

Serverless & PHP

Where did the server go?

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github.com/mnapoli

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null

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

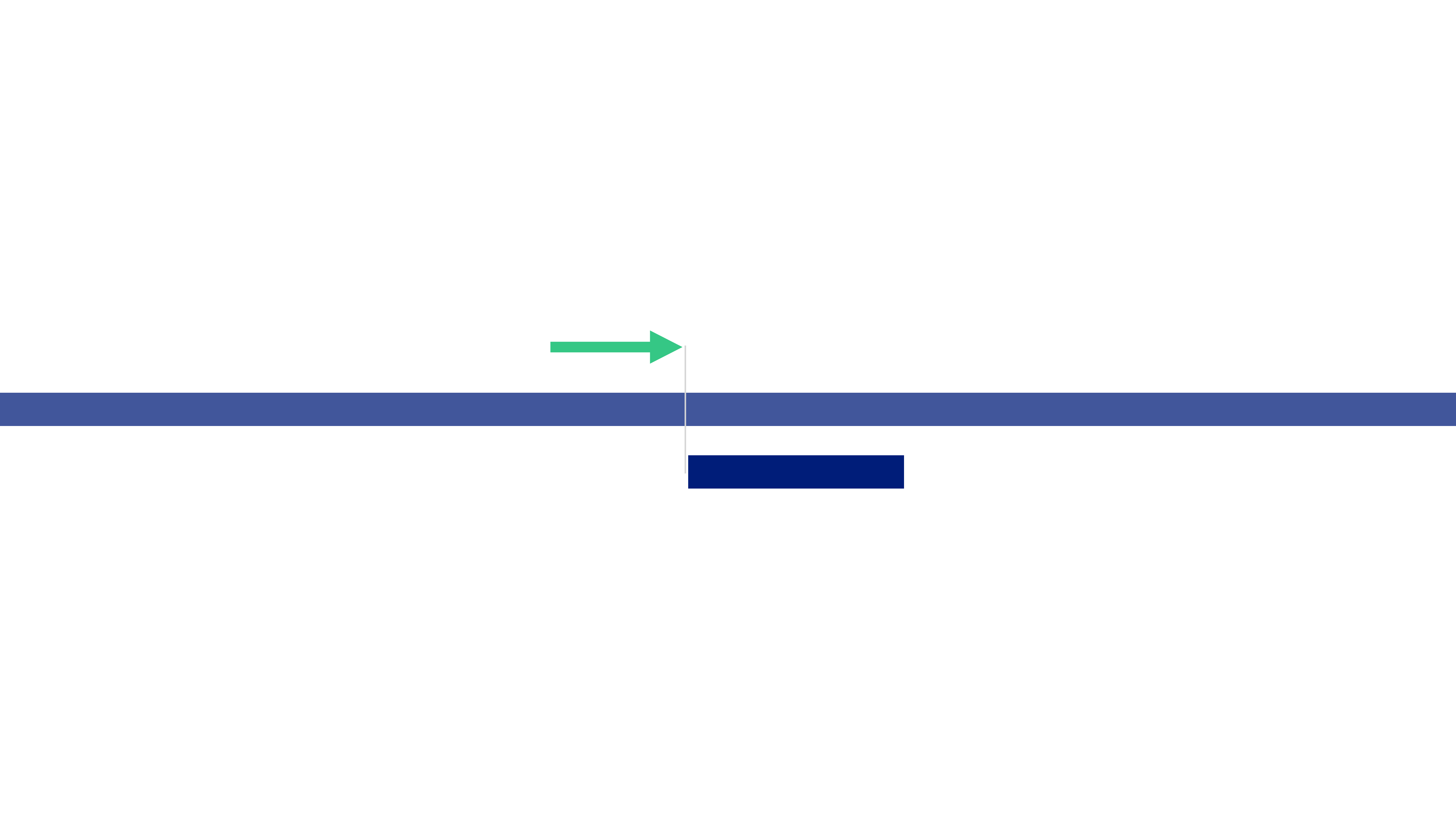
Python

