

Serverless & PHP

Where did the server go?

PHP

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Serverless

Resource

Service

Storage as a Service

Database as a Service

Cache as a Service

Auth as a Service

Search as a Service

Manage less

Scale more

Pay per use

Function as a Service

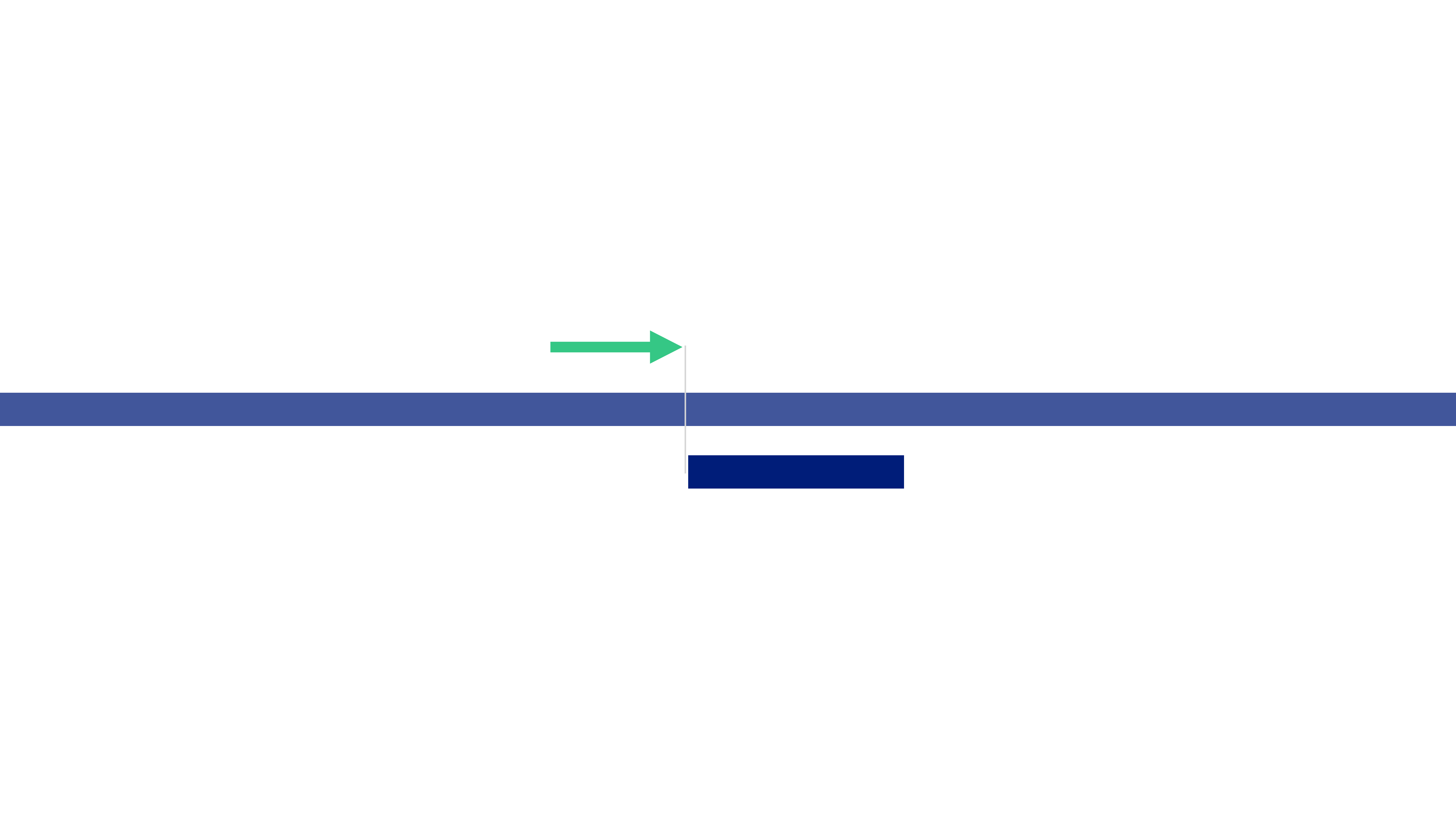
Python

```
def handler(event, context):  
    return 'hello ' + event['name']
```

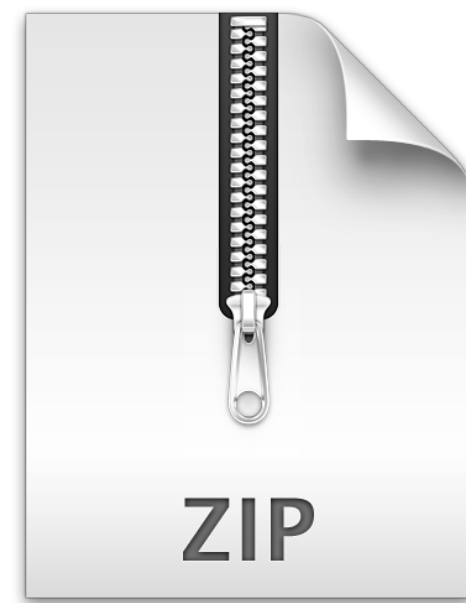
```
exports.handler = function (event, context, callback) {  
    let result = 'hello ' + event.name;  
  
    callback(null, result);  
};
```

