



The future of Drupal Theming **API-first edition**

By Mathieu Spillebeen



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 @MathieuSpil

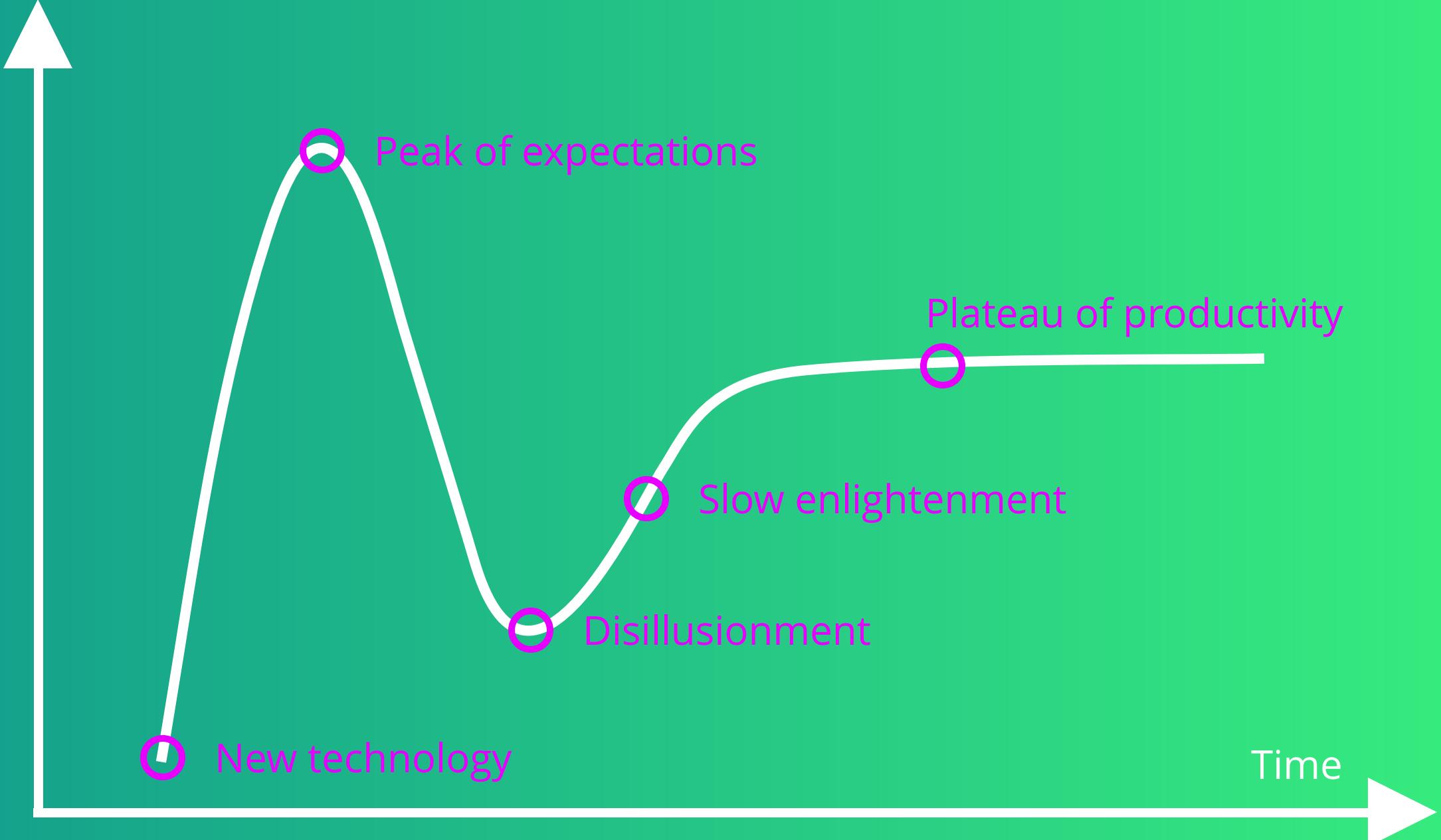




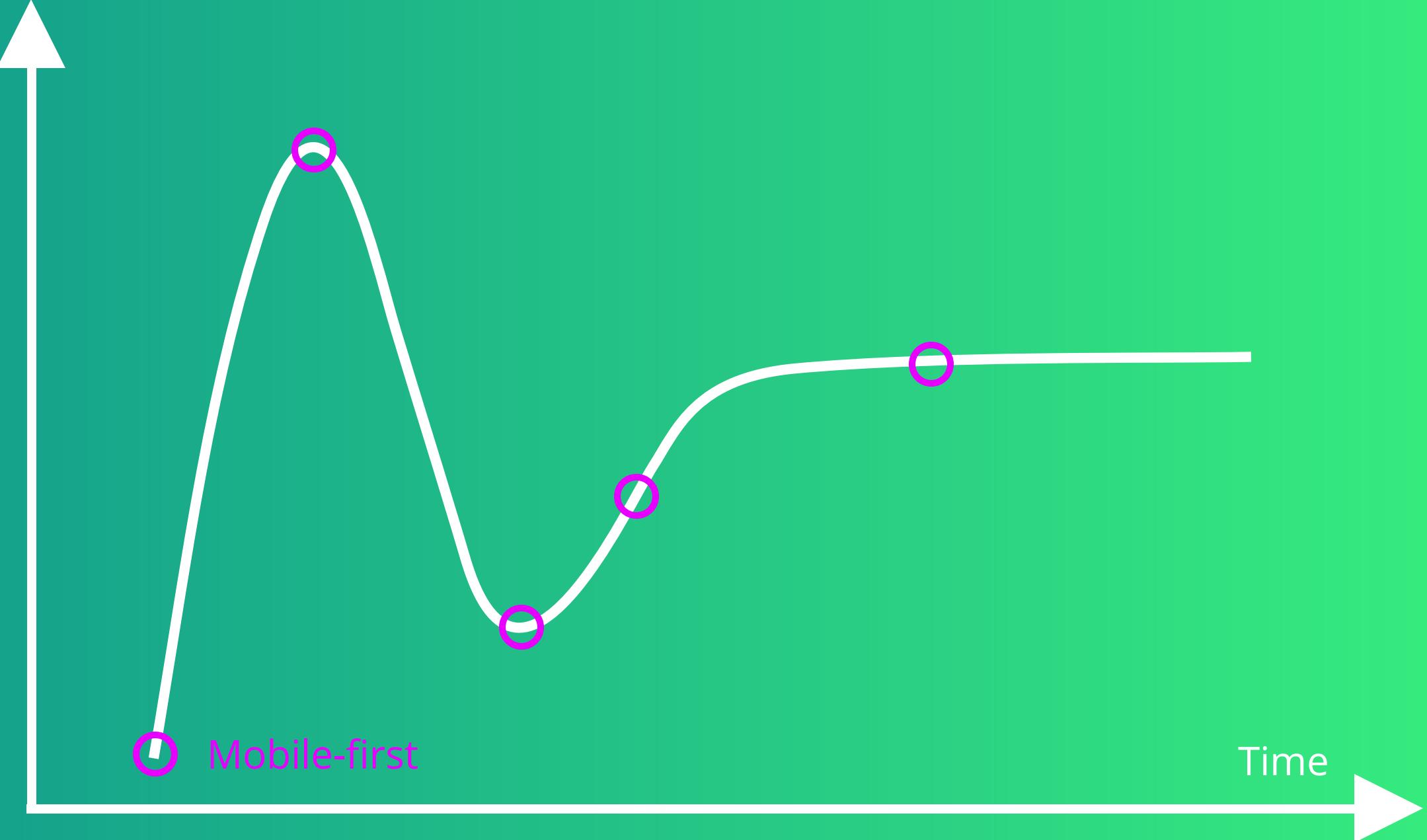
Contents

Making myself unpopular
Hopefully fixing it again

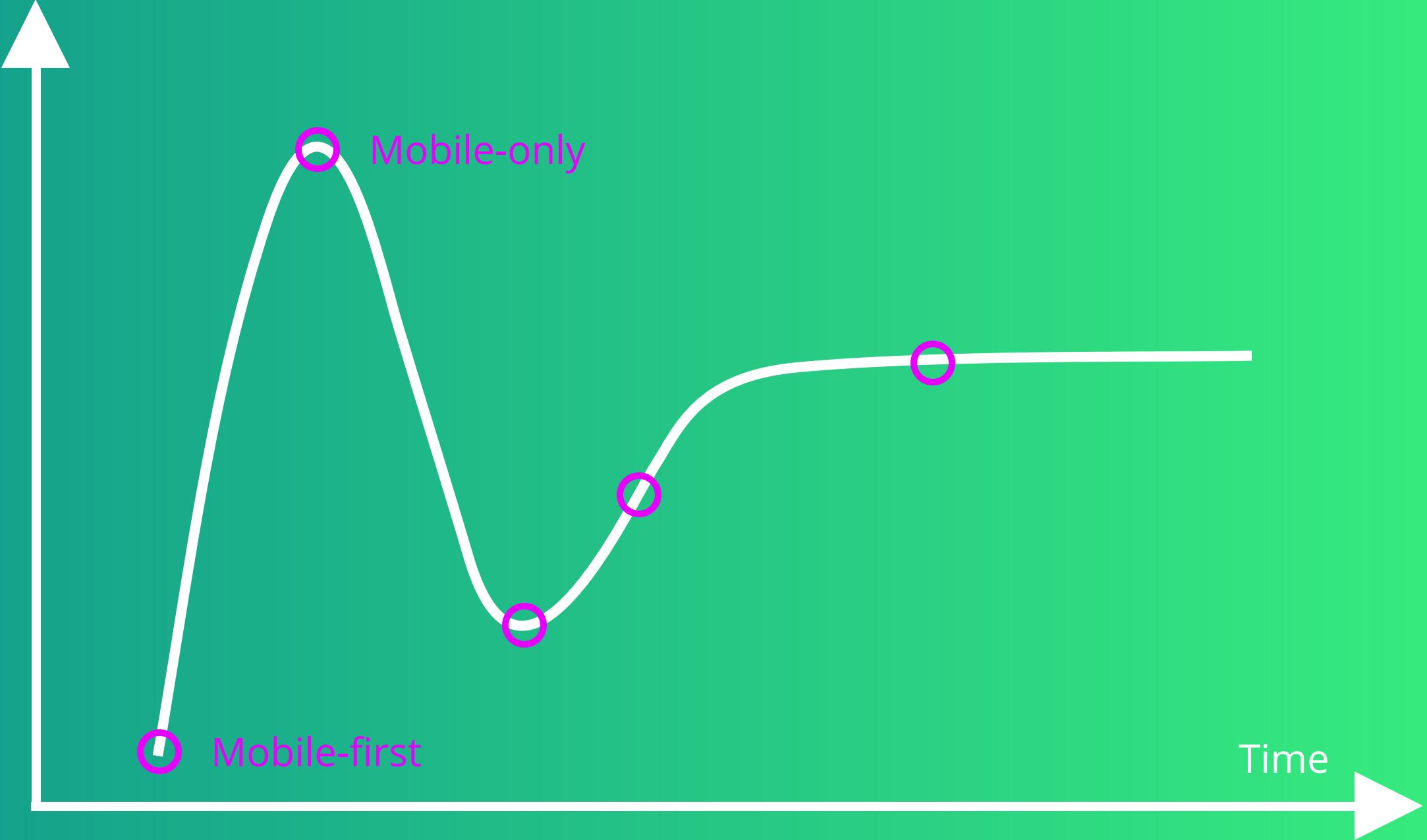
Expectations



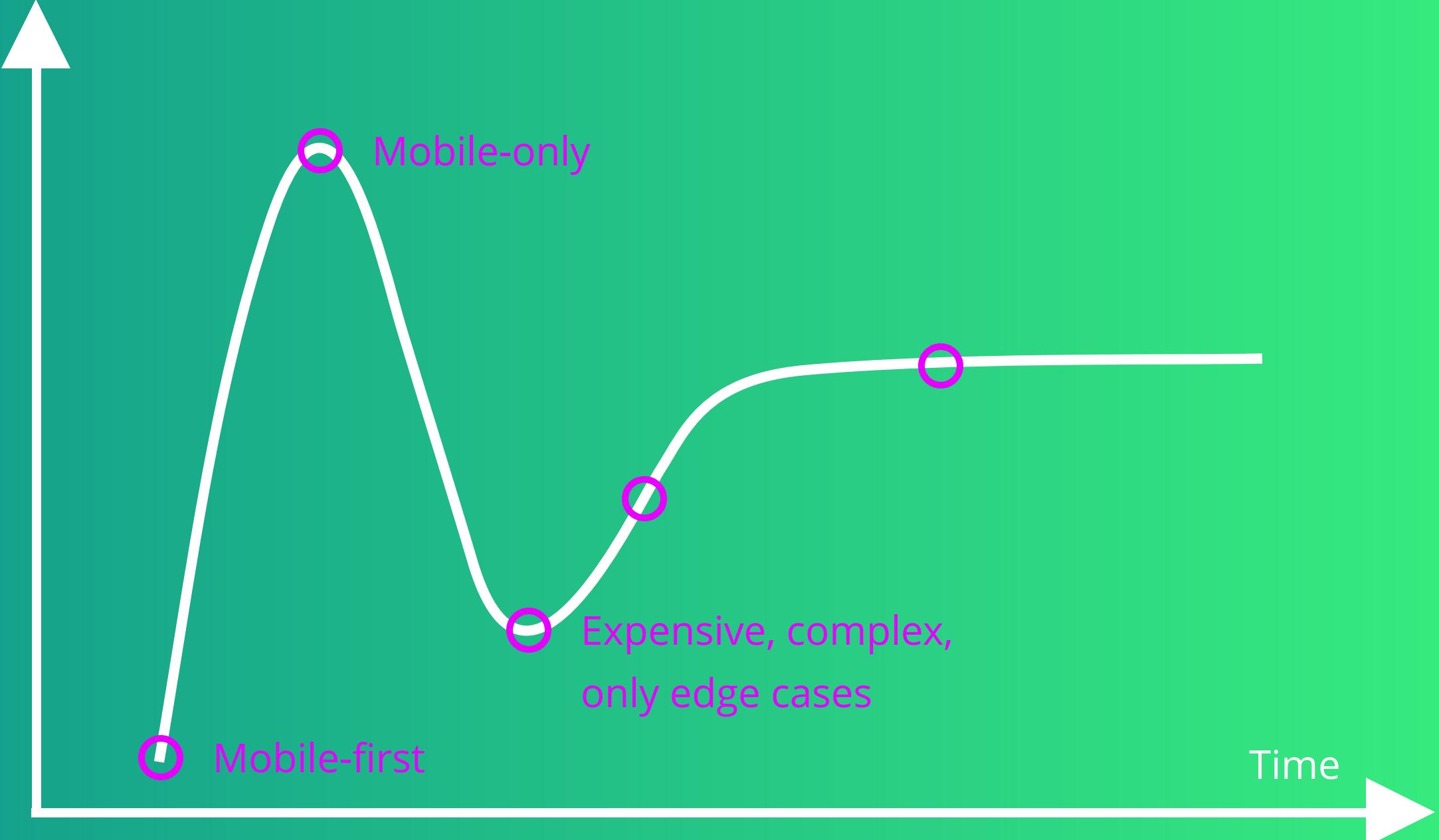
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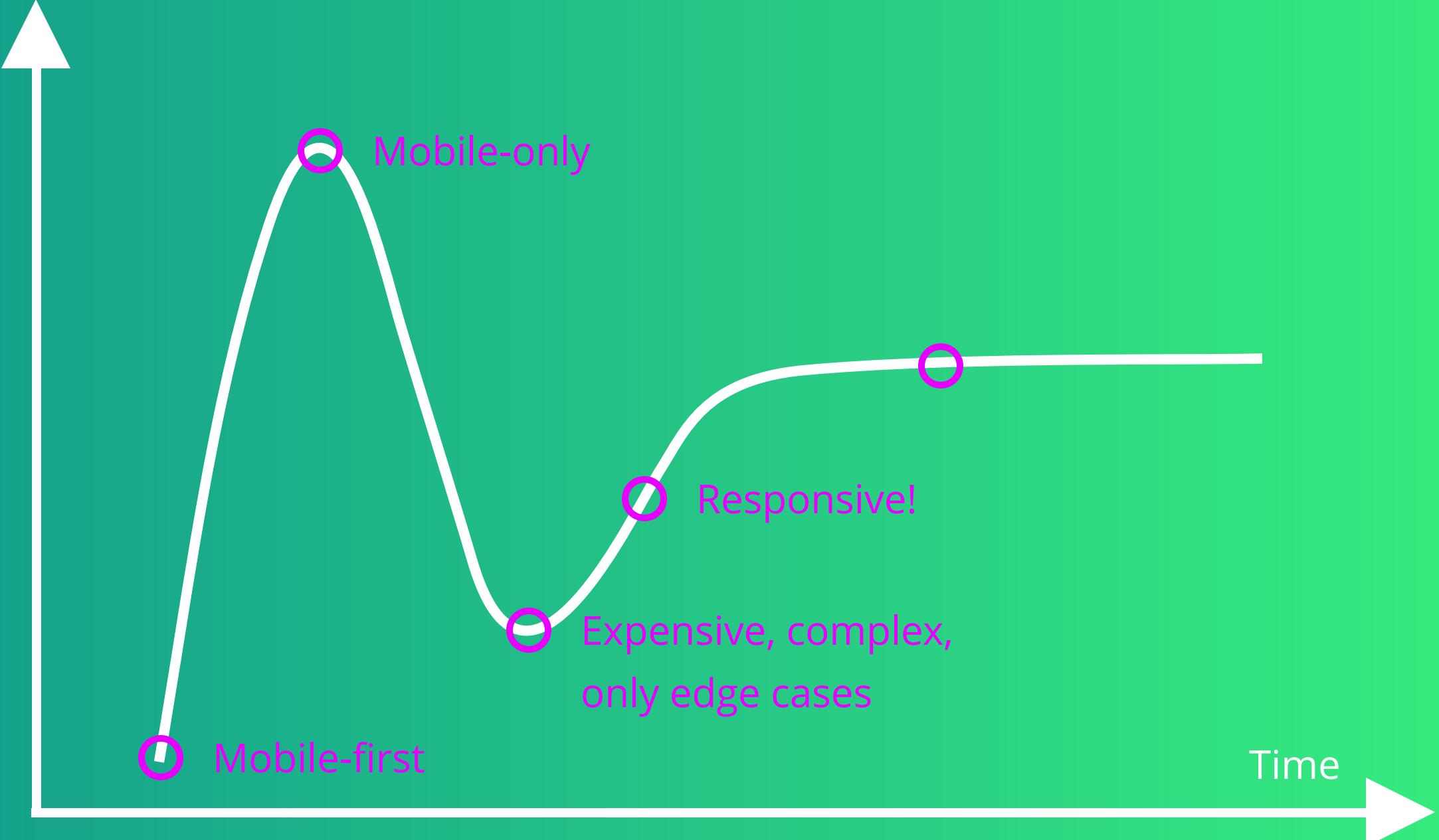
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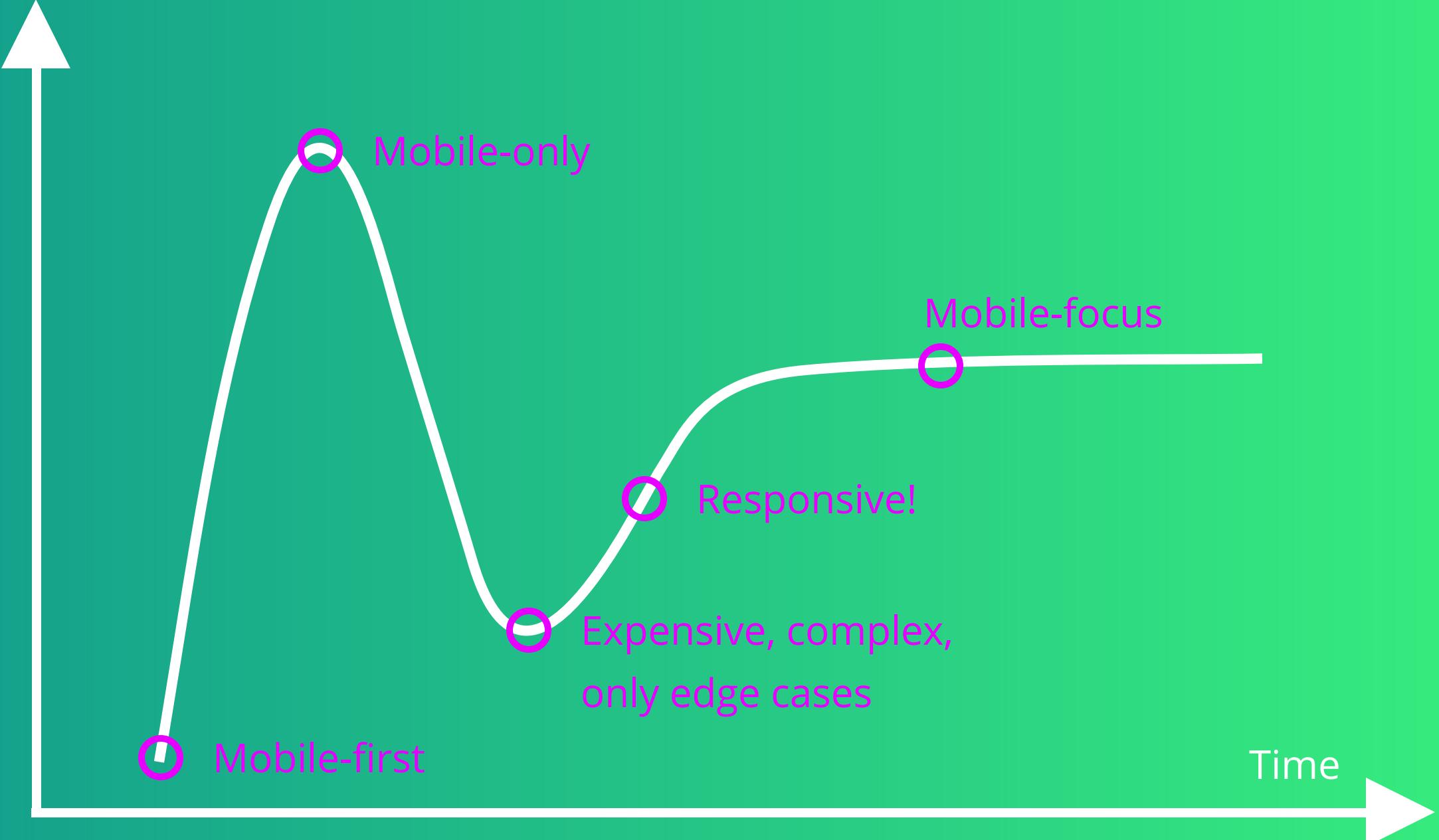
