Driesnote Amsterdam

DrupalCon October 2019

Table of contents

Drupal 8.8 update

Drupal 8.8 to be released on December 4th

8.8.x branch opened

8.8.0–alpha1

8.8.0–beta1

8.8.0–rc1

8.8.0 released on December 4th

2019

July   August   September   October   November   December

Development

Stabilizing

We are here

4 strategic tracks

↓

13 initiatives

Keep Drupal relevant and impactful

API-first / Decoupled / Headless

Six-month feature releases

Configuration management

Easy upgrade to Drupal 9

Extended security support

Administration UI

Media

Automatic updates

Composer

Make Drupal easy for content creators and site builders

Out of the box

Migrate

Reduce total cost of ownership for developers and site owners

Layout

Make Drupal easy to evaluate and adopt

Workflow

Administration UI

Media

Make Drupal easy for content
creators and site builders

✓ Layout

Workflow
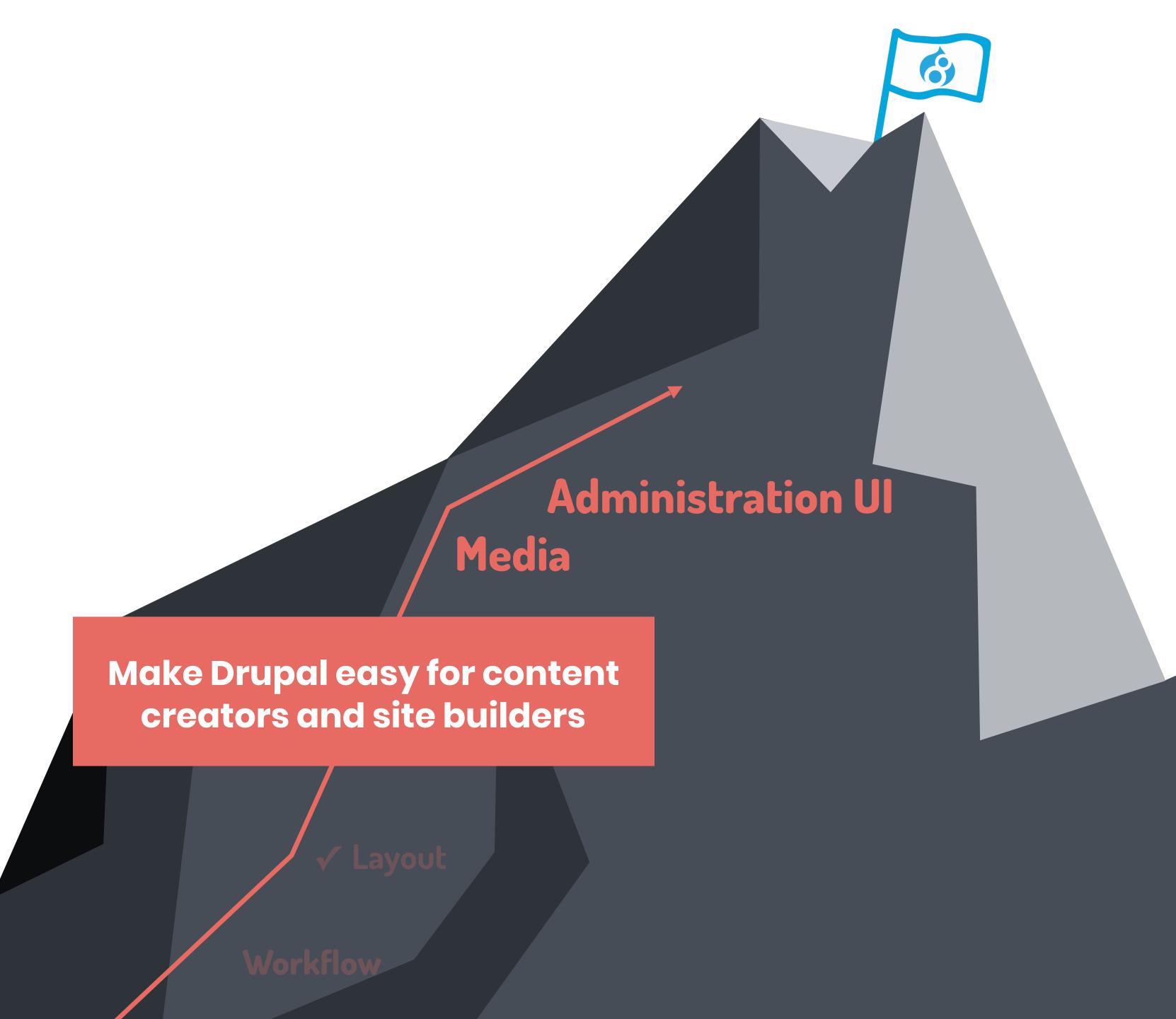
Media is better than ever in Drupal

Media

Media is better than ever in Drupal

Media

Planned for Drupal 8.8:
– Reusable media
– Support for audio and video
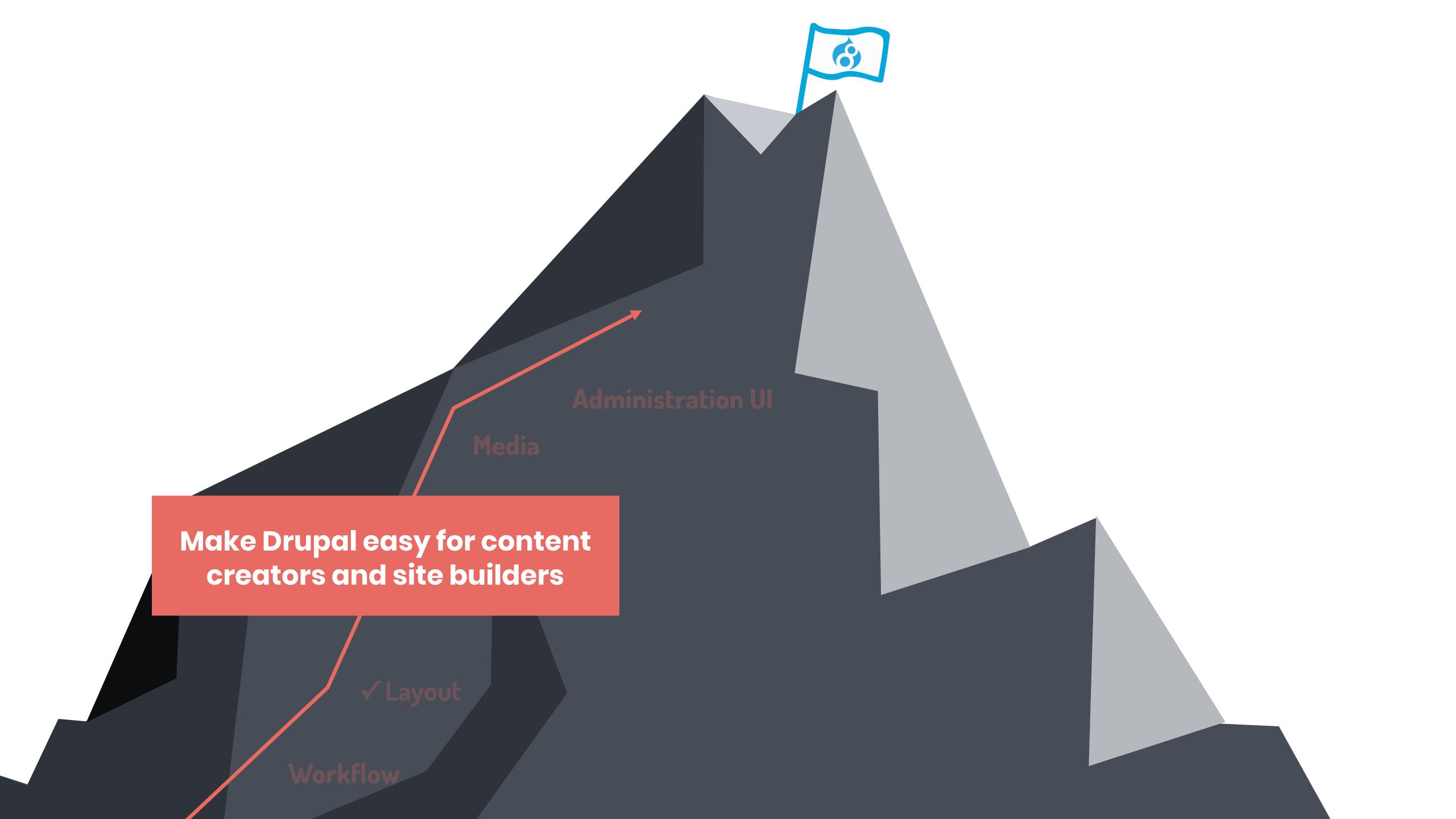– WYSIWYG integration

Drupal has never looked better

Administration UI

Drupal has never looked better

Administration UI

Experimental in Drupal 8.8:
– Modern looking administration UI (Claro)
– Improved accessibility

Make Drupal easy for content creators and site builders

Administration UI

Media

✓ Layout

Workflow

Configuration management

Easy upgrade to Drupal 9

✓Extended security support

Automatic updates

Composer

**Reduce total cost of ownership
for developers and site owners**

Install + update Drupal in 1 step

Composer

Why Composer?

It's hard to update everything on your site:
- You may not know everything that needs to be updated (e.g. 3rd party code)
- Module A v2 may not work with Module B v2

It's Composer's job to sort that all out for you.

Drupal's Composer support could be better

Today, managing Drupal via Composer requires contrib packages or custom solutions.

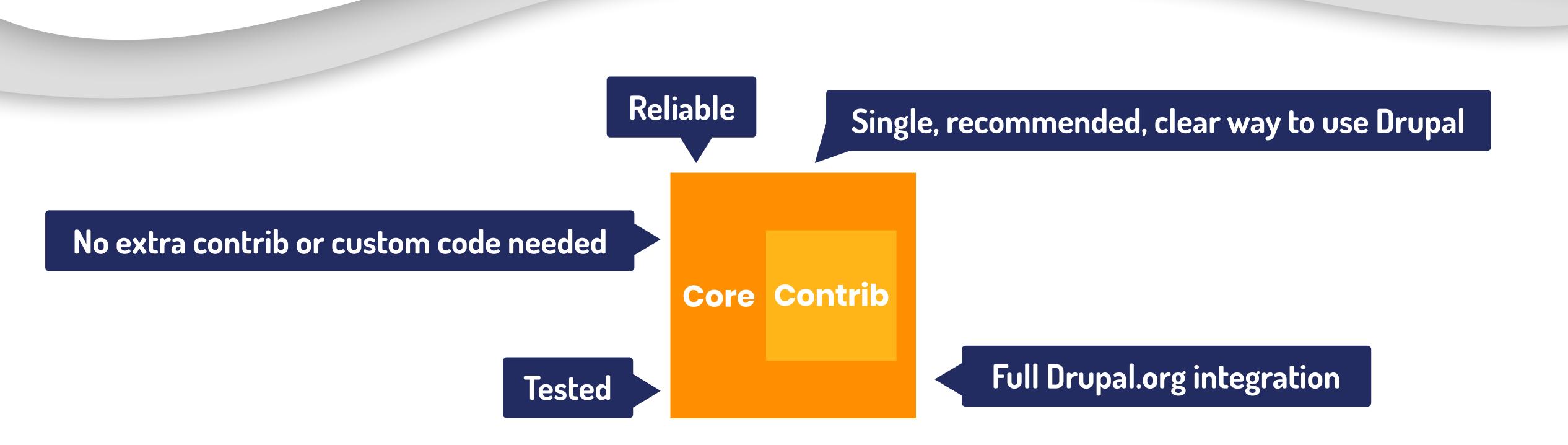Not officially supported

Need for 3rd party tools

Core

Contrib

Poor Drupal.org integration

Limited capabilities & support

More than one way to do this

Too many steps

We improved out-of-the-box Composer support

Reliable

Single, recommended, clear way to use Drupal

No extra contrib or custom code needed

Core Contrib

Tested

Full Drupal.org integration

Install or update Drupal in 1 step!

Install Drupal in 1 step:

```
$ composer --no-interaction create-project drupal/recommended-project:^8.8 my-project
```

Update Drupal in 1 step:

```
$ composer update drupal/core-recommended --with-all-dependencies
```

But what if I don't want to use Composer?

Tarballs are still supported (and Composer-ready tarballs are coming soon)

Install Drupal in 1 step:

```
$ composer --no-interaction create-project drupal/recommended-project:^8.8 my-project
```

Update Drupal in 1 step:

```
$ composer update drupal/core-recommended --with-all-dependencies
```

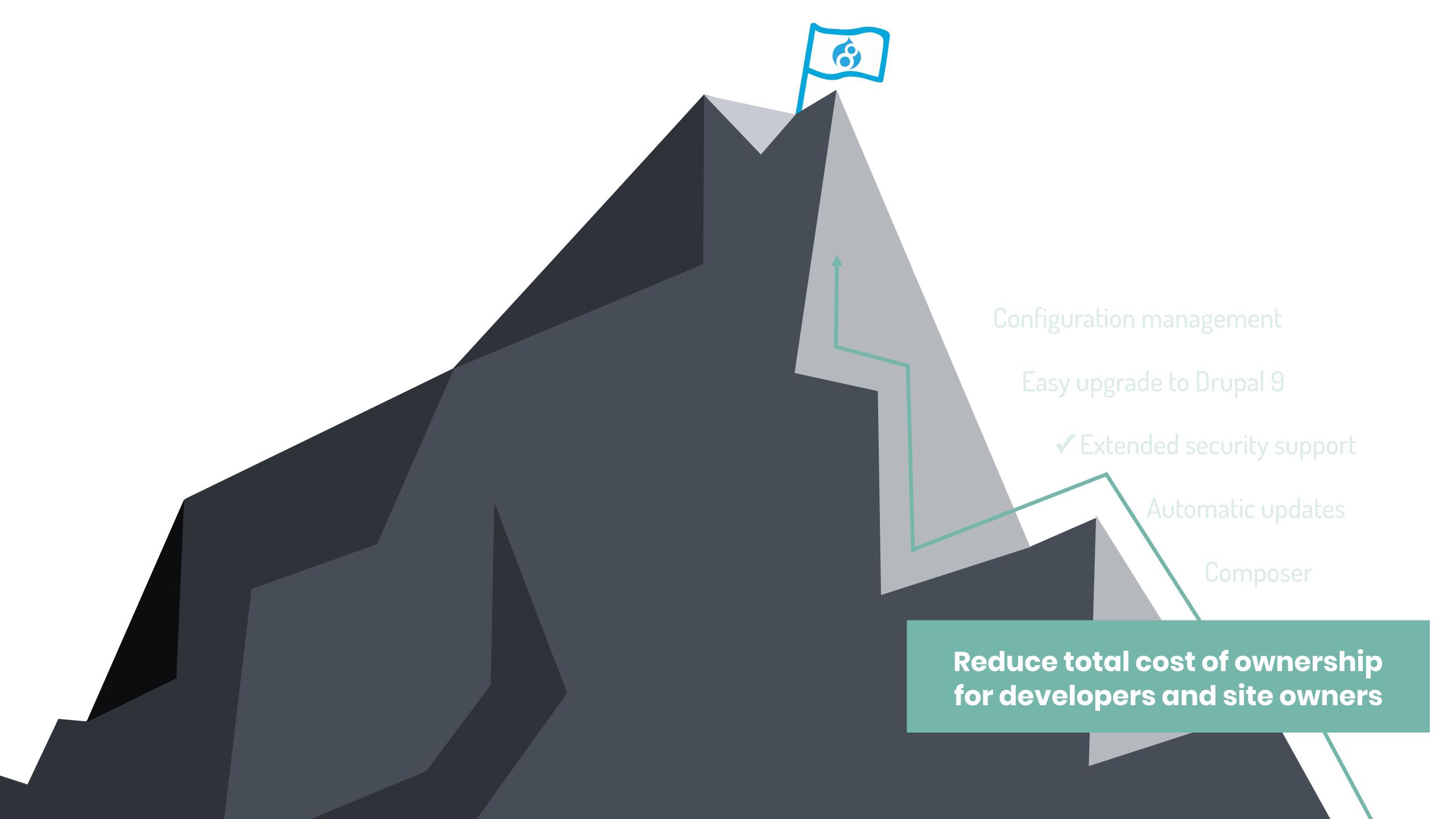# Drupal will upgrade itself automatically

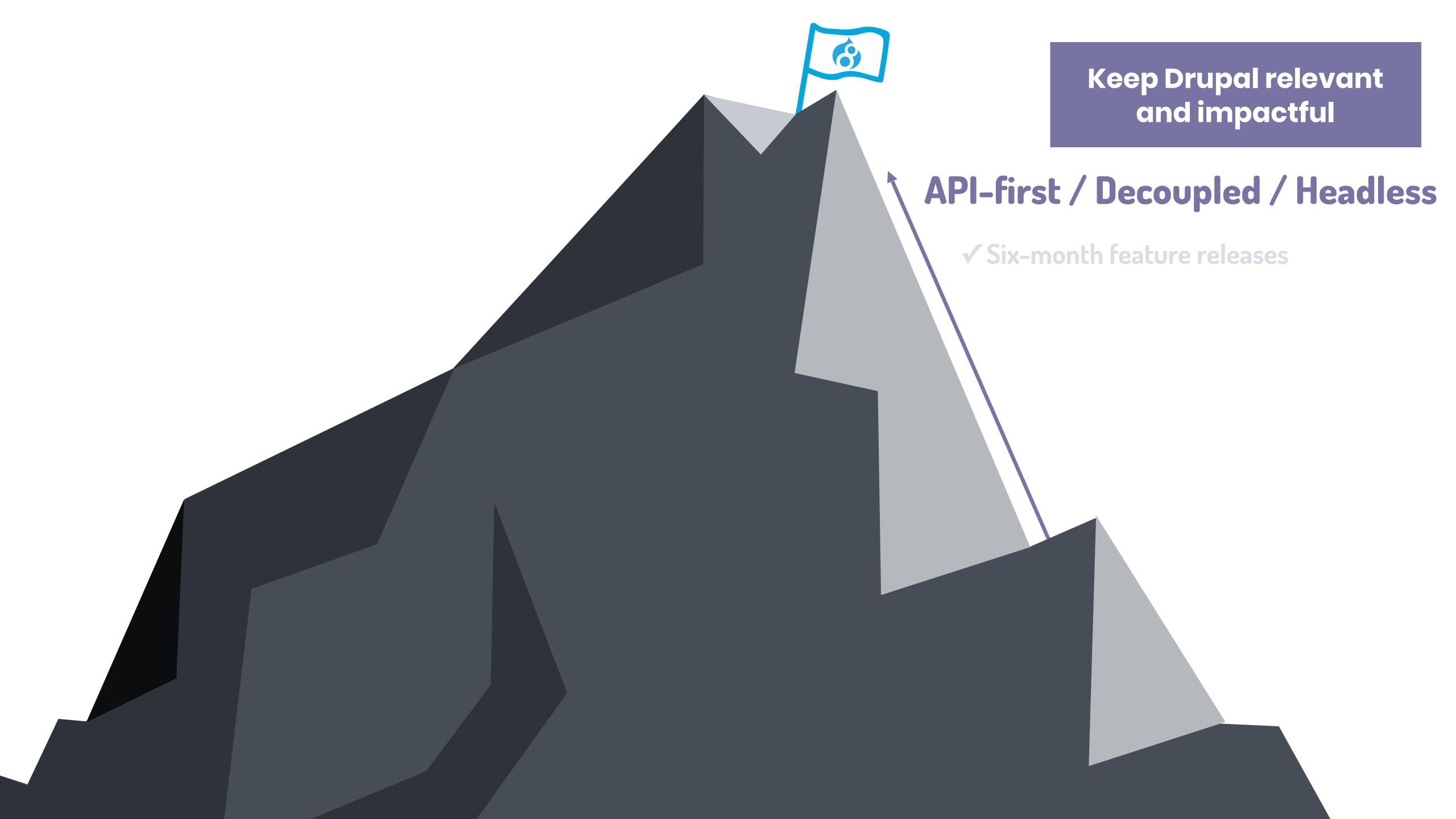Automatic updates

European Commission

The most advanced built-in deployment tools in Drupal's history

Configuration management

- Exclude modules from configuration synchronization (e.g. development modules)
- API support for configuration transformation on import/export

