

RAPID REST API DEVELOPMENT WITH SYMFONY

Paweł Jędrzejewski



PHP BARCELONA
CONFERENCE 15



skyscanner



cmp



socialpoint



Paweł Jędrzejewski

I really like **Open Source**

I created **Sylus**

I co-founded **Lakion**

I help organize **PHPers Łódź**

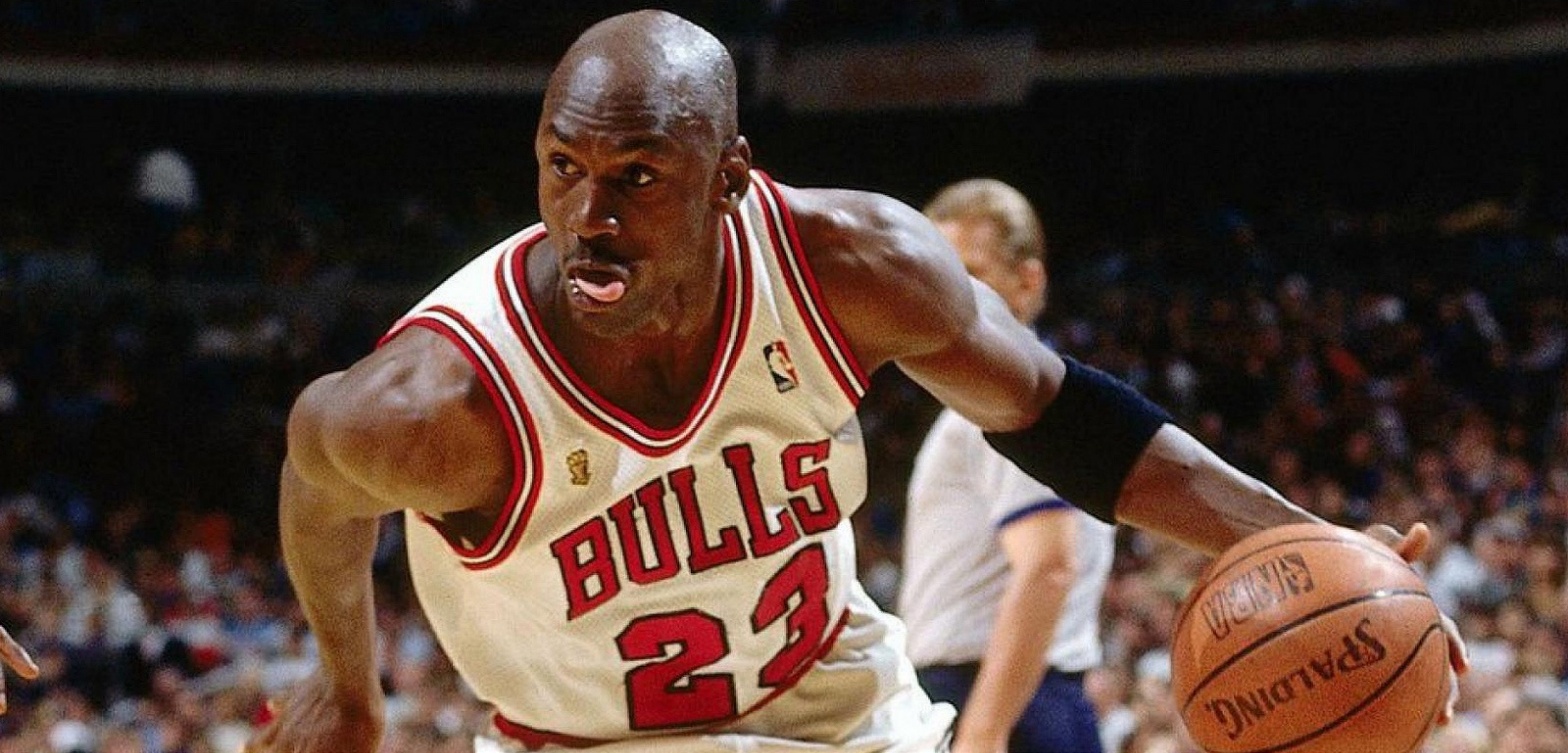


What does it mean to
be rapid?

rapid - [**rap**-id] - **adjective**

Moving, acting, or occurring with great speed.