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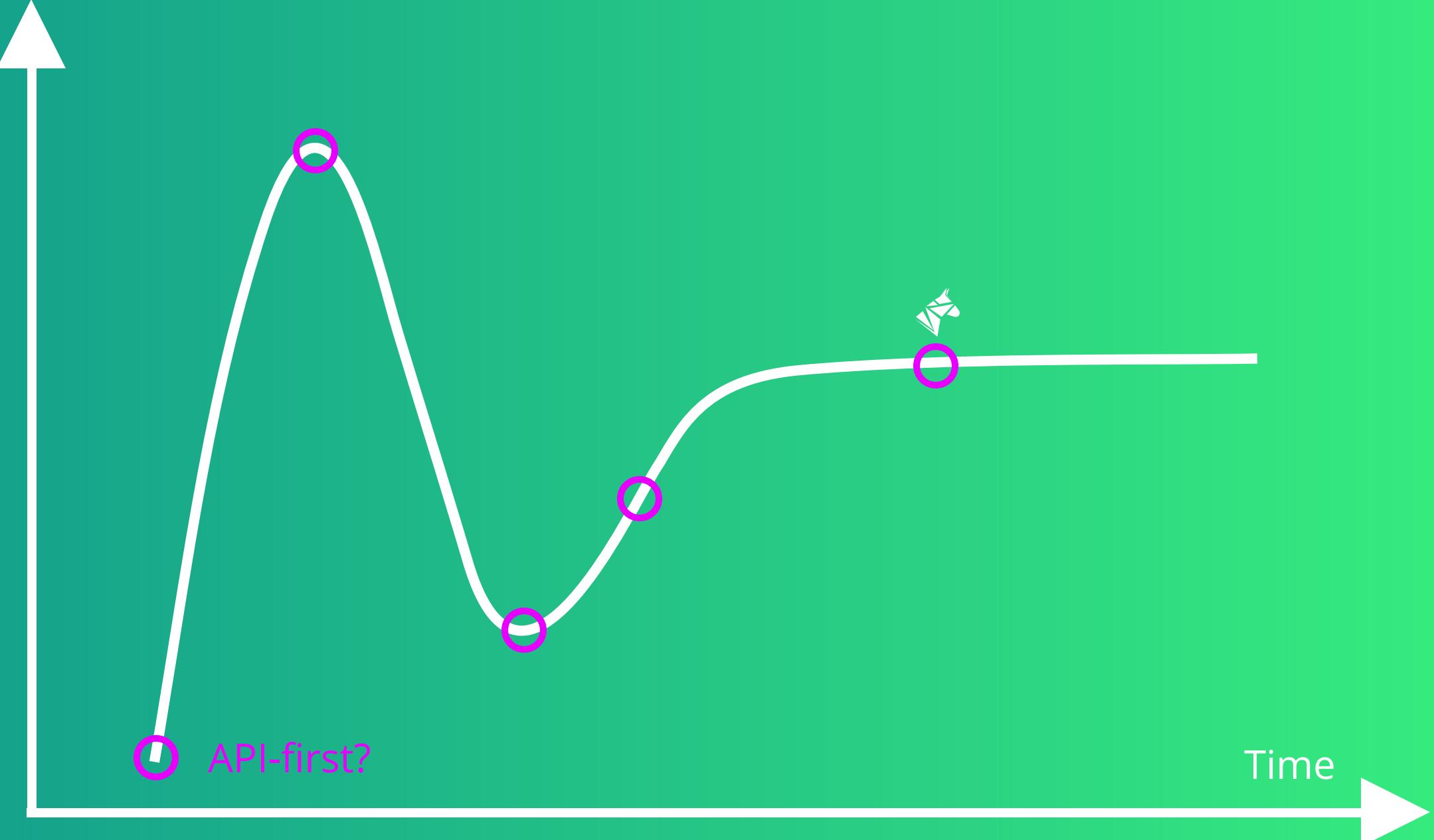
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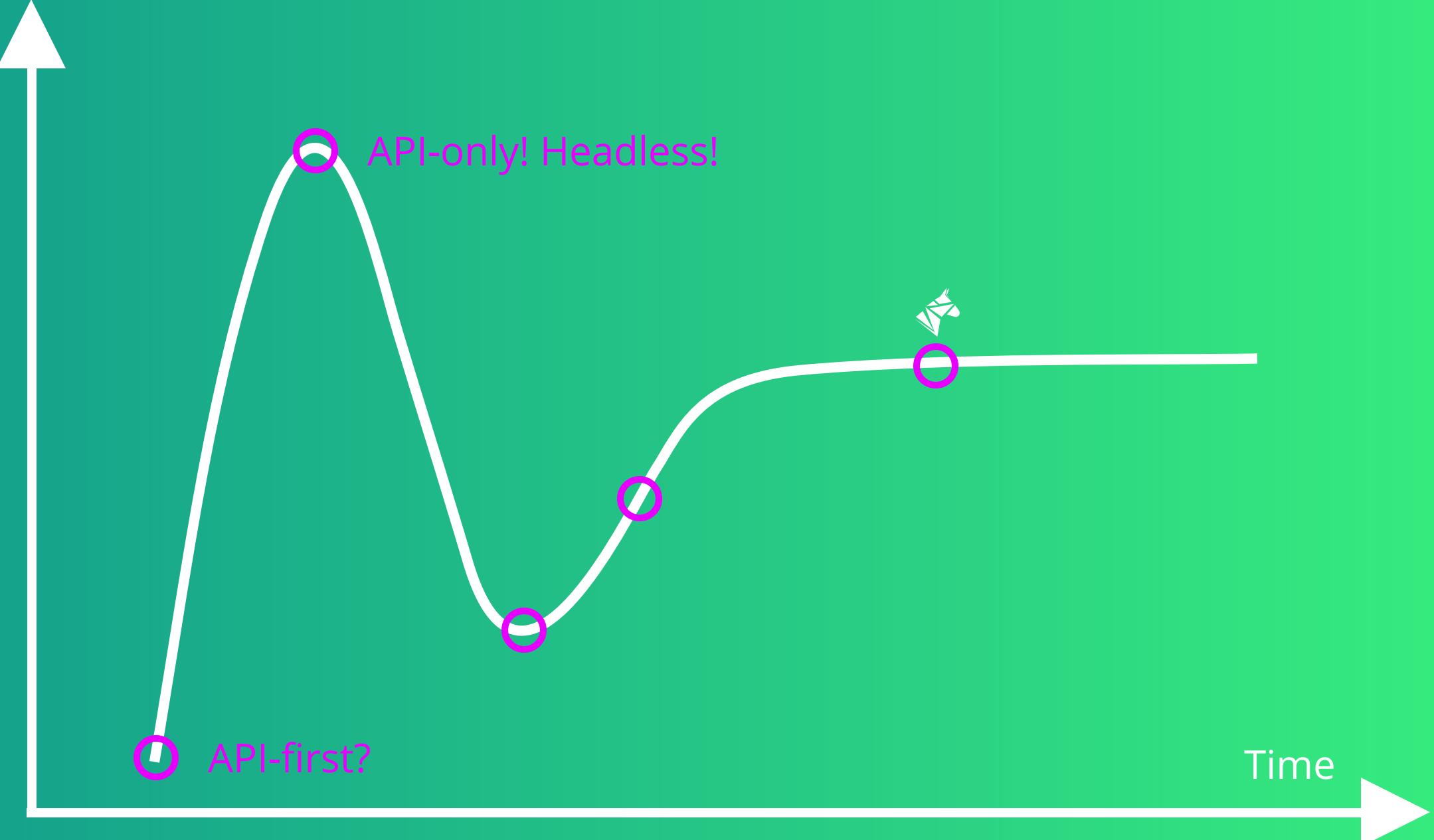
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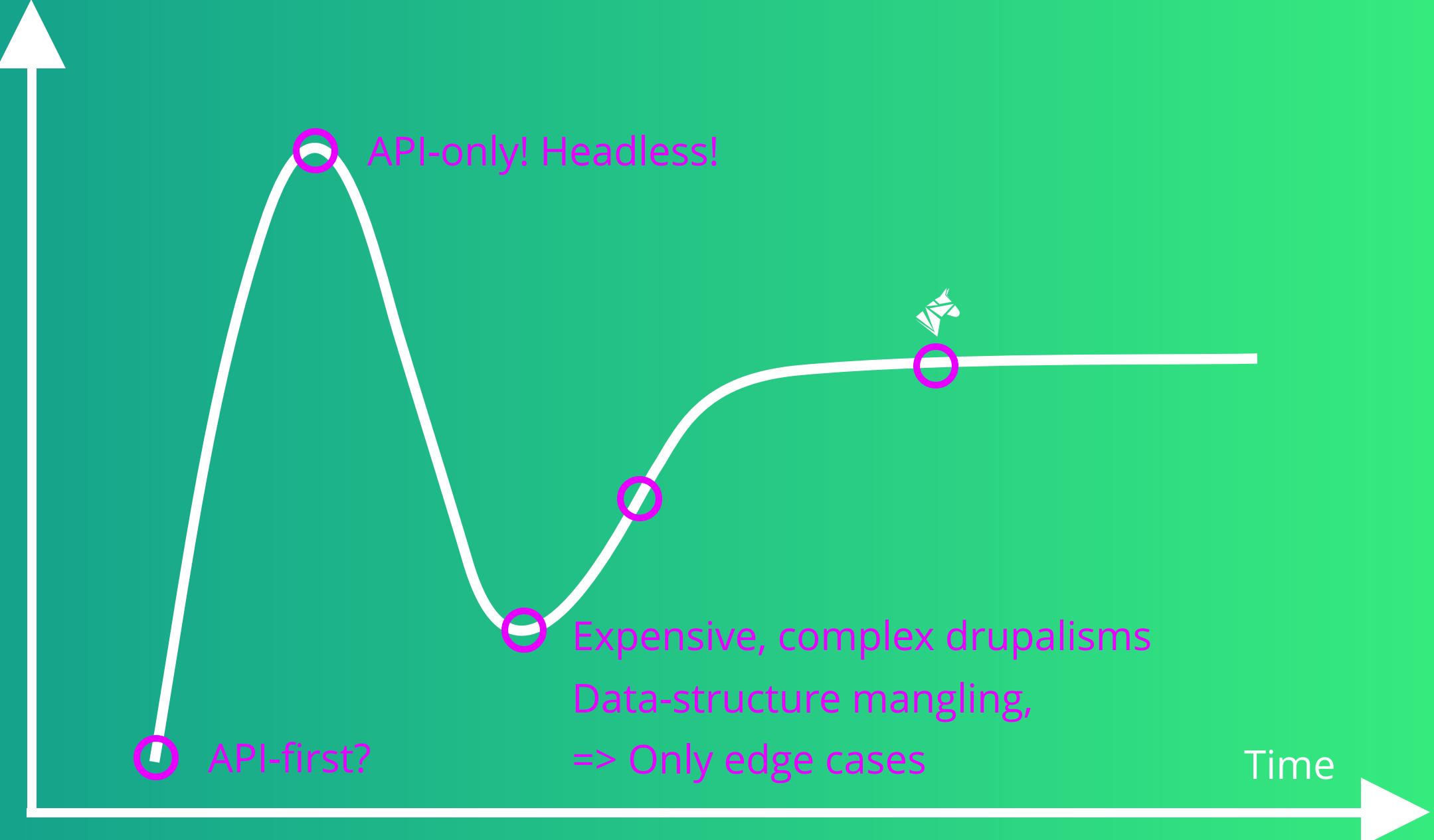
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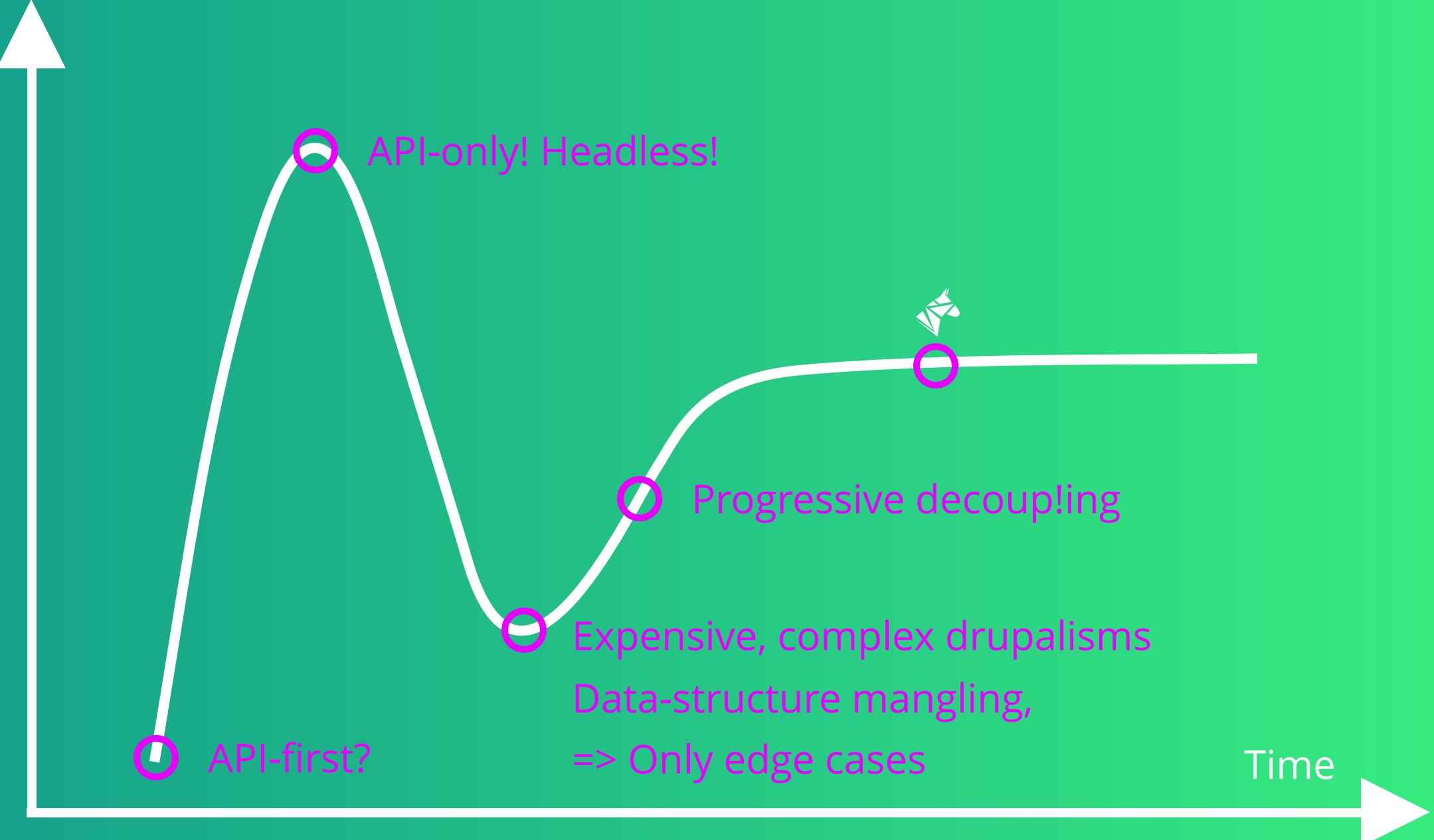
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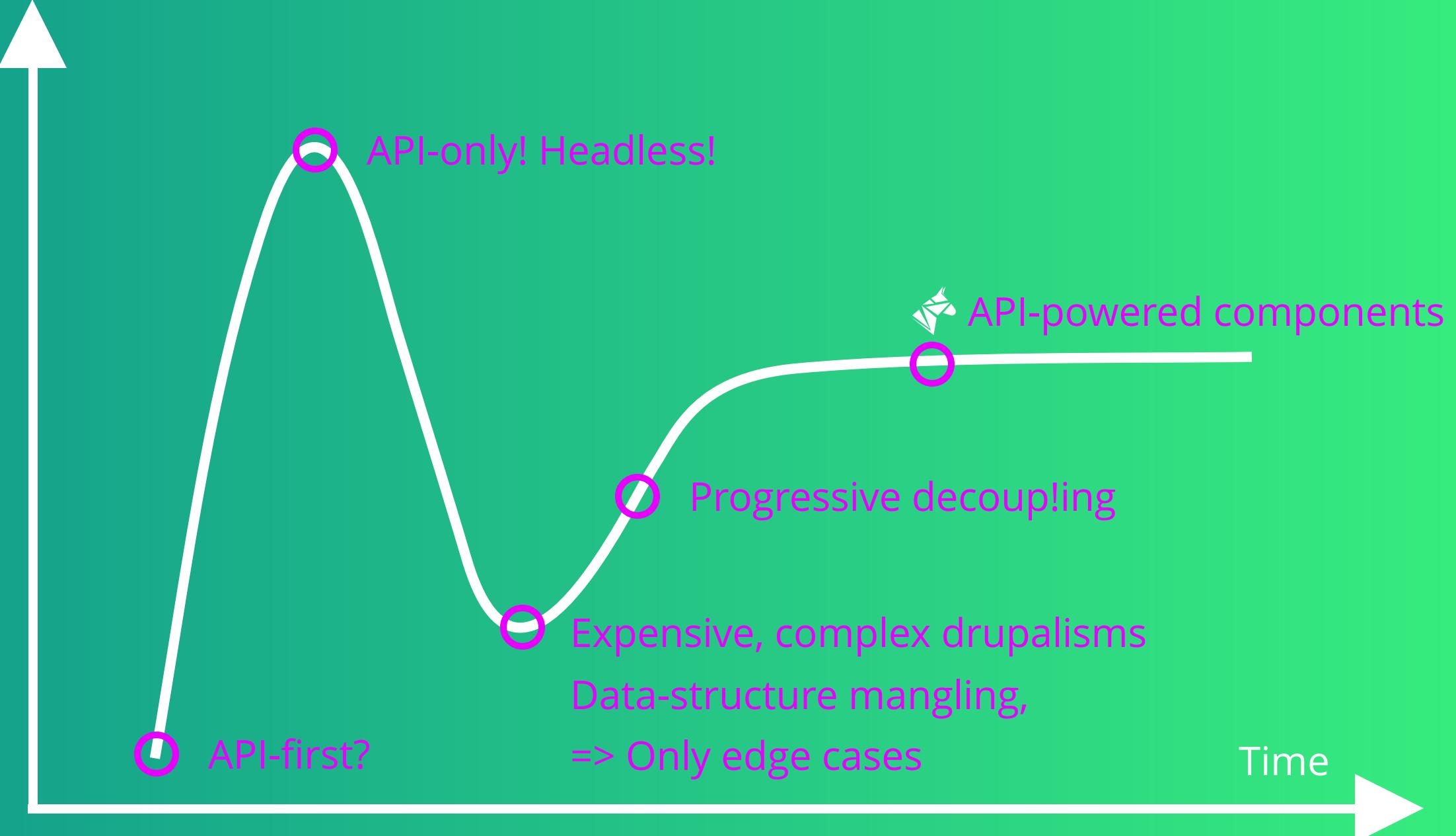
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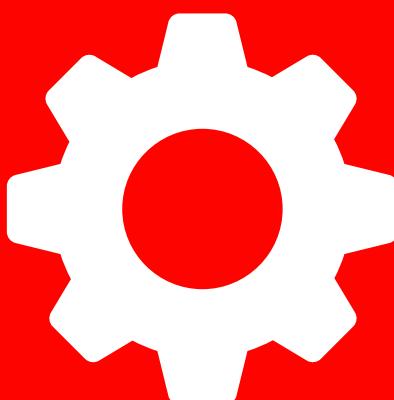
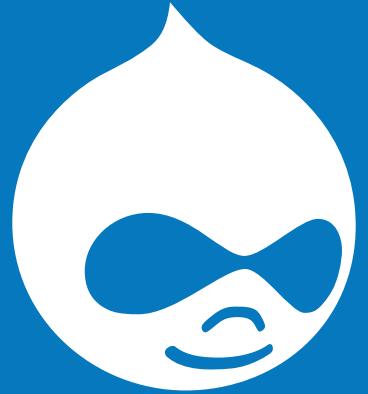