JavaScript







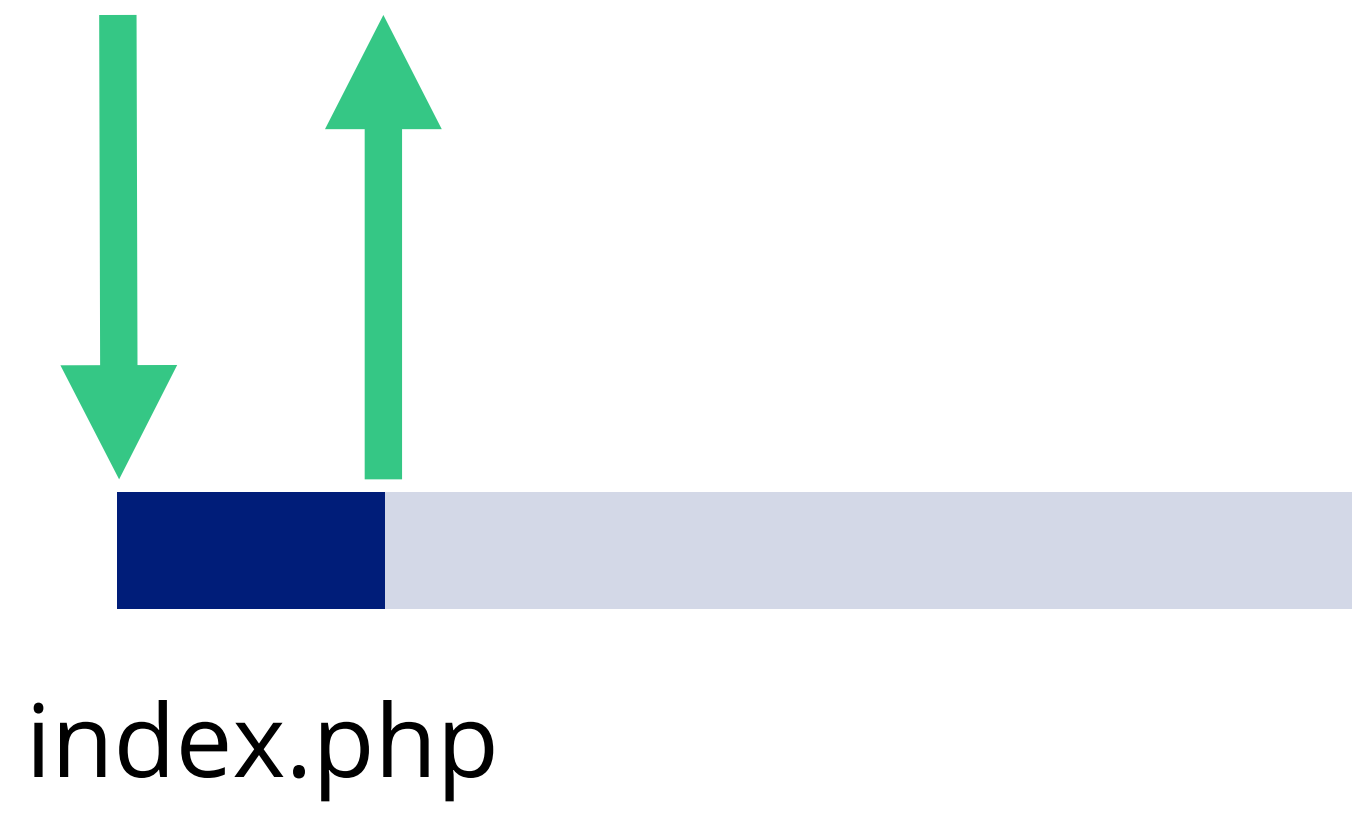


Code











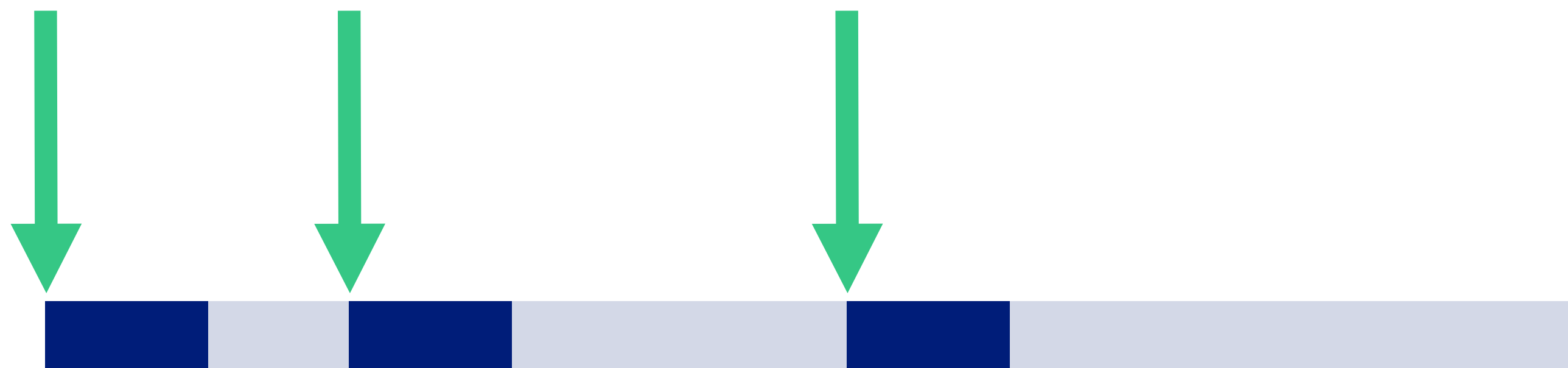
10 minutes

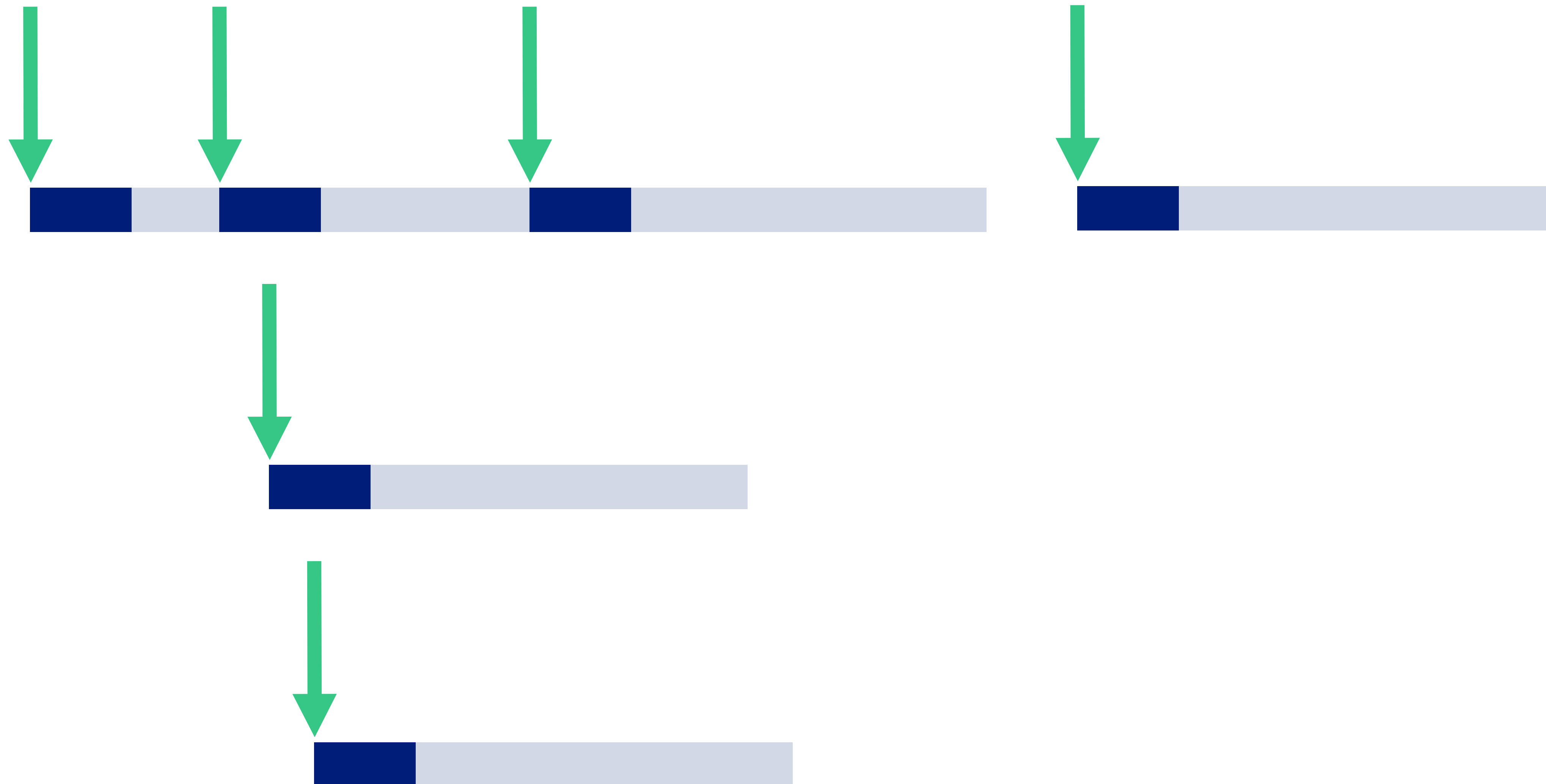




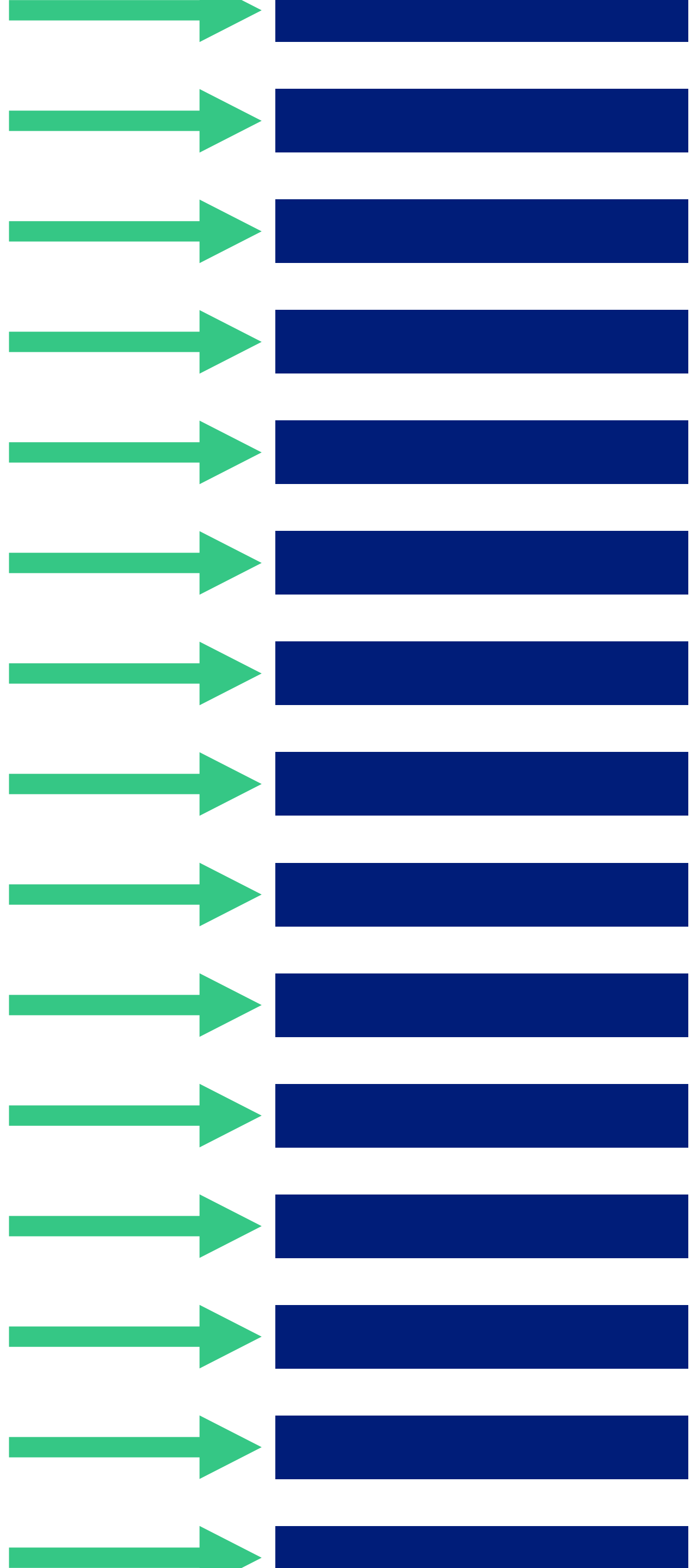