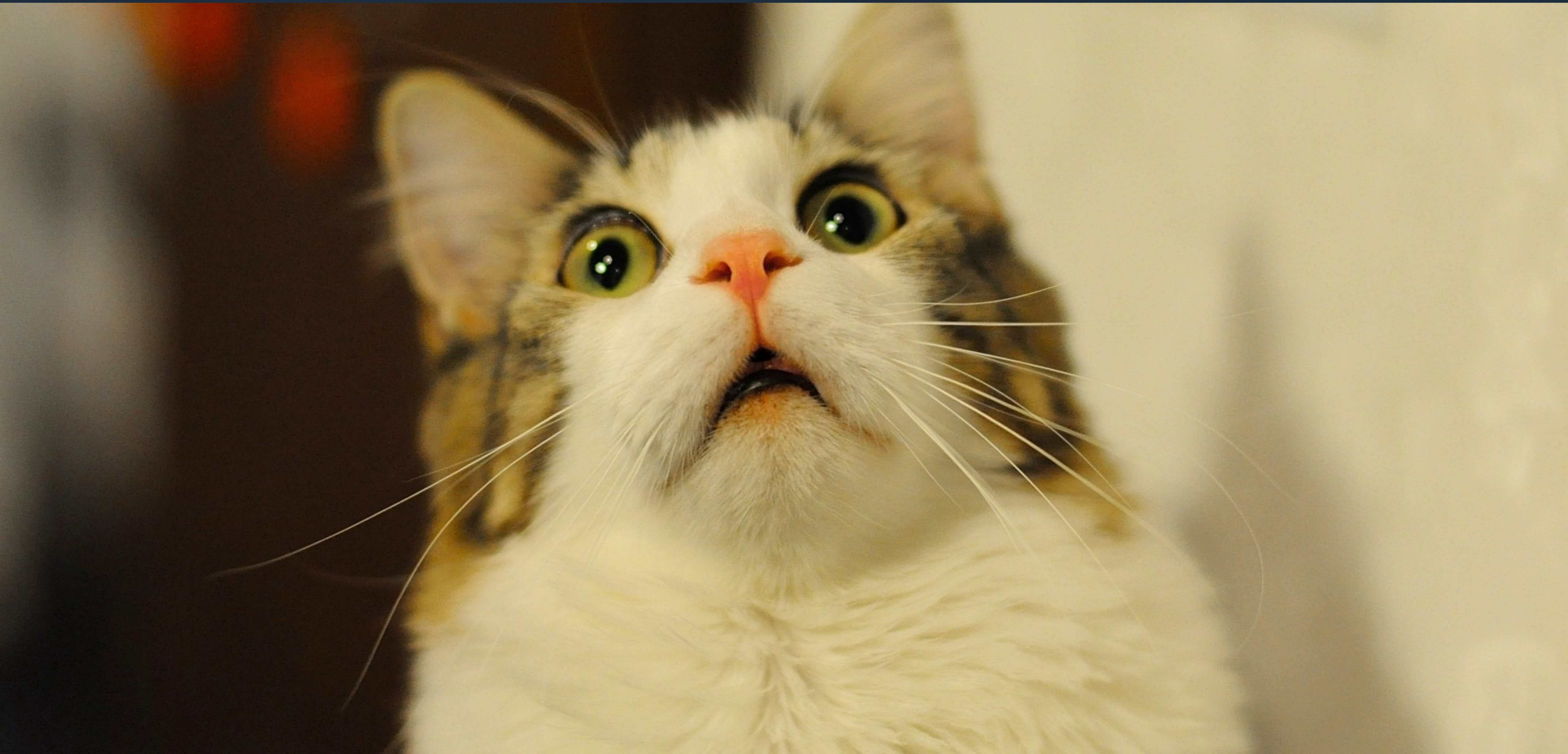
Every startup needs an MVP.