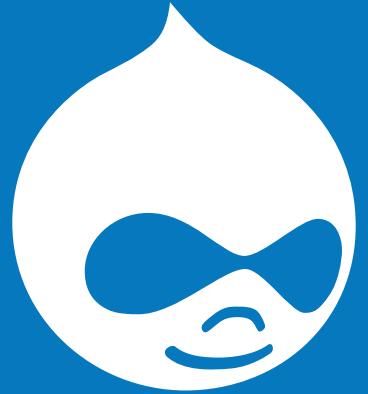
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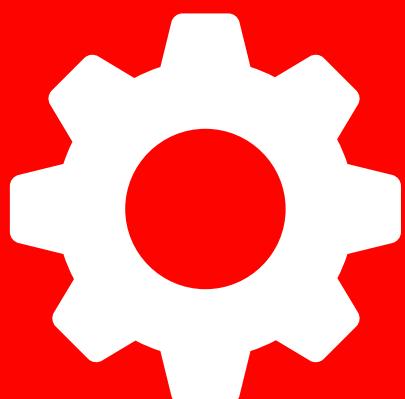
Expectations



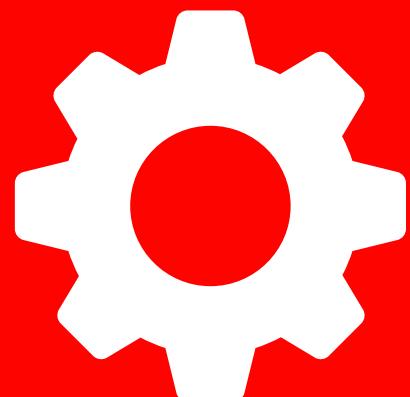




Decouple

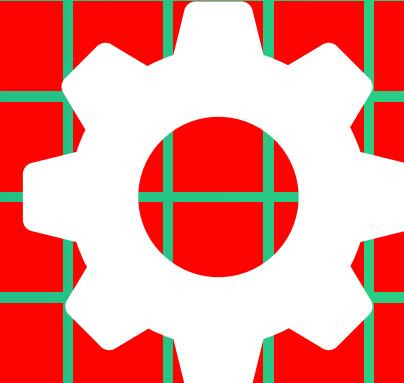


Decouple



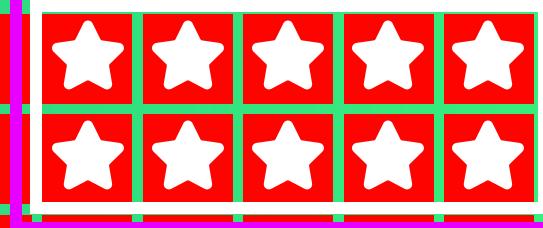
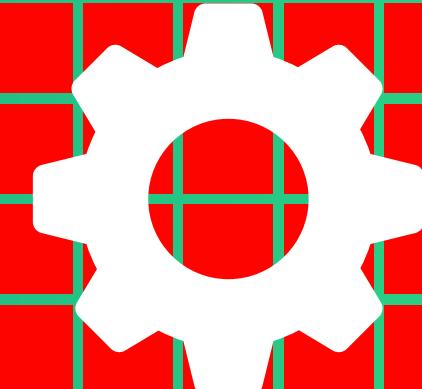
interactive ★

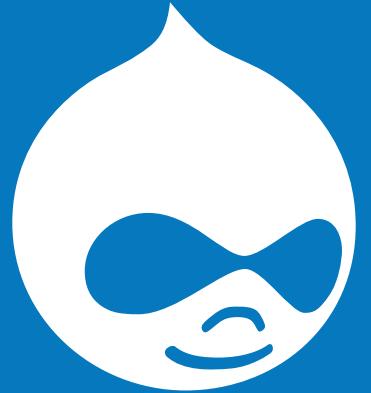
Decouple



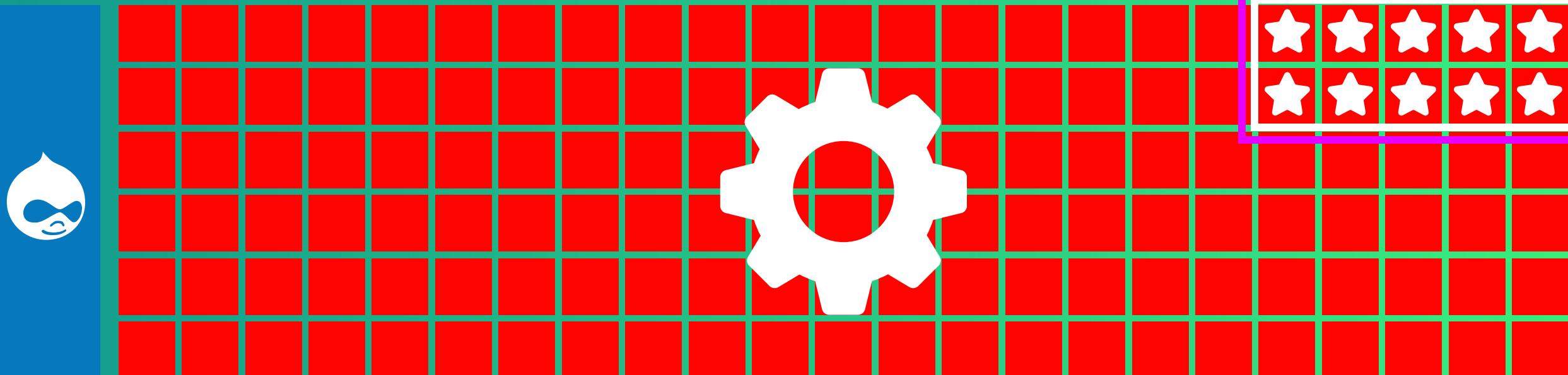


Decouple



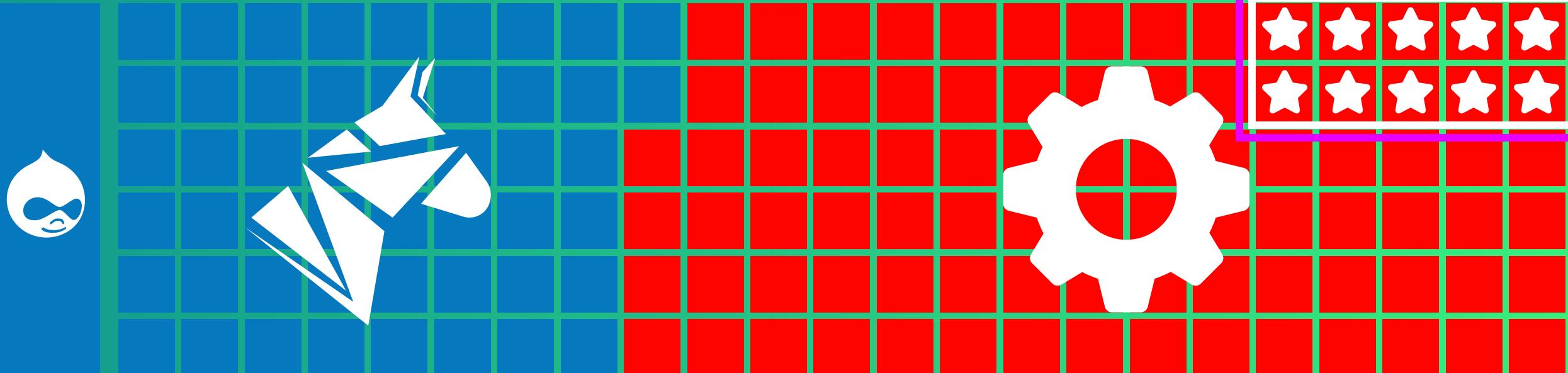


Decouple



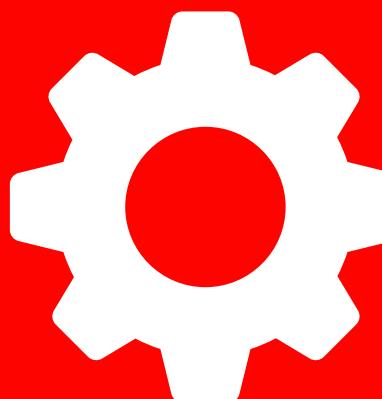


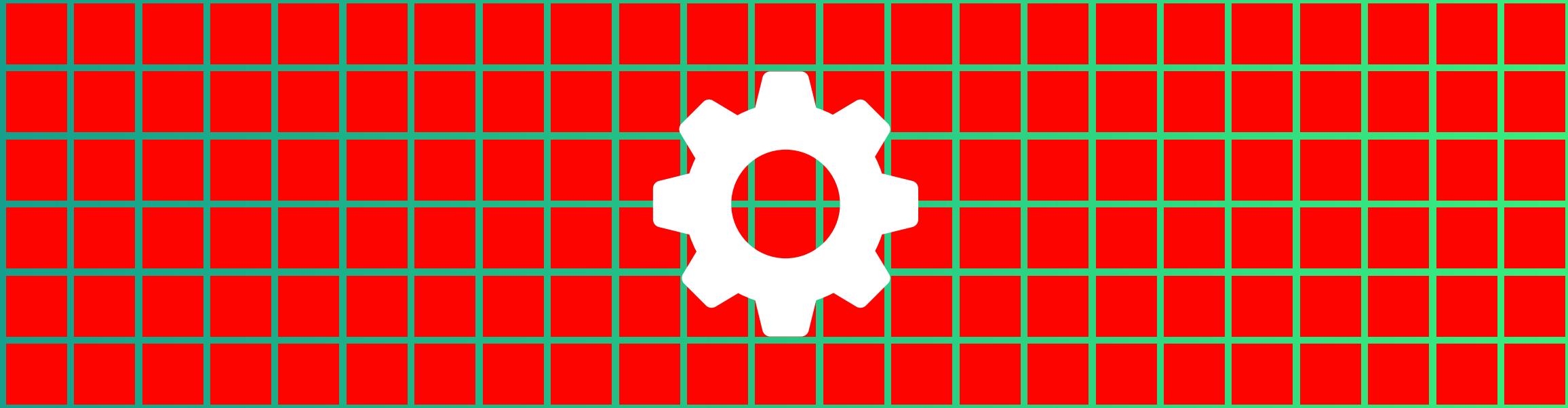
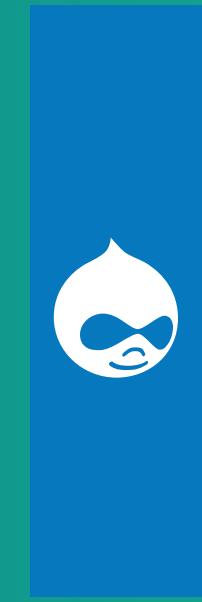
Decouple





Independent, reusable
themed, functional,
cutting edge,
Drupal Front-end
components
that YOU can decouple







That's the dream



New theme
structure



Tooling
workflow

New theme
structure



Platform
to share

Tooling
workflow

New theme
structure



- Platform to share
 - Tooling workflow
 - New theme structure
- }
- compony.io



- Platform to share
 - Tooling workflow
 - New theme structure
- }
- compony.io
- }
- The compony theme



How?