Configuration management

Easy upgrade to Drupal 9

✓ Extended security support

Automatic updates

Composer

Reduce total cost of ownership for developers and site owners

Keep Drupal relevant and impactful

API-first / Decoupled / Headless

✓ Six-month feature releases

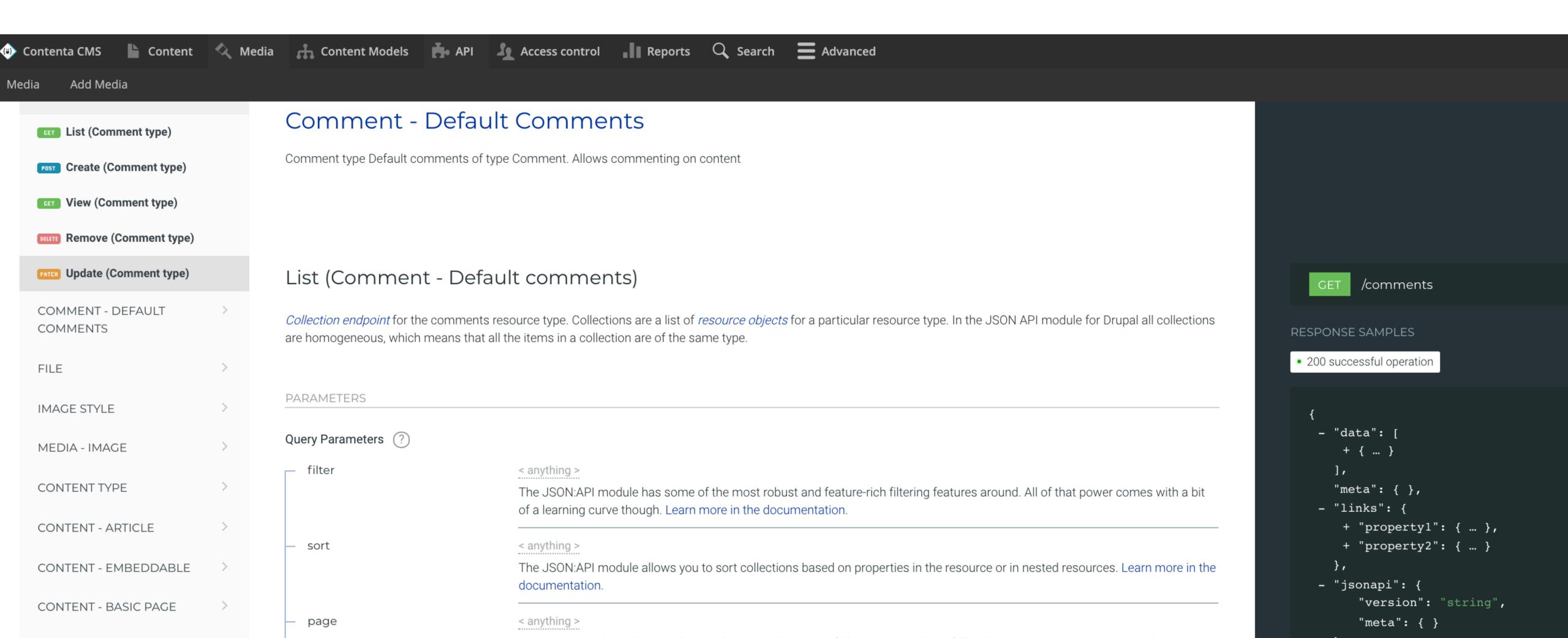# Drupal continues to be a better and better decoupled solution
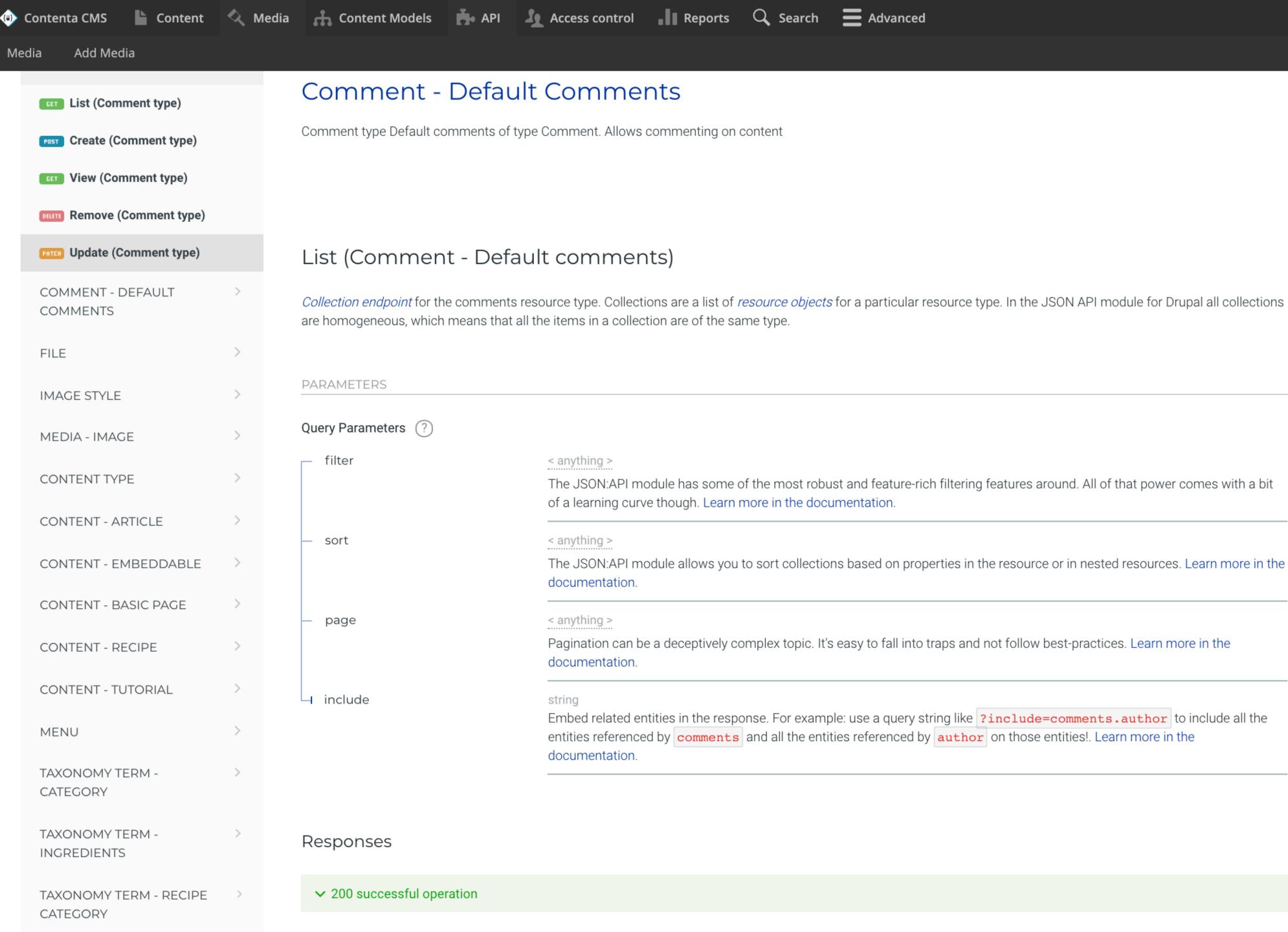
API-first / Decoupled / Headless

Improvements to JSON:API support in the contributed space

✓ **Auto-generated documentation**
Redoc & Swagger via Open API

✓ **Interactivity**
JSON:API Explorer

✓ **Performance improvements**

Auto-generated documentation

API-first / Decoupled / Headless

Media   Add Media

Comment - Default Comments

Comment type Default comments of type Comment. Allows commenting on content

List (Comment - Default comments)

Collection endpoint for the comments resource type. Collections are a list of resource objects for a particular resource type. In the JSON API module for Drupal all collections are homogeneous, which means that all the items in a collection are of the same type.

PARAMETERS

Query Parameters ?

filter	< anything >

The JSON:API module has some of the most robust and feature-rich filtering features around. All of that power comes with a bit of a learning curve though. Learn more in the documentation.

sort	< anything >

The JSON:API module allows you to sort collections based on properties in the resource or in nested resources. Learn more in the documentation.

page	< anything >

Pagination can be a deceptively complex topic. It's easy to fall into traps and not follow best-practices. Learn more in the documentation.

include	string

Embed related entities in the response. For example: use a query string like `?include=comments.author` to include all the entities referenced by `comments` and all the entities referenced by `author` on those entities!. Learn more in the documentation.

Responses

✓ 200 successful operation

GET /comments

RESPONSE SAMPLES

● 200 successful operation

```
{
  - "data": [
      + { … }
    ],
    "meta": { },
  - "links": {
      + "property1": { … },
      + "property2": { … }
    },
  - "jsonapi": {
      "version": "string",
      "meta": { }
    }
}
```

Interactivity

a.k.a. we made JSON:API much easier to learn and use

"Drupal, show me all the players
on the team called 'Ladies in Black.'"

Manually construct URL

```
https://explore.jsonapi.dev/jsonapi/node/player?
include=field_team&filter[field_team.name]=Ladies%20in%20Black&fields[node--
player]=field_first_name,field_last_name&sort=field_last_name
```

JSON: API Explorer
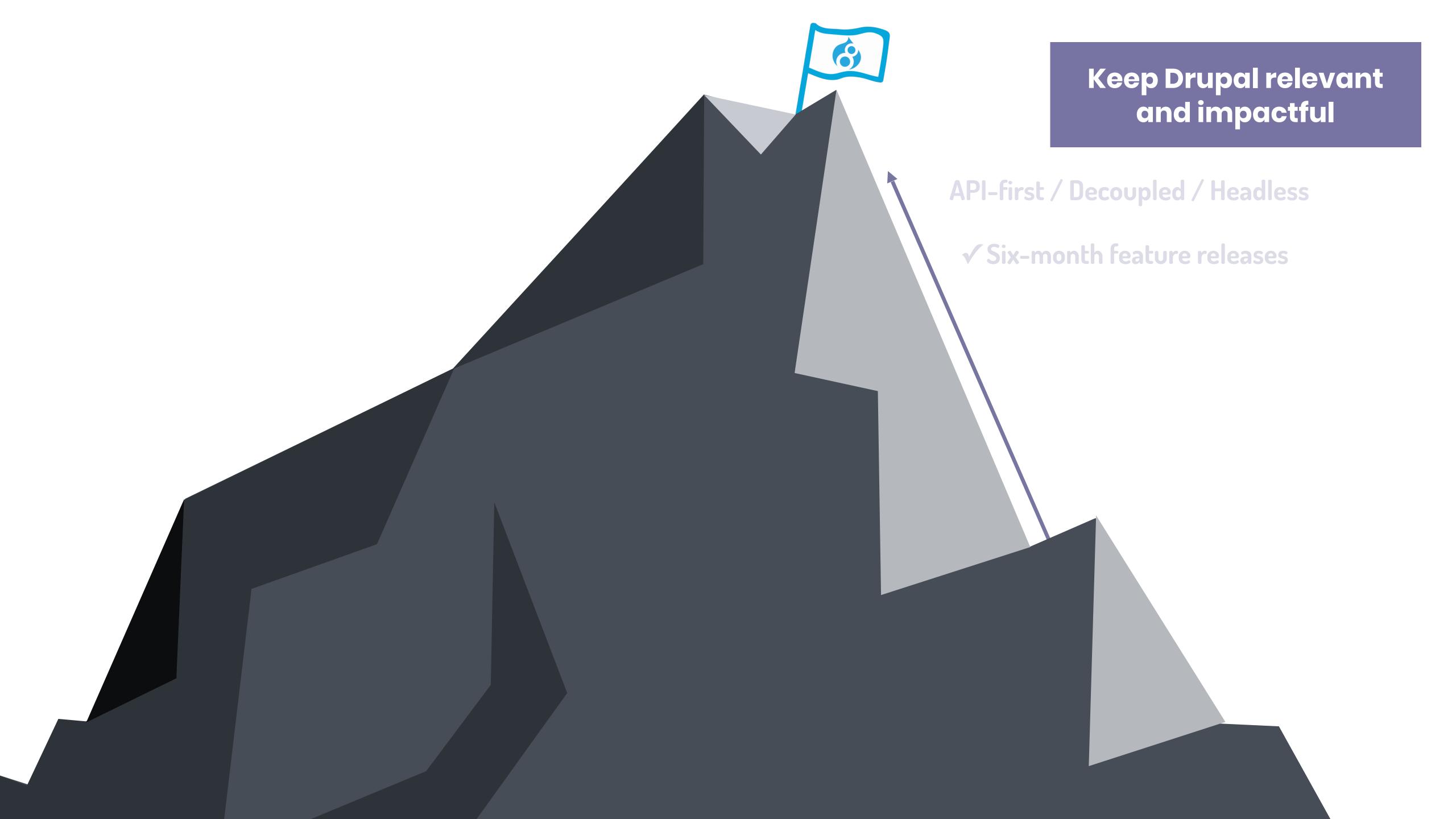
JSON: API Explorer

API-first / Decoupled / Headless

Available as a contributed module at drupal.org/project/jsonapi_explorer

– Build complex JSON:API queries in a UI

– Live results 🔥

Performance improvements
API-first / Decoupled / Headless

We **improved JSON:API performance by 2x** since 8.7.0
(and in some cases much more)

Keep Drupal relevant
and impactful

API-first / Decoupled / Headless

✓ Six-month feature releases

So, how have we been progressing?

Keep Drupal relevant and impactful

API-first / Decoupled / Headless

✓ Six-month feature releases

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✓ Out of the box

Migrate

✓ Layout

Workflow

Make Drupal easy for content creators and site builders

Make Drupal easy to evaluate and adopt

Reduce total cost of ownership for developers and site owners

Amazingly!
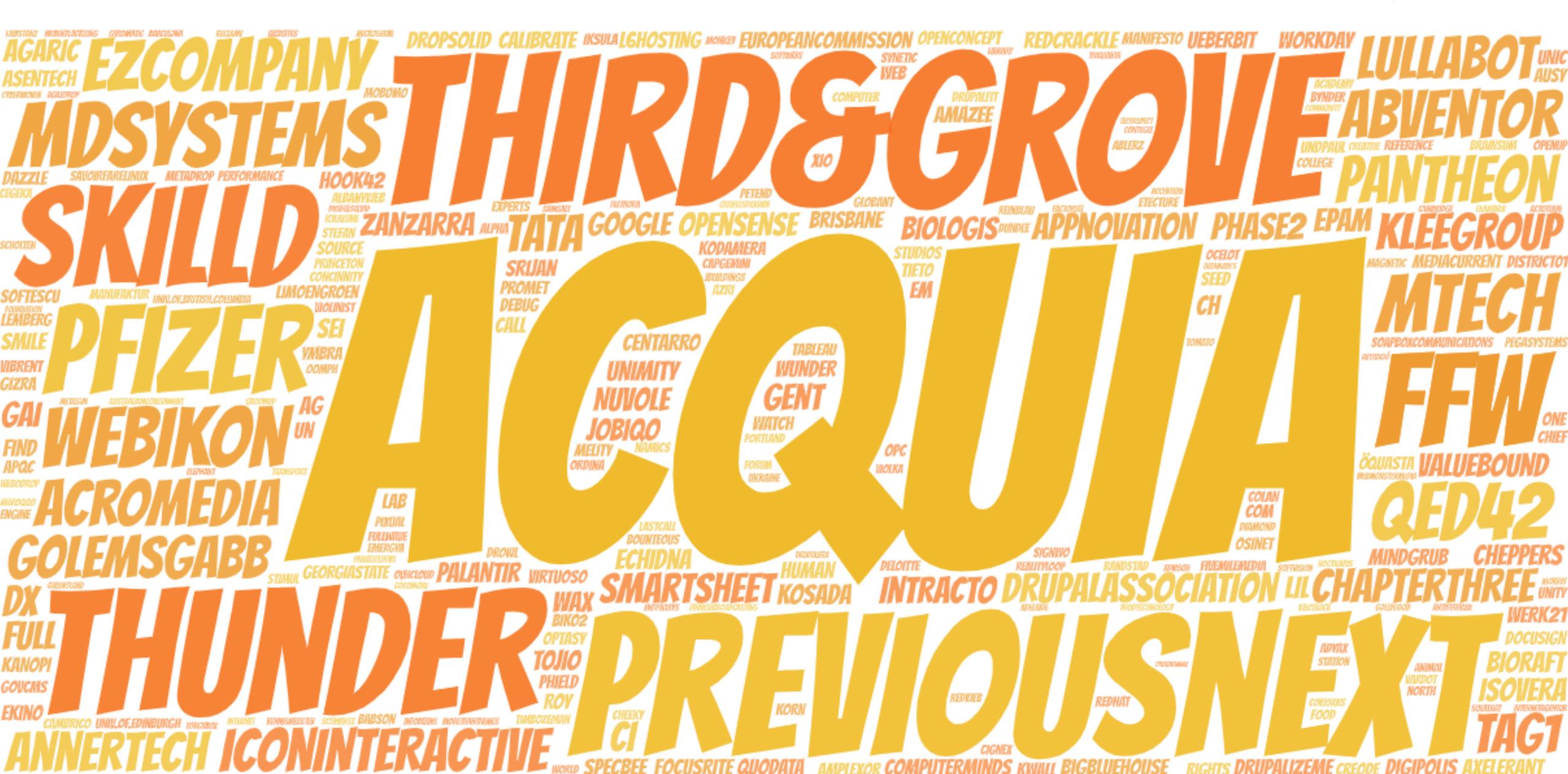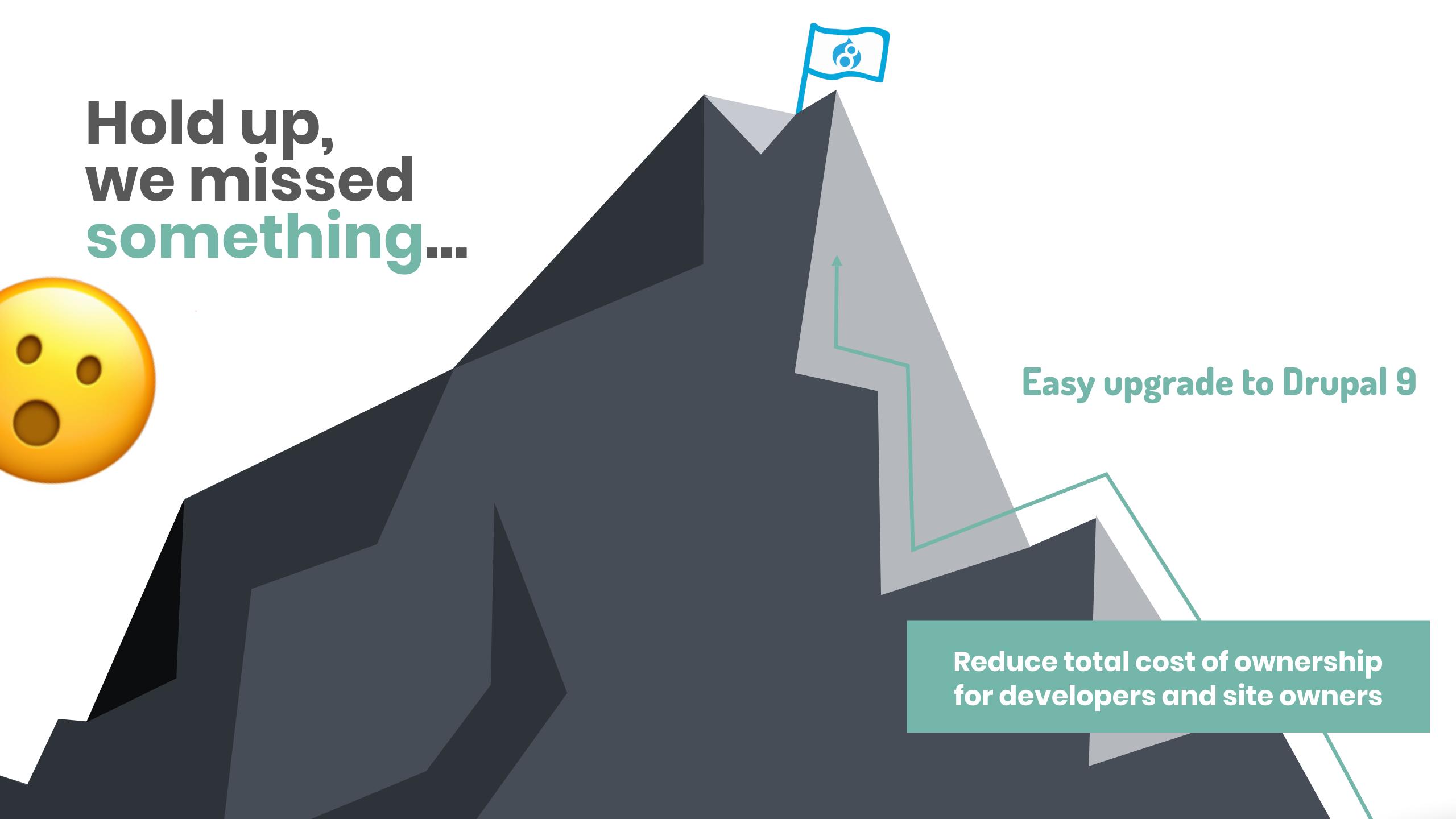
Thanks to the **641 individuals** who worked on Drupal 8.8 so far!