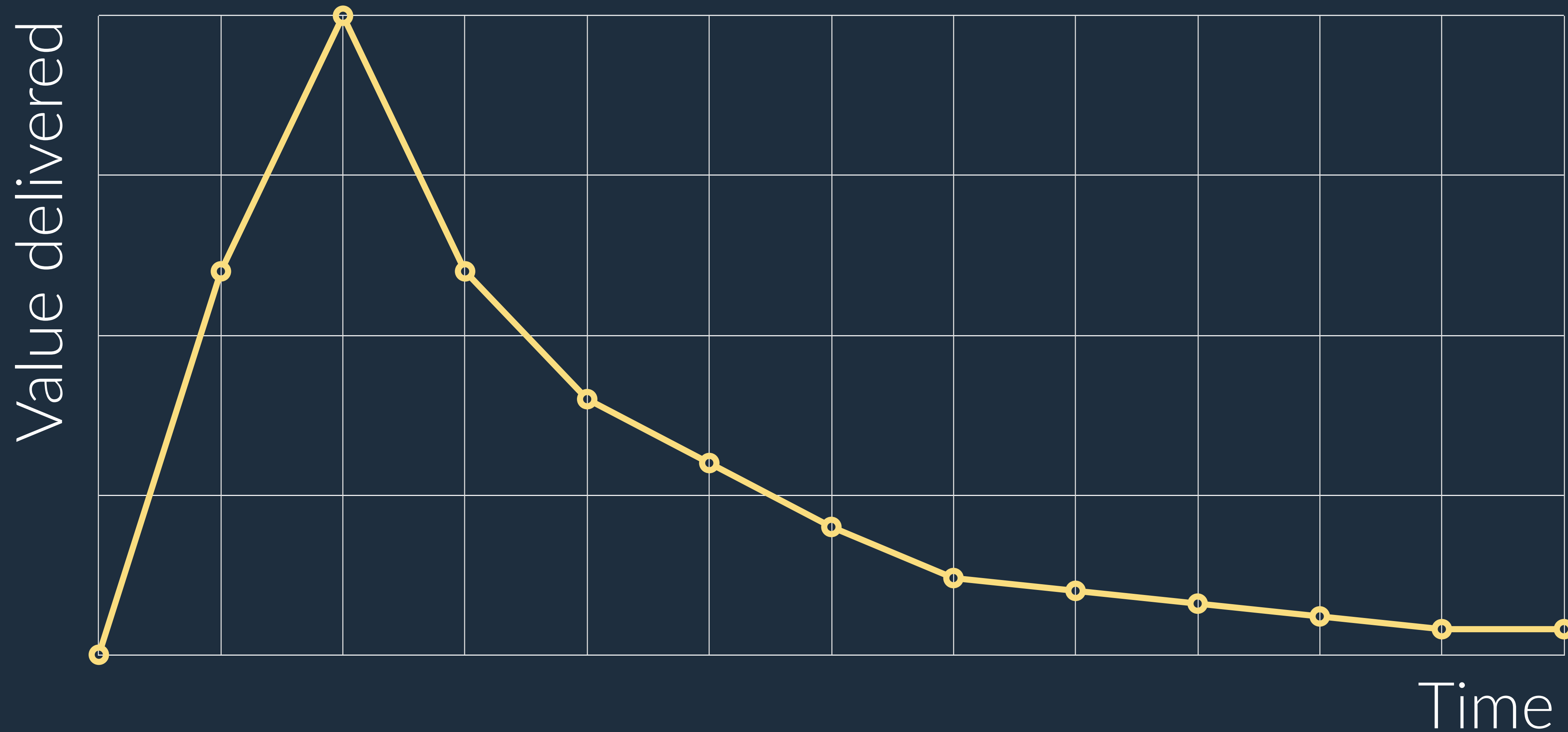
*Minimum Viable Product

Many of them are unpleasantly surprised with the fact that they need to maintain it after going live.