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

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

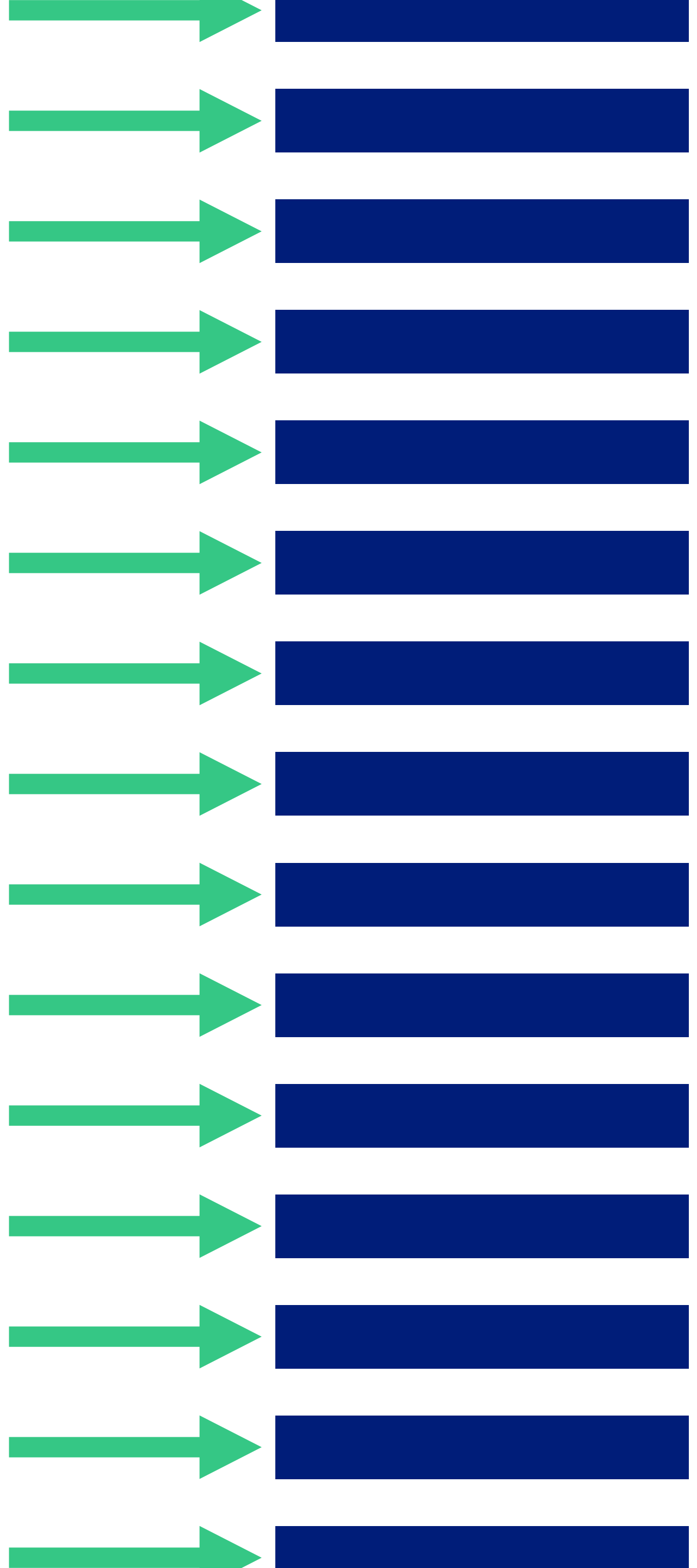
JavaScript

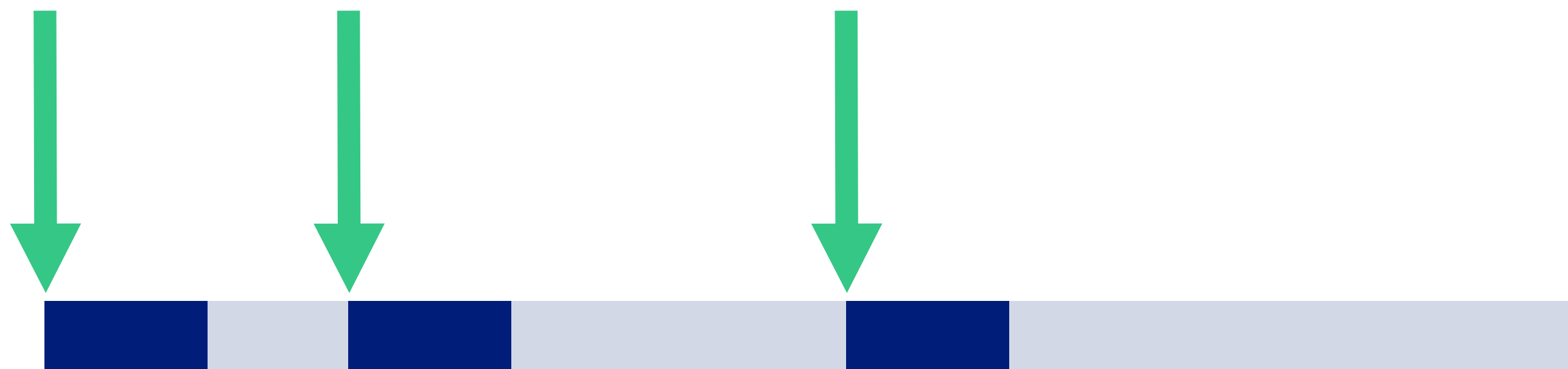








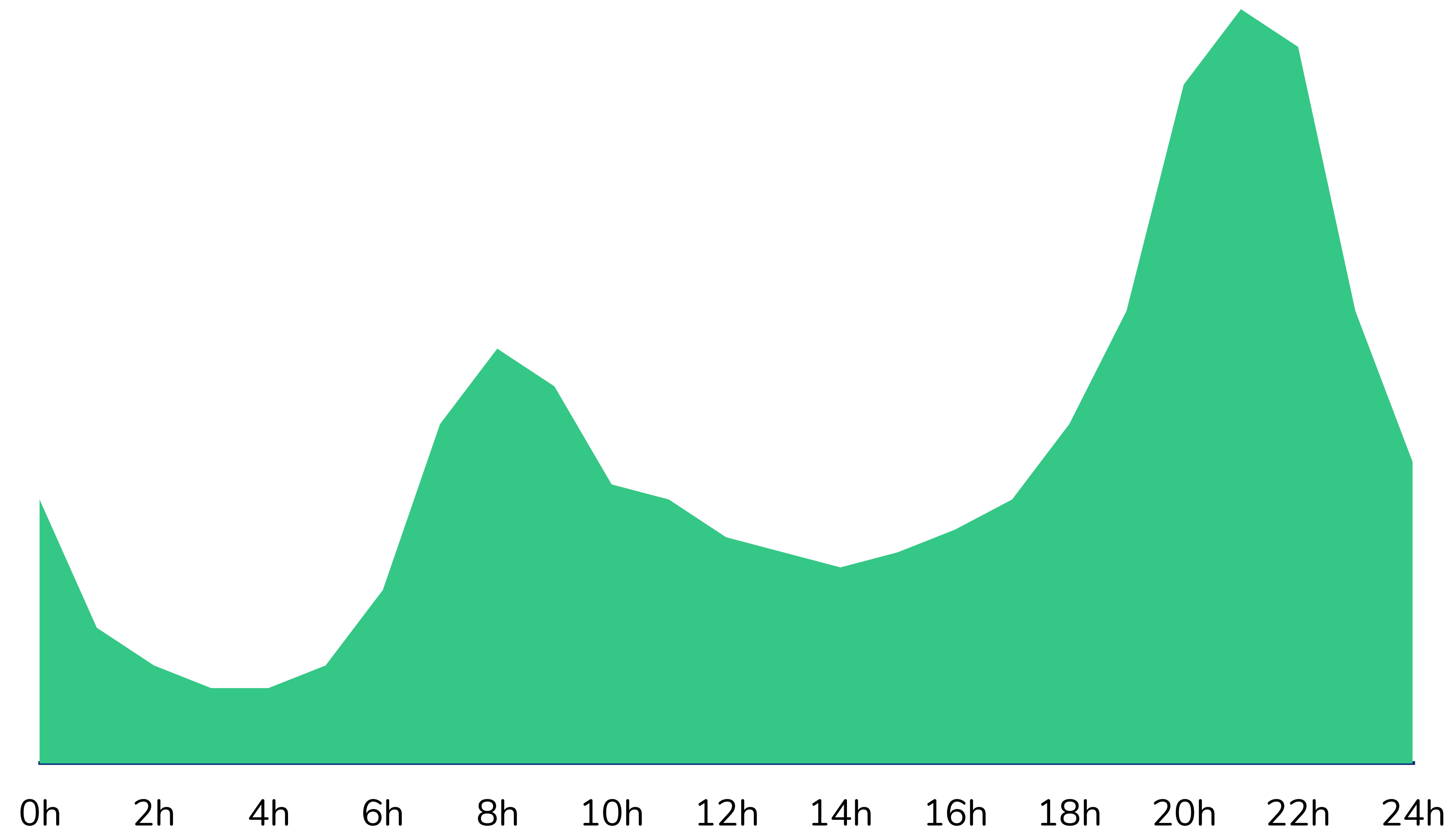


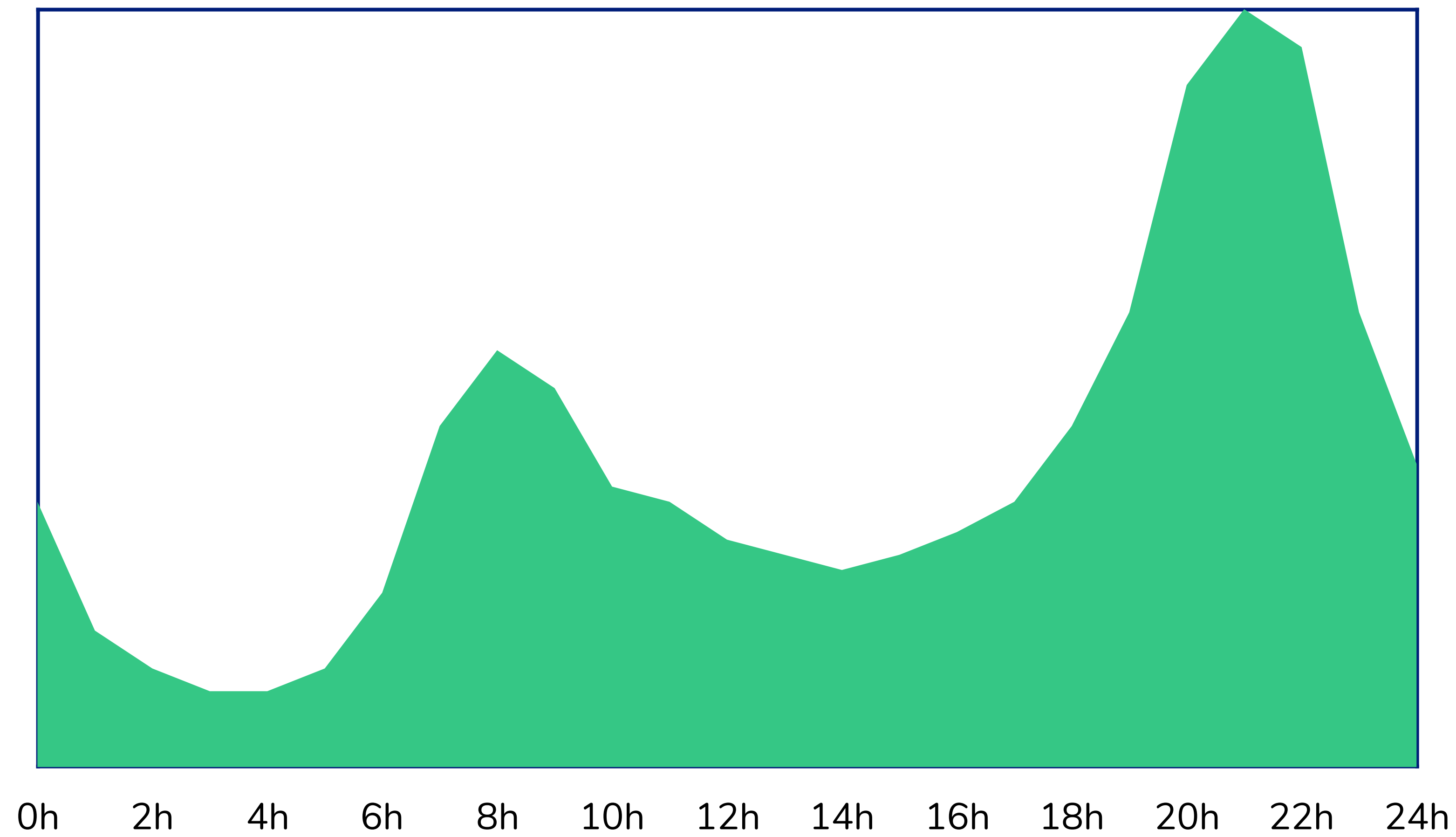