A special thanks to these **243 organizations** for sponsoring

Hold up,
we missed
something...

Easy upgrade to Drupal 9

Reduce total cost of ownership
for developers and site owners

Drupal 9.0 readiness

We are just 8 months out from the Drupal 9 release target.

	2019			2020		
October	November	December	January	February	March	April

The Drupal 9 branch is open for development!

The update from Drupal 8
to Drupal 9 will be easy

How do I update my Drupal 8 site to Drupal 9?

Meet Johanna

She is the site owner for a dog grooming business in Utrecht. **Let's see how she will update her site to Drupal 9.**
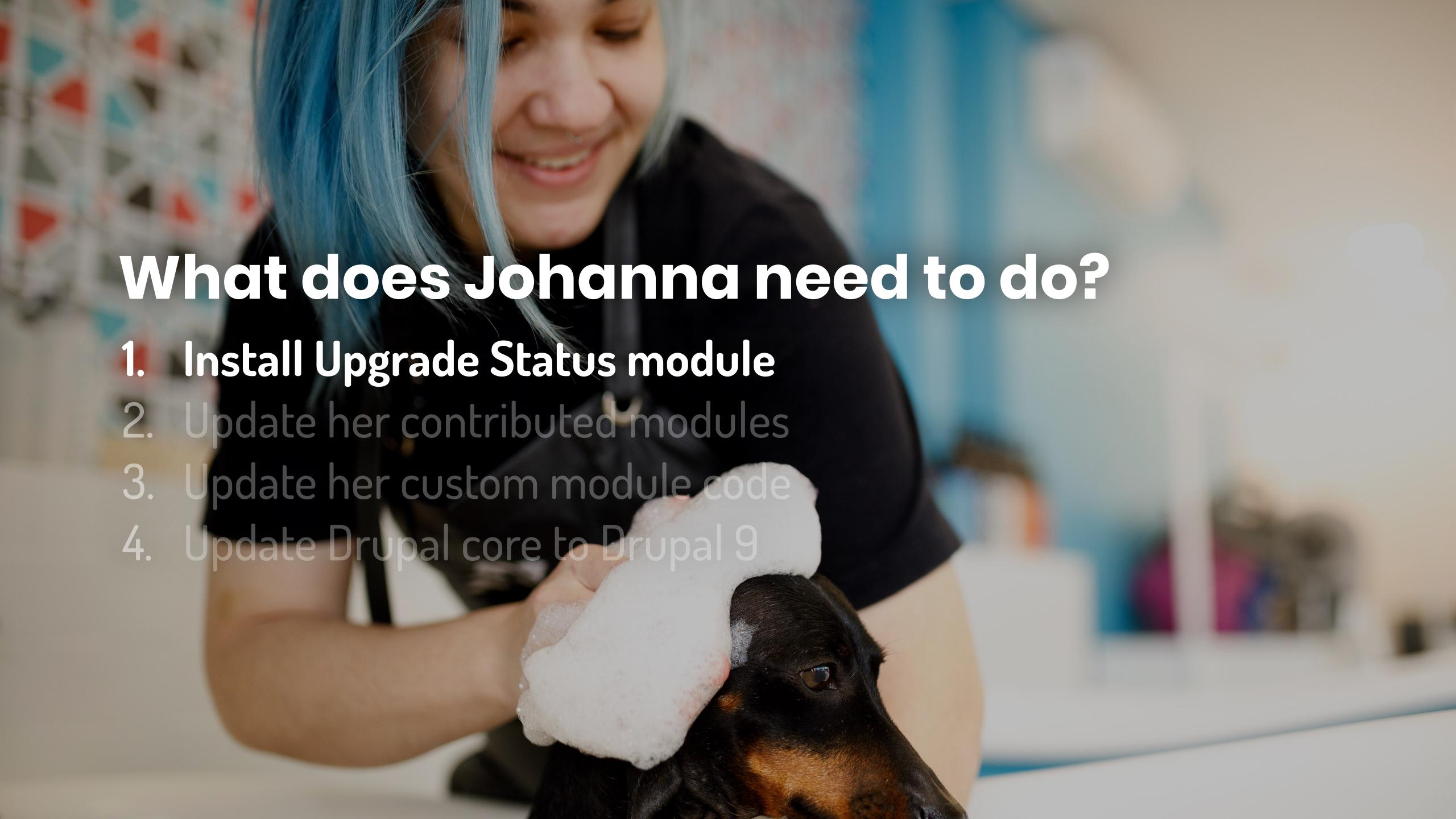
05
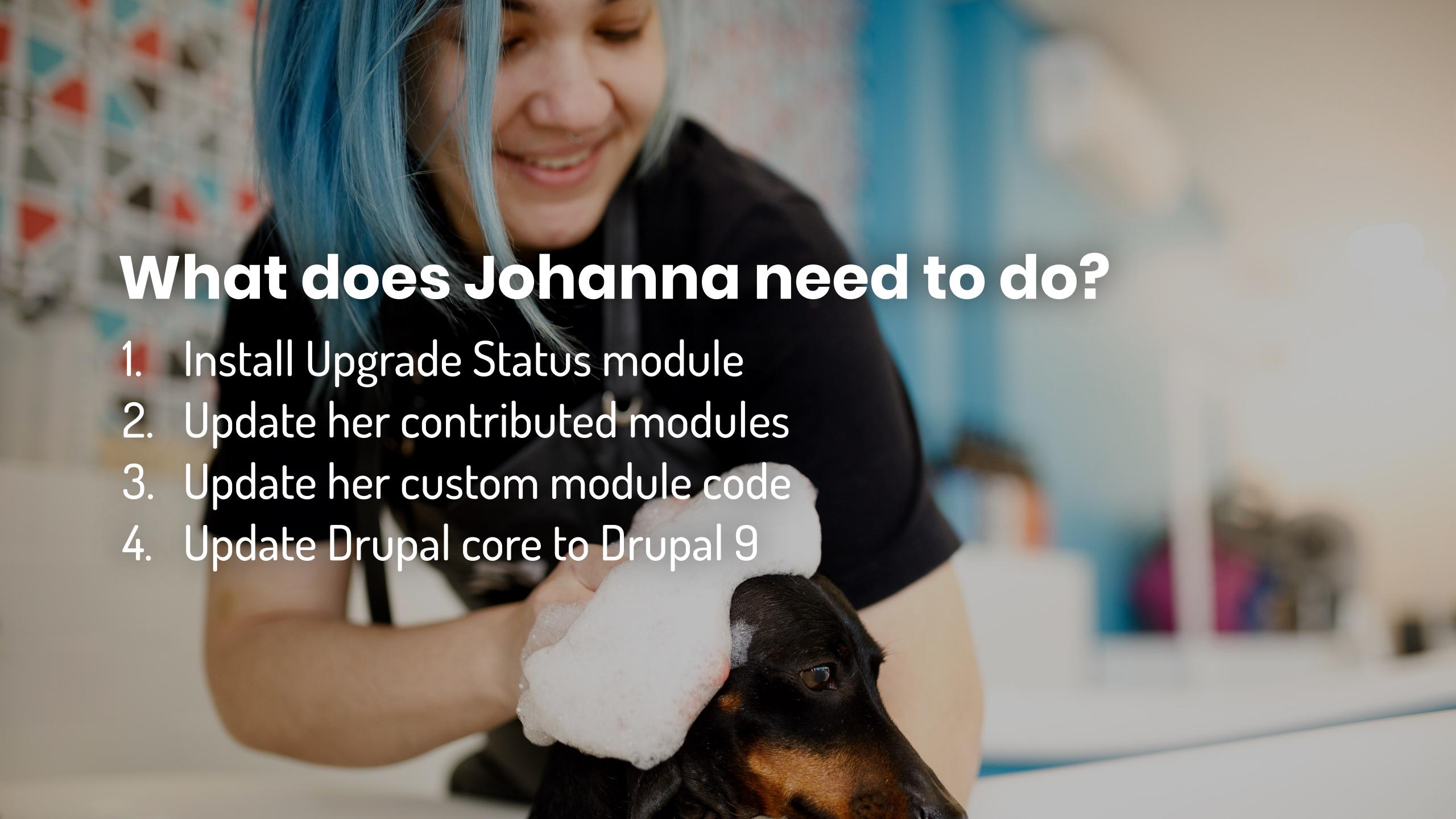
Dogs Like Us

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut.
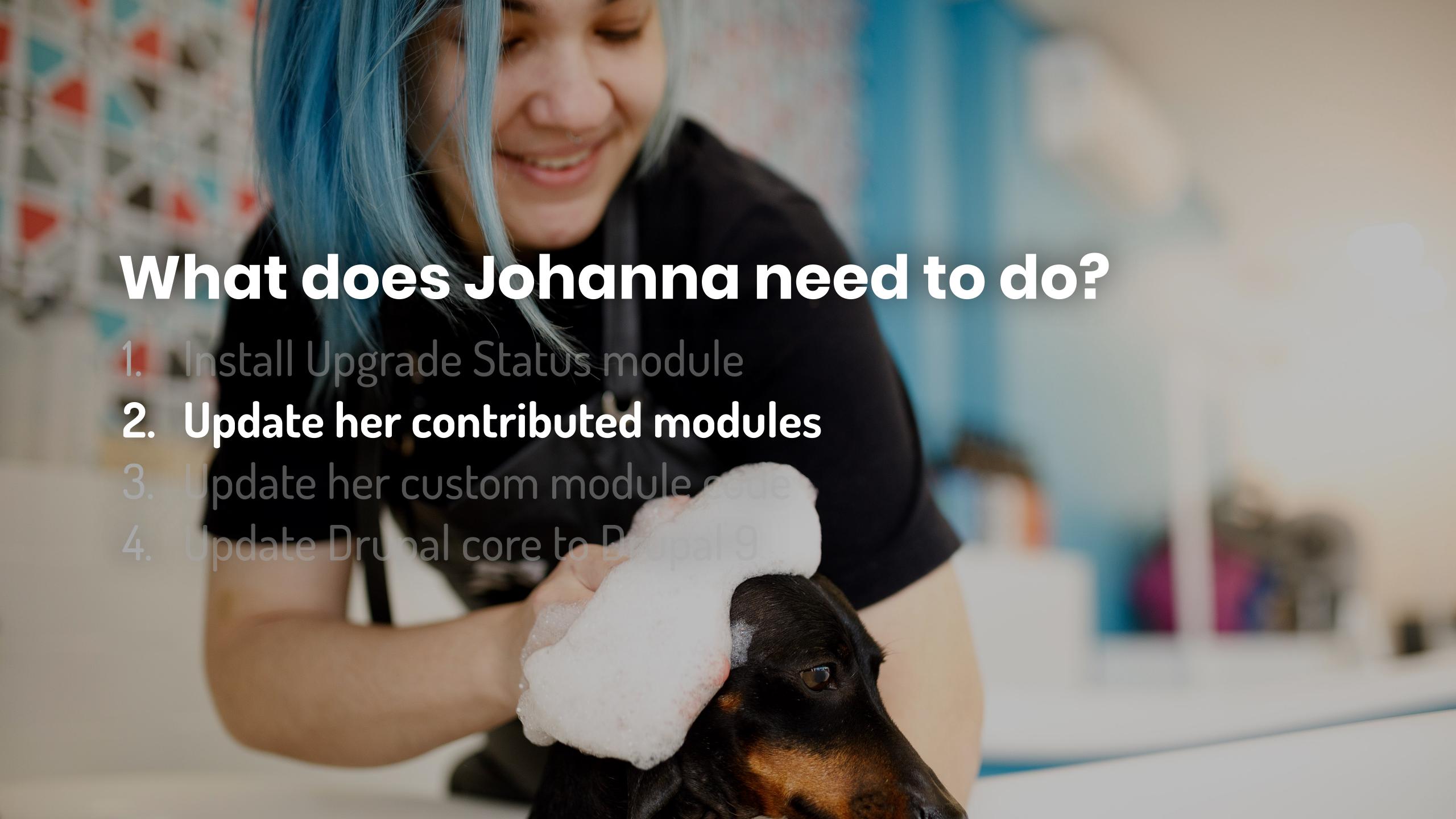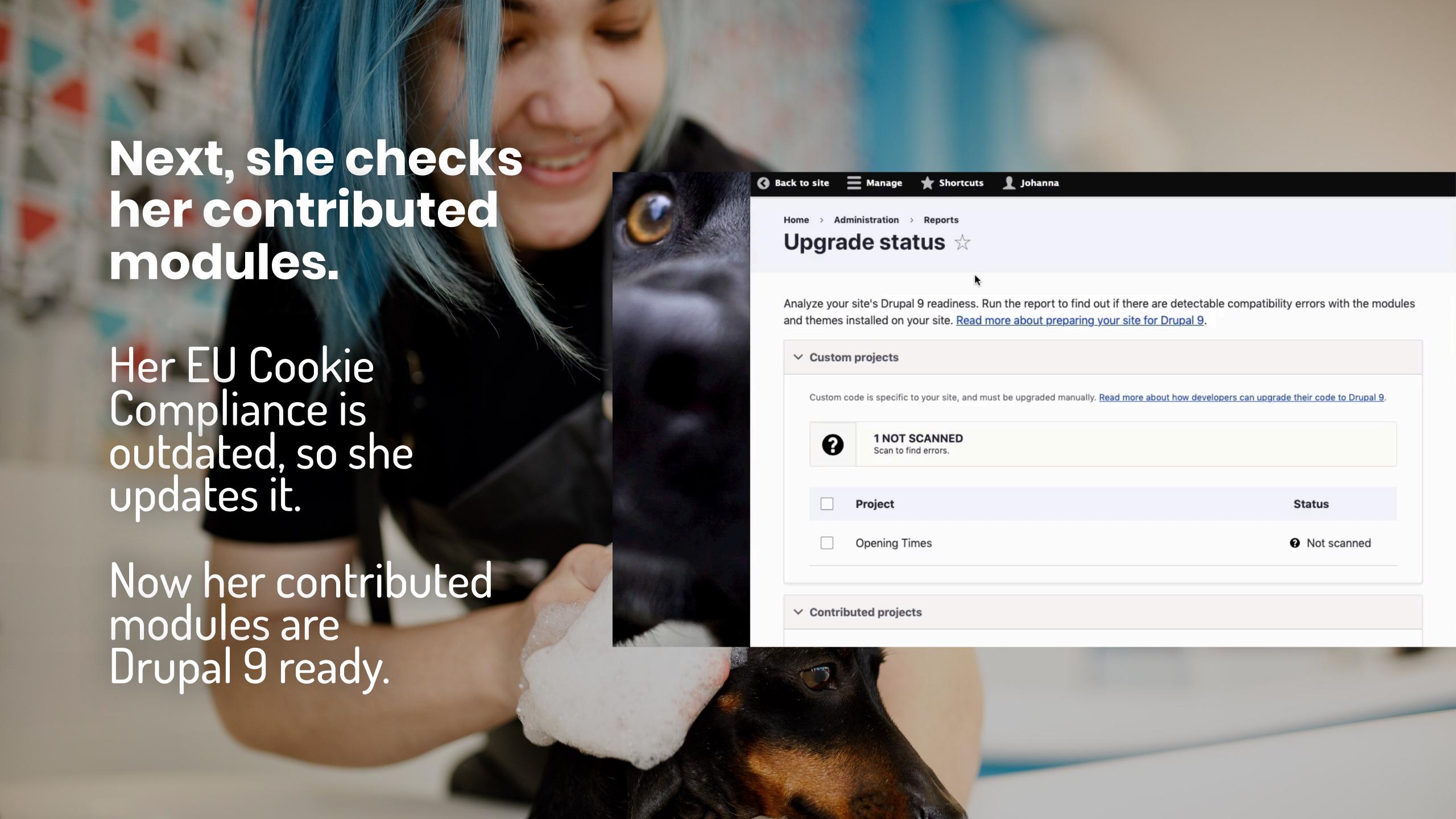
LEARN MORE

FOLLOW US

What does Johanna need to do?

1. Install Upgrade Status module
2. Update her contributed modules
3. Update her custom module code
4. Update Drupal core to Drupal 9

What does Johanna need to do?

1. **Install Upgrade Status module**
2. Update her contributed modules
3. Update her custom module code
4. Update Drupal core to Drupal 9

Johanna$

First, Johanna installs the Upgrade Status module to check her site's readiness for Drupal 9.

What does Johanna need to do?

1. Install Upgrade Status module
2. **Update her contributed modules**
3. Update her custom module code
4. Update Drupal core to Drupal 9

Next, she checks her contributed modules.