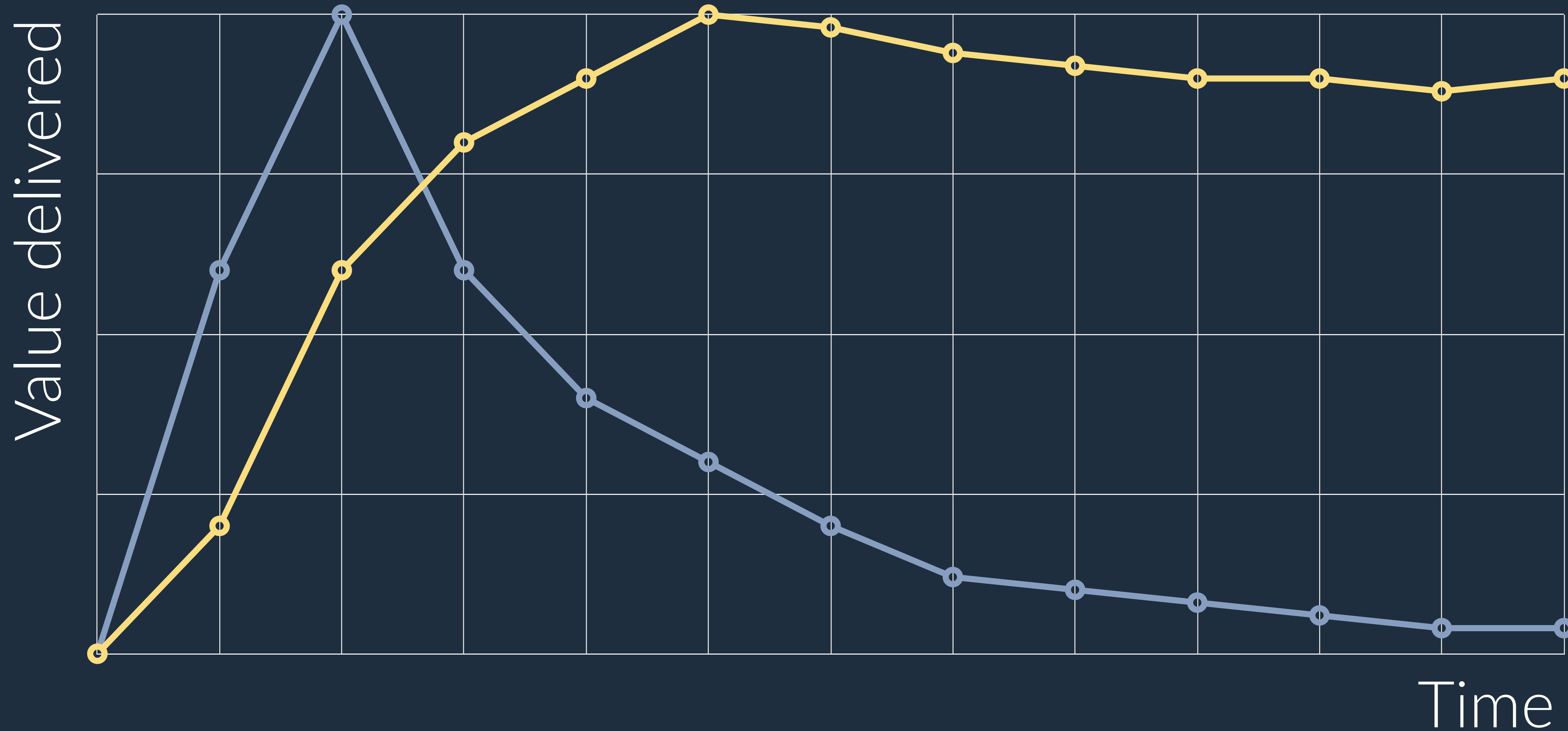
When you need to do a significant change in your „prototype”.







This **is not** rapid.



This **is** rapid.