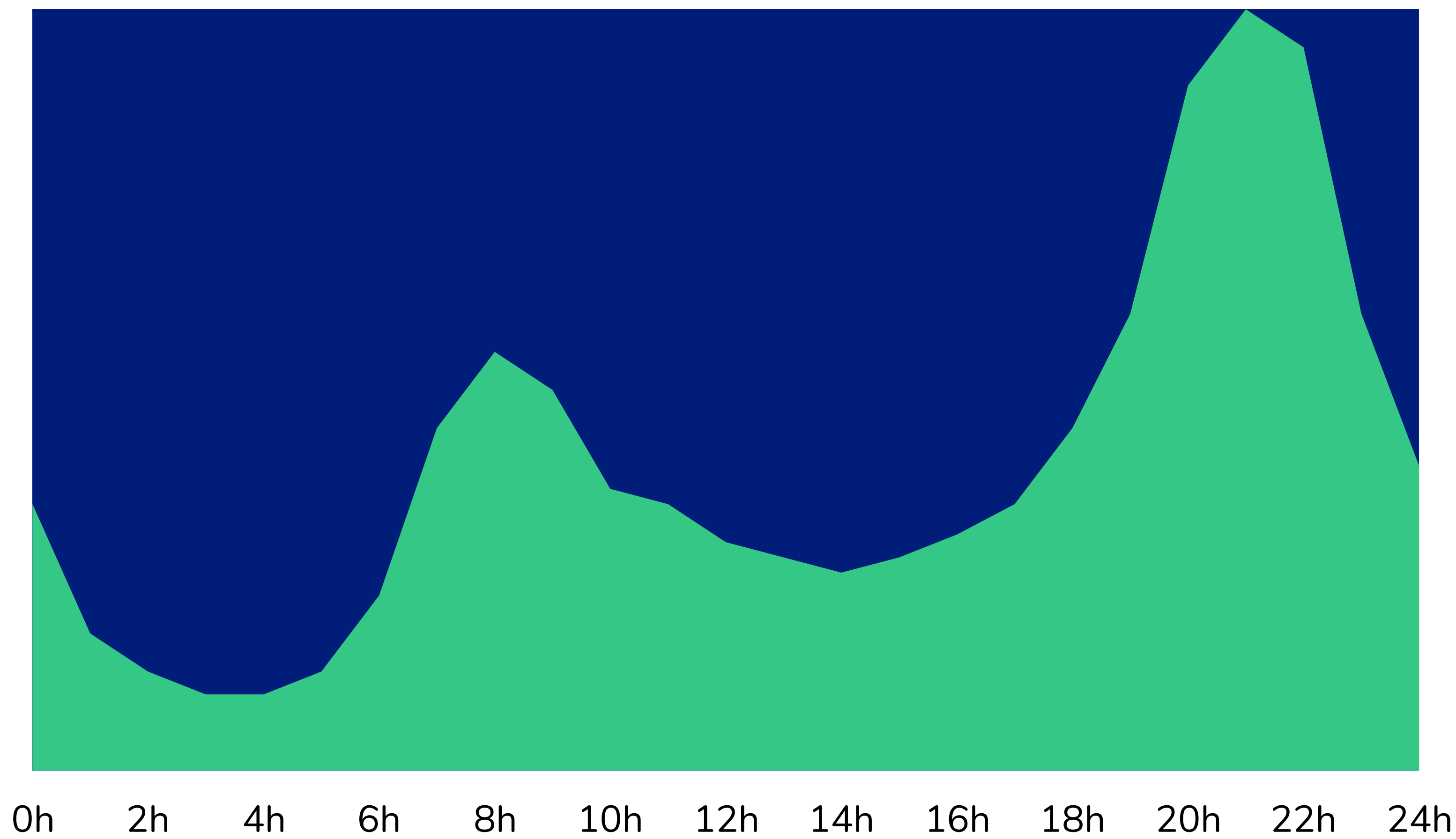


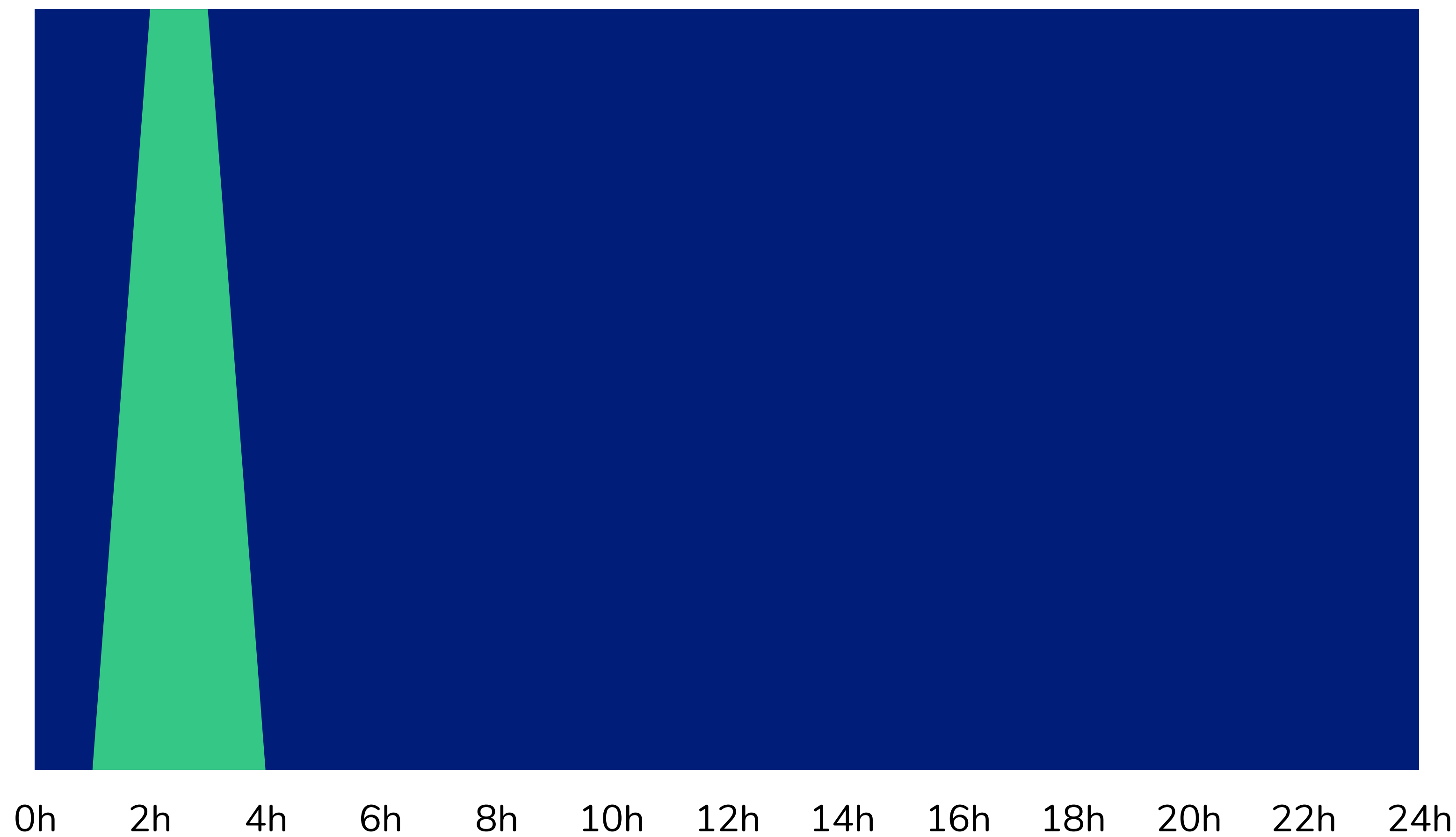
300ms

$\$0.0000002 + 3 \times \0.000000208









Manage less

Scale more

Pay per use



PHP

Bref

bref.sh

Choices

Documentation

Tools

3 "runtimes"

PHP function

```
<?php
```

```
require __DIR__ . '/vendor/autoload.php';
```

```
lambda(function (array $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+}'
```

Deployment

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

```
...
```

```
$ serverless deploy
```

```
...
```

```
Service deployed
```

```
endpoints:
```