Her EU Cookie Compliance is outdated, so she updates it.

Now her contributed modules are Drupal 9 ready.

☰ Manage ⭐ Shortcuts 👤 Johanna
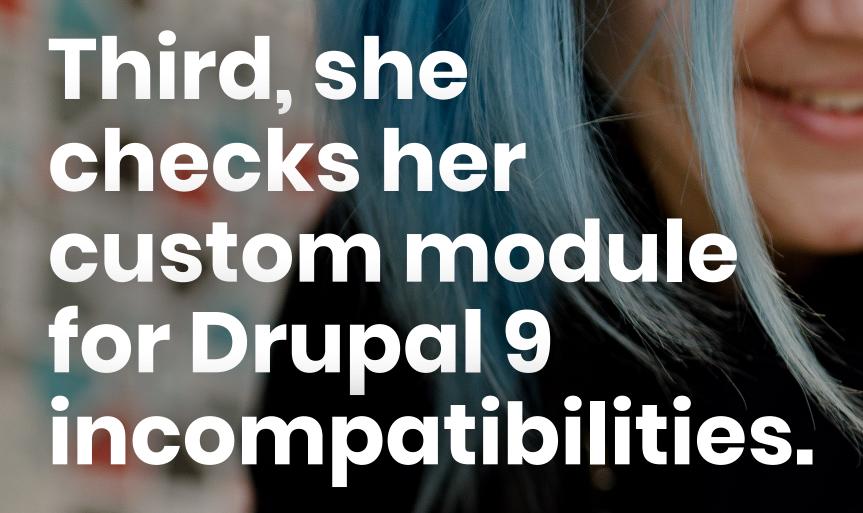
Home › **Administration** › **Reports**

Upgrade status ☆

Analyze your site's Drupal 9 readiness. Run the report to find out if there are detectable compatibility errors with the modules and themes installed on your site. Read more about preparing your site for Drupal 9.
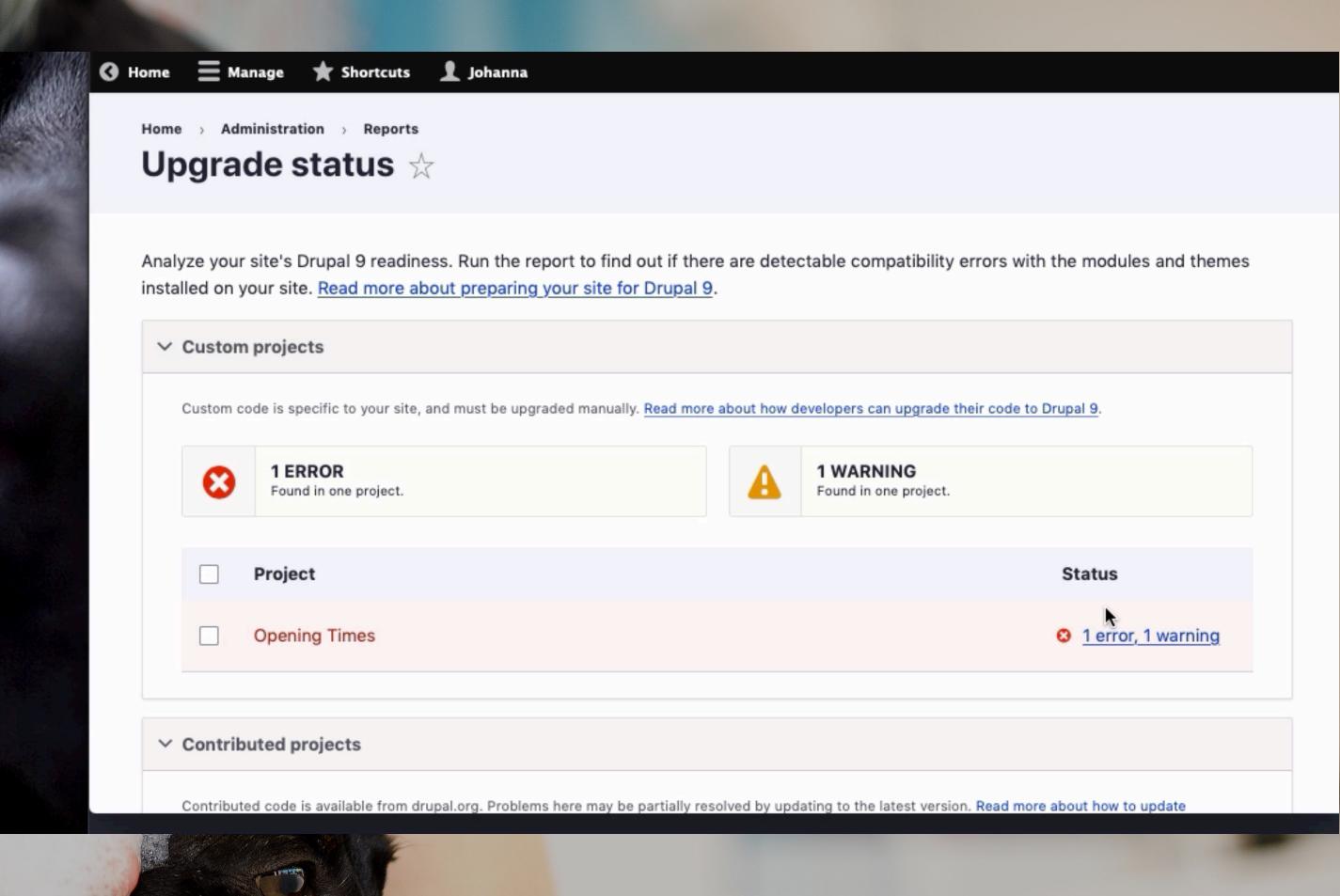
⌄ **Custom projects**

Custom code is specific to your site, and must be upgraded manually. Read more about how developers can upgrade their code to Drupal 9.

❓ **1 NOT SCANNED**
Scan to find errors.

☐ **Project**	**Status**
☐ Opening Times	❓ Not scanned

⌄ **Contributed projects**
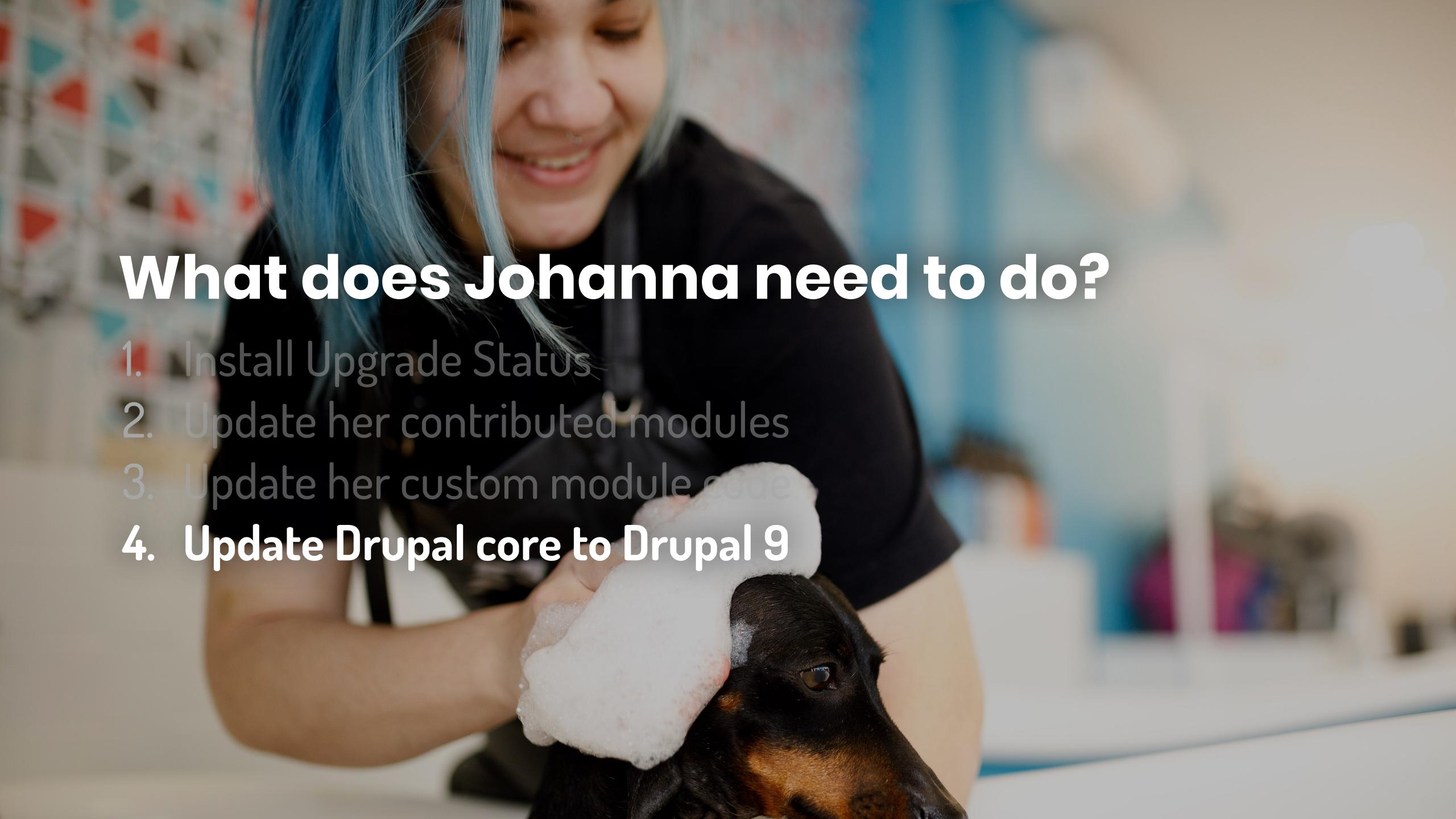
Home > Administration > Reports

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❓ **1 NOT SCANNED**
Scan to find errors.

☐ Project	Status
☐ Opening Times	❓ Not scanned

∨ Contributed projects

What does Johanna need to do?

1. Install Upgrade Status
2. Update her contributed modules
3. **Update her custom module code**
4. Update Drupal core to Drupal 9

Third, she checks her custom module for Drupal 9 incompatibilities.

Upgrade Status finds problems with her custom code.

She fixes the code and runs the test again.

Home   Manage   Shortcuts   Johanna

Home › Administration › Reports

Upgrade status ☆

Analyze your site's Drupal 9 readiness. Run the report to find out if there are detectable compatibility errors with the modules and themes installed on your site. Read more about preparing your site for Drupal 9.
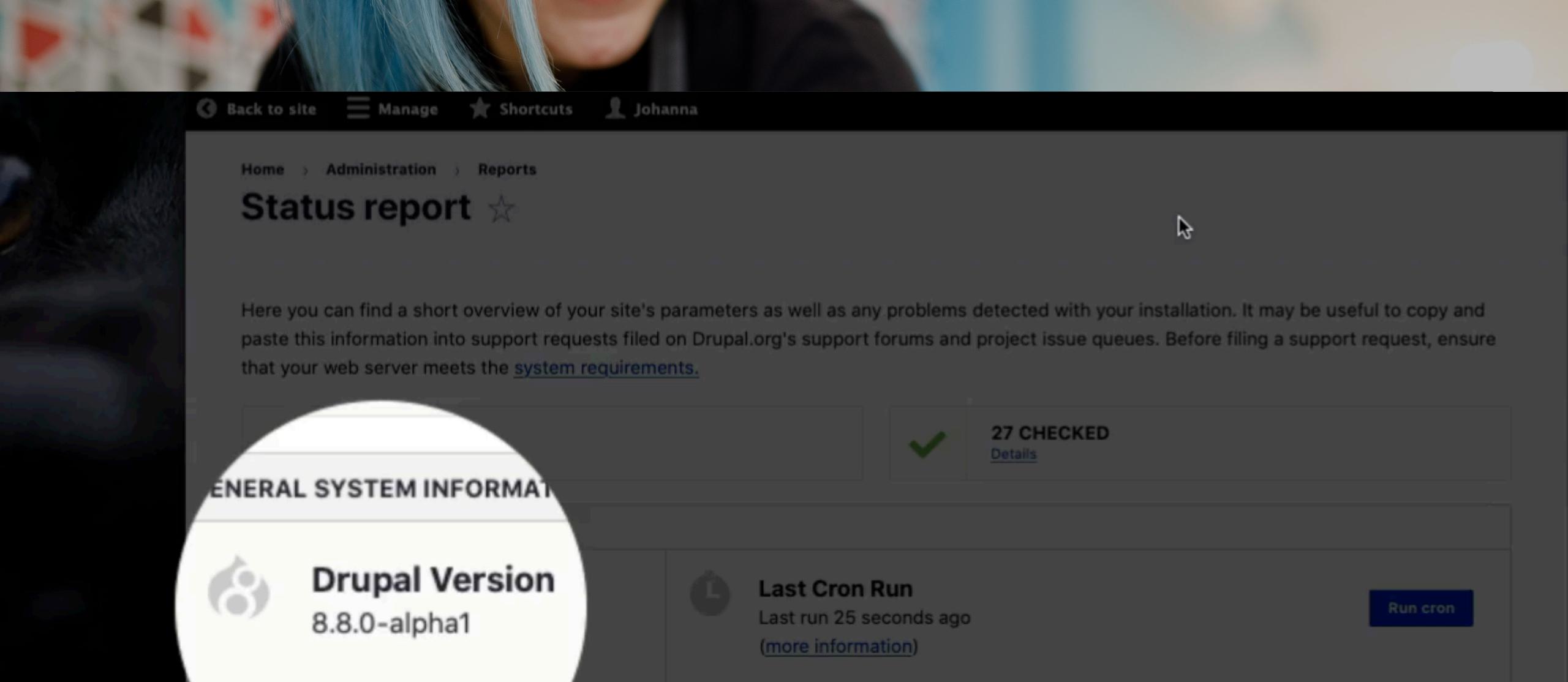
⌄ Custom projects

Custom code is specific to your site, and must be upgraded manually. Read more about how developers can upgrade their code to Drupal 9.

| ❌ | **1 ERROR** Found in one project. | ⚠️ | **1 WARNING** Found in one project. |

☐	**Project**	**Status**
☐	Opening Times	❌ 1 error, 1 warning

⌄ Contributed projects

Contributed code is available from drupal.org. Problems here may be partially resolved by updating to the latest version. Read more about how to update

Home › Administration › Reports

Upgrade status ☆

Analyze your site's Drupal 9 readiness. Run the report to find out if there are detectable compatibility errors with the modules and themes installed on your site. Read more about preparing your site for Drupal 9.

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❌	**1 ERROR** Found in one project.	⚠️	**1 WARNING** Found in one project.

☐	**Project**	**Status**
☐	Opening Times	❌ 1 error, 1 warning

⌄ Contributed projects

Contributed code is available from drupal.org. Problems here may be partially resolved by updating to the latest version. Read more about how to update

What does Johanna need to do?

1. Install Upgrade Status
2. Update her contributed modules
3. Update her custom module code

4. **Update Drupal core to Drupal 9**

Time to update Drupal core to Drupal 9!

Home › Administration › Reports

Status report ☆

Here you can find a short overview of your site's parameters as well as any problems detected with your installation. It may be useful to copy and paste this information into support requests filed on Drupal.org's support forums and project issue queues. Before filing a support request, ensure that your web server meets the system requirements.

✓ **27 CHECKED**
   Details

ENERAL SYSTEM INFORMAT

Drupal Version
8.8.0-alpha1

🕐 **Last Cron Run**
Last run 25 seconds ago
(more information)

Run cron

Home › Administration › Reports

Status report ☆

Here you can find a short overview of your site's parameters as well as any problems detected with your installation. It may be useful to copy and paste this information into support requests filed on Drupal.org's support forums and project issue queues. Before filing a support request, ensure that your web server meets the system requirements.

✓ **27 CHECKED**
   Details

ENERAL SYSTEM INFORMAT

Drupal Version
8.8.0-alpha1

Last Cron Run
Last run 25 seconds ago
(more information)

Run cron

PHP
Version
7.2.16 (more information)
Memory limit
1G

Database
Version
5.7.27
System
MySQL, MariaDB, Percona Server, or equivalent
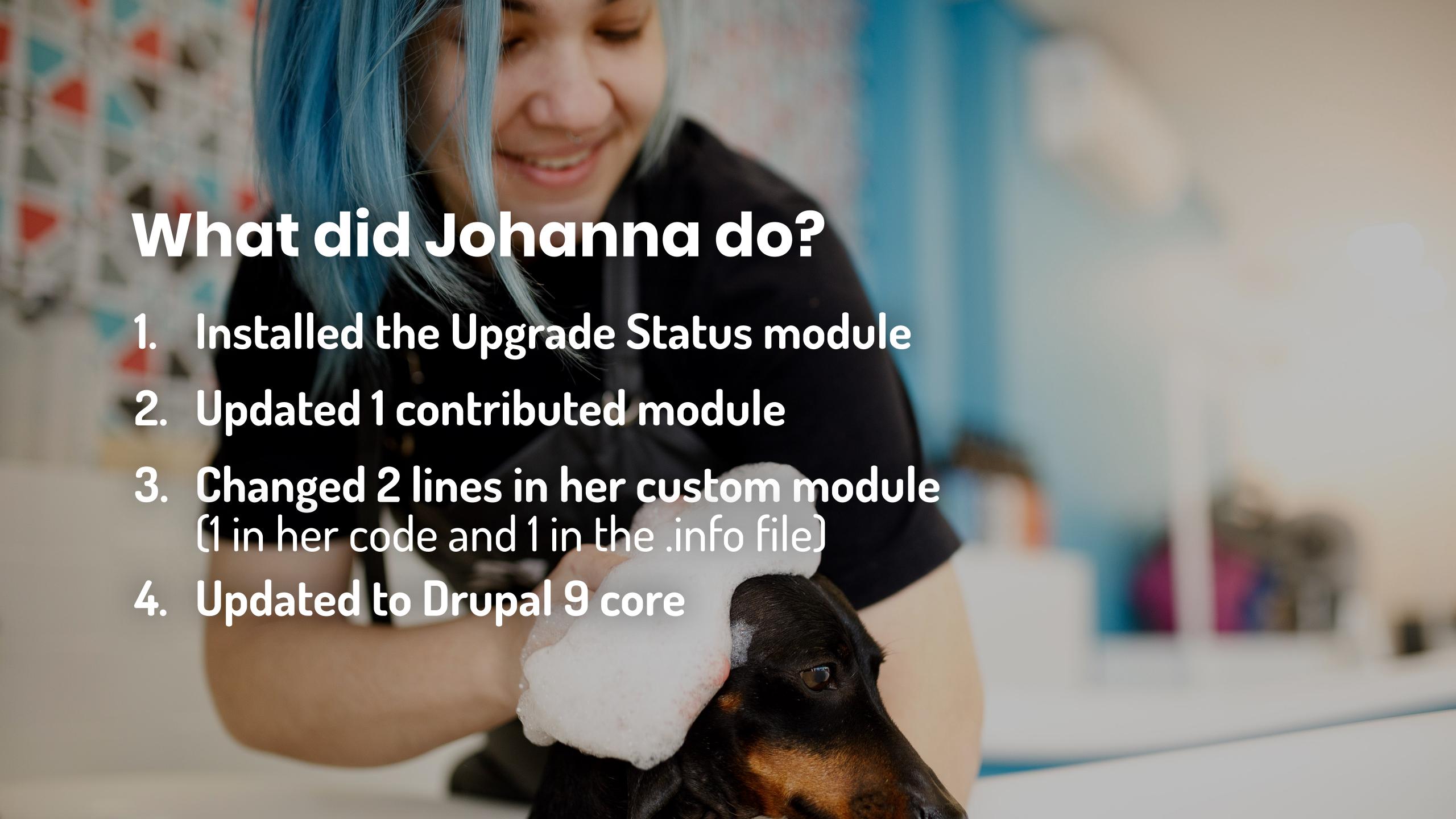
Web Serve

Warnings found

What did Johanna do?