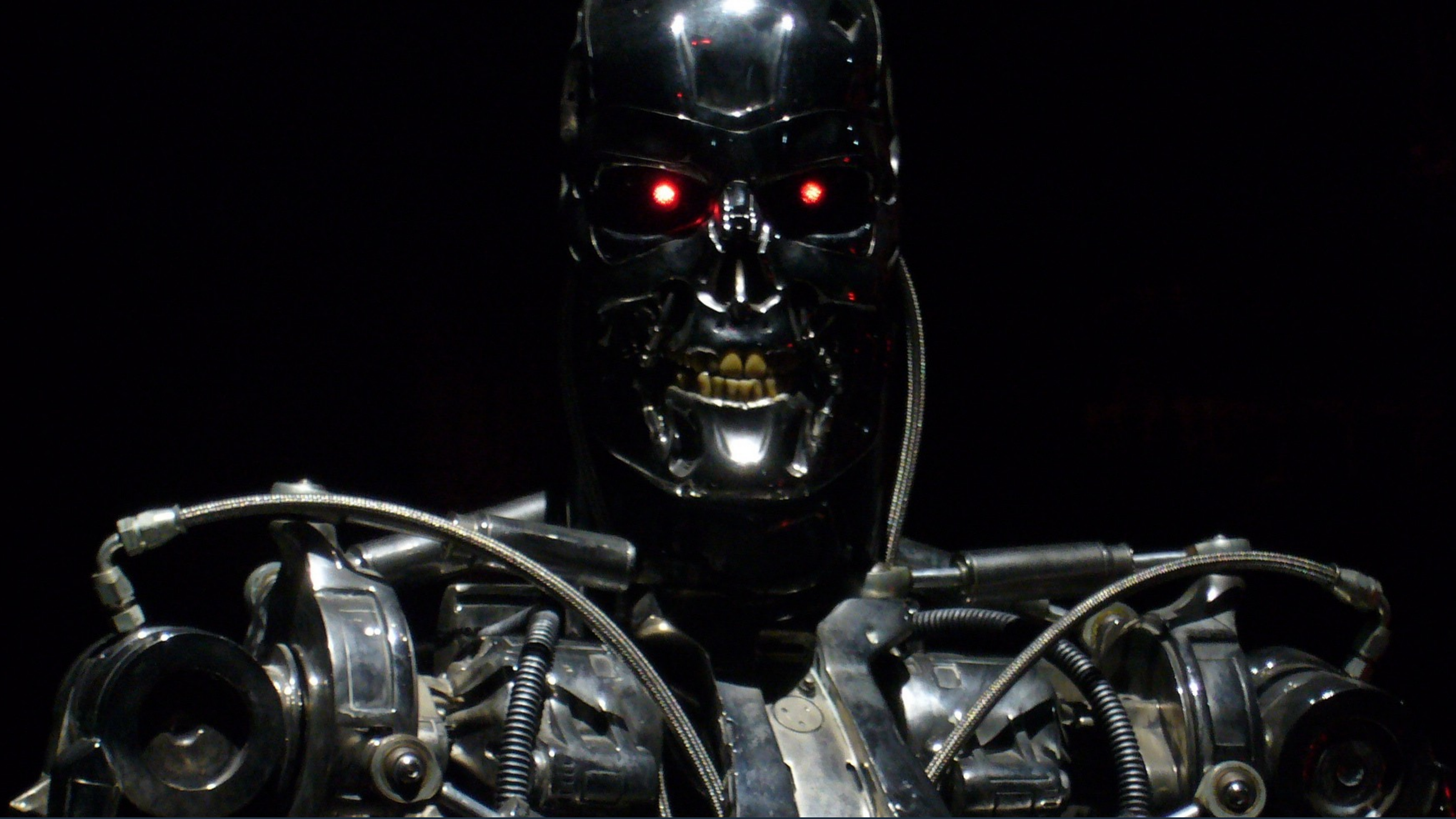
Long-term flexibility over short-term gratification from satisfying the management or the investors.



What is an API?