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

```
...
```

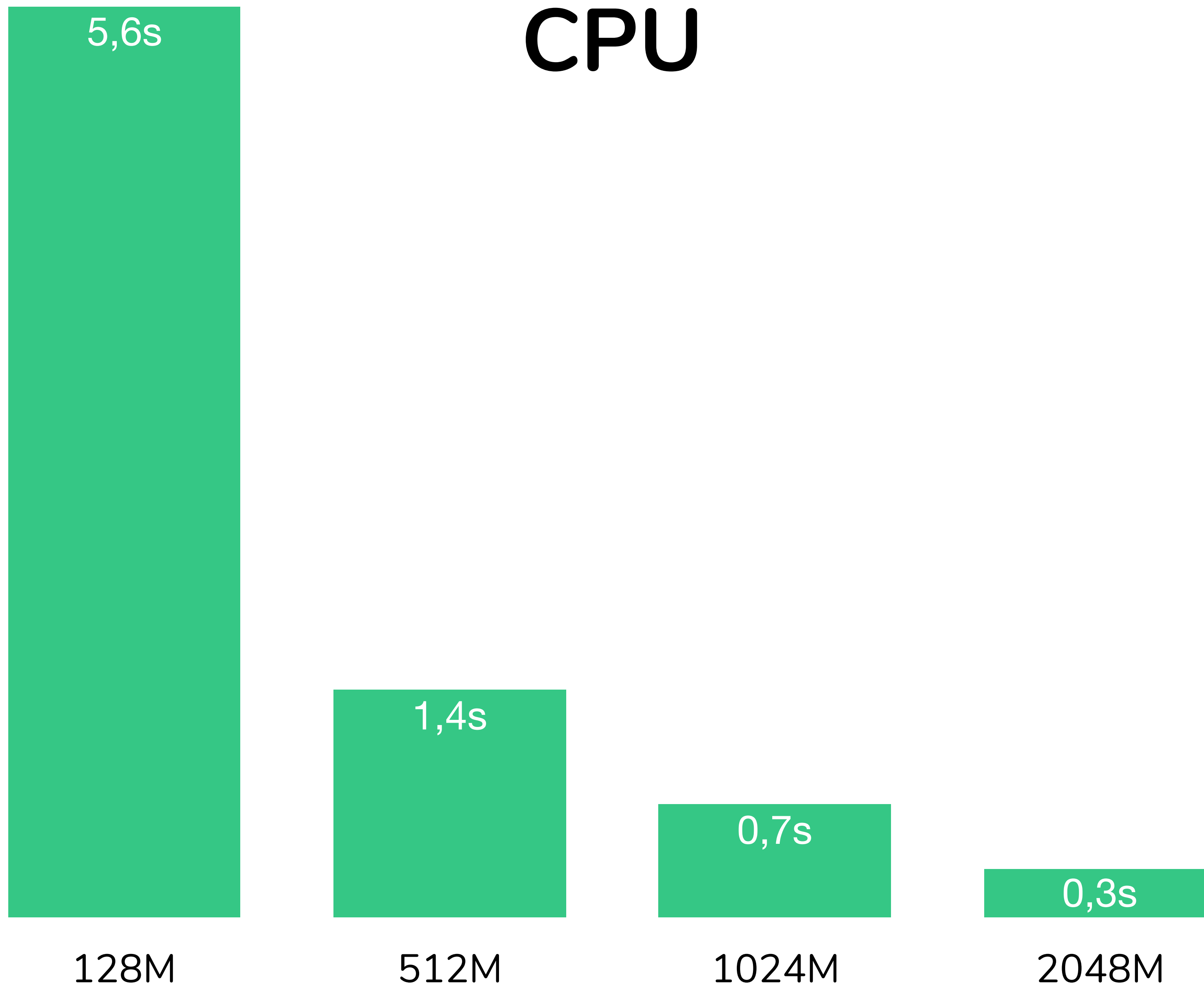

Symfony

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 |

Case studies

#externals

Opening PHP's #internals to the outside.