1. Installed the Upgrade Status module

2. Updated 1 contributed module

3. Changed 2 lines in her custom module
(1 in her code and 1 in the .info file)

4. Updated to Drupal 9 core

This is a
vast improvement
from where we were
with Drupal 7!
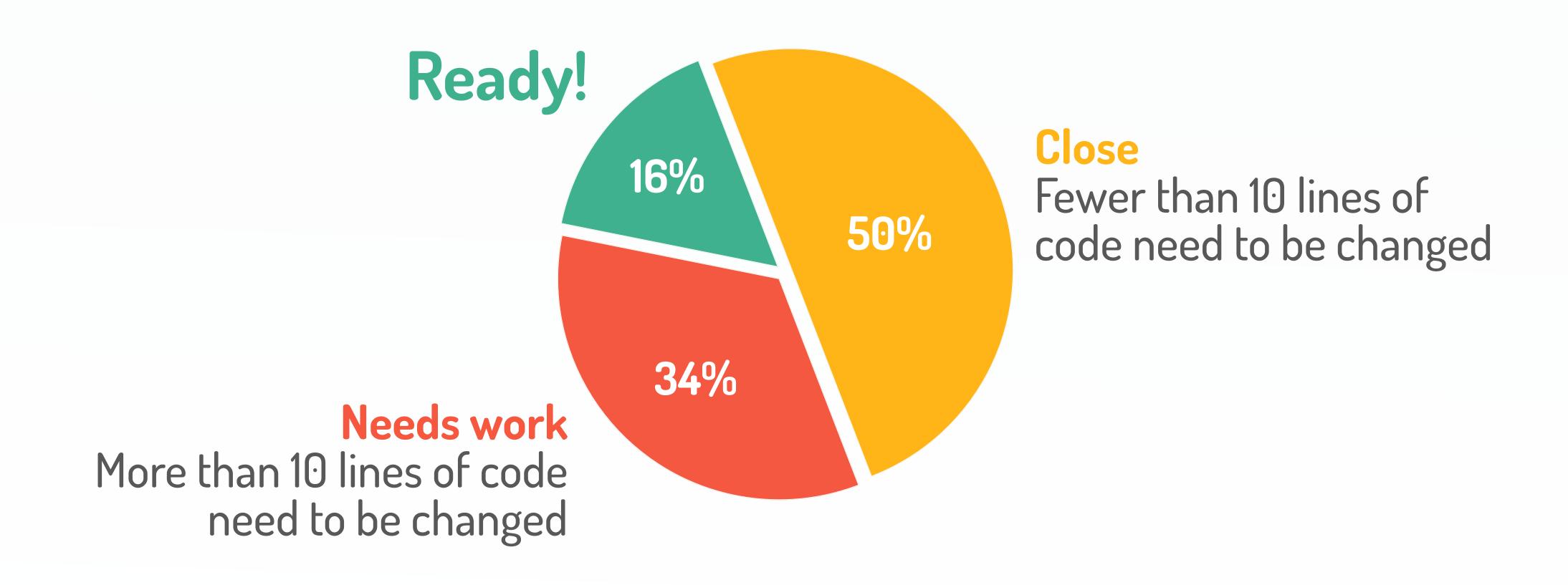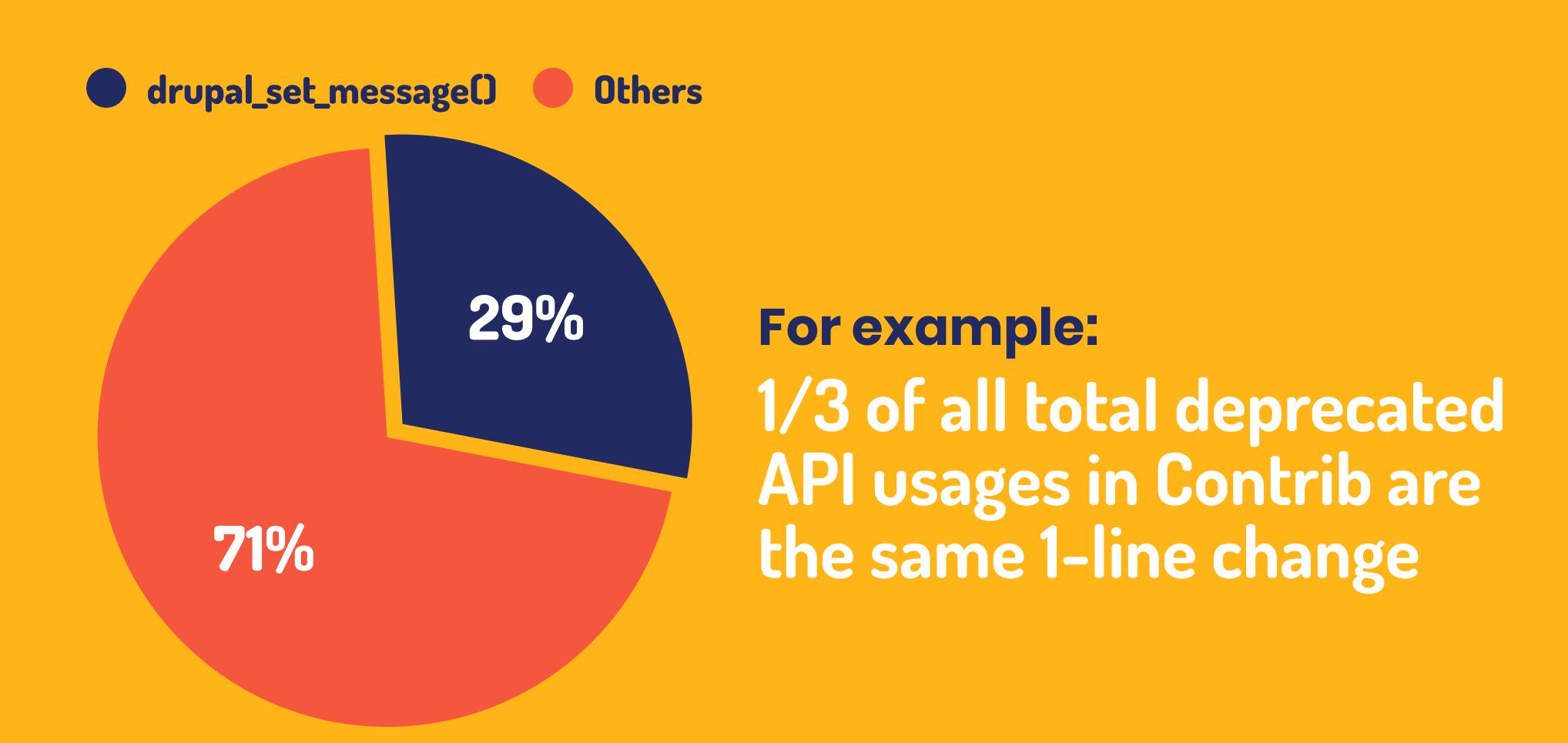
16% of top 200 modules are Drupal 9 ready

When we released Drupal 8, almost no modules were ready

Ready!

16%

Close
Fewer than 10 lines of
code need to be changed

50%

34%

Needs work
More than 10 lines of code
need to be changed

Most deprecations are **easy** to fix!

● drupal_set_message()   ● Others

29%

71%

For example:

1/3 of all total deprecated API usages in Contrib are the same 1-line change

Drupal 7 ➡ Drupal 8 VS. Drupal 8 ➡ Drupal 9

Drupal 7 ➡ Drupal 8	Drupal 8 ➡ Drupal 9
Re-write modules	Minor updates to modules
Start after 8 release	Start now, months before release
Big bang update	Incremental updates (testable in Drupal 8)

Help upgrade modules to Drupal 9

Remove use of deprecated code from your projects

All deprecated APIs are defined and the tools are available, so you can work on Drupal 9 compatibility now, 8 months ahead of the release!

Work on removing deprecated APIs from core itself

Remove deprecated code from the Drupal 9 branch.

#IMadeDrupal9

Drupal 9 is going to be easy to upgrade

Drupal 9 is progressing well

Most of the update work can already be done

Start today!

There is still work to do

What comes after Drupal 9.0.0?

The next peak

1.
Define new strategic tracks

2.
Define new initiatives for each track

How?

How?
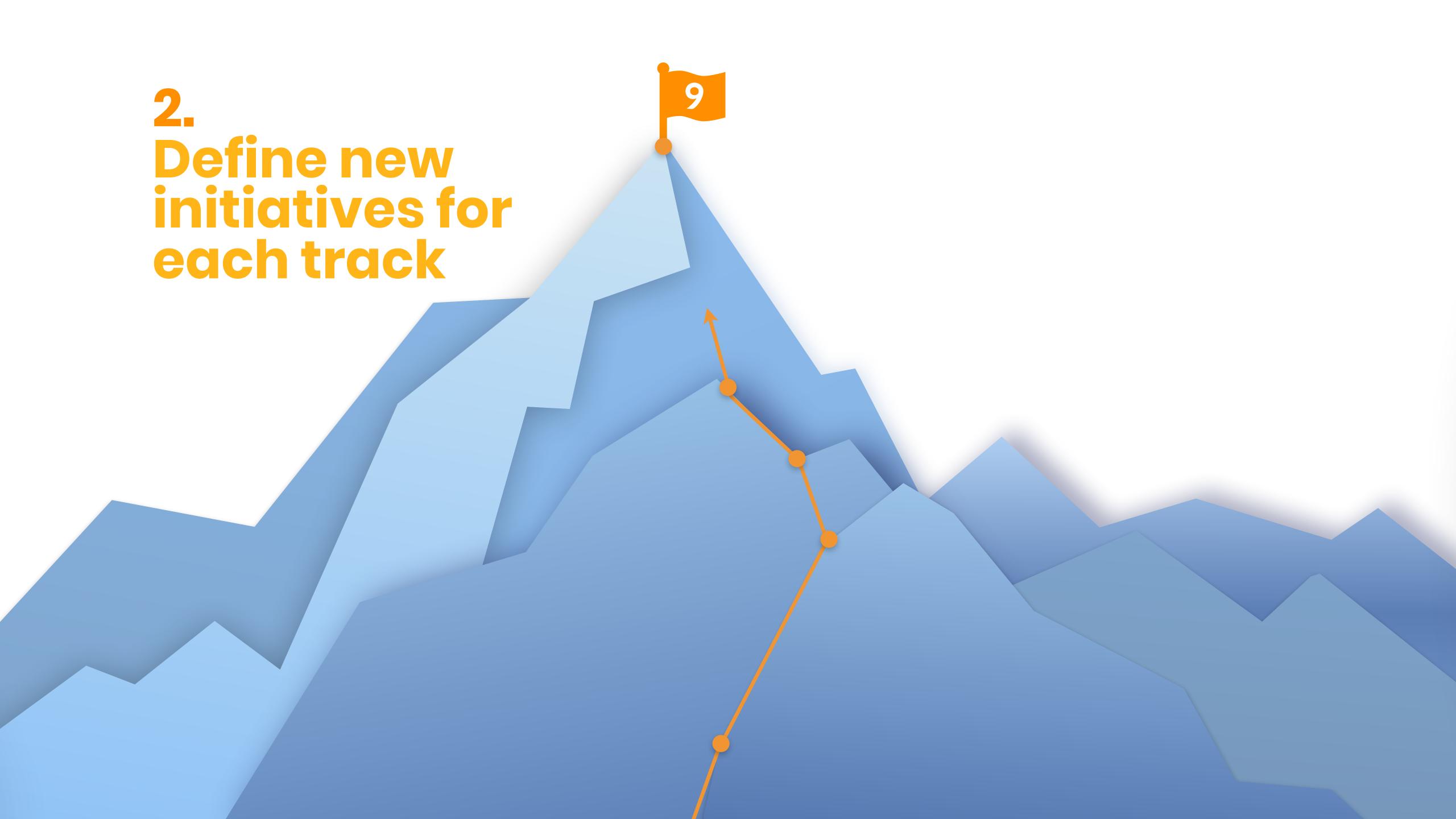
Today

Propose strategic tracks for Drupal 9

In the next 6 months

Discuss & refine the tracks
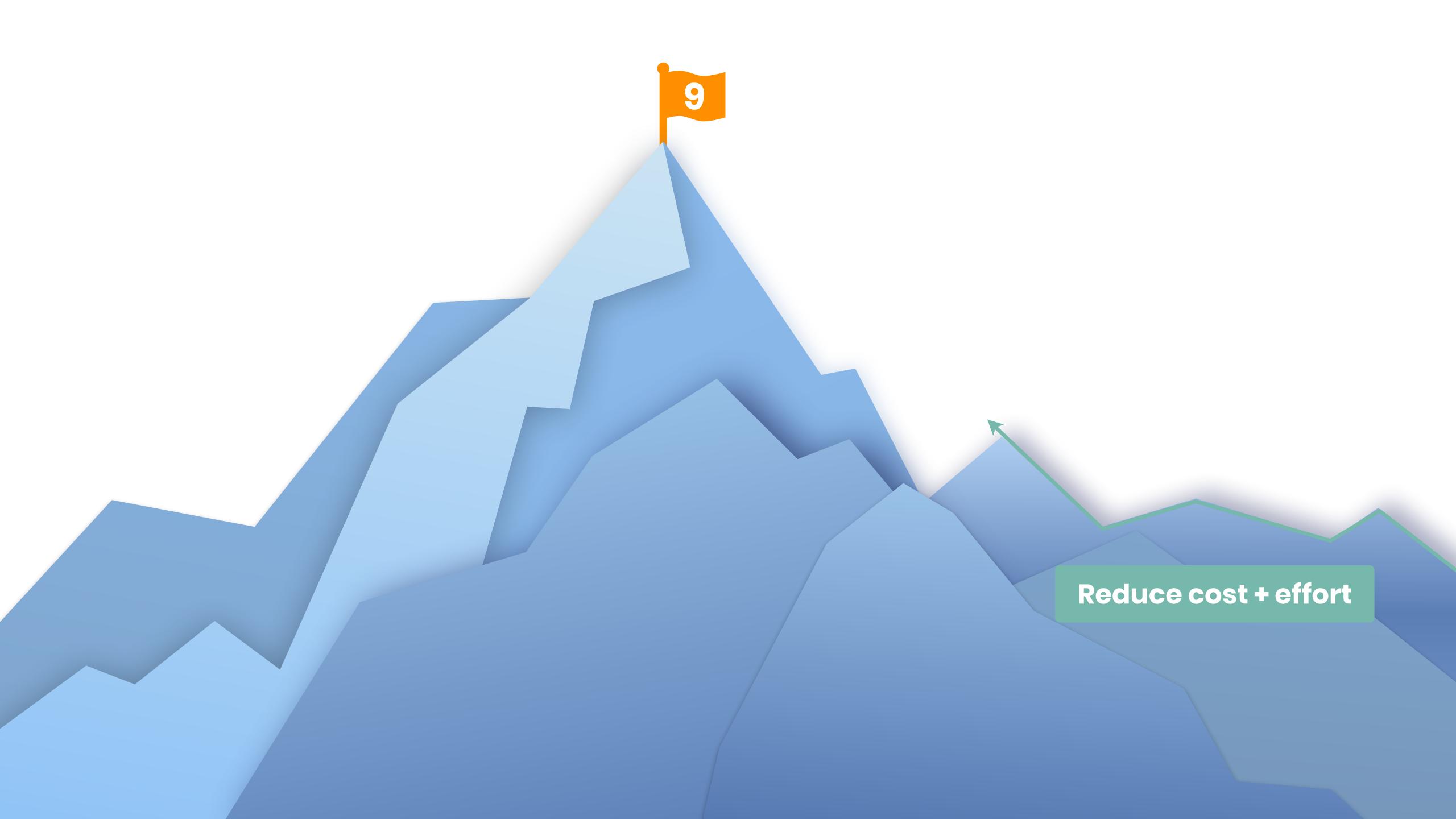
Collaboratively identify 10 inaugural initiatives (e.g. survey)

Track 1

```
while (true) {
```
Do more, with less
```
}
```

This track is a continuation of a previous track, as we are not done with all of its initiatives.

Reduce total cost of ownership for developers and site owners

What could some **initiatives** be for this track?

9

Configuration management

Automatic updates

Reduce cost + effort

What could some initiatives be for this track?

Reusable Component library

Composer improvements

Deeper Symfony-cation

Cloud optimizations

Drush in core

+ <Your ideas>

Configuration management

Automatic updates

?

?