The new theme structure

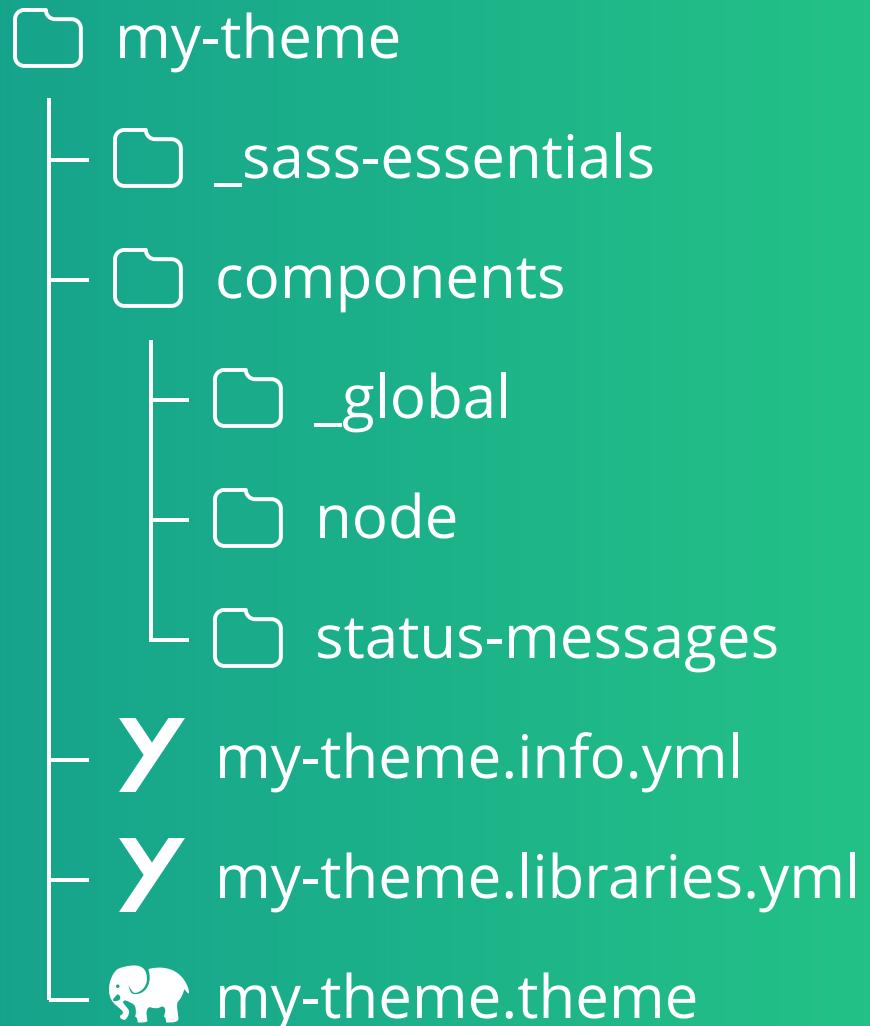


```
my-theme
├── _sass-essentials
├── components
└── └── my-theme.info.yml
    └── my-theme.libraries.yml
        └── my-theme.theme
```

How?



How?



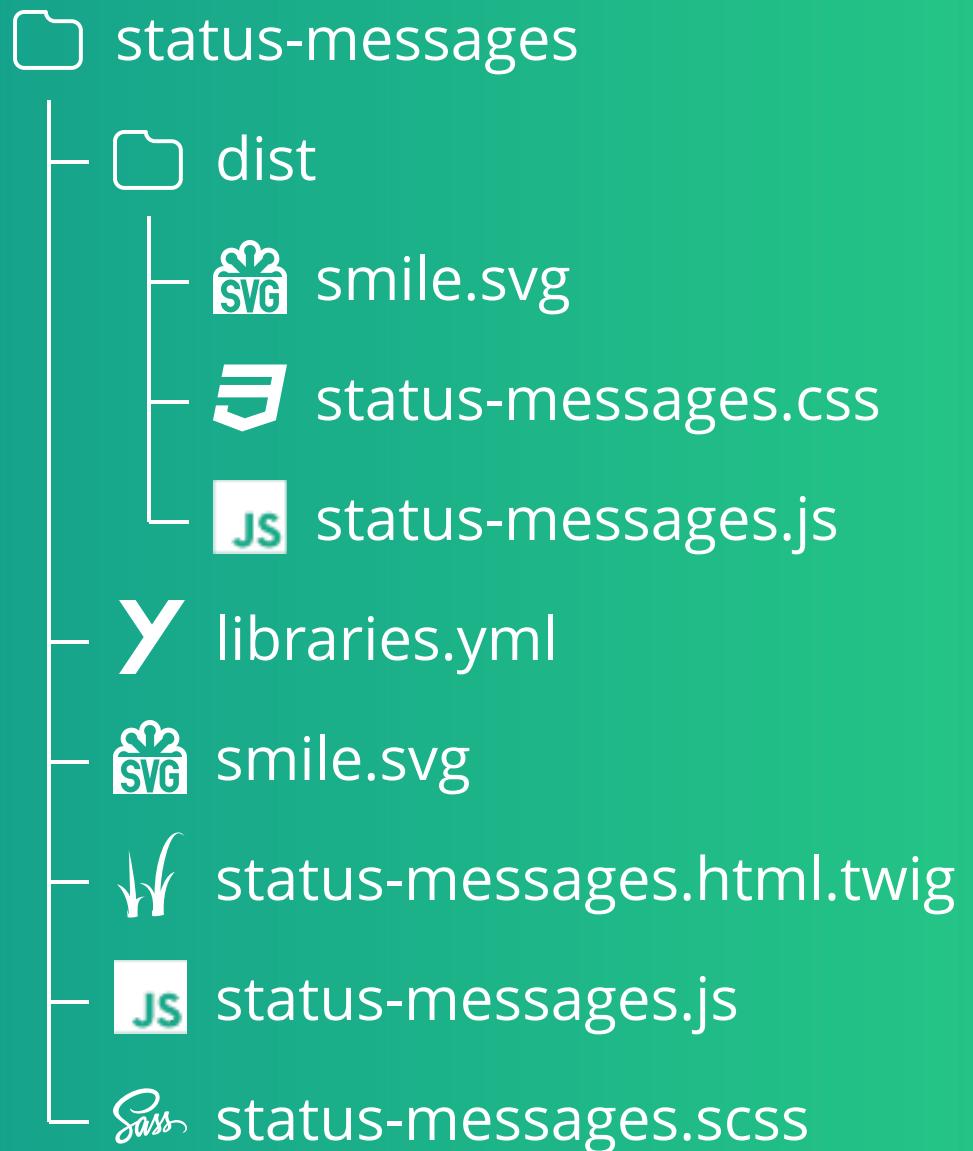


How?





How?





How?

Y libraries.yml

```
1 status-messages:  
2   version: VERSION  
3   css:  
4     component:  
5       dist/status-messages.css: {}  
6   js:  
7     dist/status-messages.js: {}
```



How?

status-messages.html.twig

```
1  {#
2  /**
3   * Theme override for status messages.
4   * ...
5   */
6 #}
7
8 {{ attach_library('my-theme/status-messages') }}
9
10 <div role="alert" class="message message--error">
11   <h2>{{ status_headings[type] }}</h2>
12   {{ messages }}
13 </div>
```



How?

```
status-messages
├── dist
│   ├── smile.svg
│   ├── status-messages.css
│   └── status-messages.js
└── libraries.yml
    ├── smile.svg
    ├── status-messages.html.twig
    ├── status-messages.js
    └── status-messages.scss
```



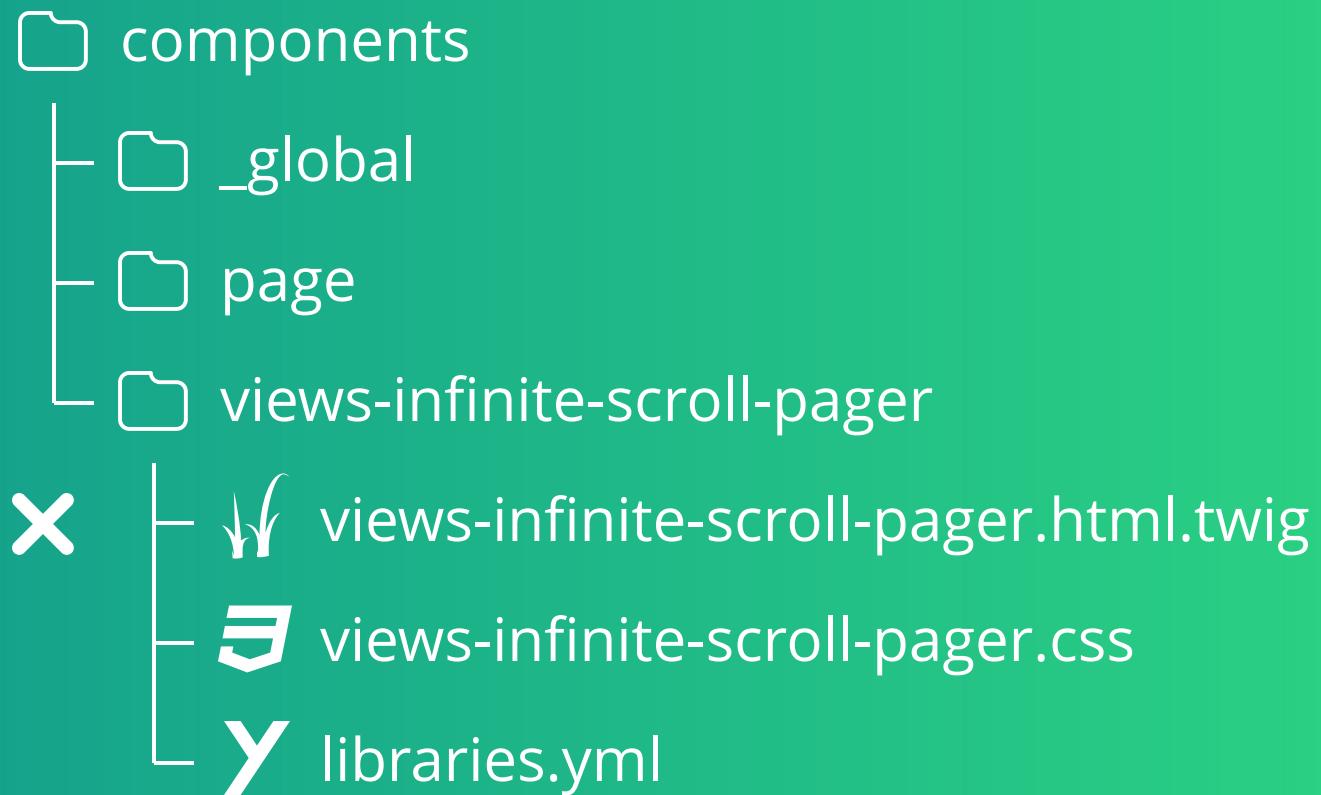
Advantages

The new theme
structure



Advantages

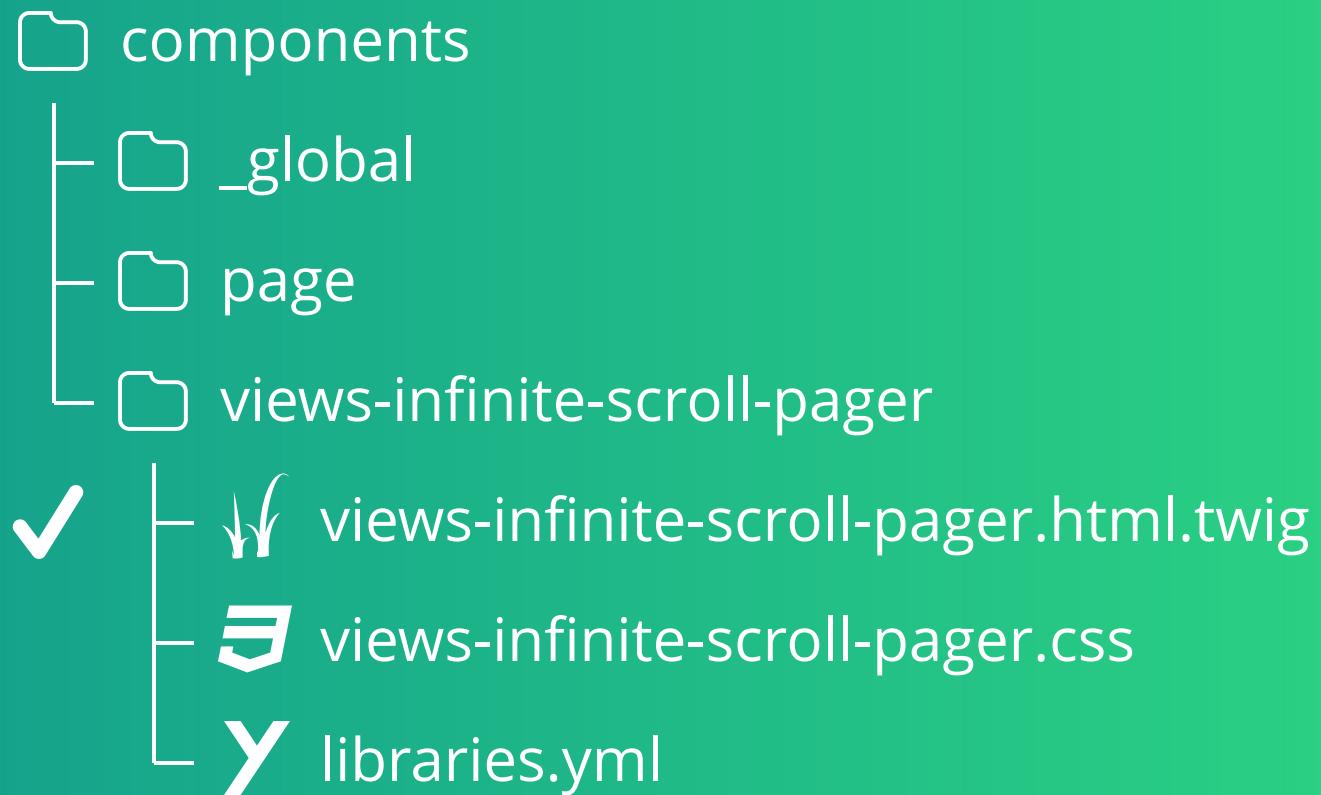
Conditional loading



Advantages



Views Infinite Scroll



Advantages



Views Infinite Scroll



Advantages

Maintainability

node--article

libraries.yml

node--article.html.twig

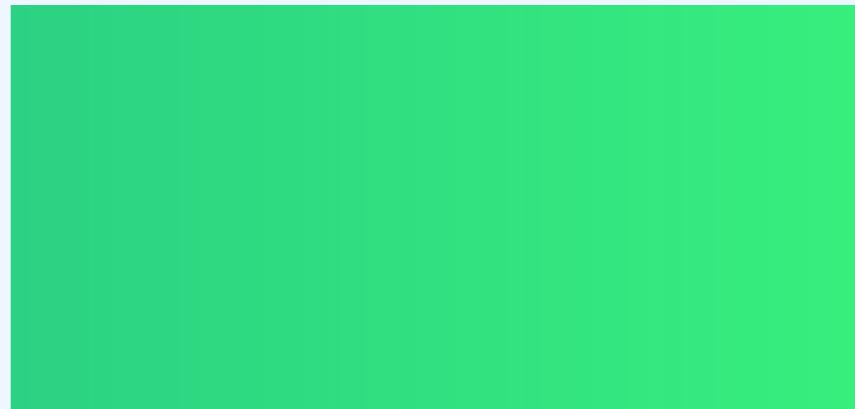
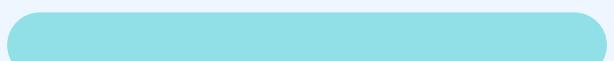
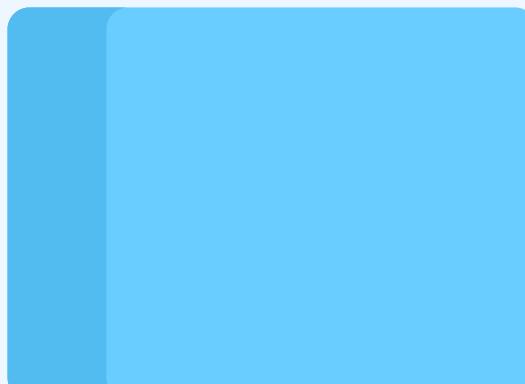
node--article.js