Search with  algolia**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**

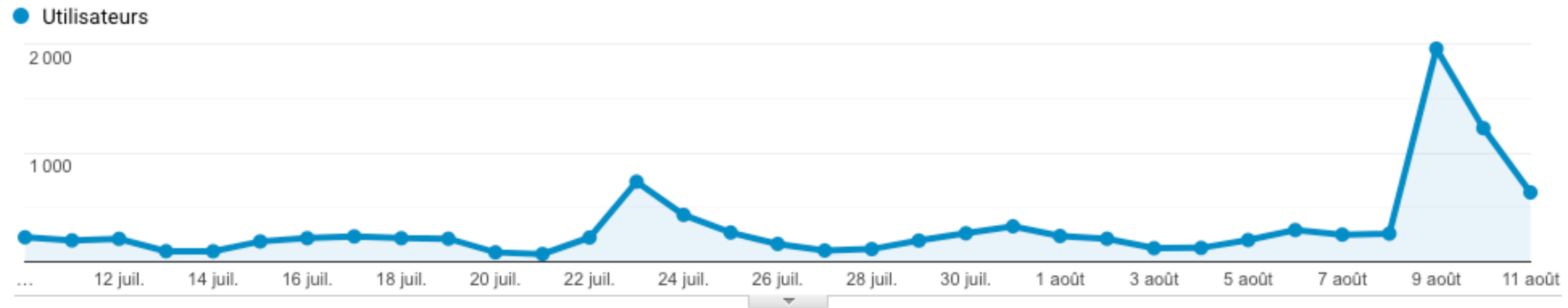
⌚ 1 day ago 👤 Nikita Popov 💬 8

**Bringing Peace to the Galaxy**

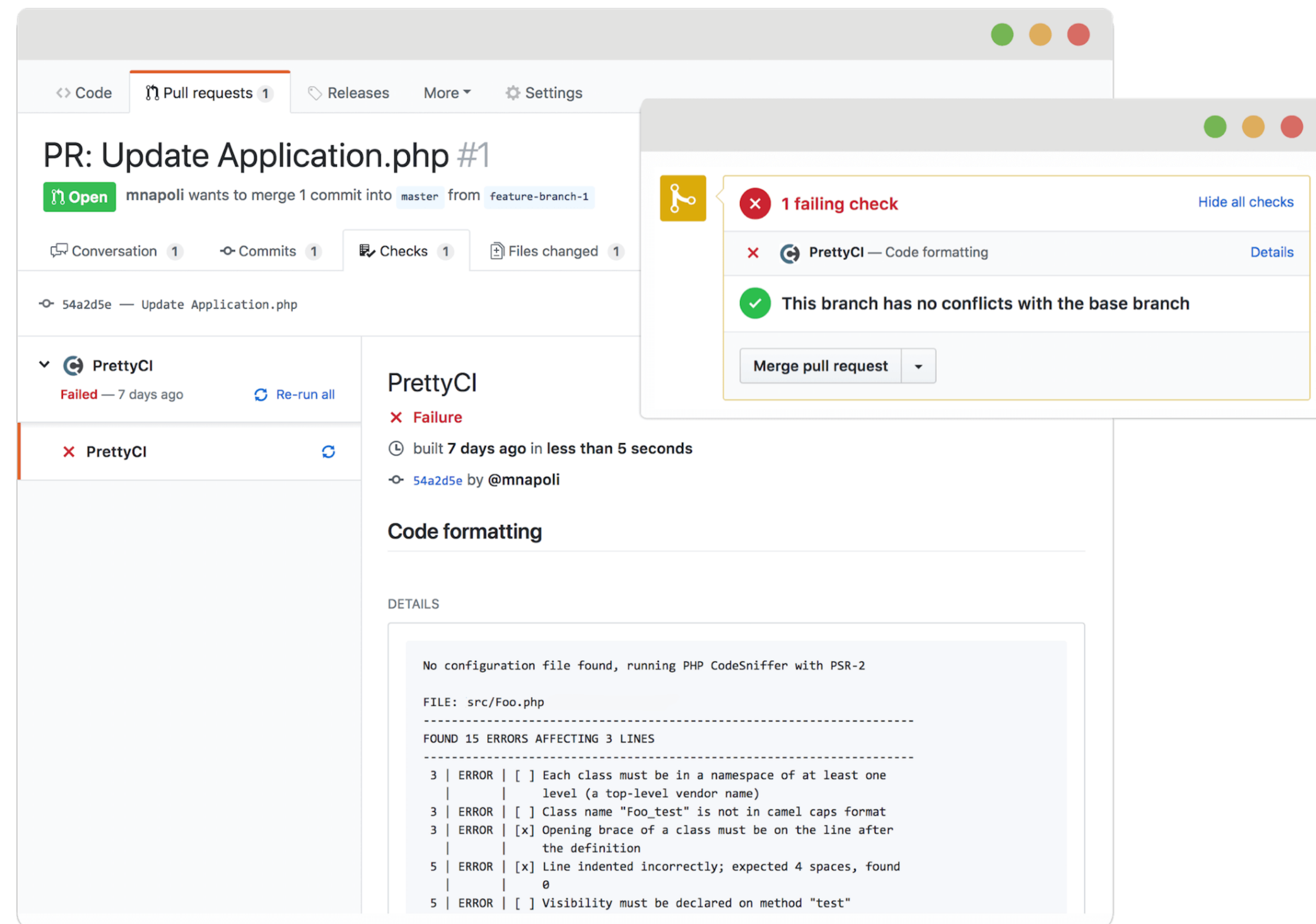
⌚ 2 days ago 👤 Zeev Suraski 💬 44

externals.io