Reduce cost + effort

9
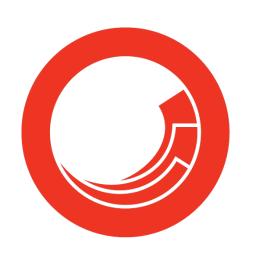
CMS UX study

461 survey responses
Assessed CMS experience, satisfaction, effort, ease of learning/use, and other factors.
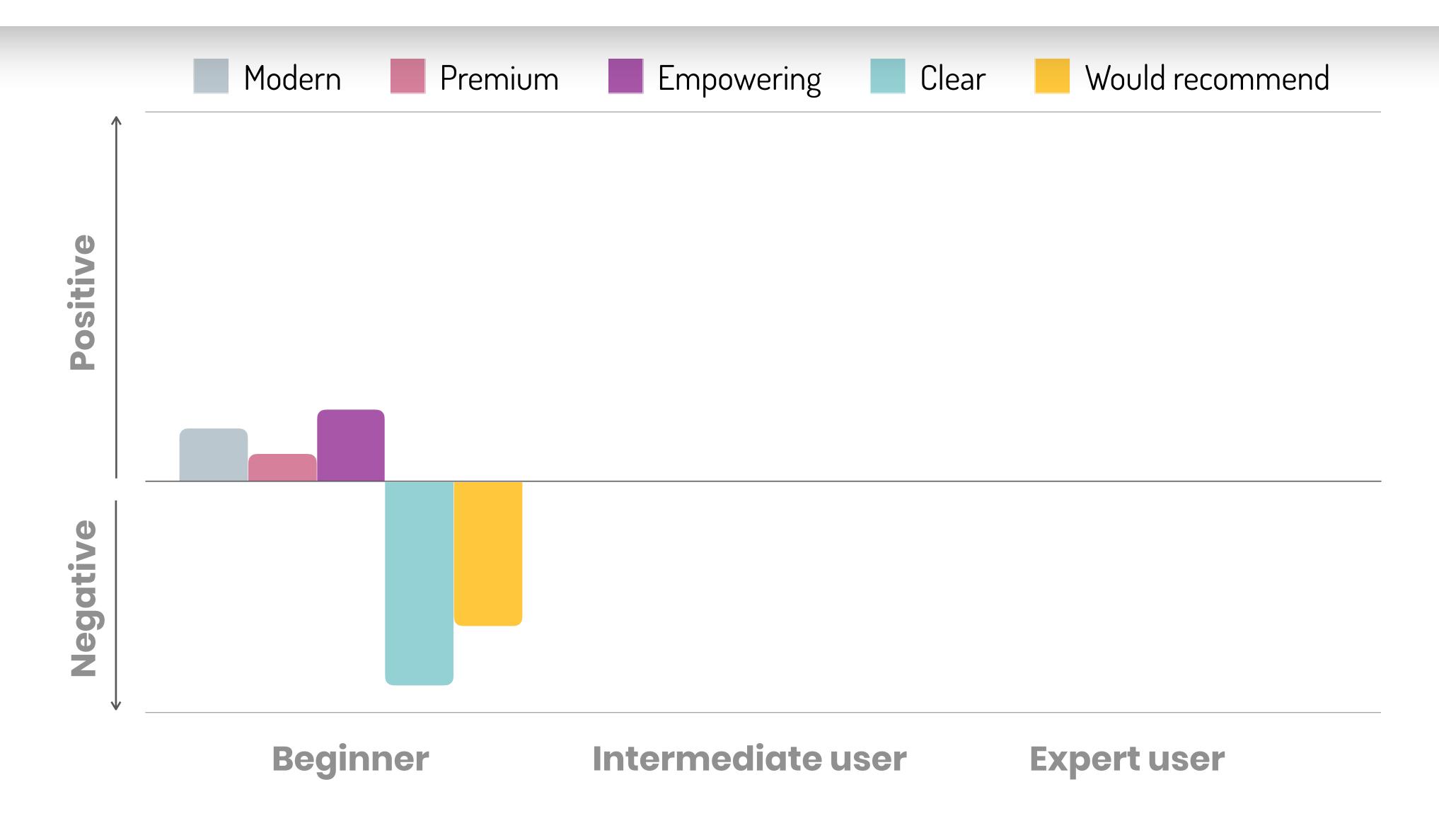
13 hour-long targeted interviews
With a variety of end users; for example, a content creator or page-builder with low programming skills and diverse CMS experience.
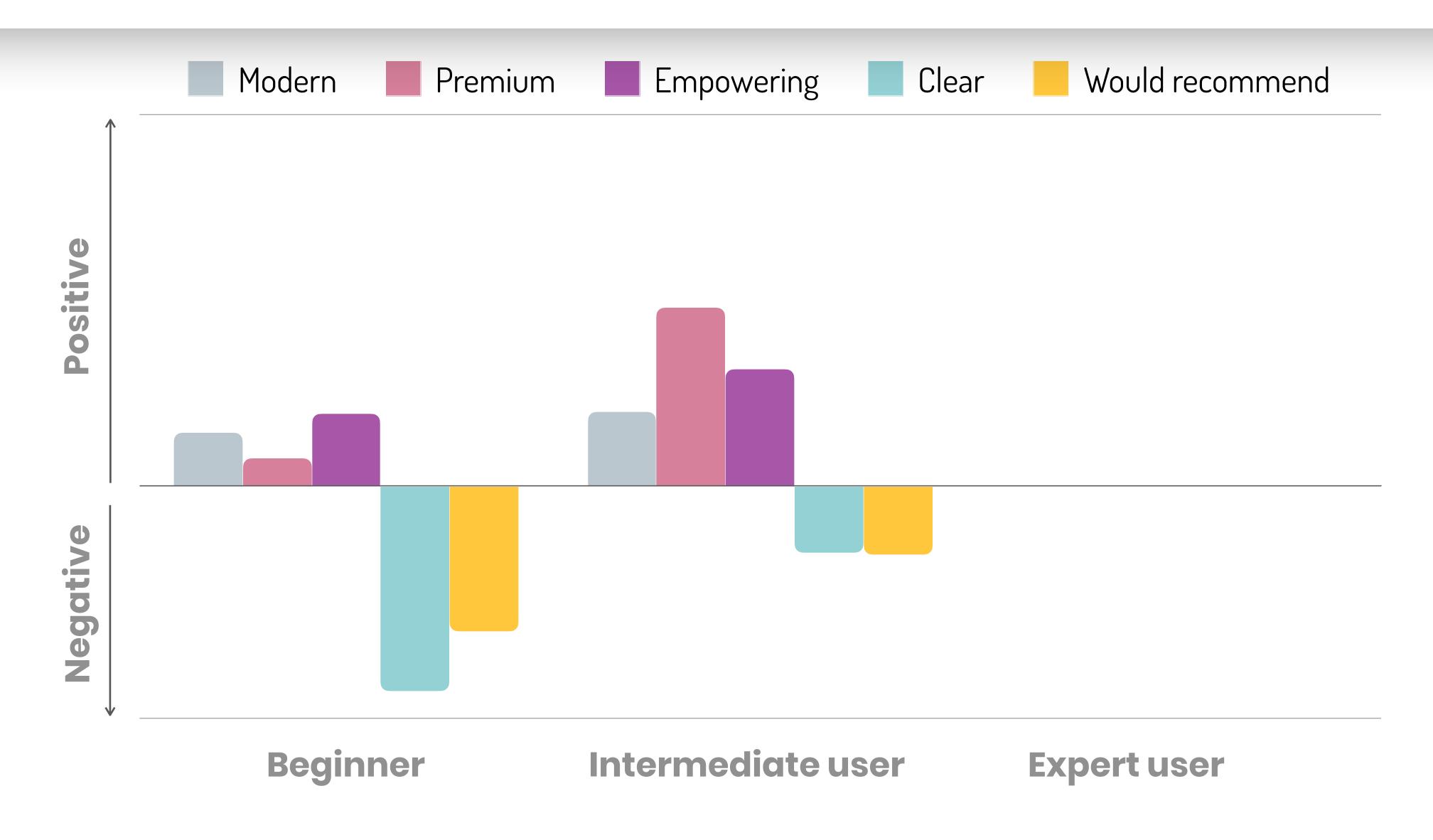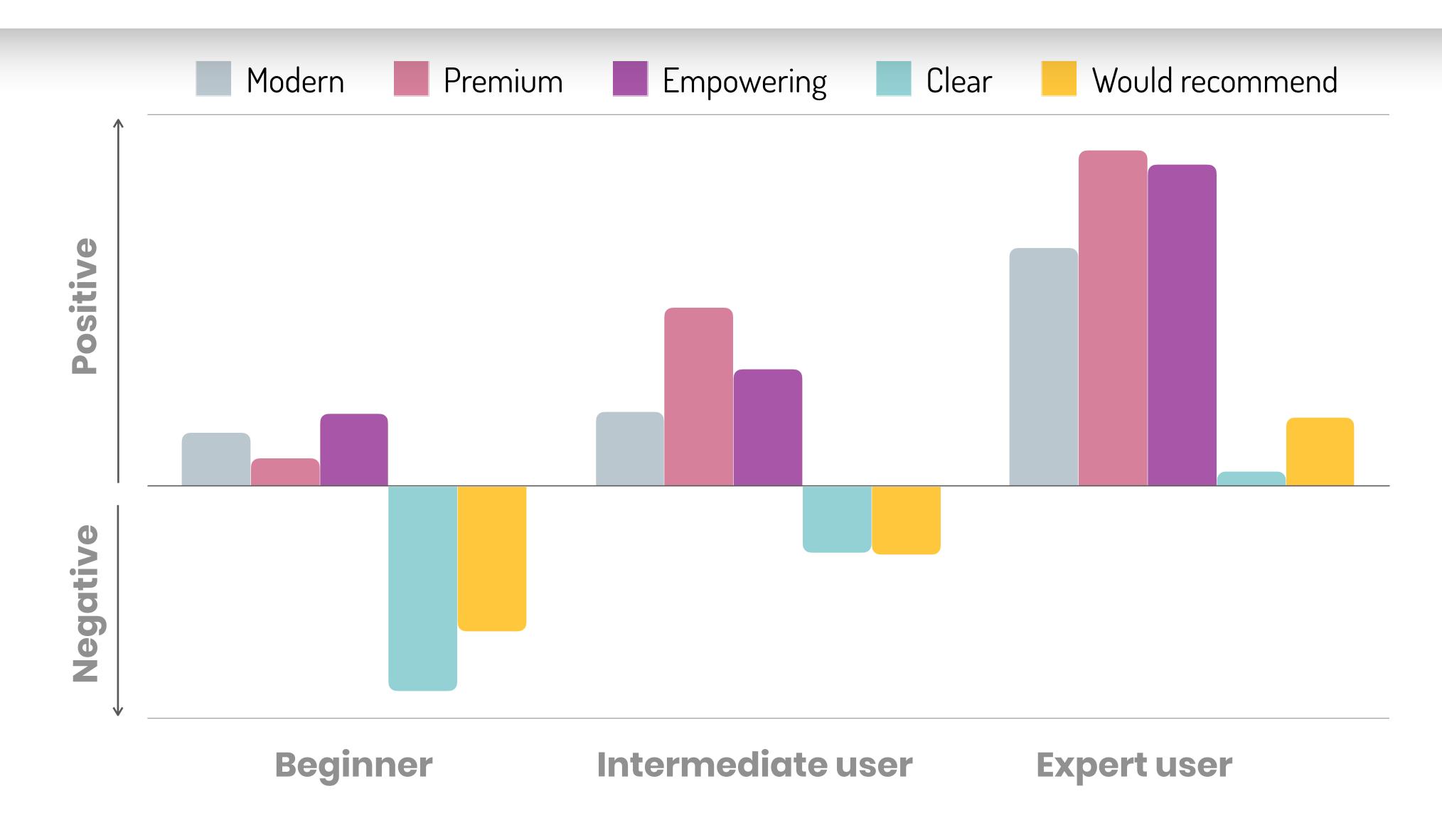
Methodology
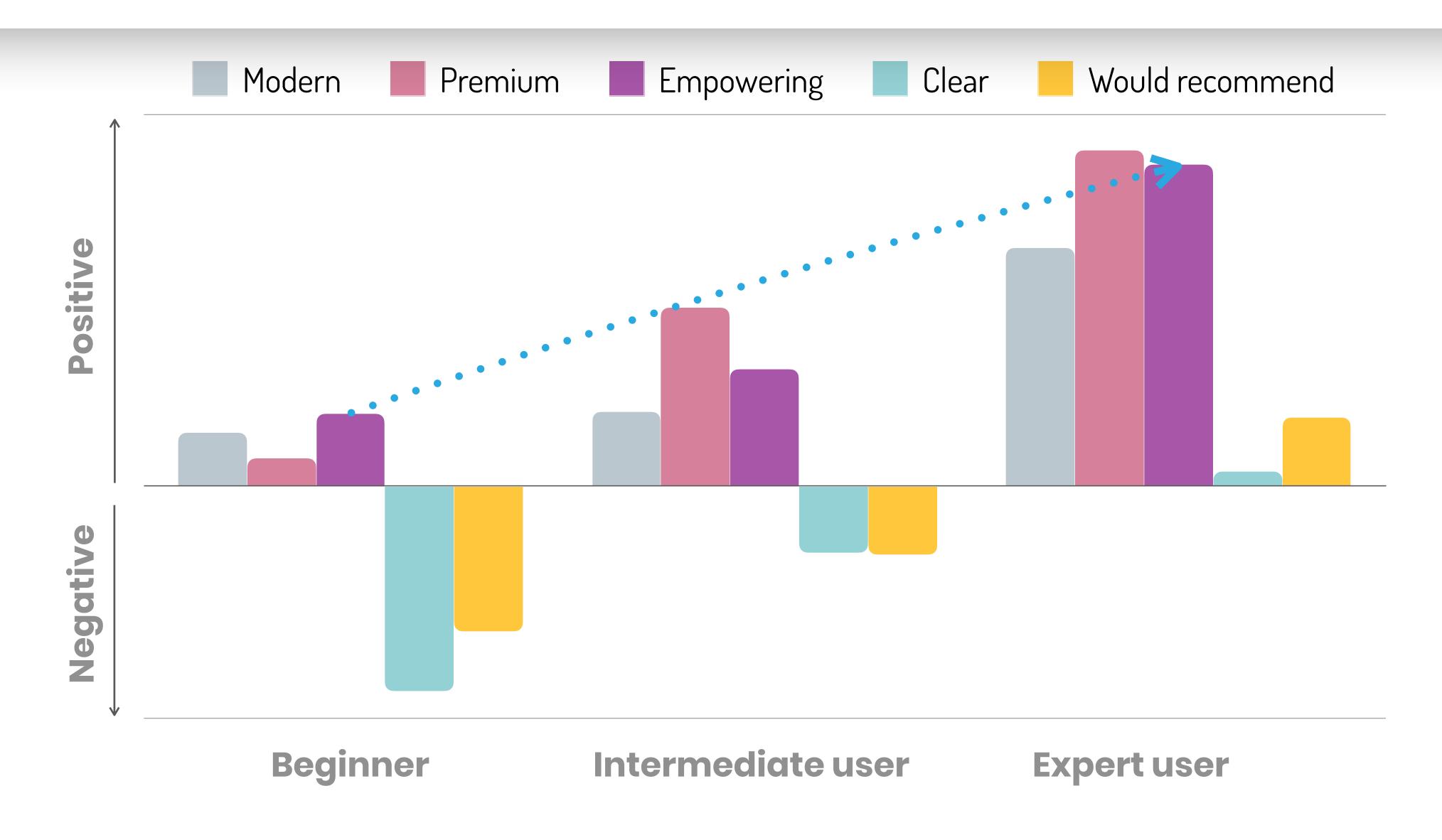
The survey uncovered how users felt about various CMSs and if they were perceived as:

- **Modern** (vs. outdated)
- **Premium** (vs. basic)
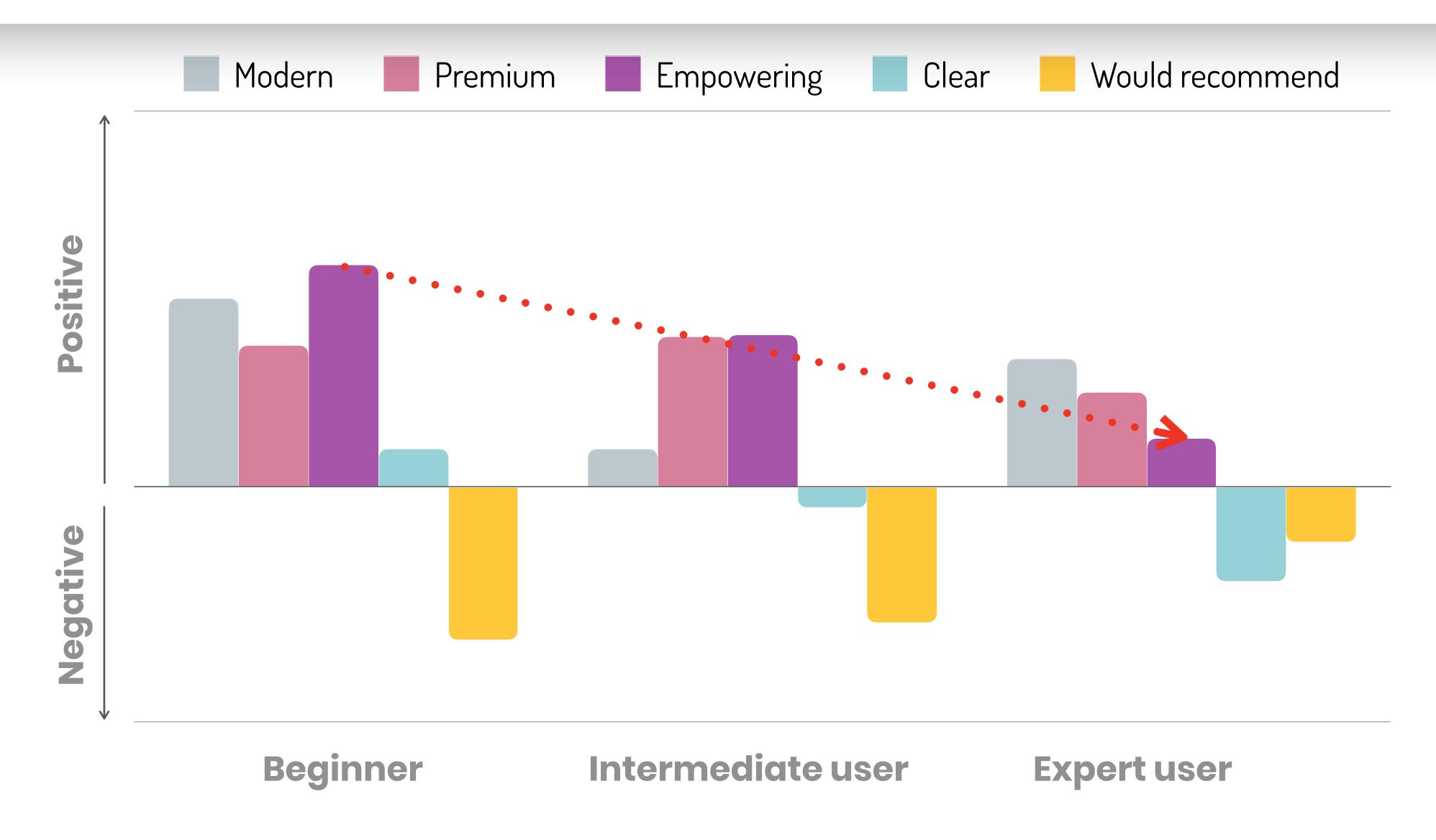- **Empowering** (vs. constraining)
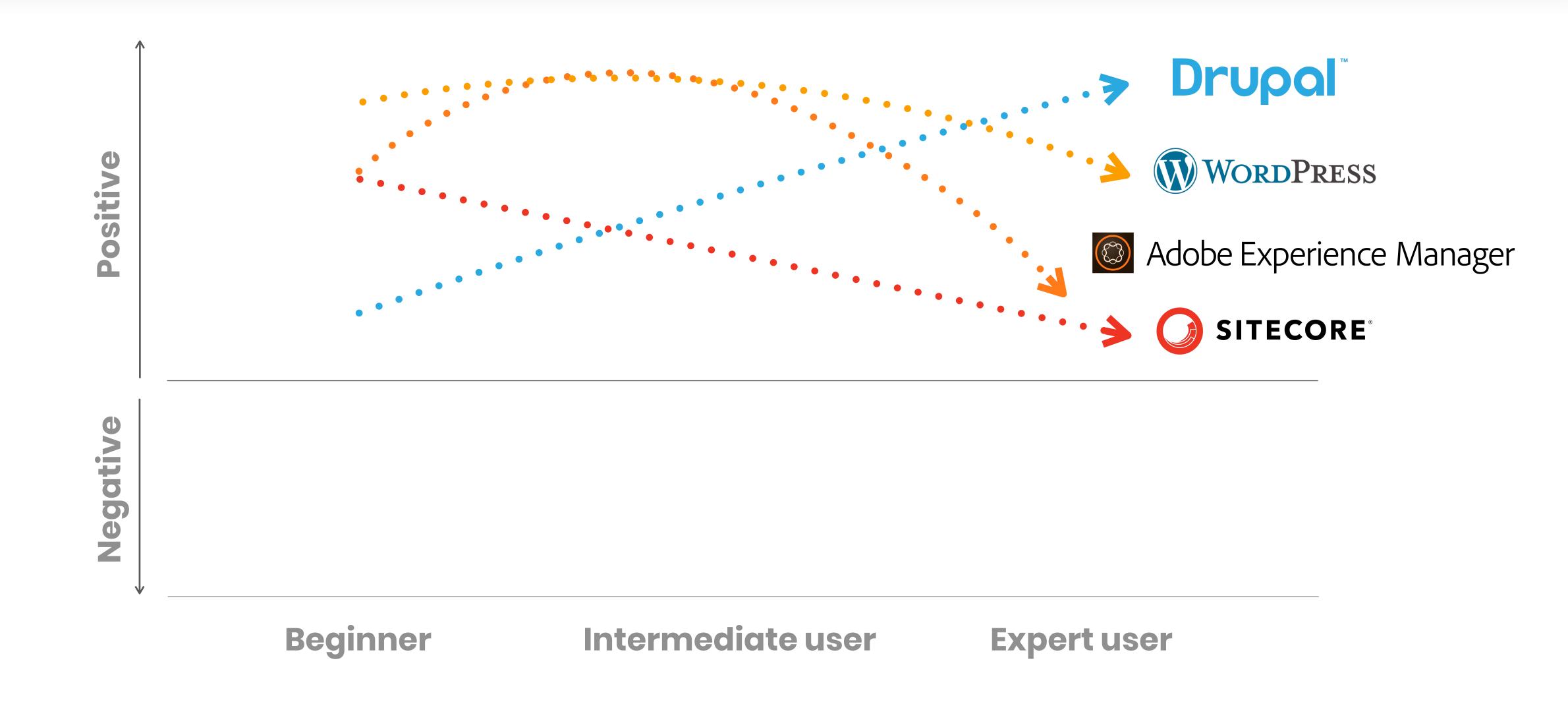- **Clear** (vs. confusing)
- **Would recommend**

A user's opinion of Drupal™ improves with experience…

Legend: Modern, Premium, Empowering, Clear, Would recommend

Positive / Negative

Beginner — Intermediate user — Expert user

A user's opinion of Drupal™ improves with experience...