/taxonomy-term/1



/node/article/1

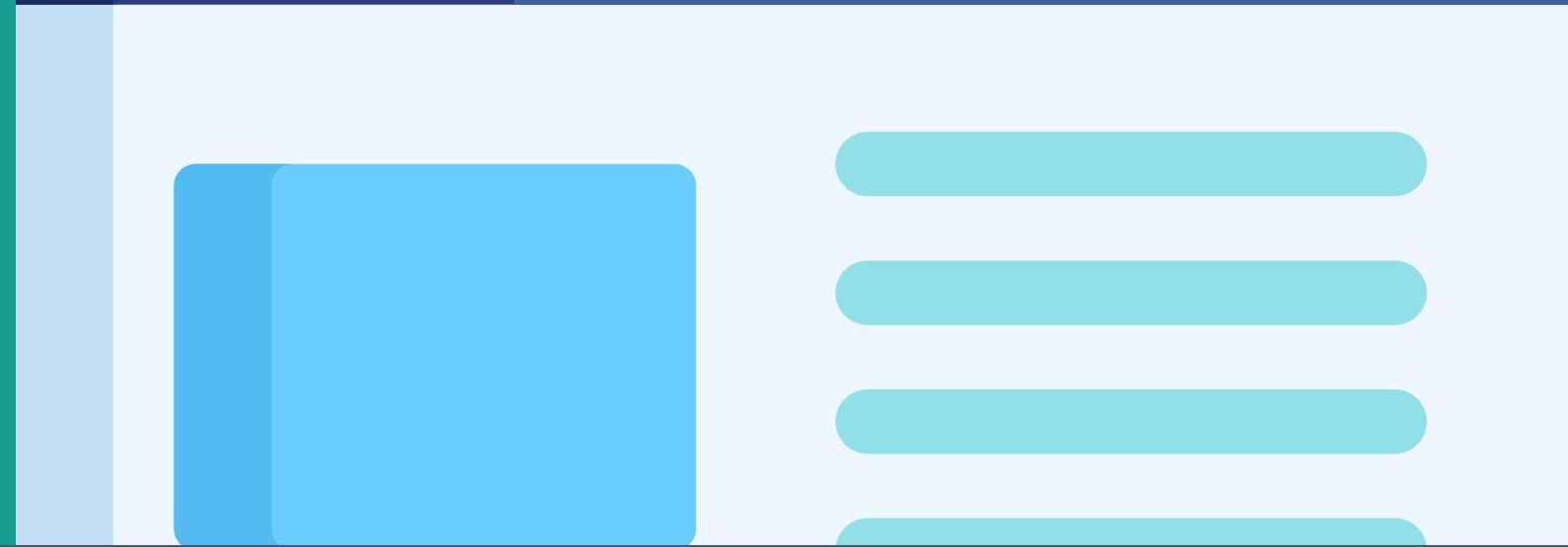


node--article

libraries.yml

node--article.html.twig

node--article.js





Advantages

Performance

node

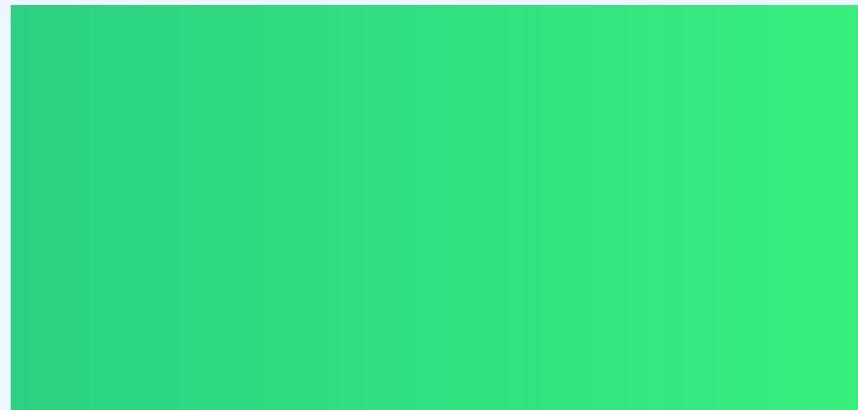
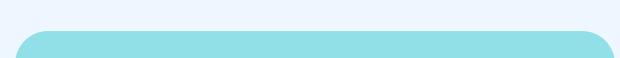
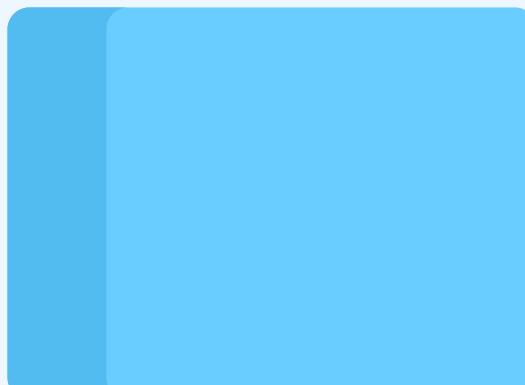
- libraries.yml
- node.html.twig
- node.css



/taxonomy-term/1



/node/1



node

- libraries.yml
- node.html.twig
- node.css



/node/1



/taxonomy-term/1

page

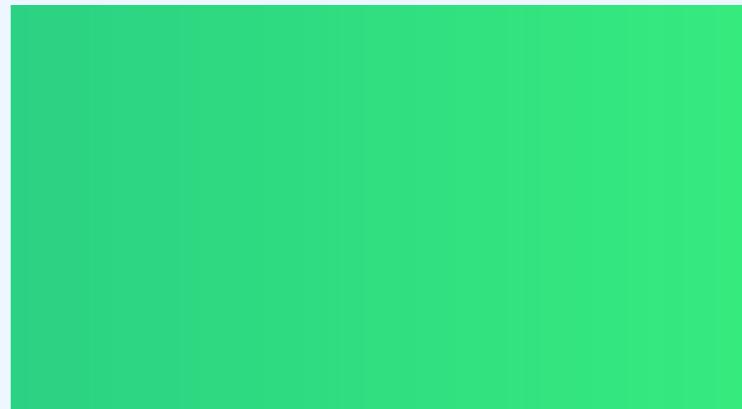
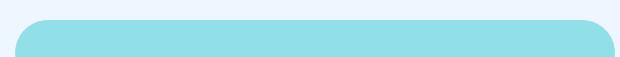
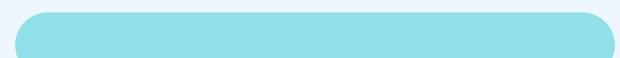
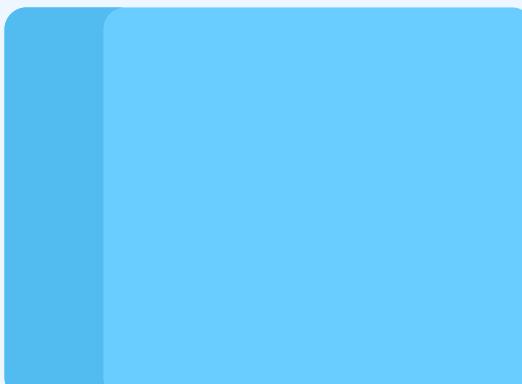
- libraries.yml
- page.html.twig
- page.css

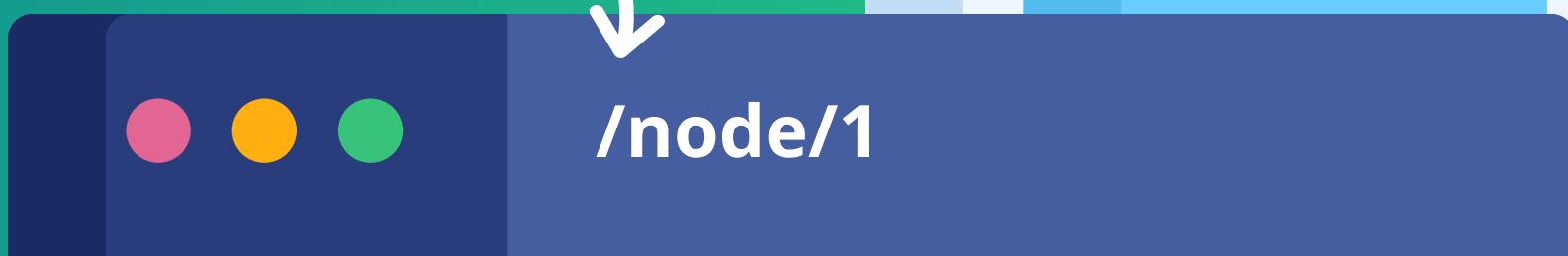
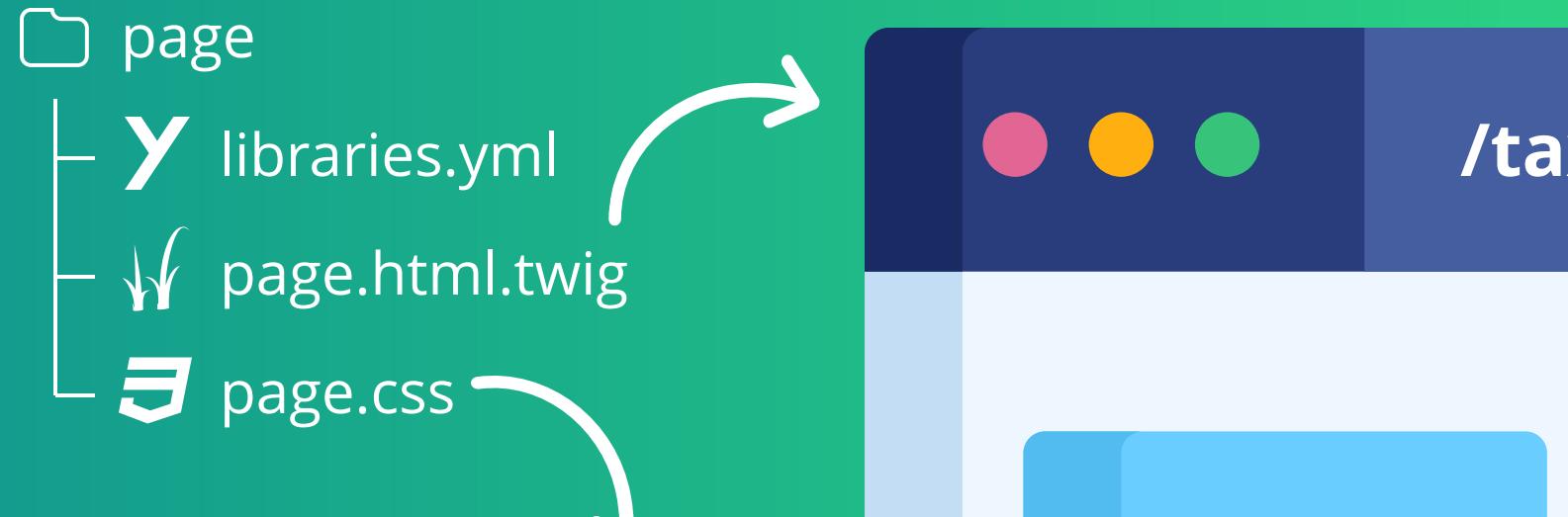


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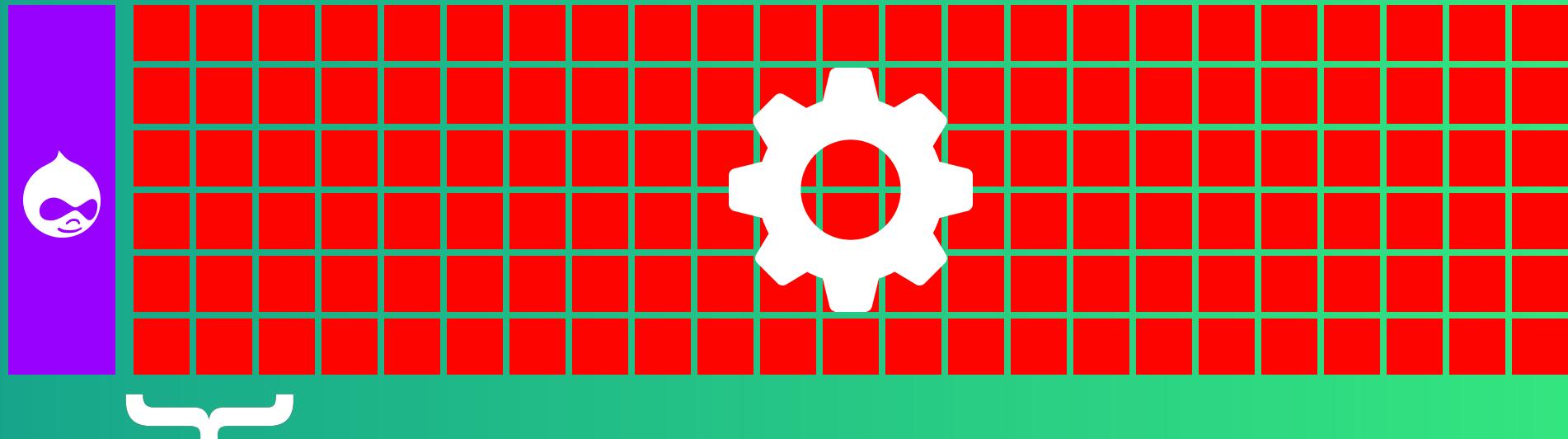


/node/1

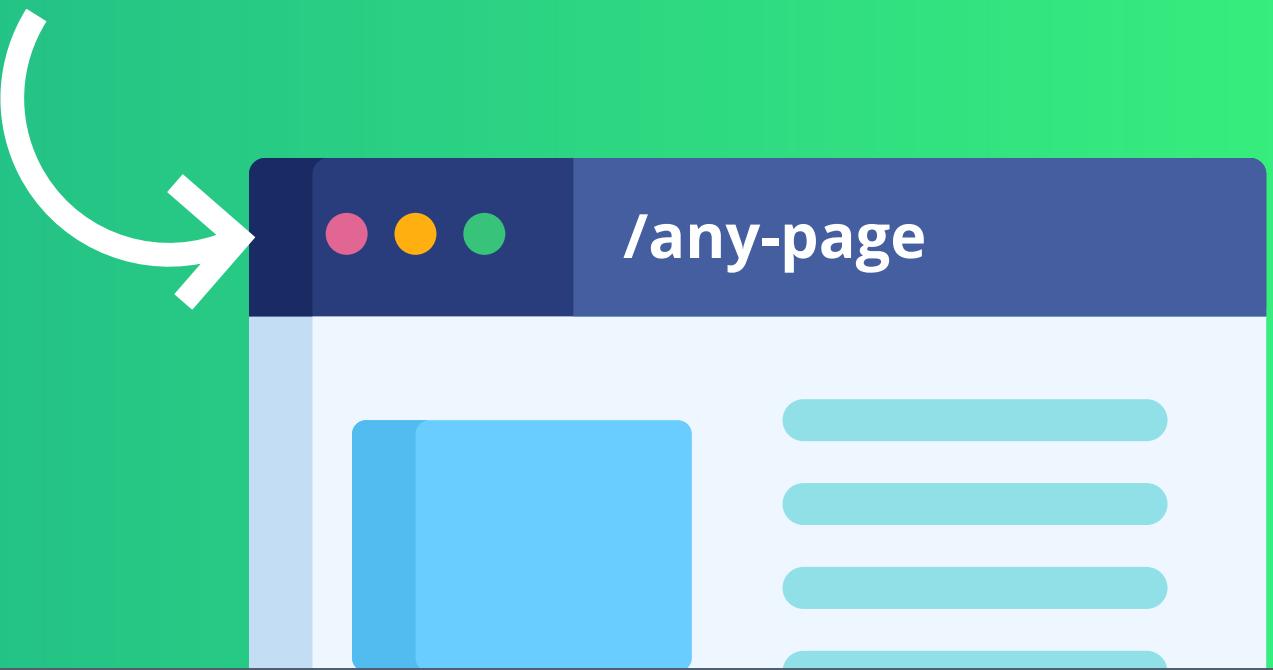




/taxonomy-term/1



 1 in 10 of your CSS/JS





Advantages

Flexibility



CSS-only

Advantages

brick

libraries.yml

```
1 brick:  
2   version: VERSION  
3   css:  
4     component:  
5       brick.css: {}
```

brick.css

```
1 .brick {  
2   width: 100%;  
3   padding: 2rem;  
4 }
```



HTML-only

Advantages

- 📁 node--article
 - └ 🌱 node--article.html.twig

```
1 {{ attach_library('my-theme/brick') }}
2 <div class="brick">
3
4   {{ attach_library('my-theme/messages') }}
5   <div class="messages">
6     {{ content }}
7   </div>
8
9 </div>
```



JS-only

Advantages

📁 libraries

└─ 📄 libraries.yml

```
1 modal:  
2   version: VERSION  
3   js:  
4     modal.js: {}
```

JS modal.js

```
1 (function () {  
2   Drupal.behaviors.submitFormLoader = {  
3     attach: function (context, settings) {  
4       };  
5     }();
```



Advantages

... and loads more



Advantages

Never start over again

Readable to non-Drupal people

Experiment on tiny parts, not on
everything



Tooling
workflow

New theme
structure

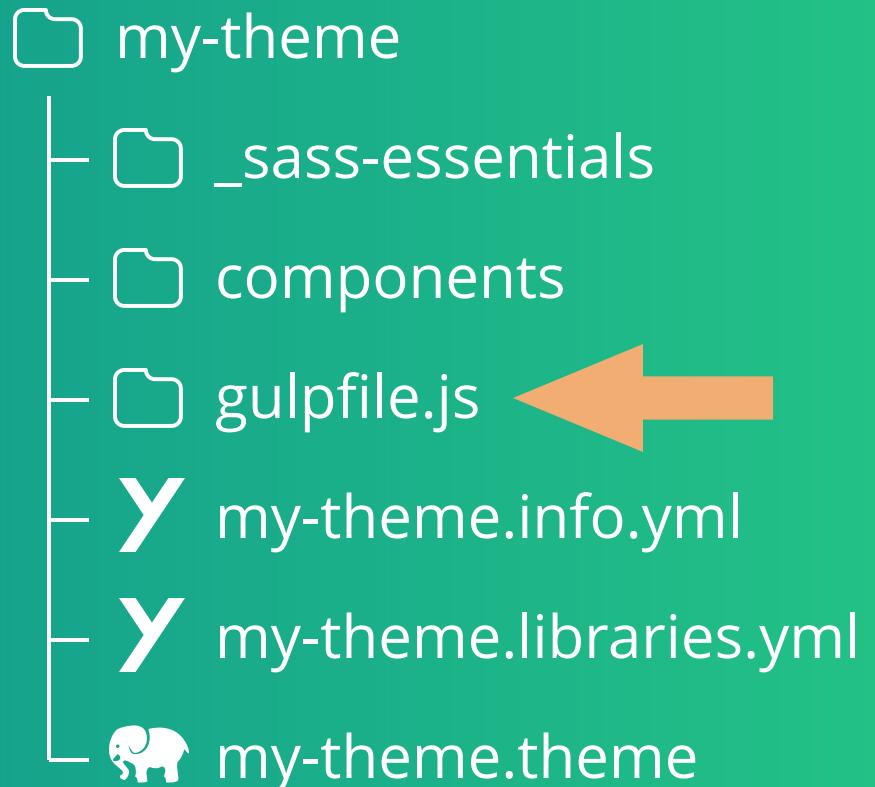


How?

New tooling
workflow



How?





How?