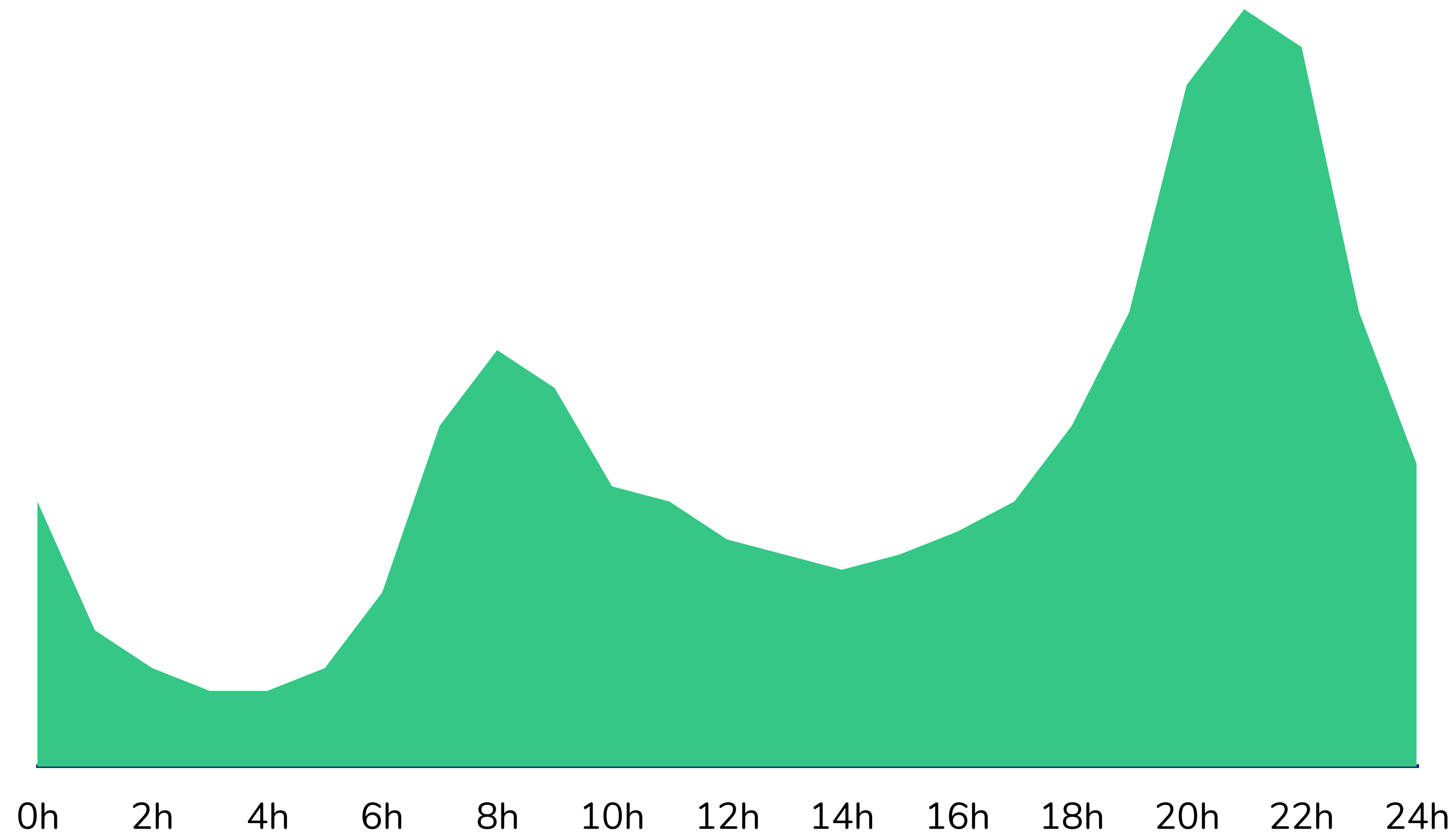


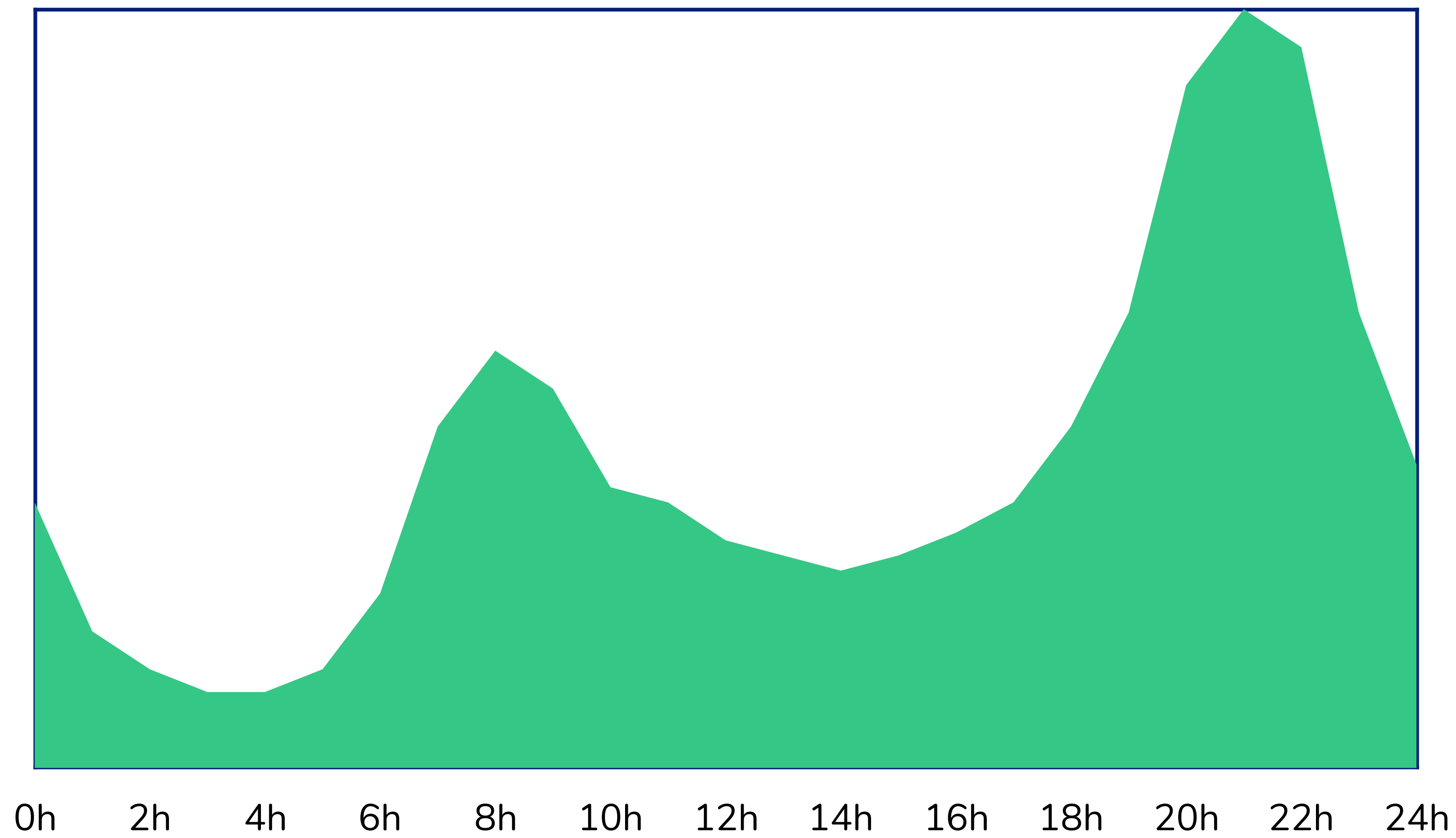


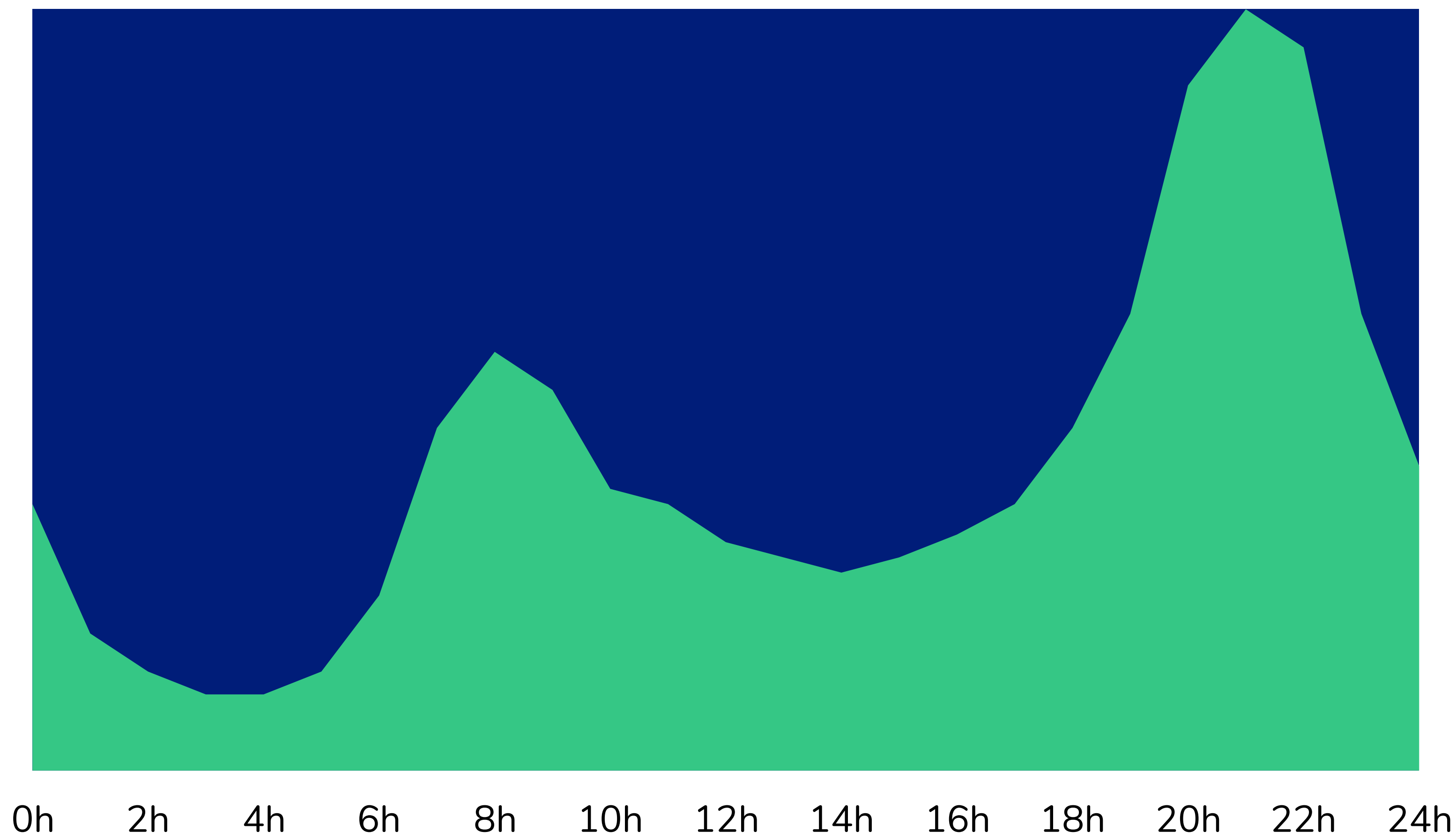


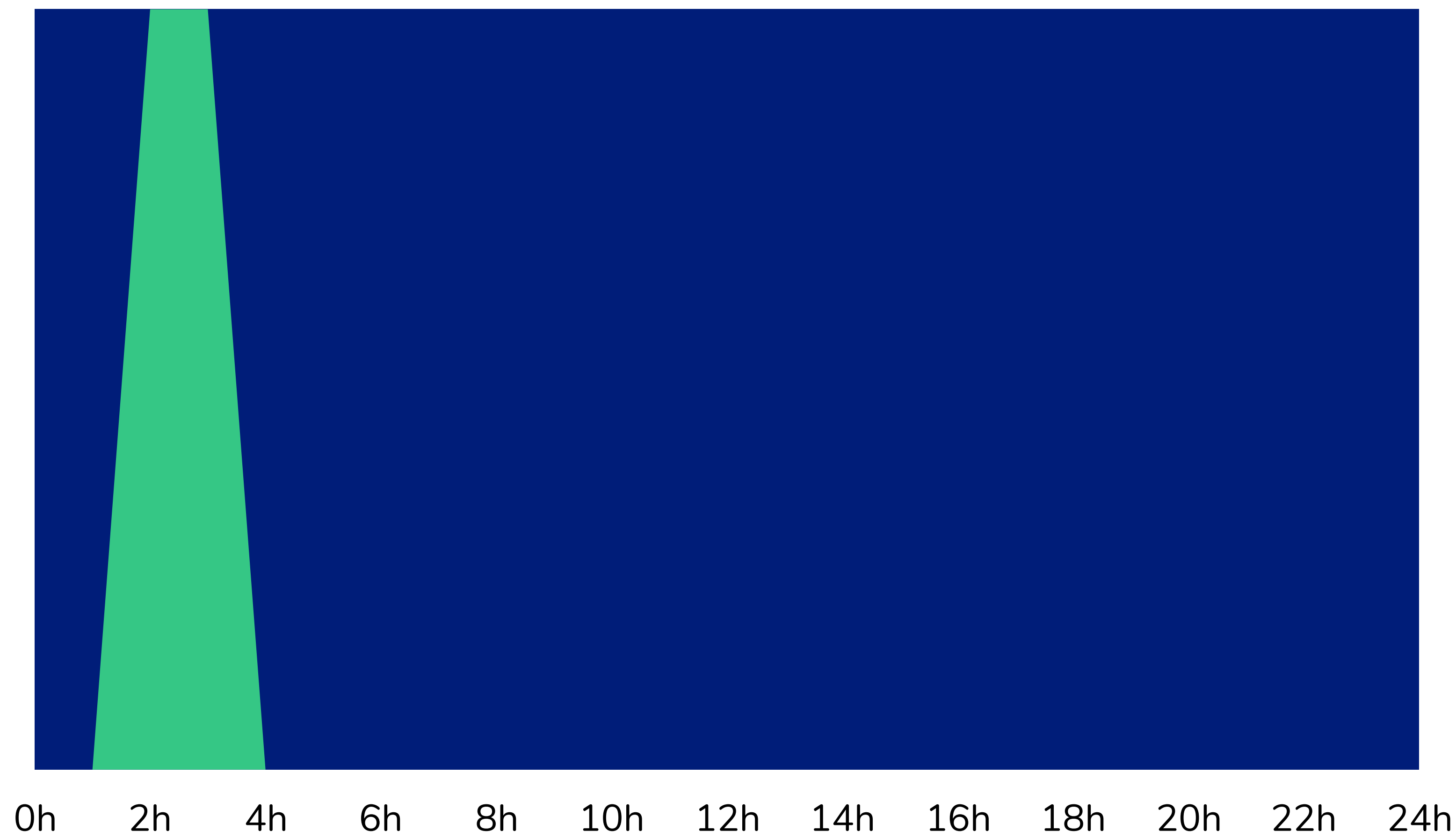
300ms

$$\$0.00000002 + 300 \times \$0.000000000208$$









Manage less

Scale more

Pay per use



PHP

brief

running PHP made simple

Everything you need to easily
deploy and run serverless PHP applications.