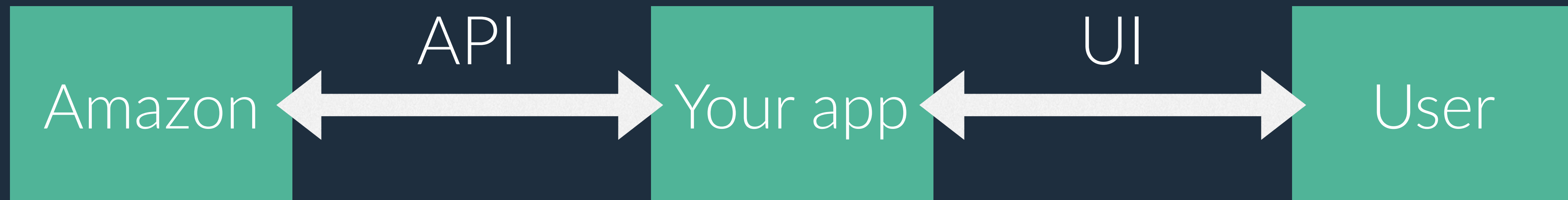
Application Programming Interface

Software-to-Software interfaces



Machines talking to machines... You have been warned.

Why do we need APIs?



Why do we need APIs?

- Sharing data and avoiding duplication
- Decoupling functionality (SRP, Separation of Concerns etc.)
- Allowing other people to consume our service



What kind of APIs are
out there?

CrappyAPI

GET /createNewChargeV2

With the following data sent:

„I\ don\'t\ want\ 2\ do\ this”!UserID:1!250!USD!
test@example.com#

POST / HTTP/1.1

Host: xyz.com

Content-Type: application/soap+xml; charset=utf-8

```
<?xml version="1.0" ?>
```

```
<soap:Envelope ...>
```

```
  <m:GetUserDetails>
```

```
    <m:UserID>41</m:UserID>
```

```
  </m:GetUserDetails>
```

```
</soap:Envelope>
```

GET /users/41 HTTP/1.1
Host: xyz.com
Accept: application/json

That being said, „REST
or SOAP?” is a wrong
question.

REST is not a protocol. It
is an architectural style.

REST API Principles

Client-server architecture

Stateless

Cacheable

Based on standards (HTTP, URL, XML, JSON)

Independent from the platform and language

The Richardson Maturity Model

Level 3: Hypermedia Controls

Level 2: HTTP Verbs

Level 1: Resources

Level 0: Swamp of POX

INSTALL LIONFRAME

```
$ composer create-project lakion/lionframe
```

DEMO

A close-up photograph of four LEGO Technic bricks of different colors: blue, red, orange, and yellow. The bricks are arranged in a row on a grey, textured surface. The top of each brick shows two circular studs. The word "LEGO" is embossed on the top of the studs. A semi-transparent dark grey horizontal bar is overlaid across the middle of the image, containing the word "HOW?" in white, bold, sans-serif capital letters.

HOW?