- 📁 my-theme
 - 📁 _sass-essentials
 - 📁 components
 - 📁 gulpfile.js
 - ⬢ .nvmrc
- my-theme.info.yml
- my-theme.libraries.yml
- 🐘 my-theme.theme
- 📦 package.json
- 📦 package-lock.json
- 🐈 yarn.lock



How?

Configurable

- project-specific
- environment-specific



How?

JS project.config.js

```
1 module.exports = {
2   gulpthemes: [
3     {
4       path: 'web/themes/compony',
5       with_styleguide: false
6     },
7   ],
8   features: {
9     autoprefixer: {
10       enable: true,
11       options: {
12         browsers: ['last 2 versions', 'ie 9', '> 0.2%'],
13         cascade: false
14       },
15     }
16   }
17 }
```



How?

JS local.config.js

```
1 module.exports = {
2   features: {
3     auto_rebuild_drupal_cache: {
4       enable: false,
5       cache_rebuild_command: 'drush cr'
6     },
7     browsersync: {
8       enable: false,
9       localhost_url: "https://local.dev/"
10    },
11  },
12}
```



Advantages

New tooling
workflow



Advantages

Easy setup



```
gulpfile.js
├── core
├── config.js
├── index.js
├── local.config.js
└── project.config.js
```

Advantages

➤ Command line

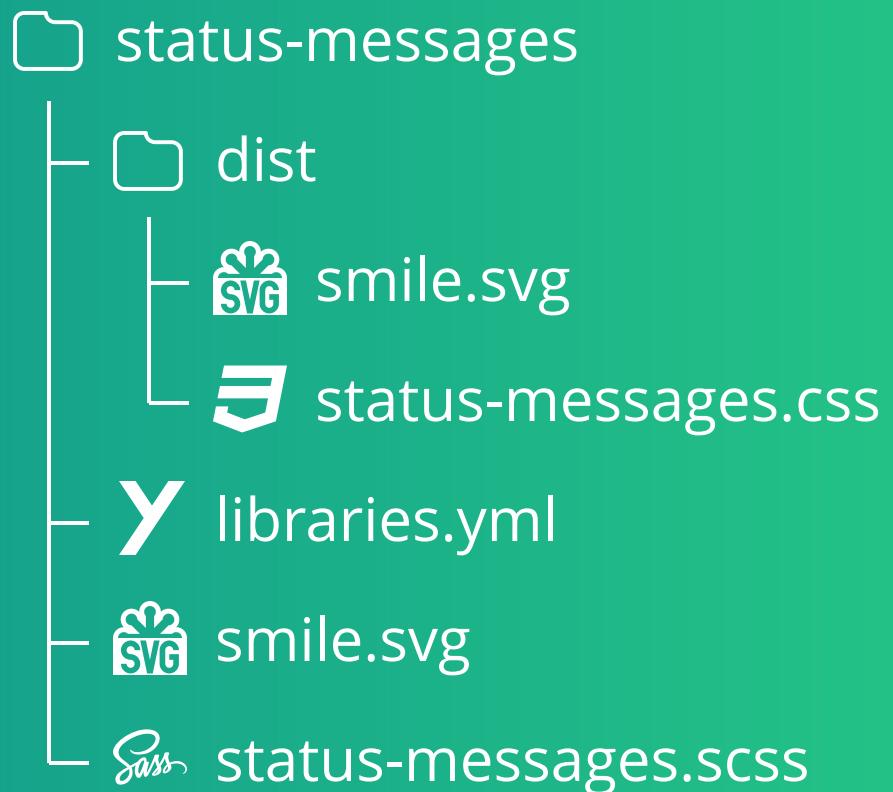
```
$ npm install
```

```
$ gulp
```



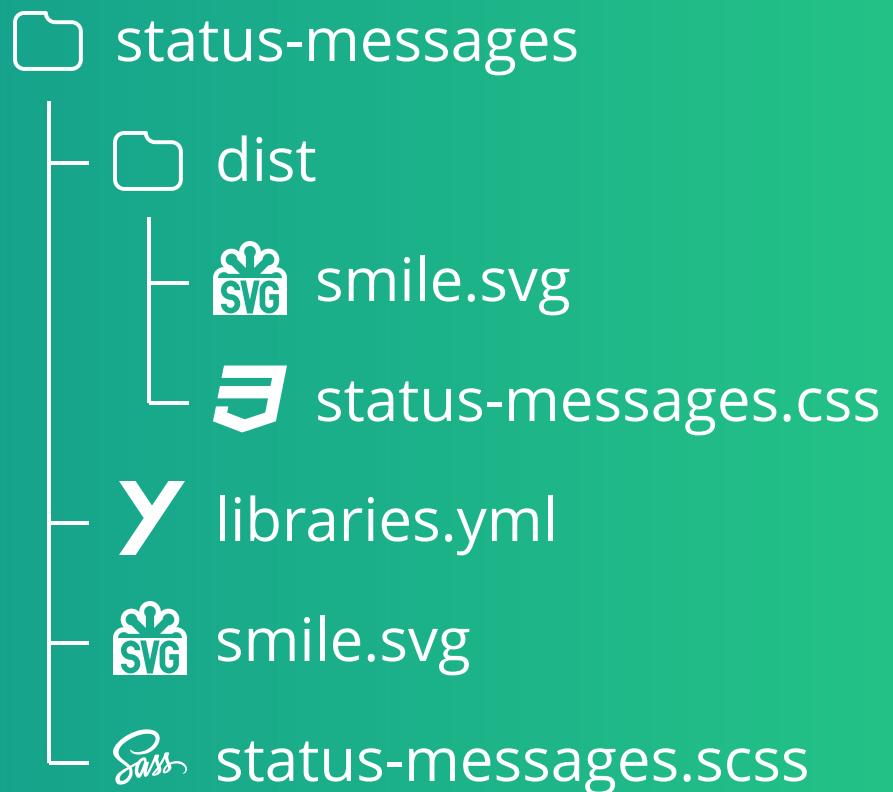
Advantages

Sass compiling



```
1 .message {
2   background: url('../images/smile.svg');
3 }
```

Advantages



Advantages

```
1 .message {
2     background: url('smile.svg');
3 }
```



Advantages

Autoprefixer

testy.scss

X

```
1 @import "sass-essentials";  
2  
3 .testy {  
4   .title {  
5     margin-bottom: 1rem;  
6     display: grid;  
7   }  
8 }  
9
```



testy.css

```
1 .testy .title {  
2   margin-bottom: 1rem;  
3 }  
4  
5 /*# sourceMappingURL=maps/testy.css.map */  
6
```

Advantages



Advantages

Lossless image
optimisation



Advantages

Name	Size	Kind	Date Modified
► dist	--	--	Today, 15:35
testy.html.twig	4 KB	Atom.a...ument	20 Jan 2019, 19:35
not a horse.gif	677 KB	GIF Image	9 Feb 2019, 17:19
logo.svg	2 KB	Scalab...Image	1 Feb 2019, 11:20
libraries.yml	4 KB	YAML...cument	20 Jan 2019, 19:35
horse.jpeg	166 KB	JPEG image	Today, 14:32
also a horse.png	182 KB	PNG image	Today, 15:00





Advantages

Browsersync



Advantages

Linting

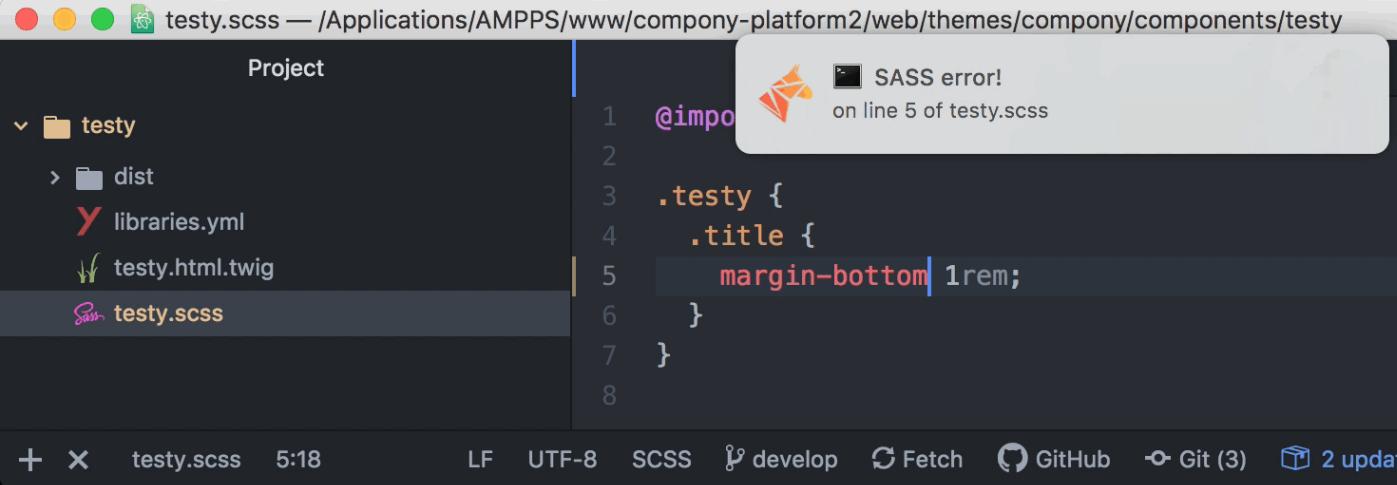


Sass



Y





A screenshot of a code editor showing a SASS error in the file `testy.scss`. The error message is: "SASS error! on line 5 of testy.scss". The code snippet is:

```
1 @import "variables";
2
3 .testy {
4   .title {
5     margin-bottom: 1rem;
6   }
7 }
8
```

The file tree on the left shows the project structure: `testy`, `dist`, `libraries.yml`, `testy.html.twig`, and `testy.scss` (which is selected). The bottom navigation bar includes tabs for LF, UTF-8, SCSS, develop, Fetch, GitHub, Git (3), and 2 update.

Error in plugin 'gulp-sass'
Message:
components/testy/testy.scss
Error: property "margin-bottom" must be followed by a ':'
on line 5 of stdin
>> margin-bottom 1rem;
----^

Details:
status: 1
file: stdin
line: 5
column: 5
formatted: Error: property "margin-bottom" must be followed by a ':'
on line 5 of stdin
>> margin-bottom 1rem;
----^

messageFormatted: components/testy/testy.scss
Error: property "margin-bottom" must be followed by a ':'
on line 5 of stdin
>> margin-bottom 1rem;
----^

Advantages

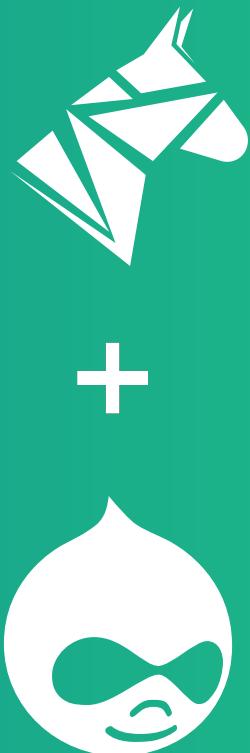


Advantages

JS uglification



Advantages



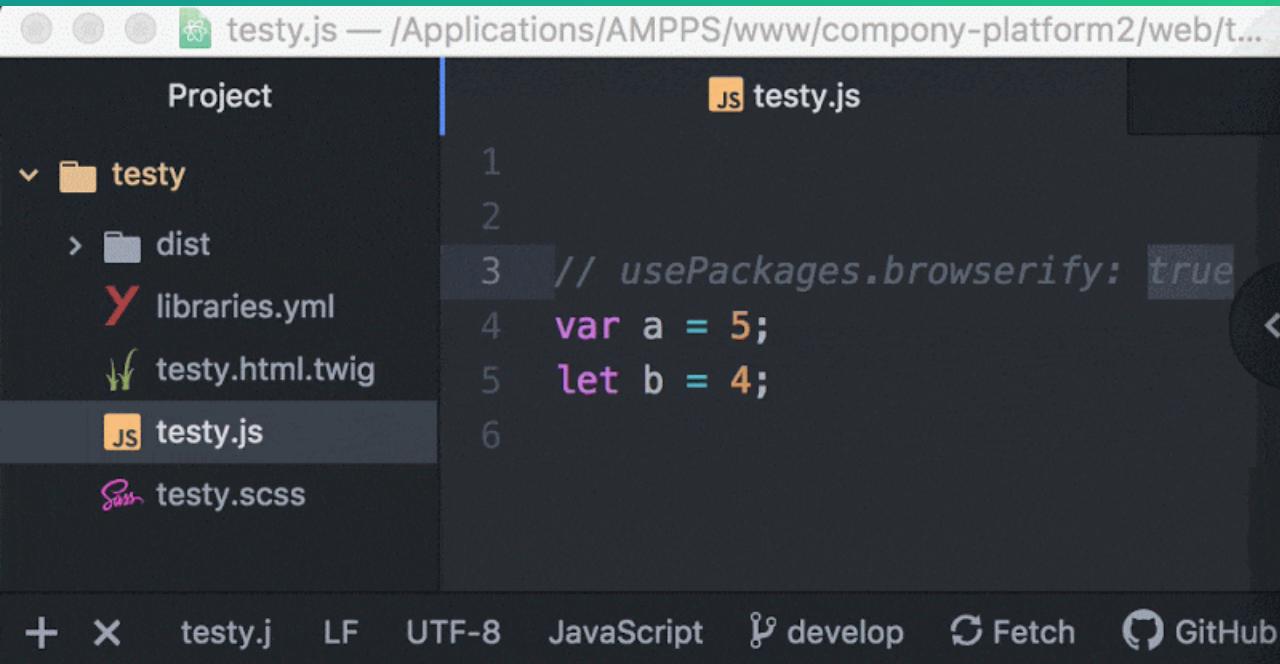
Uglification

Aggregation



Advantages

Babelify & Browserify



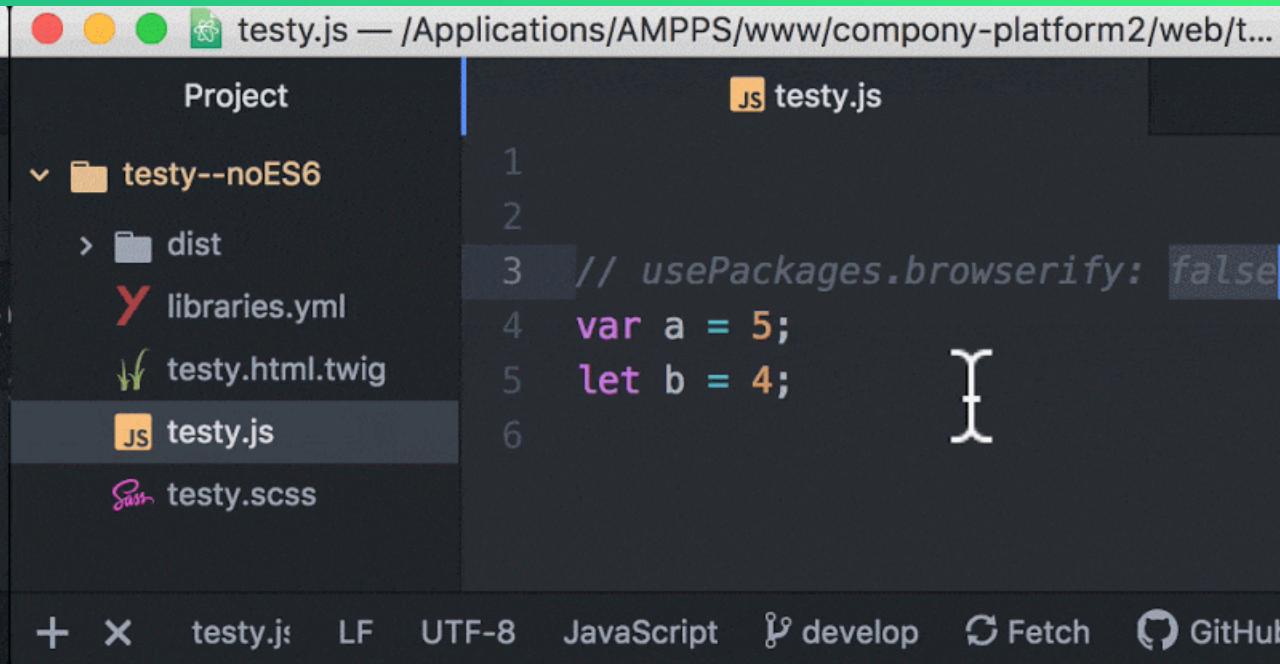
testy.js — /Applications/AMPPS/www/compony-platform2/web/t...

Project

- testy
- dist
- libraries.yml
- testy.html.twig
- testy.js**
- testy.scss

```
1
2
3 // usePackages.browserify: true
4 var a = 5;
5 let b = 4;
6
```

+ × testy.j LF UTF-8 JavaScript ⚡ develop ⏪ Fetch GitHub



testy.js — /Applications/AMPPS/www/compony-platform2/web/t...