Legend: Modern, Premium, Empowering, Clear, Would recommend

Positive / Negative

Beginner   Intermediate user   Expert user

A user's opinion of Drupal™ improves with experience...

Modern   Premium   Empowering   Clear   Would recommend

Positive

Negative

Beginner   Intermediate user   Expert user

A user's opinion of Drupal™ improves with experience...

Legend: Modern · Premium · Empowering · Clear · Would recommend

Y-axis: Positive / Negative

X-axis: Beginner · Intermediate user · Expert user

Drupal vs. other CMSs over time
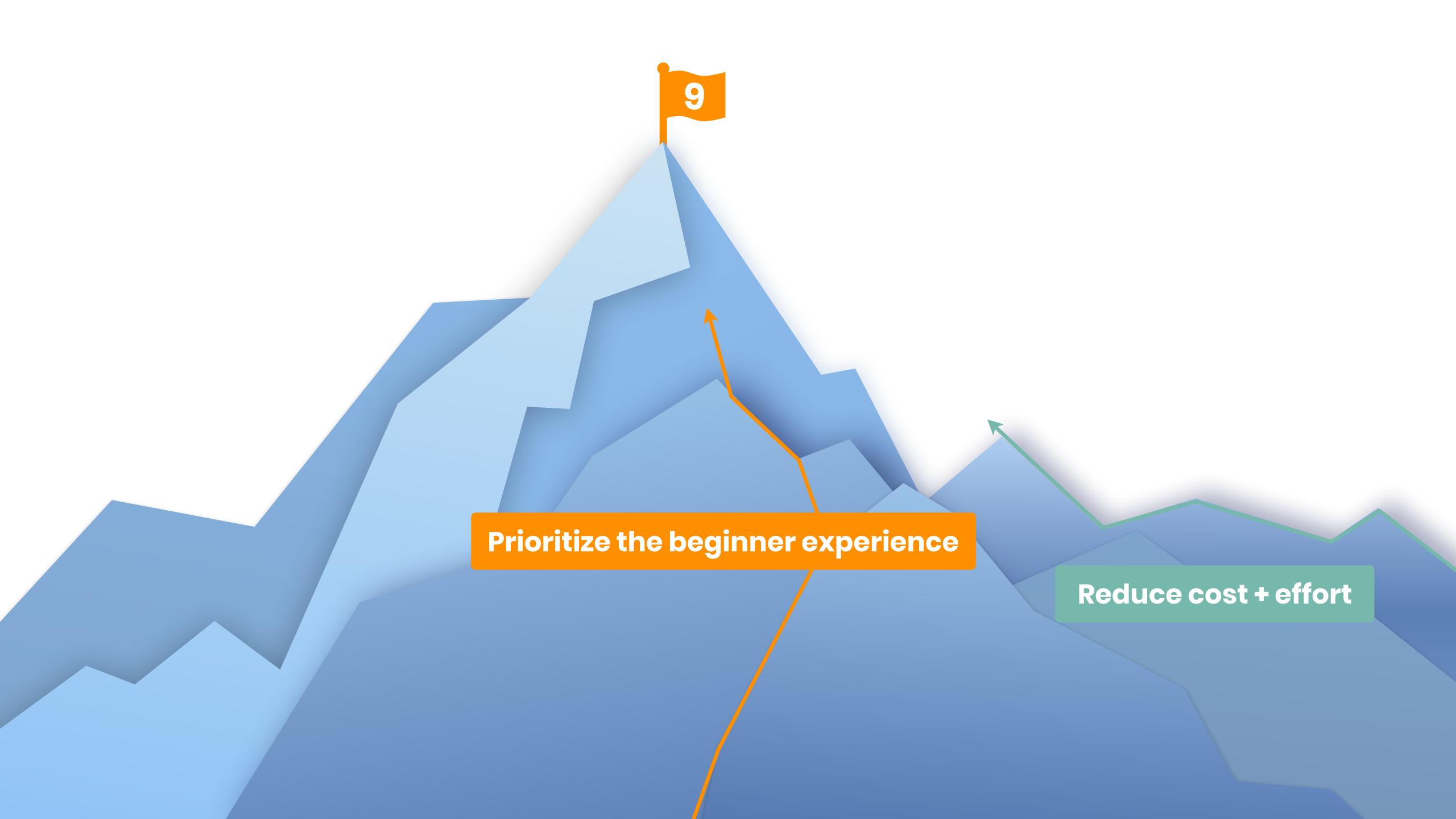
We need to make Drupal™ easier for beginners

Success means...

that someone can go
from **an idea**
to **discovering Drupal**
to **deployment**
in **record time**

9

Reduce cost + effort

9

Prioritize the beginner experience

Reduce cost + effort

What could some **initiatives** be for this track?

Prioritize the beginner experience

9

?

?

?

?

Guided tours

Easier terminology

Marketplace of themes

WYSIWYG page building

Better 'Try Drupal' experiences

Separation of journeys by roles

Install profiles for common use cases

+ <Your ideas>

What could some **initiatives** be for this track?

9

Guided tours
Easier terminology
Marketplace of themes
WYSIWYG page building
Better 'Try Drupal' experiences
Separation of journeys by roles
Install profiles for common use cases
+ <Your ideas>

?

?

?

Prioritize the beginner experience

New front-end theme

Olivero

New front-end theme

Olivero will make Drupal 9 look modern out of the box

DRUPAL

Drupal 9: The Most Beautiful CMS Ever!

by **Dries Buytaert**, 14 January 2020

If you thought opening paragraphs were amazing, wait till you begin writing blog posts with leads! They'll blow your mind. They draw your readers into an article.
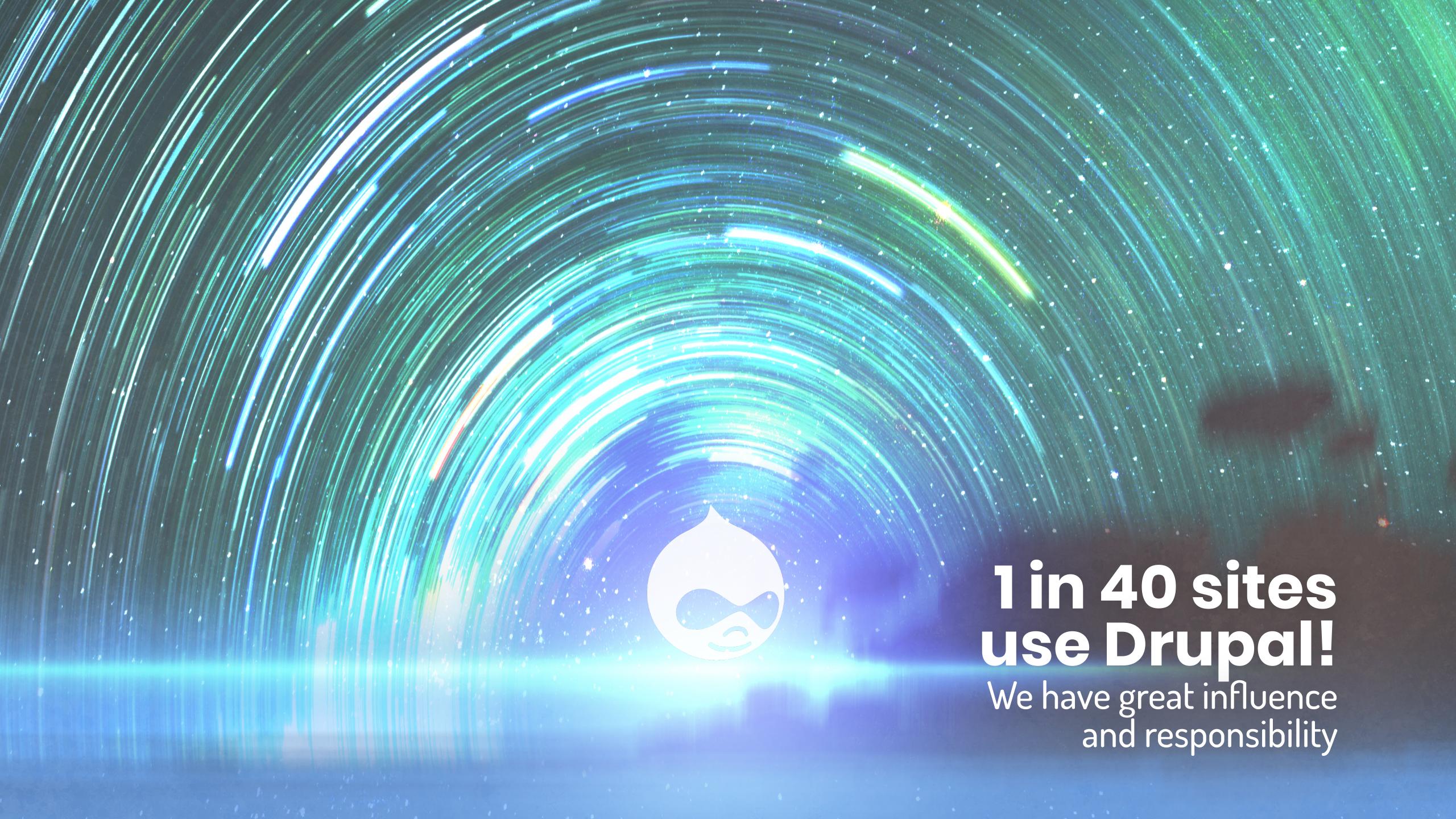
Once you've got them reading with some nice punchy bold text that grabs their attention, they're like puddy in your hands. They'll click all your links and read all your comments and probably think y ou have the best site they've ever been on.

SUBHEADINGS ARE THE BEST!

Don't even get me started on subheadings. Seriously! If you thought rambling on endlessly for mutliple paragraphs was amazing, you should try subdividing them with beautifully tailored subheadings that make your long-form copy painlessly
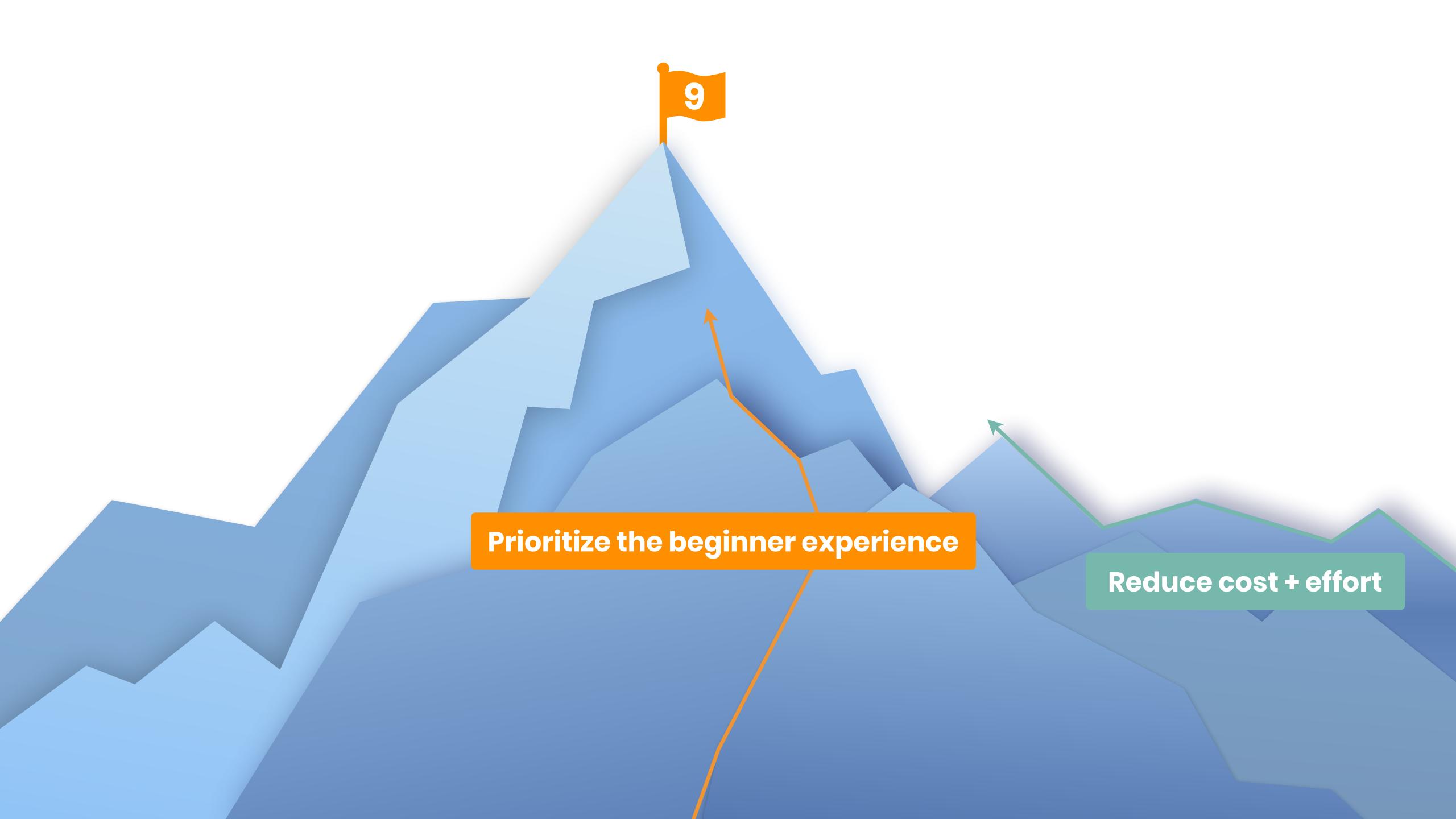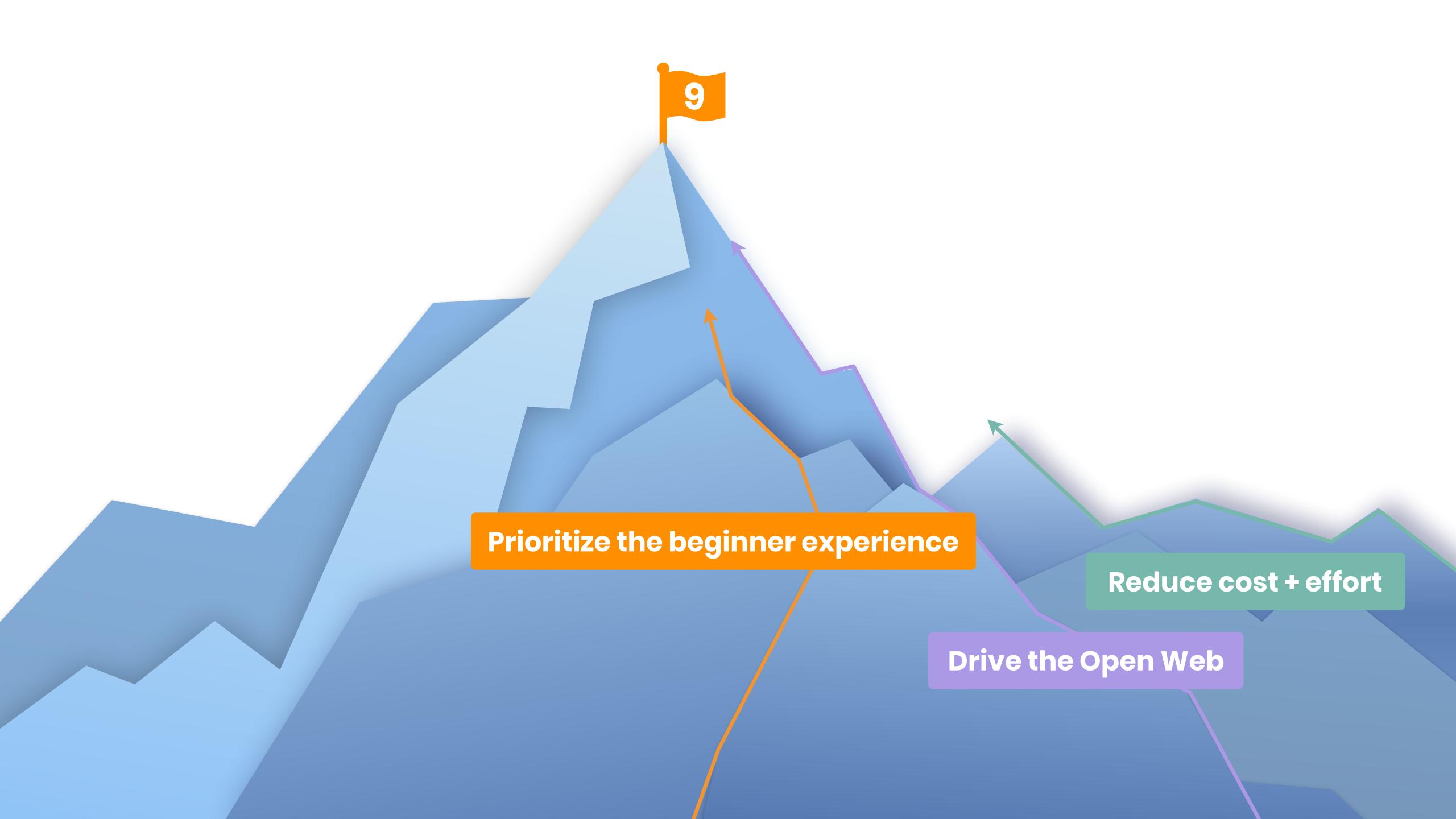
Track 3

The Open Web

1 in 40 sites use Drupal!