Symfony

Doctrine2



Bundles, Bundles, Bundles

FOSRestBundle

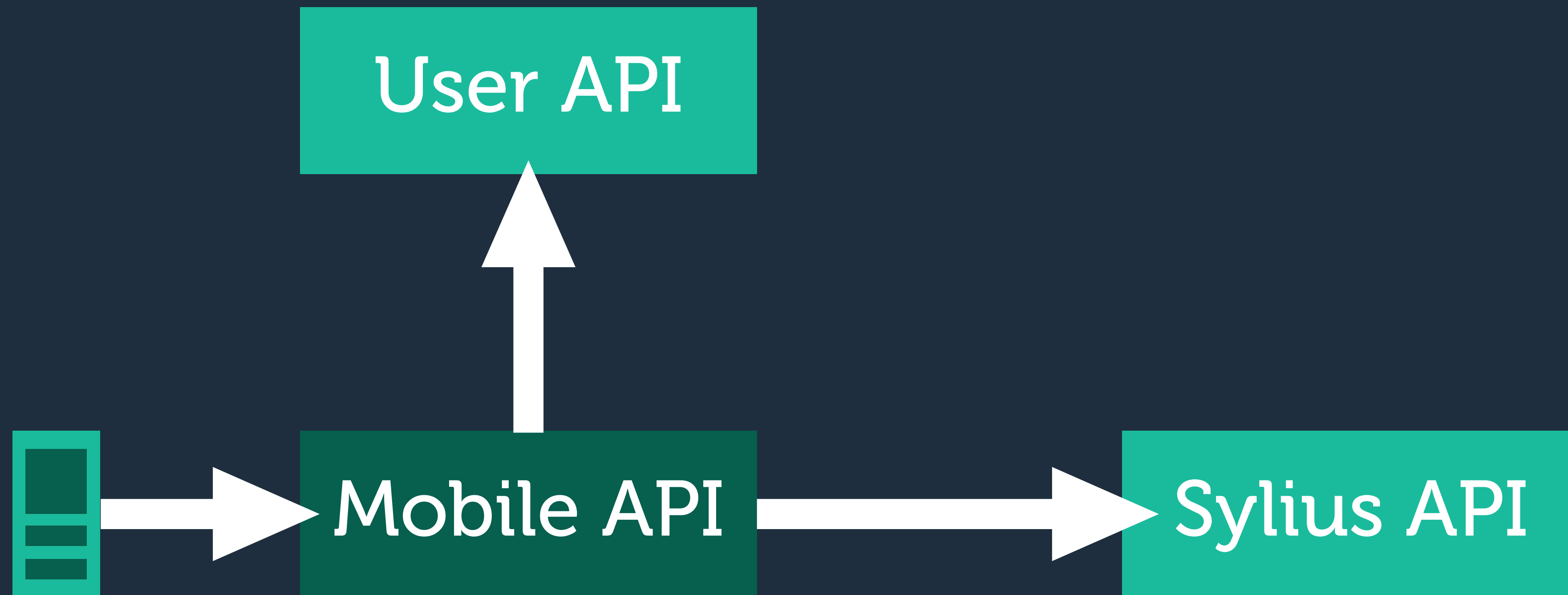
JMSSerializerBundle

BazingaHateoasBundle

SyllusResourceBundle

It can be plugged into an existing Symfony app.

USE CASE: SYLIUS E-COMMERCE API



Extras!

FOSOAuthServerBundle

FOSHttpCacheBundle

SyllusRbacBundle

/ Lionframe - Rapid RESTful API Development

What is Lionframe?

Lionframe is a tool to develop powerful REST APIs with ease and best practices. It is based on Symfony Standard Edition and uses several community libraries, including [SyliusResourceBundle](#), [FOSRestBundle](#) and [BazingaHateoasBundle](#).

Installation

[Composer](#) is a dependency management library for PHP, which you can use to download the Symfony Standard Edition.

Start by [downloading Composer](#) anywhere onto your local computer. If you have **curl** installed, it is as easy as:

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

Composer is an executable PHAR file, which you can use to download Lionframe:

```
php composer.phar create-project lakion/lionframe path/to/project '0.2.0' --prefer-dist
```

After Composer is done with installing all the dependencies, create database and run the built in server:

```
php app/console doctrine:database:create  
php app/console doctrine:schema:create  
php app/console server:run
```

[LAKION.COM/LIONFRAME](https://www.lakion.com/lionframe)

Sylus Documentation



Sylus is a modern e-commerce solution for PHP, based on ``Symfony2 Framework``.

Note

This documentation assumes you have a working knowledge of the Symfony2 Framework. If you haven't, please start by reading the [Quick Tour](#) from the Symfony documentation.

The Book

The Developer's guide to leveraging the flexibility of Sylus.

- [Introduction to Sylus](#)
- [Installation](#)
- [Architecture Overview](#)
- [Products](#)
- [Addresses](#)
- [Inventory](#)
- [Orders](#)
- [Shipments](#)

[DOCS.SYLIUS.ORG](https://docs.sylus.org) - SYLIUS RESOURCE BUNDLE

@pjedrzejewski

@Sylius

@Lakion

pjedrzejewski.com

sylius.org

lakion.com

THANK YOU!