Project

- testy--noES6
- dist
- libraries.yml
- testy.html.twig
- testy.js**
- testy.scss

```
1
2
3 // usePackages.browserify: false
4 var a = 5;
5 let b = 4;
```

+ × testy.j LF UTF-8 JavaScript ⚡ develop ⏪ Fetch GitHub



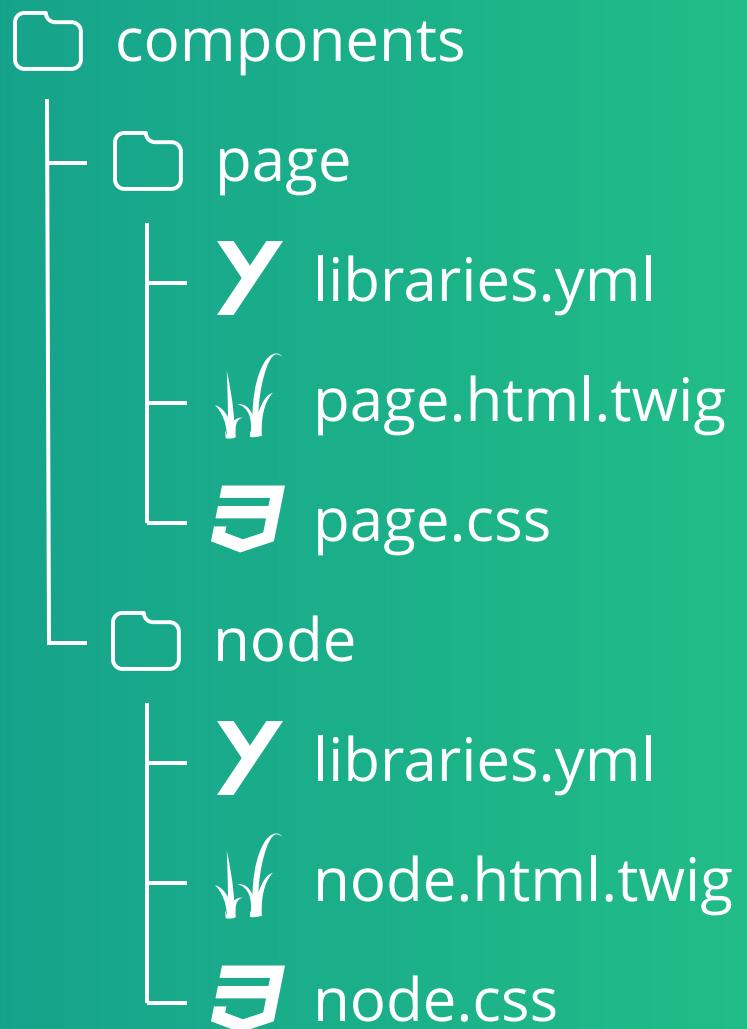
Advantages

Treeshaking



Advantages

Component-based,
multi-theme
compiling



Advantages



Advantages



compony.io/blog/how-set-multiple-compony-themes-your-project



Advantages

JS project.config.js

```
1 module.exports = {
2   options: {
3     ...
4     gulpthemes: [
5       {
6         path: 'themes/custom/my-first-theme',
7       },
8       {
9         path: 'themes/custom/my-second-theme',
10      },
11    ],
12  },
13}
```



Advantages



```
example
├── dist
│   └── example.js
└── libraries.yml
```

```
example
├── example.js
└── some-library.min.js
```

Advantages



Advantages



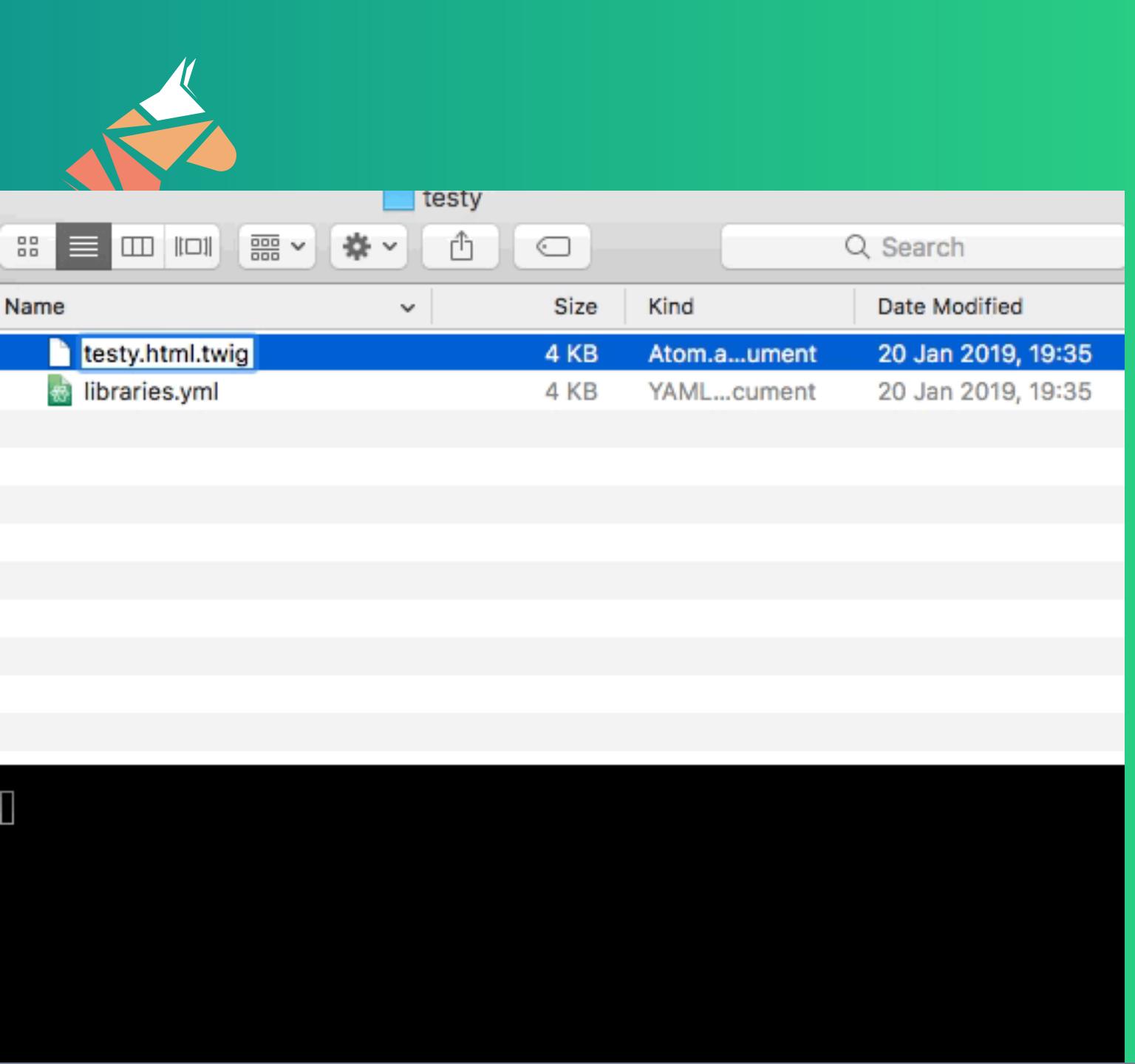
```
menu
└── dist
    ├── menu.css
    └── menu_toggles.css
├── libraries.yml
└── menu_toggles.scss
└── menu.scss
```

Advantages



Advantages

Rebuilding Drupal's Cache

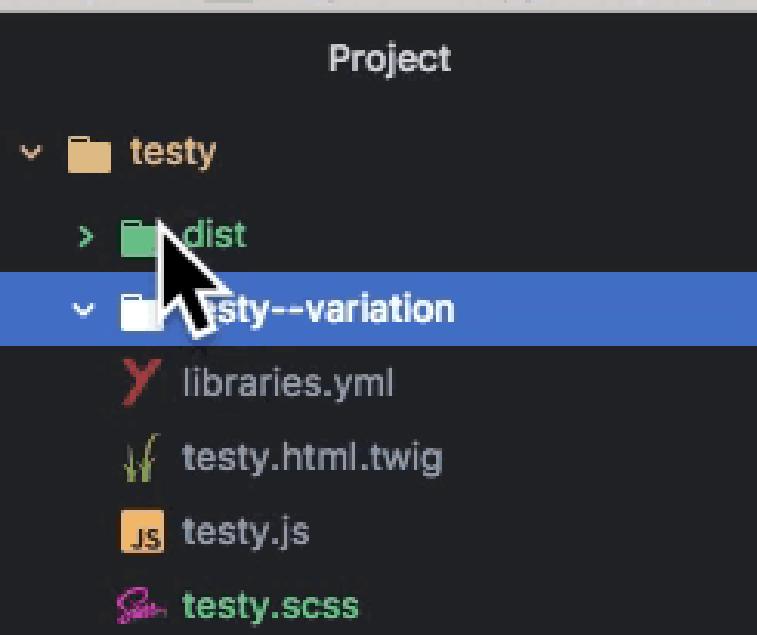


Advantages



Advantages

Refactor friendly



2. node

```
linted components/testy/testy.js js
JS: Compiled components/testy/testy.js
linted components/testy/testy.js js
JS: Compiled components/testy/testy.js
CSS: Compiled components/testy/testy.scss
[]
```



Advantages

Name	Size	Kind	Date Modified
► dist	--	Folder	Today, 15:23
<code>testy.html.twig</code>	4 KB	Atom.a...ument	20 Jan 2019, 19:35
<code>logo.svg</code>	2 KB	Scalab...Image	1 Feb 2019, 11:20
<code>libraries.yml</code>	4 KB	YAML...cument	20 Jan 2019, 19:35



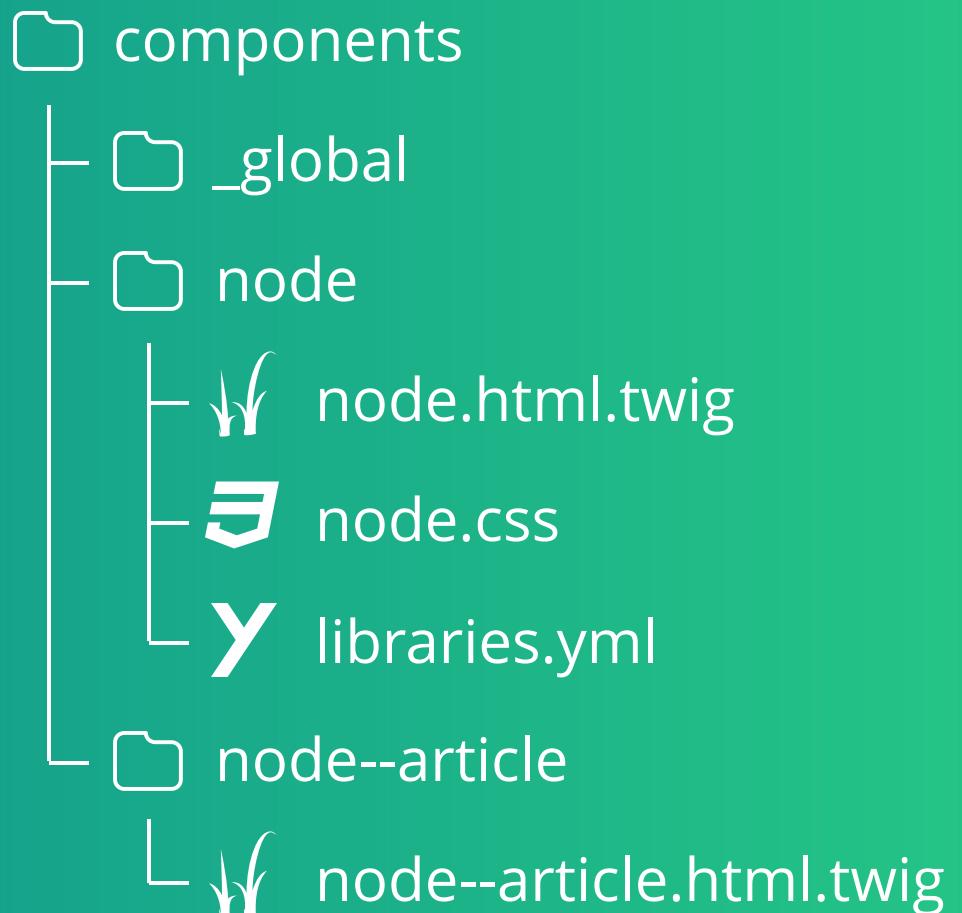
Advantages

Abstract only
when needed

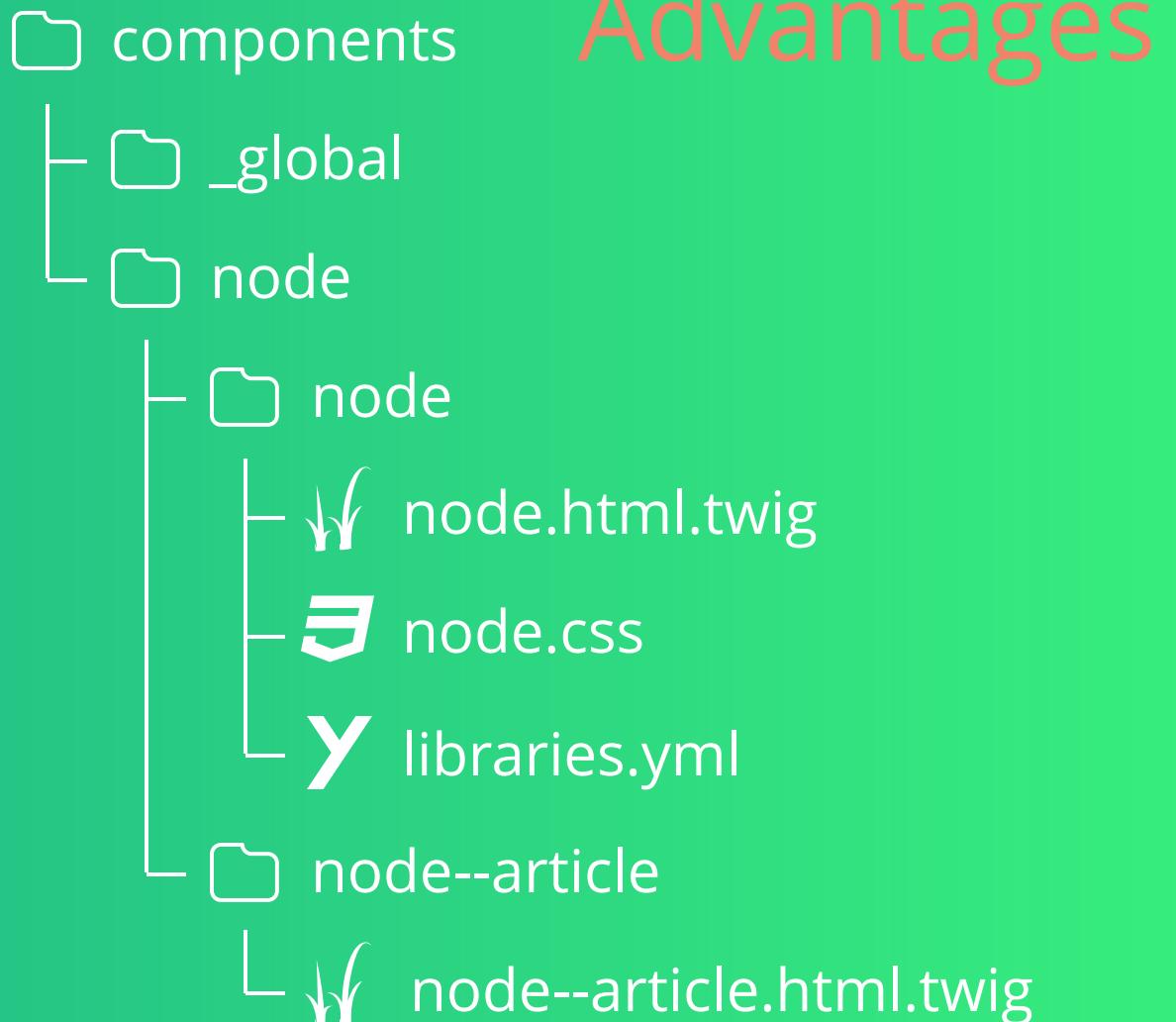
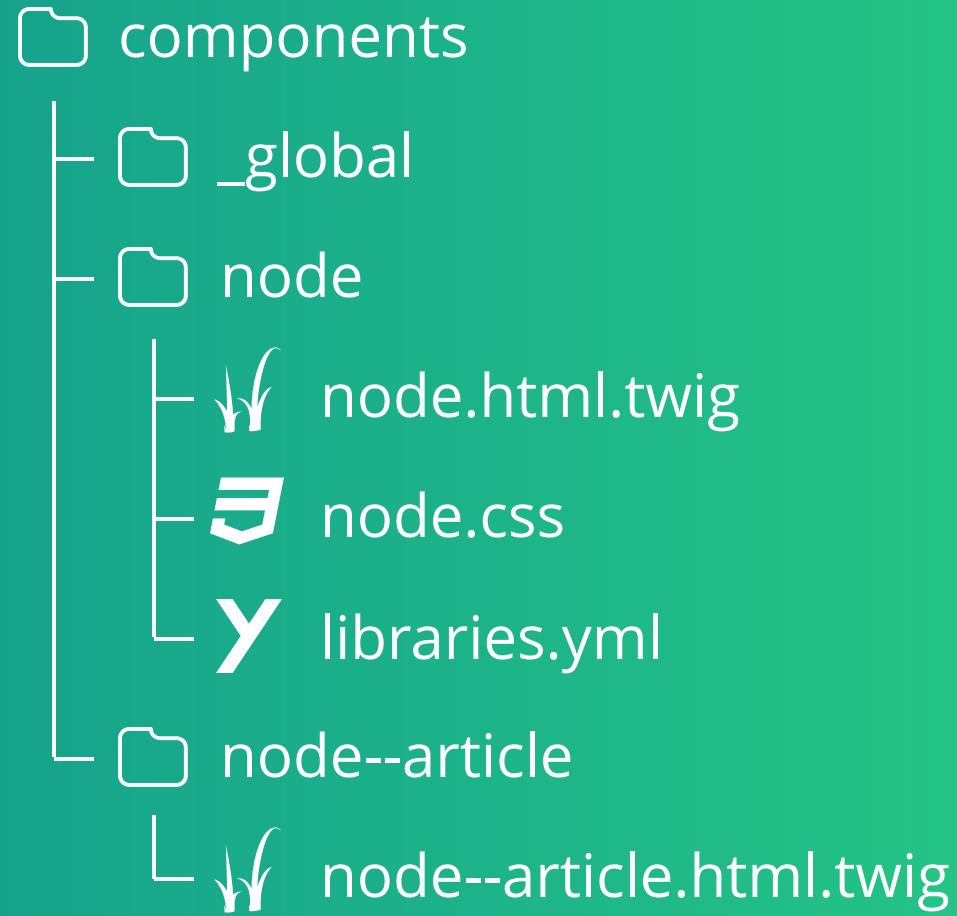


```
components
└── _global
└── node
    ├── node.html.twig
    ├── node.css
    └── libraries.yml
```

