController class
- ▶ **Controller prepares data**: Controller prepares the data—it's waiting at our table to decide how are we going to present this data (our sample chirps)
- ▶ **Controller passes to View**: Controller passes all this information to the view—in this case, that `home.blade.php`
- ▶ **View renders**: View then renders that HTML with the data
- ▶ **User sees page**: User sees this page!

Learning Path: Add an Index Method

After `php artisan make:controller ChirpController`, we're going to add an index method to handle our homepage.

```
1 <?php
2 namespace App\Http\Controllers;
3 use Illuminate\Http\Request;
4 class ChirpController extends Controller {
5     public function index() {
6         return view('home');
7     }
8 }
9
```

Listing 4: `app/Http/Controllers/ChirpController.php`

The index method is a **convention for displaying a list of things** (or in our case, the main page).

Learning Path: Update the Route

So in our web routes, how do we change this to instead point to our index method in our ChirpController?

```
1 <?php
2 use Illuminate\Support\Facades\Route;
3 use App\Http\Controllers\ChirpController;
4
5 Route::get('/', [ChirpController::class, 'index']);
6
```

Listing 5: routes/web.php



Learning Path: Passing Data to View

Controllers really shine when we need to prepare data and then serve that data, like a waiter of a restaurant.

File `app/Http/Controllers/ChirpController.php`: [\[Click to Open/Copy\]](#)

The task of View is showing the data. It will get data from Controller. Normally, the Controller will get data from Model which is responsible for communicating with the database.

File `resources/views/home.blade.php`: [\[Click to Open/Copy\]](#)

Learning Path: Method Descriptions I

Controller Creation Command with Resourceful Methods

```
php artisan make:controller ChirpController --resource
```

- ▶ `index()`: This method is responsible for displaying the list of chirps(socail media posts). It **retrieves the chirps(posts) from the database** and **passes them to the view**.

Displaying a listing of all resources. It's listing all of the chirps, this home page.

- ▶ `create()`: This method is responsible for showing the form to create a new chirp. It returns a view with the form.
Might be showing a form to create a new chirp.

Learning Path: Method Descriptions II

- ▶ `store(Request $request)`: This method is responsible for storing a new chirp in the database. It validates the request data and creates a new chirp record.
Where we're creating and saving a new chirp.
- ▶ `edit(Chirp $chirp)`: This method is responsible for showing the form to edit an existing chirp. It retrieves the chirp from the database and passes it to the view.
Displaying a form for editing a single chirp
- ▶ `update(Request $request, Chirp $chirp)`: This method is responsible for updating an existing chirp in the database. It validates the request data and updates the chirp record.
Would be to update that single chirp.
- ▶ `destroy(Chirp $chirp)`: This method is responsible for deleting an existing chirp from the database. It deletes the chirp record.
Deleting a chirp.



Let's Continue from Laravel Learn

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Thank You!

Any Questions?



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