Choices

Documentation

Tools

3 "runtimes"

PHP function

```
<?php  
  
require __DIR__ . '/vendor/autoload.php';  
  
return function ($event) {  
    return 'Hello ' . $event['name'];  
};
```

HTTP

PHP-FPM

Console

```
$ bin/console doctrine:query:sql 'SELECT * FROM users'
```

```
...
```

```
$ vendor/bin/bref cli function-name -- doctrine:query:sql 'SELECT * FROM users'
```

```
...
```

Serverless framework

serverless.com

serverless.yml

```
service: myapp

provider:
  name: aws

functions:

  api:
    handler: public/index.php
    # PHP runtime:
    runtime: provided
    layers:
      - ${bref:layer.php-73-fpm}
    # HTTP events
    events:
      - http: 'ANY /'
      - http: 'ANY /{proxy+}'
```

```
$ composer require bref/bref
```

```
$ vendor/bin/bref init
```

Deployment

```
$ composer install -o --no-dev
```

```
...
```

```
$ serverless deploy
```

```
...
```

```
Service deployed
```

```
endpoints:
```

```
  ANY - https://fd8t9cbq6l.execute-api.us-east-1.amazonaws.com/dev
```

```
...
```

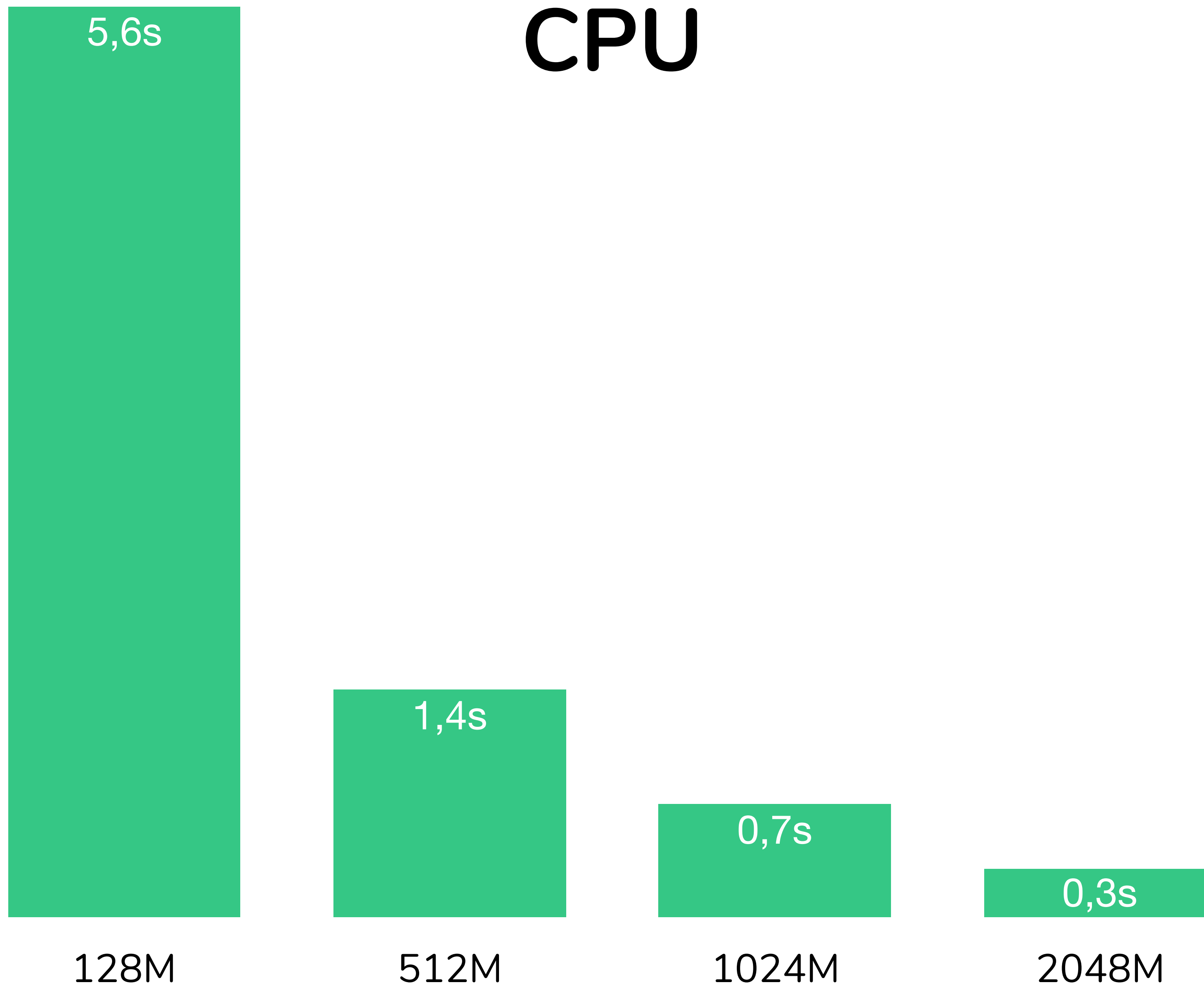
Symfony

Laravel

...