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



\$0.04



PrettyCI

prettyci.com



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

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

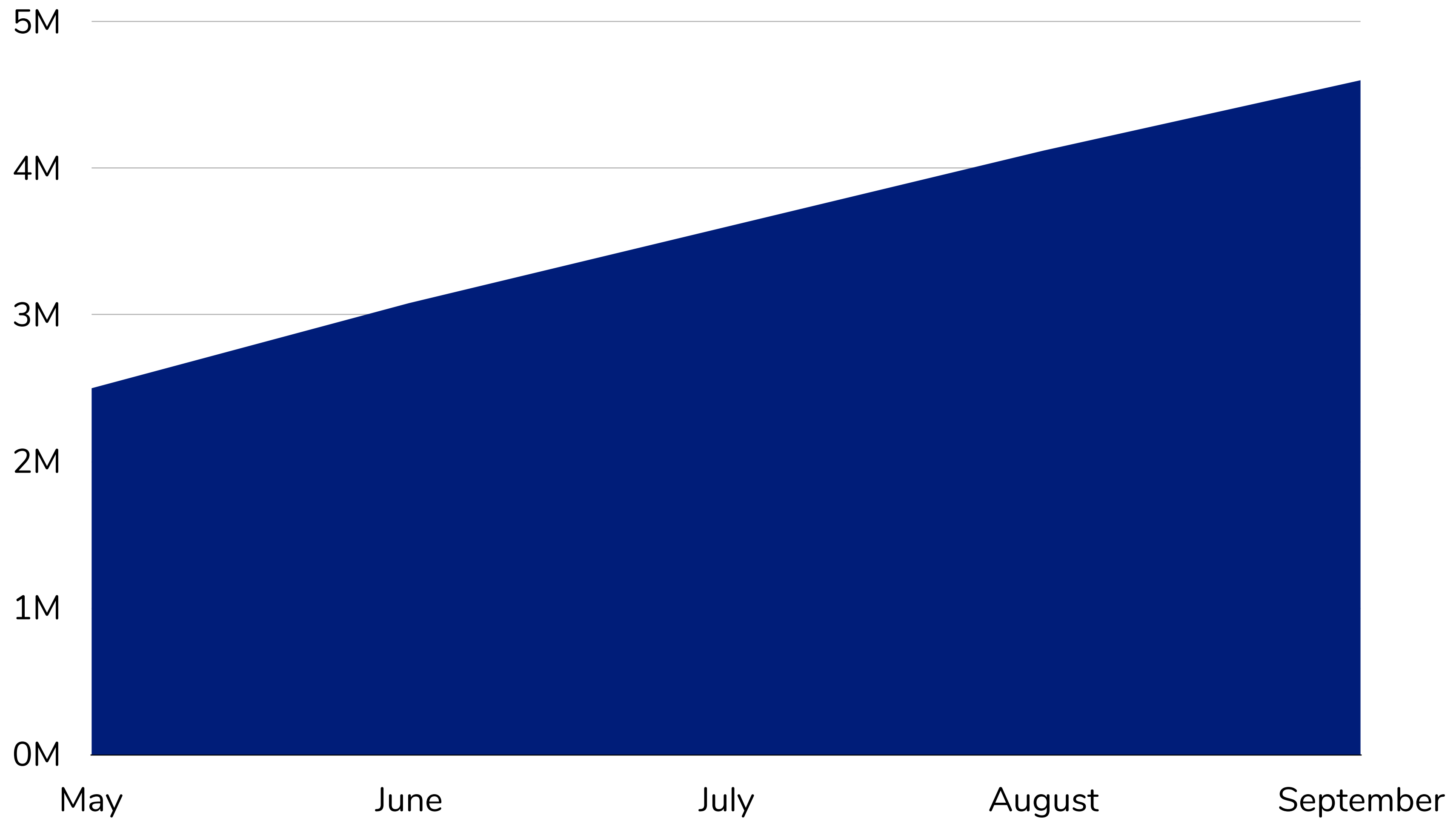
Enoptea, la solution pour la gestion de vos coûts énergétiques