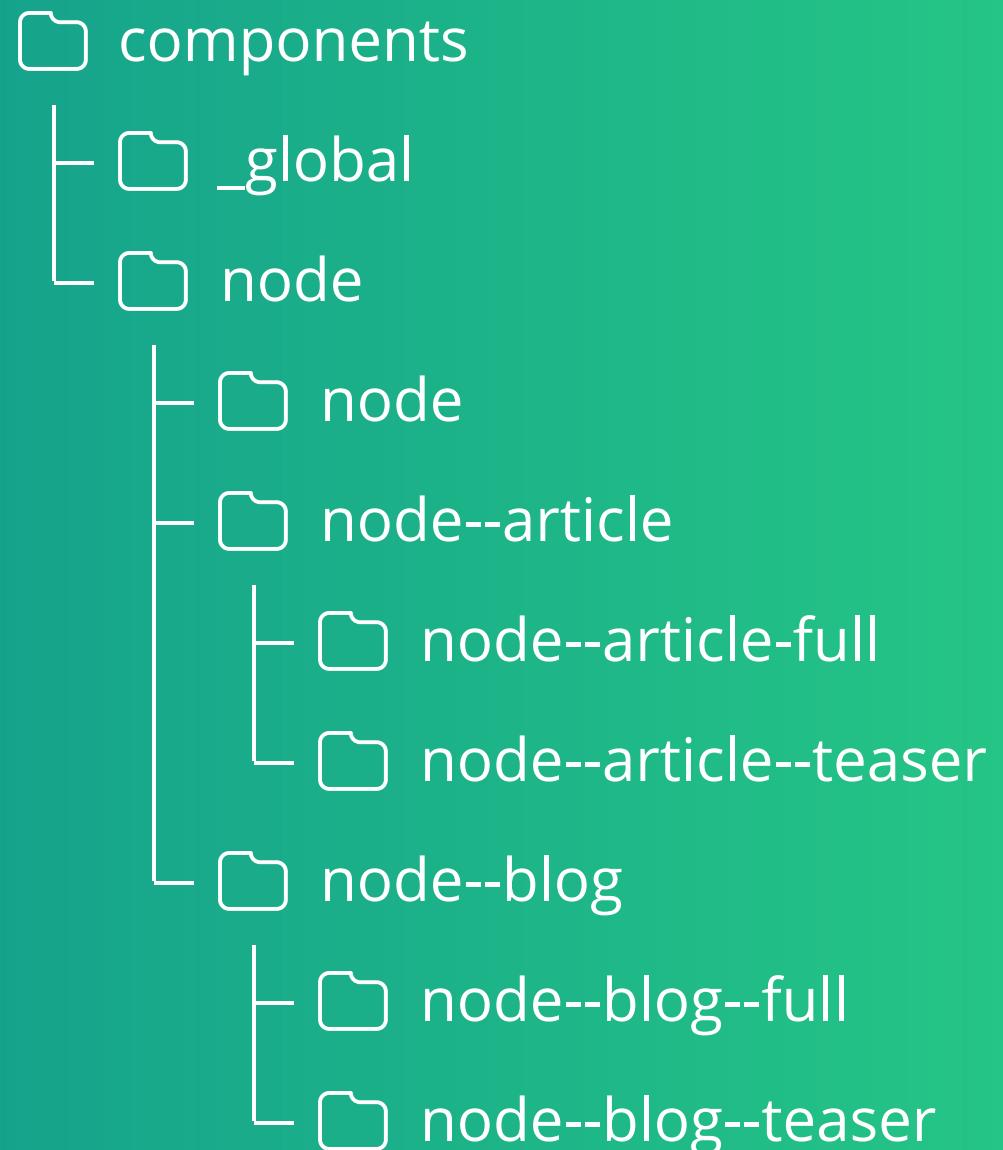
Advantages



Advantages



Advantages





Advantages

... and loads more



Advantages

Browsersyncing,
Sass globbing,
Source mapping,
Cross-component variables & mixins
Auto-cleaning up empty directories,
Features as options.



Platform
to share

Tooling
workflow

New theme
structure



How?

New platform
to share



How?

Downloading



How?

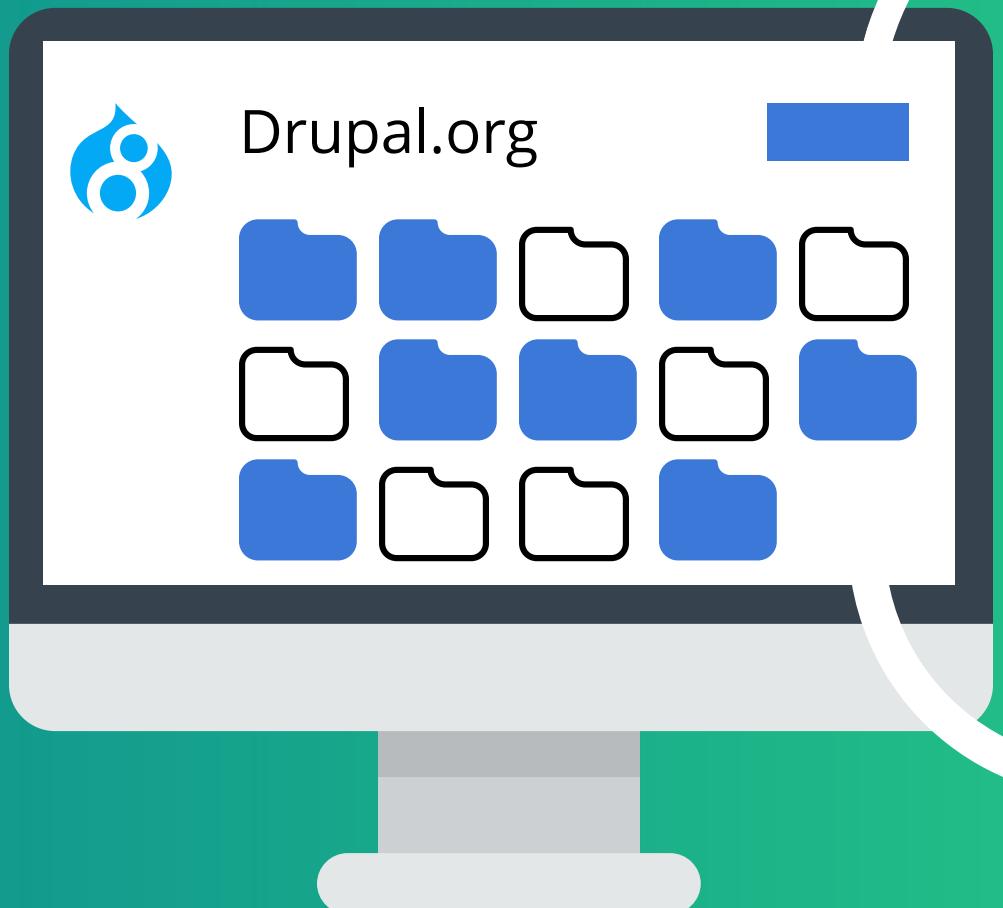


Download theme-structure + tools

Download contributed components



How?





Advantages

New platform
to share



Advantages

Drag and drop
cross-projects



Advantages

Drag and drop
cross-projects
-developers



Advantages

Drag and drop
cross-projects
-developers
-companies



Advantages

Project-agnostic
components



```
└── components
    └── page
        ├── libraries.yml
        ├── my-component.html.twig
        └── my-component.scss
```

Advantages

- Strip project specific content
- Strip color, fonts & variables



compony.io/blog/create-compony-component



Advantages

Share information
on components



COMPONENTS /

+ Status messages

Login

A flat approach to theming Drupal's status messages by the use of emoji SVG's.

Components

Collections

› More

Machine name

status-messages

Built upon

Drupal Core

Perks

Secured by Compony

Using Sass

Responsive

Accessible

Inspired by

Flat design

Stats

Public component

111 downloads

4 commits

No open issue

Contributors

Compony



This is a status message



This is a warning message.



This is an error message

Download component



Advantages

Collaborate
on components

T **text-dropdown** 

Project ID: 7513925

 Star 0 [Clone](#)

No license. All rights reserved · 2 Commits · 1 Branch · 0 Tags · 195 KB Files

master  text-dropdown [History](#)  Find file 

 Make the container fully responsive
Compony authored 1 month ago  dc8cd742

Name	Last commit	Last update
 dist	Initial commit.	11 months ago
 dropdown-arrow.svg	Initial commit.	11 months ago
 libraries.yml	Initial commit.	11 months ago
 text-dropdown.html.twig	Initial commit.	11 months ago
 text-dropdown.js	Initial commit.	11 months ago
 text-dropdown.scss	Initial commit.	11 months ago

Advantages

T

text-dropdown
componies/flat-design/Custom/text-dropdown

master -

Edit

dist

dropdown-arrow.svg

libraries.yml

text-dropdown.html.twig

text-dropdown.js

text-dropdown.scss

Commit...

0 unstaged and 0 staged changes

dropdown-arrow.... x text-dropdown.ht... x text-dropdown

Edit Open in file view ↗

```
1 @import "sass-essentials";  
2  
3 .text-dropdown {  
4   display: inline-block;  
5   margin-bottom: 20px;  
6   width: 100%;  
7 }  
8  
9 .text-dropdown__toggle {  
10  text-decoration: none;  
11  position: relative;  
12  text-align: left;  
13  border-radius: 5px;  
14  background: transparent;  
15  transition: all 0.2s ease;  
16  padding: 0 20px 0 0;  
17  word-break: break-word;  
18  
19  &:hover,  
20  &:focus {  
21    background: transparent;  
22    text-decoration: underline;  
23  }  
24  
25  svg {  
26    transition: all 0.2s ease;  
27    height: 22px;  
28    width: 14px;  
29    position: absolute;  
30    top: 50%;  
31    right: 0;  
32    transform: translateY(-50%) rotate(0deg);  
33  }  
34  &.js-open svg {  
35    transform: translateY(-50%) rotate(-180deg);  
}
```

Advantages

GitLab Projects Groups Activity Milestones Snippets

GitLab.org > GitLab Community Edition > Issue Boards

Workflow Search or filter results... Edit board Add list Add issues

Backlog 11673 +

Improve consistency in the way we retrieve project & group in API endpoints #20728
Deliverable Plan Platform api technical debt

Wiki Page History appears to direct to wrong link and 404s #29528
Platform backend bug wiki

What does "xxxx restored source branch xxxx 4 minutes ago" mean? #28918
Accepting Merge Requests Create backend bug merge requests

Product Discovery: Rebase, retest, then merge #35261
CI/CD Deliverable UX backend devops:verify feature proposal frontend product discovery product work test

JUnit XML MR Widget: Link From Widget To Failed Testfile #46564
CI/CD Stretch customer devops:verify feature proposal merge requests

Clean up `FillFileStore` background migrations with `BackgroundMigration.steal` #46865
CI/CD Platform Stretch backstage devops:verify

In dev 33 +

JUnit XML Test Summary In MR widget #45318
CI/CD Deliverable In dev Product Vision 2018 UX ready backend customer devops:verify direction feature proposal frontend merge requests

Multi JIRA issue transition allows #43602
P1 Community Contribution In dev Plan Stretch backend feature proposal jira

Filter discussion (tab) by comments or activity in issues and merge requests #26723 P5
Deliverable In dev Plan UX ready backend code review feature proposal frontend merge requests

Improve memory usage and performance of PostReceive #37736 P5
Deliverable In dev P2 Platform S2 availability backend devops:create memory usage performance

Remove accessing issue edit web form #36670
Deliverable In dev Plan backend issues technical debt

In review 24 +

`ExpireBuildArtifactsWorker` is broken #41057
CI/CD In review P3 S3 database devops:verify missed-deliverable performance

Ensure that all CI/CD queries take less than 15 seconds to complete #40524
CI/CD In review Stretch database devops:verify meta missed-deliverable performance

Don't update an MR's closing issues relationship after it's merged #44821 P1
In review Plan Stretch backend bug issues merge requests

View group milestones on dashboard milestone page #35748 P2
Deliverable In review Plan UX ready backend customer frontend milestones

Prune unreferenced Git LFS objects #30639 P5
In review P3 Platform S3 backend customer devops:create feature proposal lfs repository

(meta) Emails #24832
In review Plan emails meta

Closed 28542

The activity feed is not accessible for empty projects #29577
Next Patch Release frontend regression reproduced on GitLab.com

Sequential scans on "routes" table increased from 0 to 1 billion scans per minute #29554
Next Patch Release Plan Platform bug database performance reproduced on GitLab.com

Add metrics button to Environment Overview page #29341
Deliverable Monitoring UX feature proposal

Too high project limit results in error 500 upon user creation #29116 P1
Platform bug user management

Diff comment avatars incorrectly escape #29572
Next Patch Release diff frontend regression

Display Prometheus button by default, and add empty/error states #29212
Deliverable Monitoring UX ready



Advantages

Invent component
variations

+ Material cookie compliance

Some very basic theming for the EU cookie compliance component.

Machine name

eu-cookie-compliance

Perks

 [Secured by Compony](#)

 Using Sass

 Responsive

 Accessible

Stats

 20 downloads

 1 commit

 [No open issue](#)

Built upon

 EU Cookie Compliance

Building blocks

 HTML

 CSS

Contributors

 Compony

Advantages

= COMPONENT

+ Material cookie compliance

Some very basic theming for the EU cookie compliance component.

Machine name

eu-cookie-compliance

Built upon

🔗 EU Cookie Compliance

Perks

Secured by Compony

Using Sass

Responsive

Accessible

Stats

20 downloads

1 commit

No open issue

Advantages



COMPONENT

+ Smooth cookies

Very smooth animations for the EU cookie compliance component.

Machine name

eu-cookie-compliance

Built upon

🔗 EU Cookie Compliance

Downloads

8.x-1.6  released 19 June 2019

✓ Recommended by the project's maintainer.

⬇ tar.gz (41.18 KB) | zip (56.94 KB)

Development version: [8.x-1.x-dev](#) updated 16 May 2019 at 12:08 UTC

Testing result: PHP 5.5 & MySQL 5.5, D8.7 Build Successful [all results](#)

7.x-1.29  released 19 June 2019

✓ Recommended by the project's maintainer.

⬇ tar.gz (37.33 KB) | zip (46.4 KB)

Development version: [7.x-1.x-dev](#) updated 16 May 2019 at 22:03 UTC

[View all releases](#)

Component variations

Material Cookie Compliance By Thomas Fava

✓ Recommended by the project's maintainer.

[See more](#)

Clean inclusive Cookie Bar By Pinky

[See more](#)

Smooth cookies By Haily

[See more](#)

Advantages

(Still in development)



Advantages

Component collections



COLLECTION

Form items

 Compony

This is a collection of interesting form-implementations

Contents

- ›  fieldset
- ›  form
- ›  form-item
 - ›  form-item
 - ›  form-item--checkbox
 - ›  form-item--date
 - ›  form-item--radiobuttons
 - ›  form-item--select
 - ›  form-item--textarea

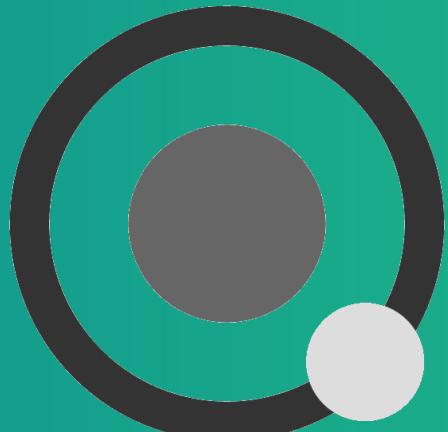
Stats

 3 downloads

Advantages



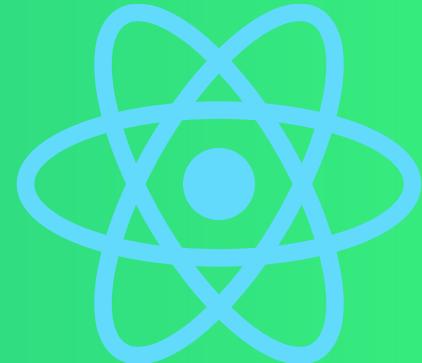
webpack



{less}



Advantages





Advantages

Community based
enhancements



Advantages

Proud Drupal
Frontend developer



Advantages

What is your node
version.



Advantages

And lots more



Advantages

Component naming & nesting convention

Twig and hook extending conventions

Documentation on the 4 PHP functions

Version control of components



compony.io/docs/documentation/documentation



Putting
it
together



Create new account | Commerce | Help | Log in | Logout | Register | Home

Not Secure | company.docker.jamalne.lo:8080/register

Create new account

This is the output of drupal_set_message():

[Log in](#)

[Create new account](#)

[Reset your password](#)

Email address A valid email address. All emails from the system will be sent to this address. The email address is not made public and will only be used if you wish to receive a new password or wish to receive certain news or notifications by email.

Username Several special characters are allowed, including space, period (.), hyphen (-), apostrophe ('), underscore (_), and the @ sign.

[Create new account](#)



A screenshot of a web browser window displaying the Compony theme homepage. The browser has two tabs open: 'Company | Company' and 'Status messages | Company'. The address bar shows 'localhost:3000'. The main content area features a large 'Compony' title, a video player placeholder, and download/browsing buttons.

Company | Company

Status messages | Company

localhost:3000

Compony

This is the output of a drupal_set_message.
Compony is an opinionated solution
the Frontend of Drupal 8. (Blogpost)

Download the kickstart-theme, and then pick your components you want to
plug in to your theme.

Download

Browse components

Version: v1.0.5



Mathieu Spillebeen

Freelance Drupal Frontend developer

- 🌐 frontendunited.org/get-involved
- 📢 compony.io/social
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- 🐦 [@MathieuSpil](https://twitter.com/MathieuSpil)





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F FRONTEND
UNITED
Minsk | 2020
1-2 May

www.frontendunited.org



Thank you for
listening