Performances

CPU

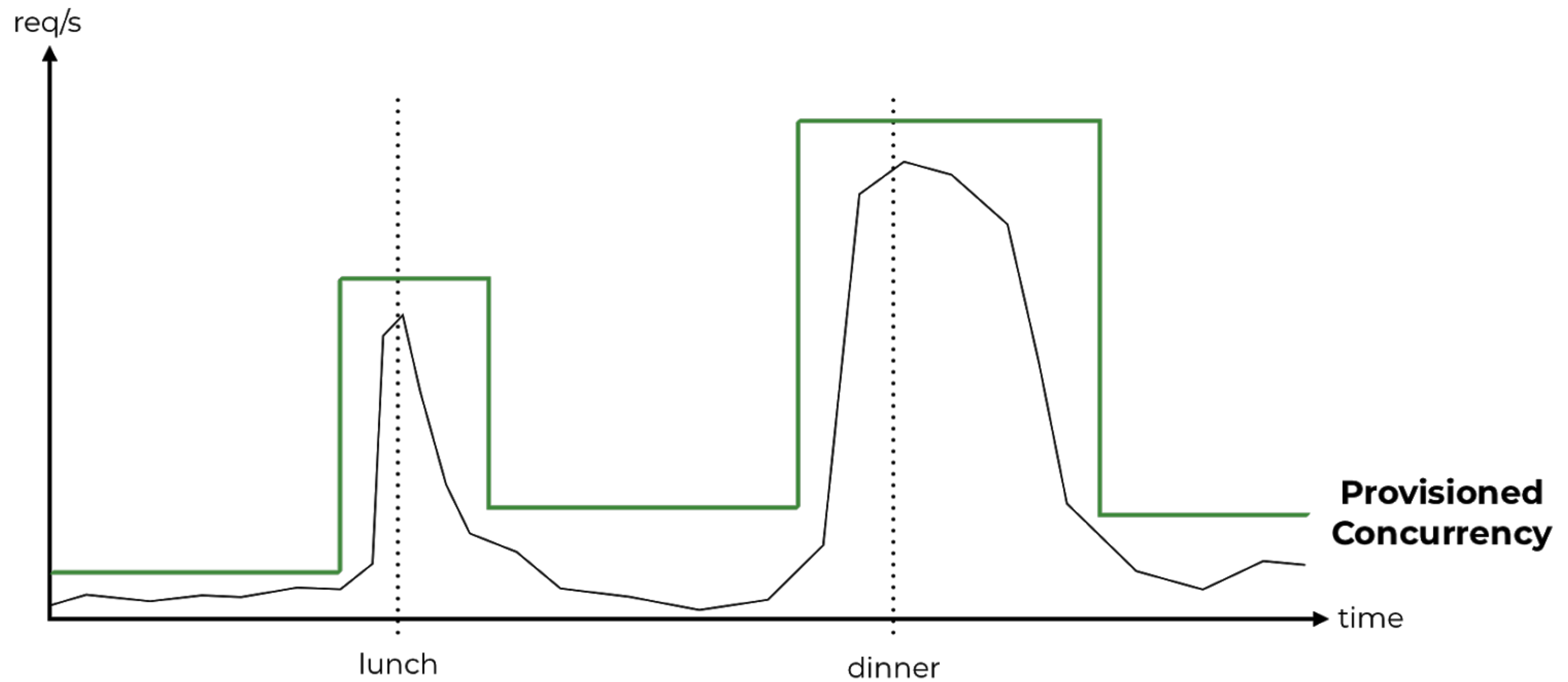


Response time

	PHP "hello world"	Symfony "hello world"
128M	10ms	58ms
512M	1ms	4ms
1024M	1ms	4ms
2048M	1ms	4ms

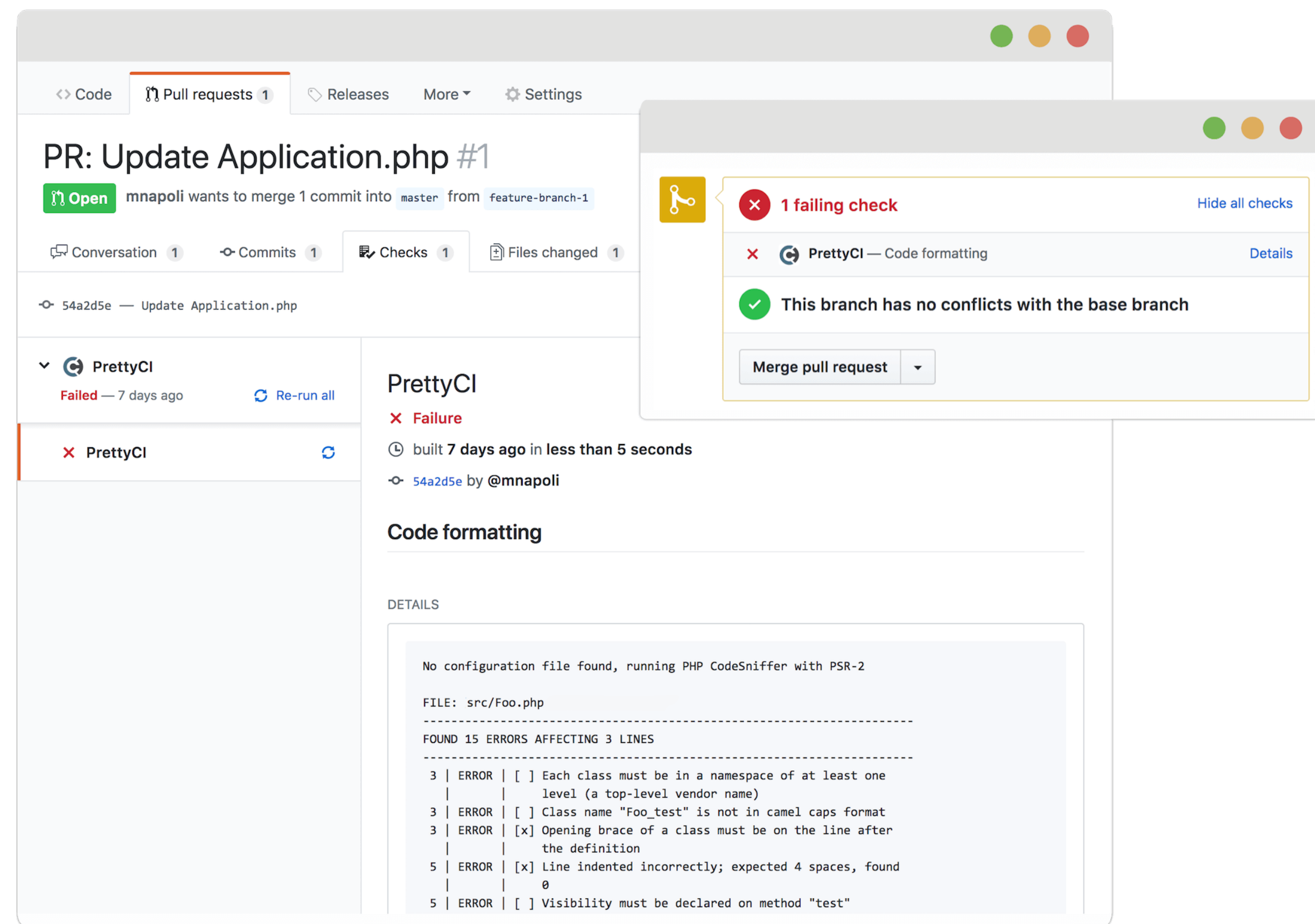
Cold starts

Python	Node	Go	PHP	Java	C#
200ms	200ms	250ms	250ms	400ms	600ms



Avoiding cold starts

Case studies



PrettyCI

prettyci.com

- Laravel, GitHub API
- "Function" runtime
- DigitalOcean -> Lambda



2 approving reviews

[Show all reviewers](#)



4 pending and 1 successful checks

[Hide all checks](#)



continuous-integration/appveyor/branch Pending — Waiting for AppVeyor ...

[Details](#)



continuous-integration/appveyor/pr Pending — Waiting for AppVeyor build ...

[Details](#)



continuous-integration/travis-ci/pr Pending — The Travis CI build is in prog...

[Details](#)



continuous-integration/travis-ci/push Pending — The Travis CI build is in p...

[Details](#)



PrettyCI — Code formatting

[Details](#)



This branch has no conflicts with the base branch



built 7 days ago in less than 5 seconds

#externals

Opening PHP's #internals to the outside.

Search with  algolia

Search...



Adding return types to internal methods (PHP 8)

⌚ 4 hours ago 👤 Nikita Popov 💬 1



P++: FAQ

⌚ 1 day ago 👤 Zeev Suraski 💬 24



Call for participation: Annotating internal function argument and return types

⌚ 1 day ago 👤 Nikita Popov 💬 8

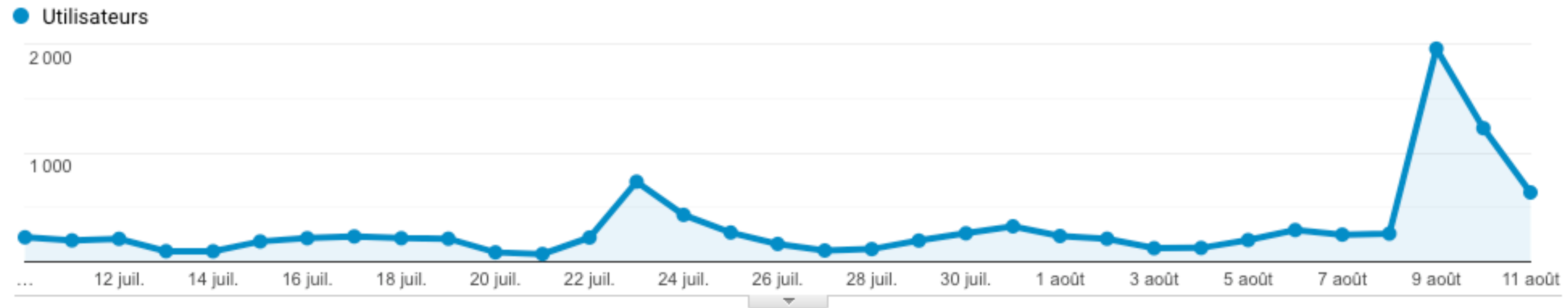


Bringing Peace to the Galaxy

⌚ 2 days ago 👤 Zeev Suraski 💬 44

externals.io

- Website (55ms) + cron
- HTTP runtime + Function runtime
- Custom framework, MySQL
- 100,000 requests/month
- 50\$/month -> \$17/month