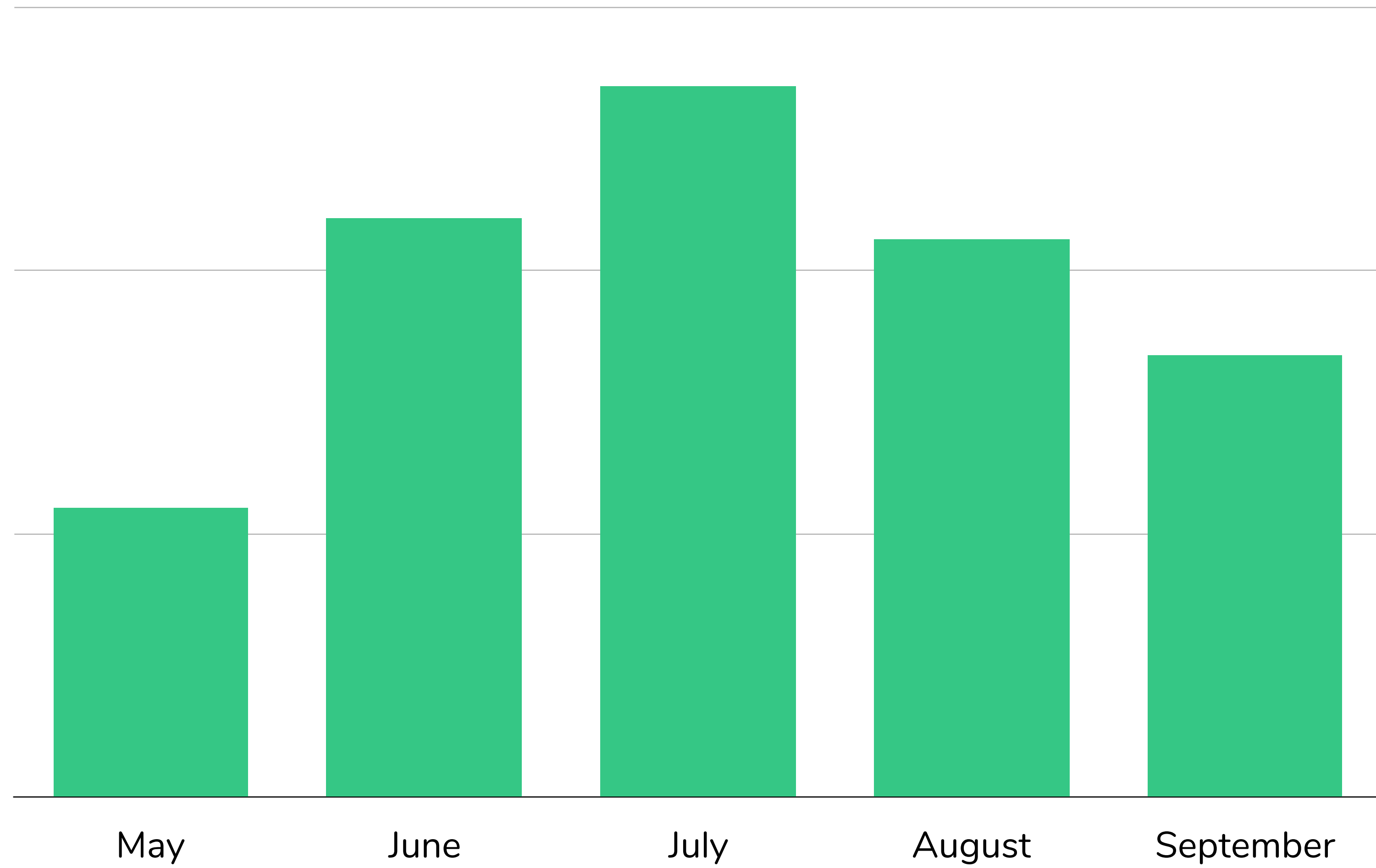
DÉCOUVRIR NOTRE SOLUTION

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

?

is
the future
serverless?

is
PHP's future
serverless?

try!

learn!

share!

@matthieunapoli

bref.sh

cost-calculator.bref.sh

serverless-php.news