\$0.04

- 100k r/month -> 2 million r/month
- 17\$/month -> \$39/month

Professionnels, économisez du temps et de l'argent sur vos factures énergétiques

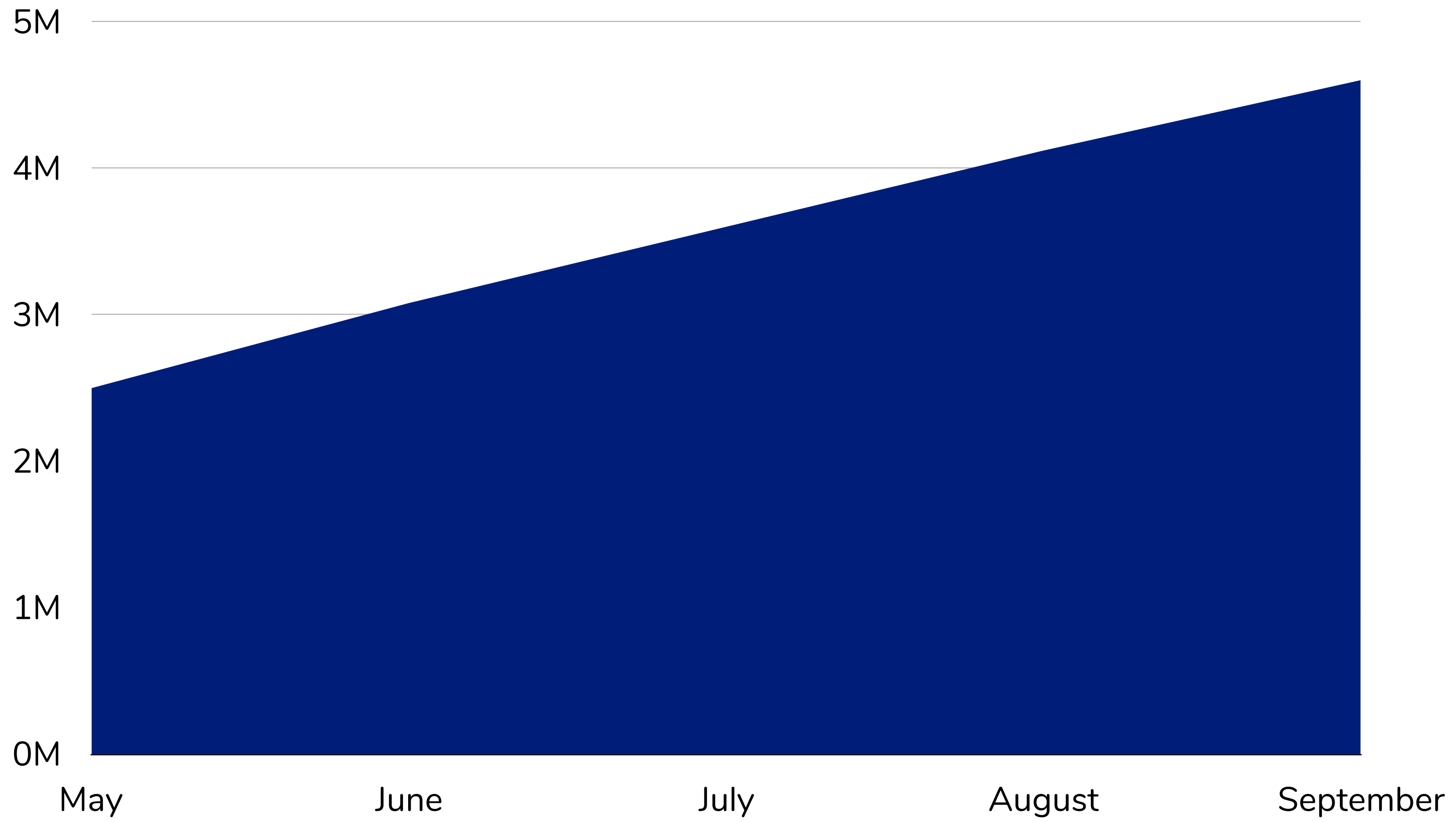
Enoptea, la solution pour la gestion de vos coûts énergétiques

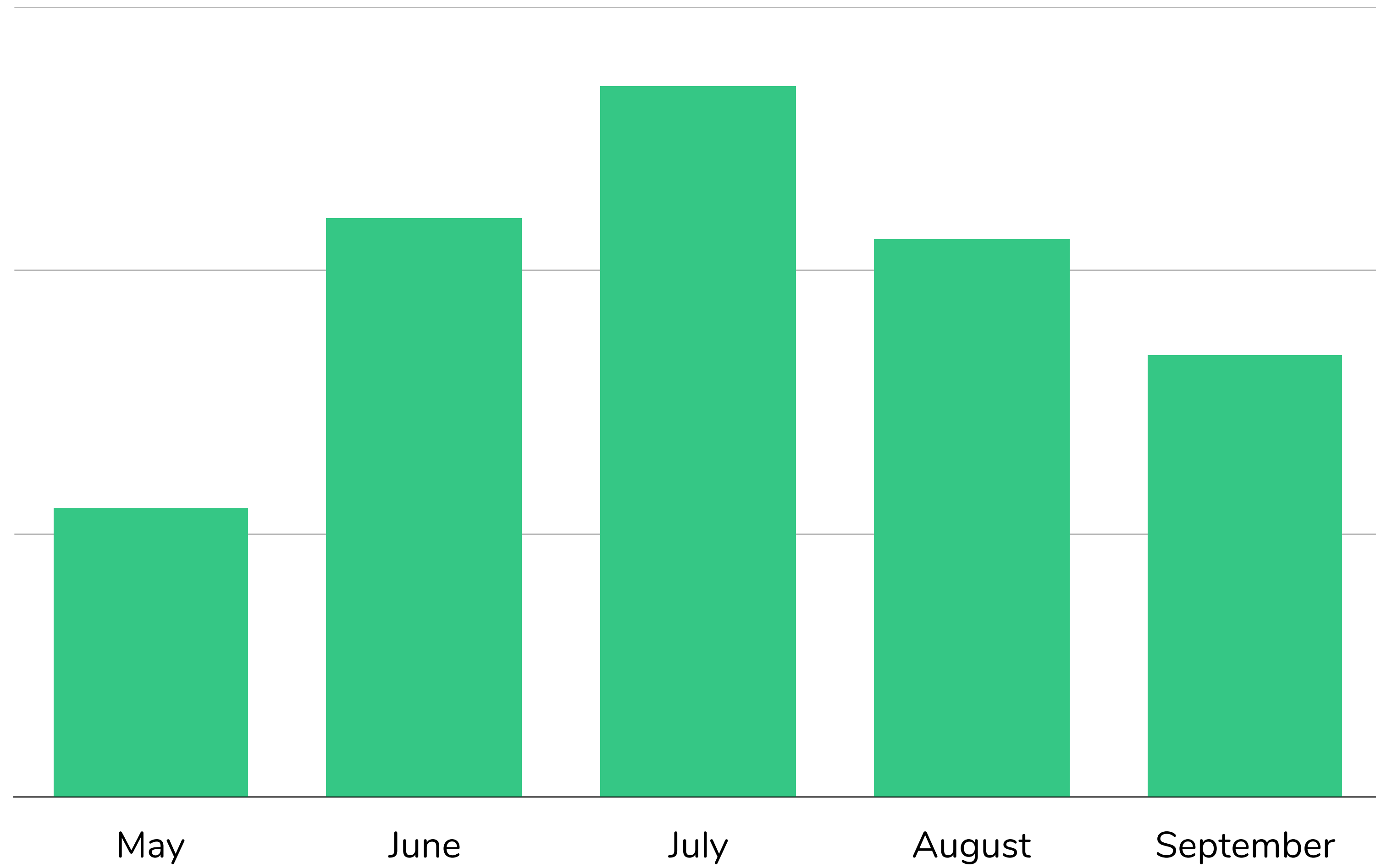
DÉCOUVRIR NOTRE SOLUTION

Enoptea

enoptea.fr

170k jobs/day





\$800 -> \$90



UPLOAD

CADASTRE-SE

ou ENTRAR

ESTILOS MUSICAIS ▾

MAIS BAIXADOS ▾

NOTÍCIAS ▾

FEED

🌐 Ei, cade você

LANÇAMENTOS EM DESTAQUE





TV SUA MÚSICA

VER OUTROS



 INSCREVA-SE NO TV SUA MÚSICA

TENHA O SUA MÚSICA NO SEU SMARTPHONE ANDROID OU IOS  

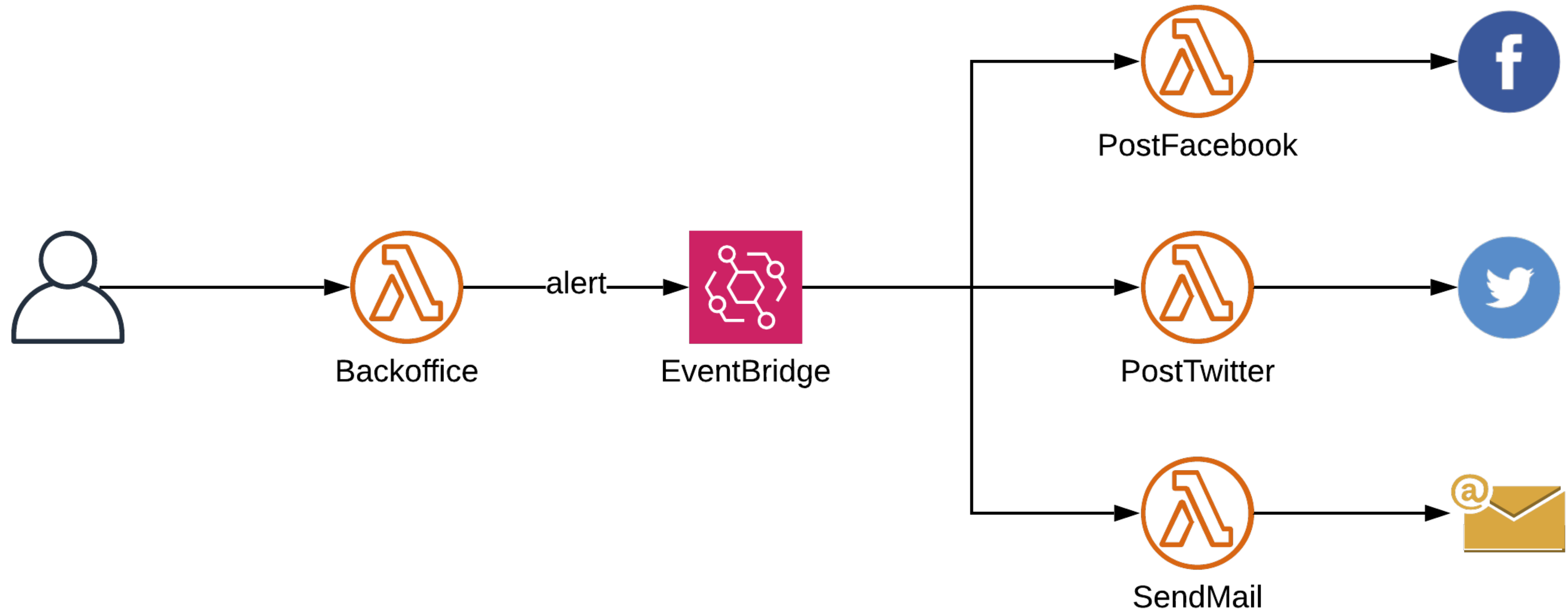


Sua Música

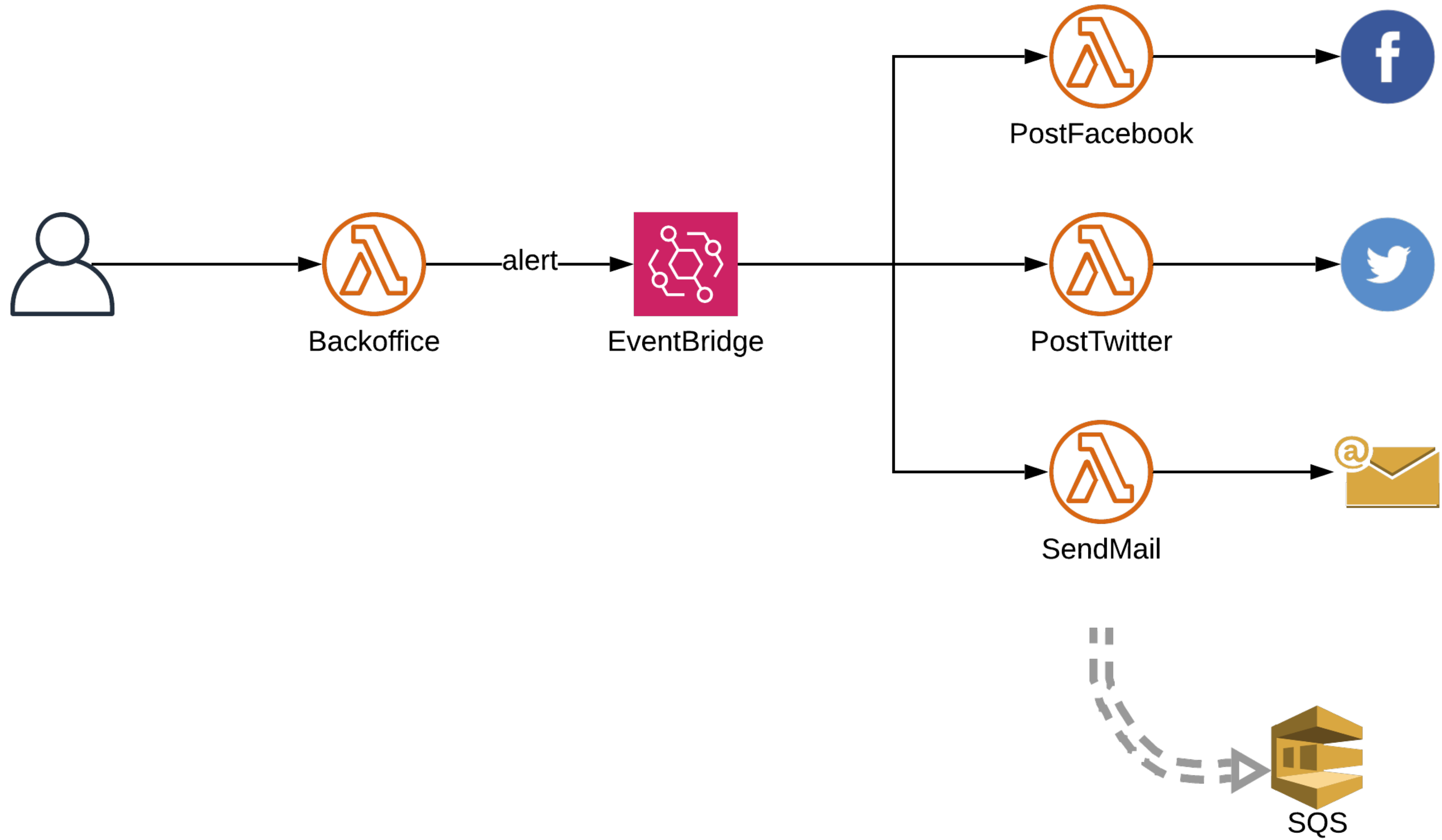
suamusica.com.br

- API (90ms) + website (130ms)
- Phalcon, MySQL
- 40M requests/day (Alexa's top 3000)
- 2500 concurrent lambdas
- ECS (EC2) -> Lambda: 25% savings

Project X



Fan-out



?

is
the future
serverless?

is
PHP's future
serverless?

try!

learn!

share!

@matthieunapoli

brief.sh

null

serverless-php.news