We have great influence
and responsibility

Today, 60% of the world is on the internet

By 2022-2025, then entire world will be on the internet

4 billion new people will join the internet
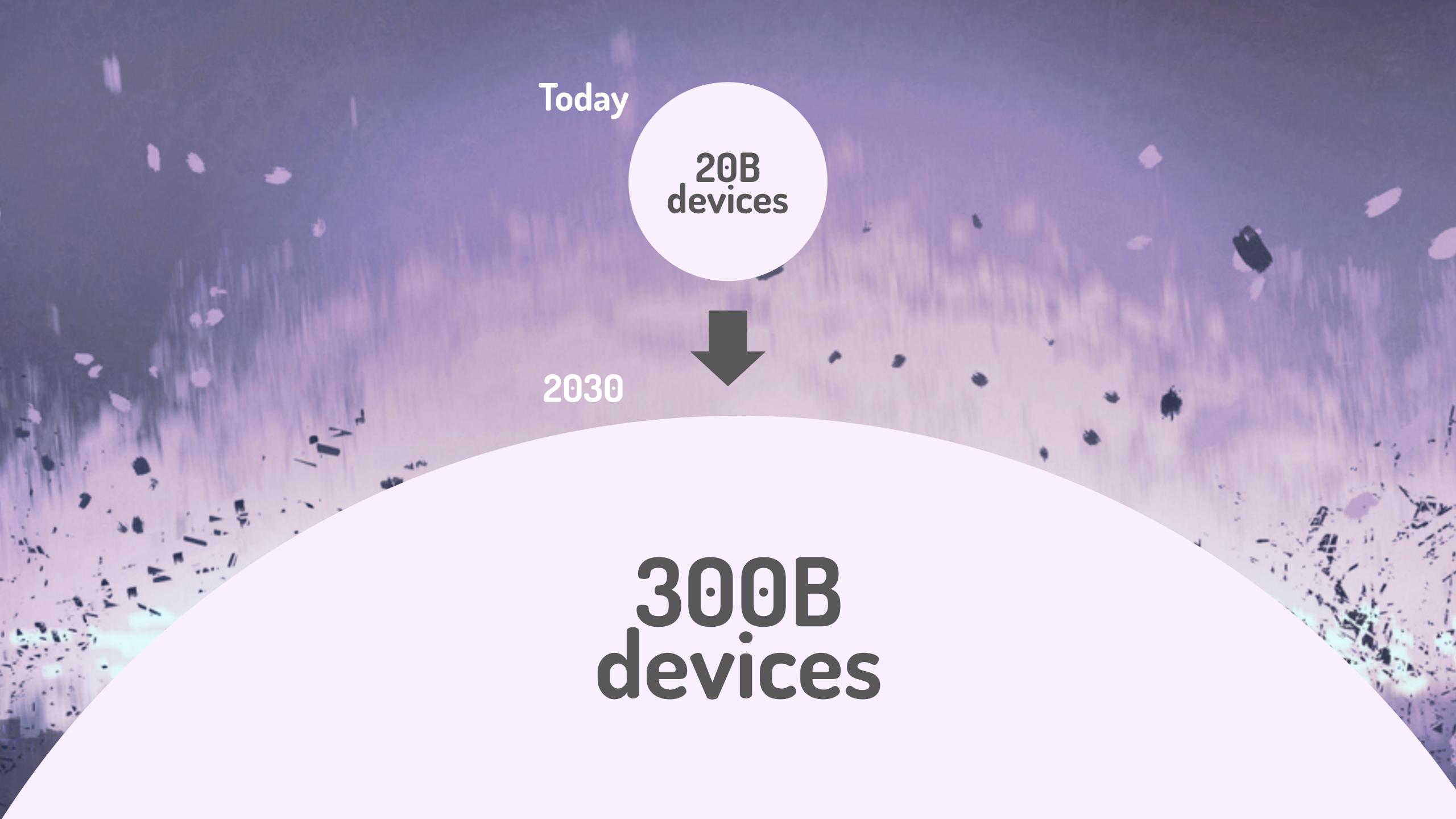
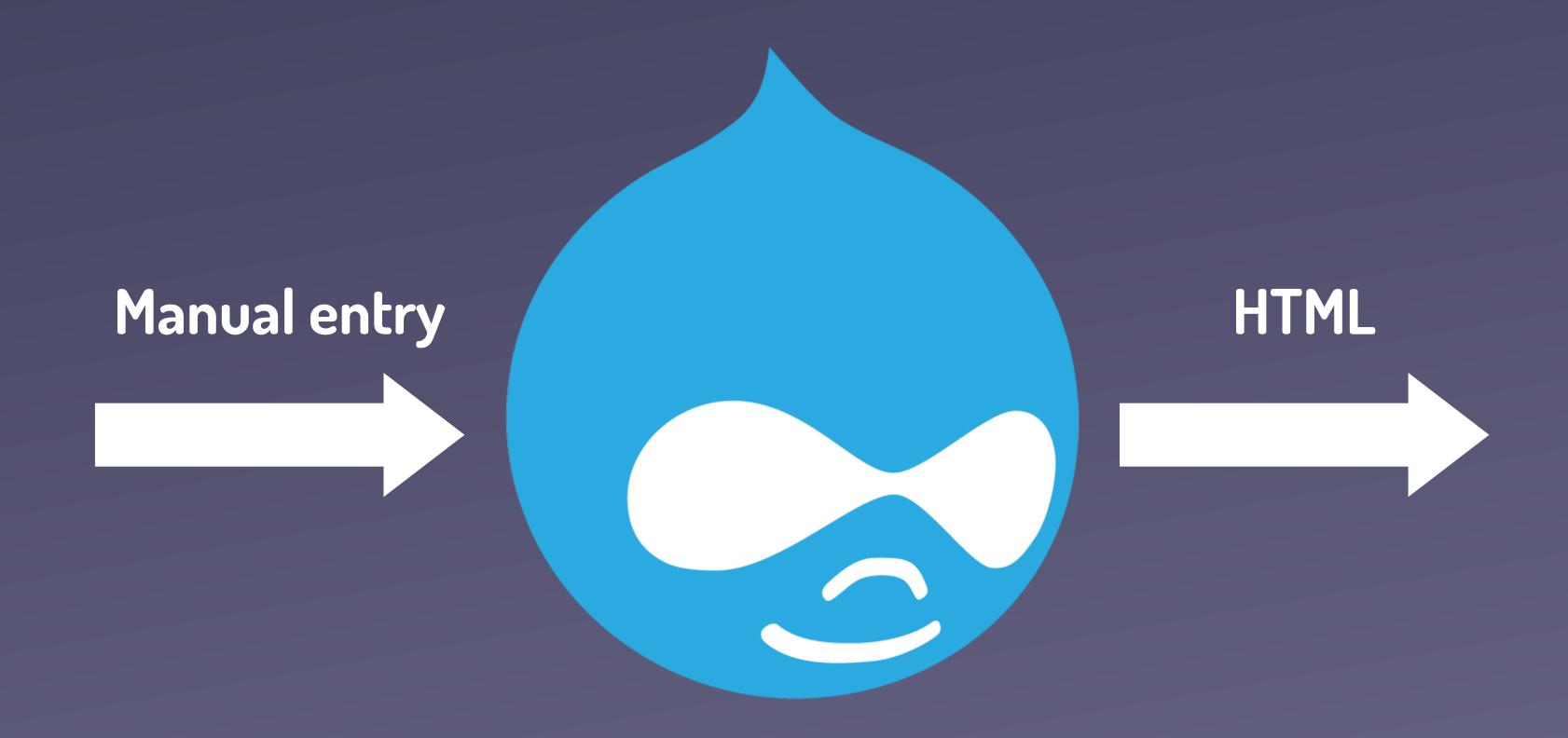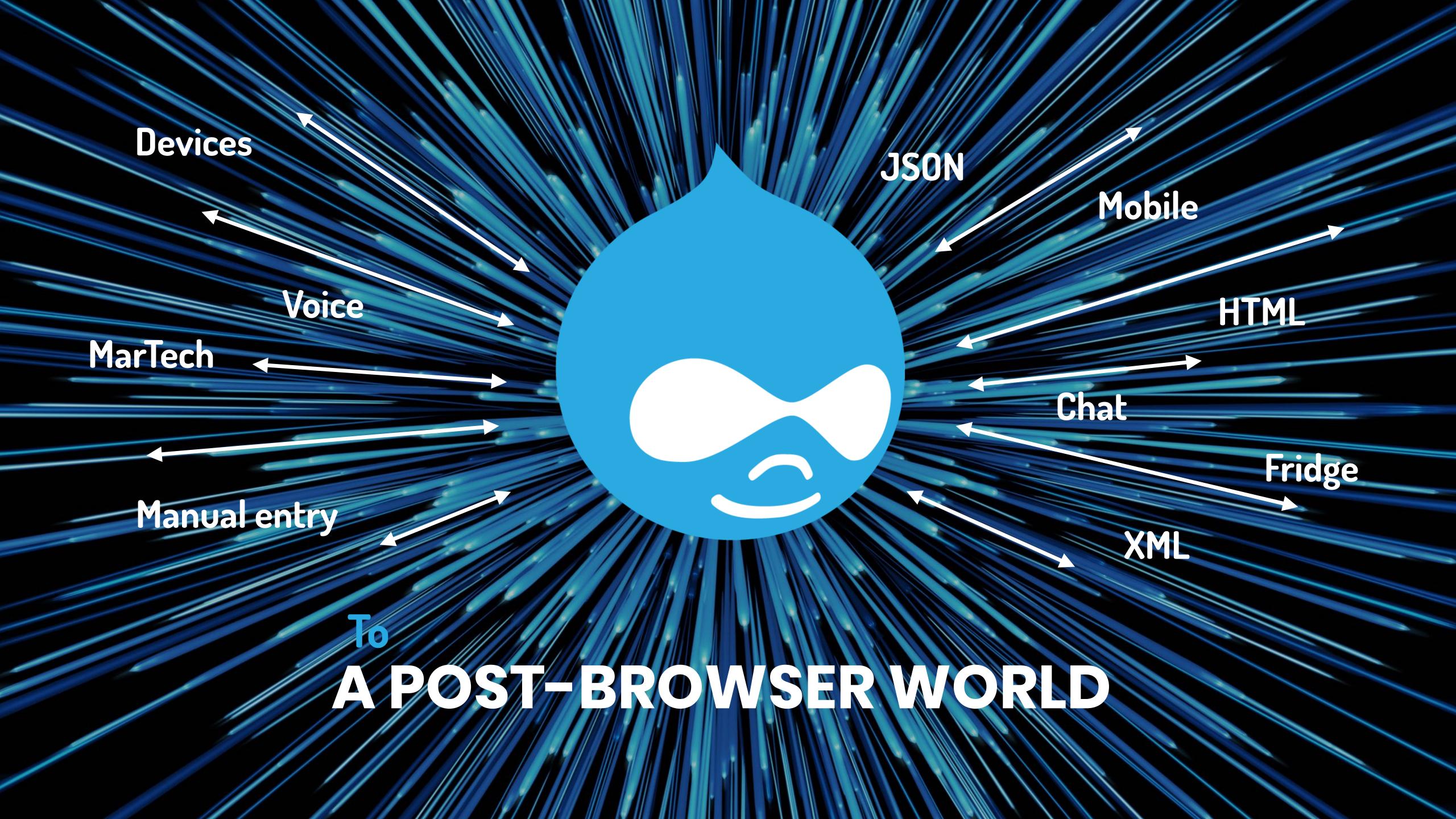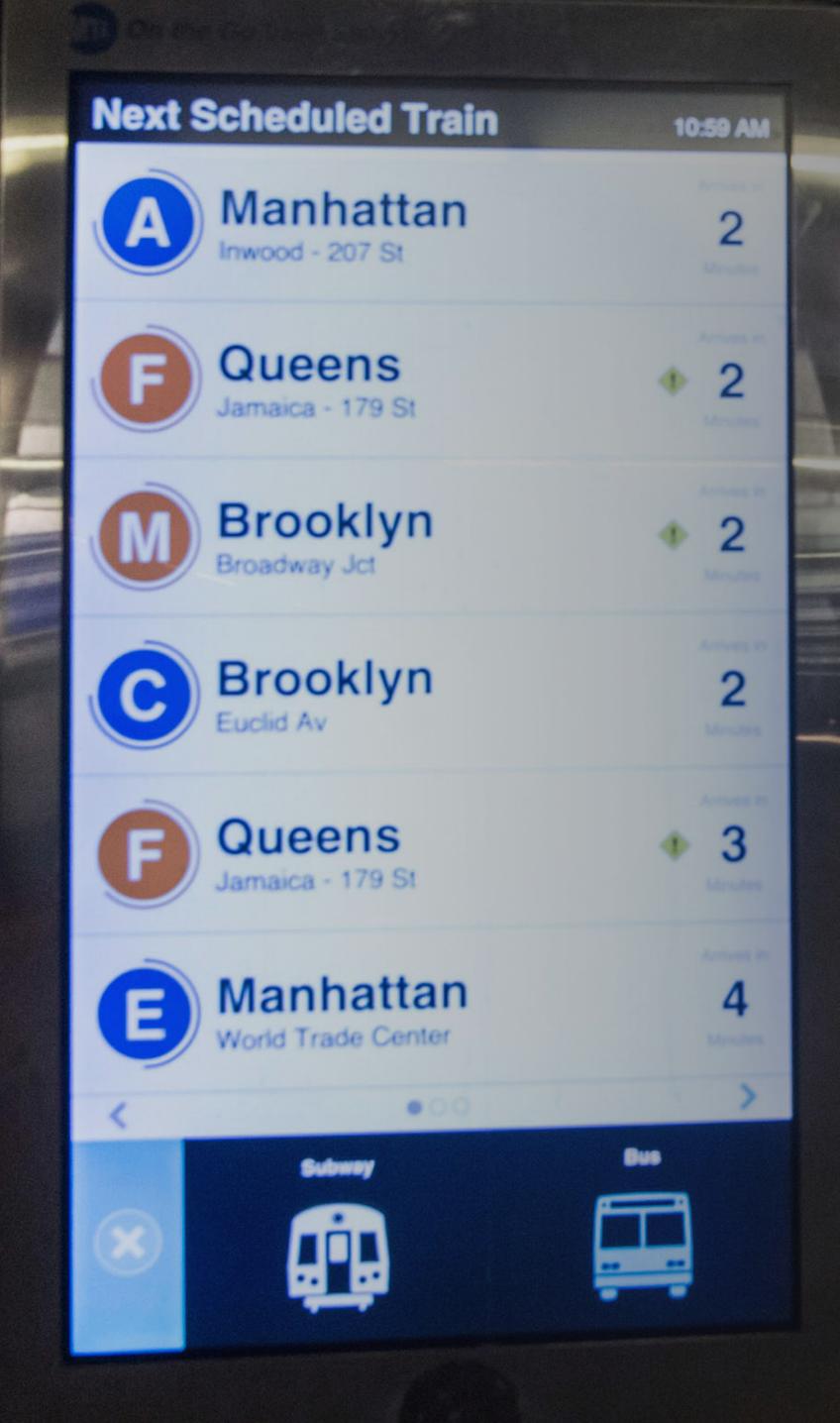# We have a responsibility to expand the open, independent web.

- ✓ Accessible
- ✓ Secure
- ✓ Standards-based
- ✓ Interoperable
- ✓ Privacy-focused
- ✓ Inclusive

9

Prioritize the beginner experience

Reduce cost + effort

What could some initiatives be for this track?

9

GDPR

Accessibility

Privacy support

Fast/light by default

Semantic HTML (Microformats2)

Webmention support (Distributed social web)

+ <Your ideas>

Drive the Open Web

Track 4

The explosion of content + data

Massive growth in people
+
Massive growth in devices

Today

20B
devices

Today

20B devices

2030

300B devices

Manual entry → HTML

From
A BROWSER-ONLY WORLD

Devices
Voice
MarTech
Manual entry
JSON
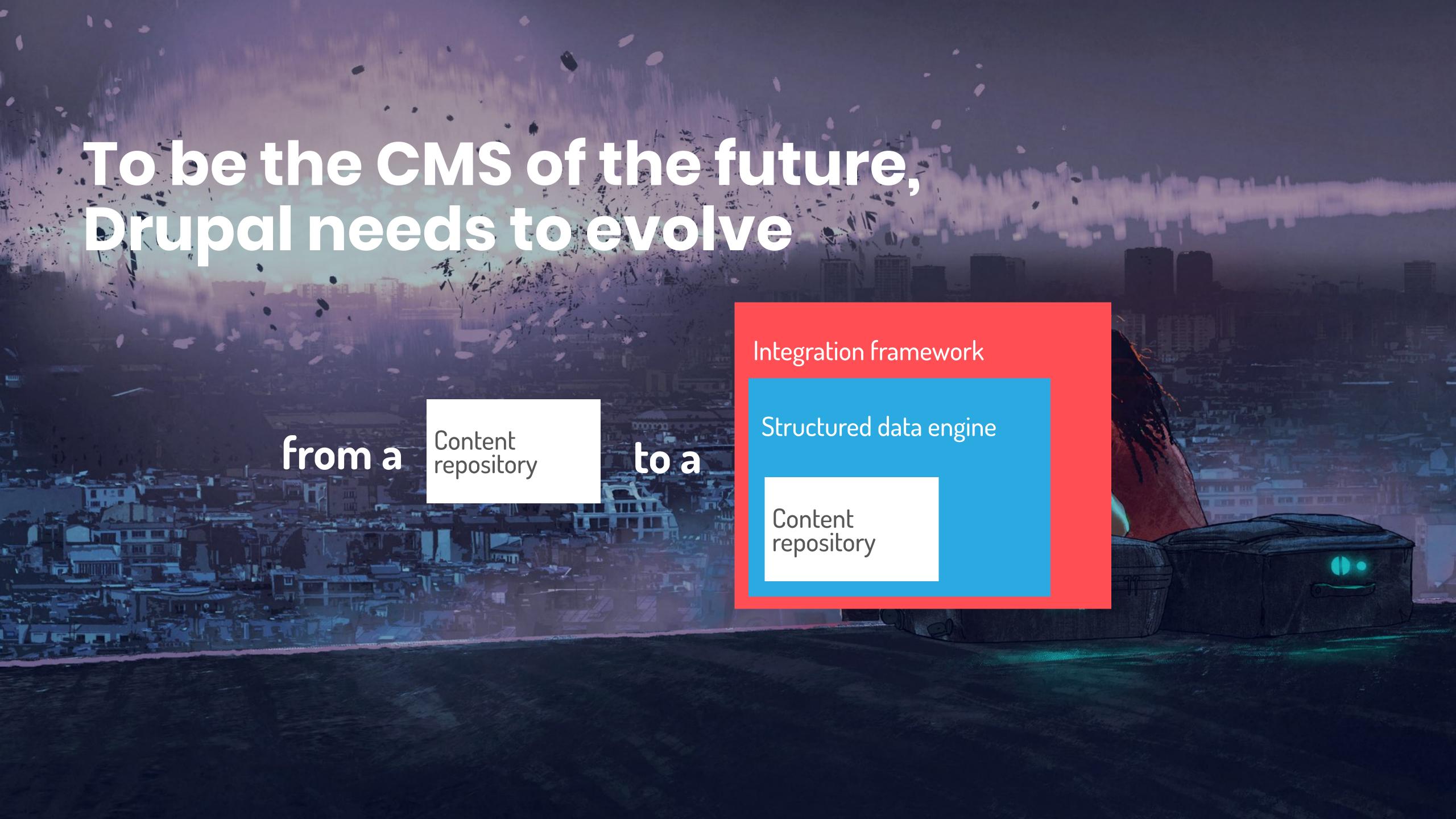Mobile
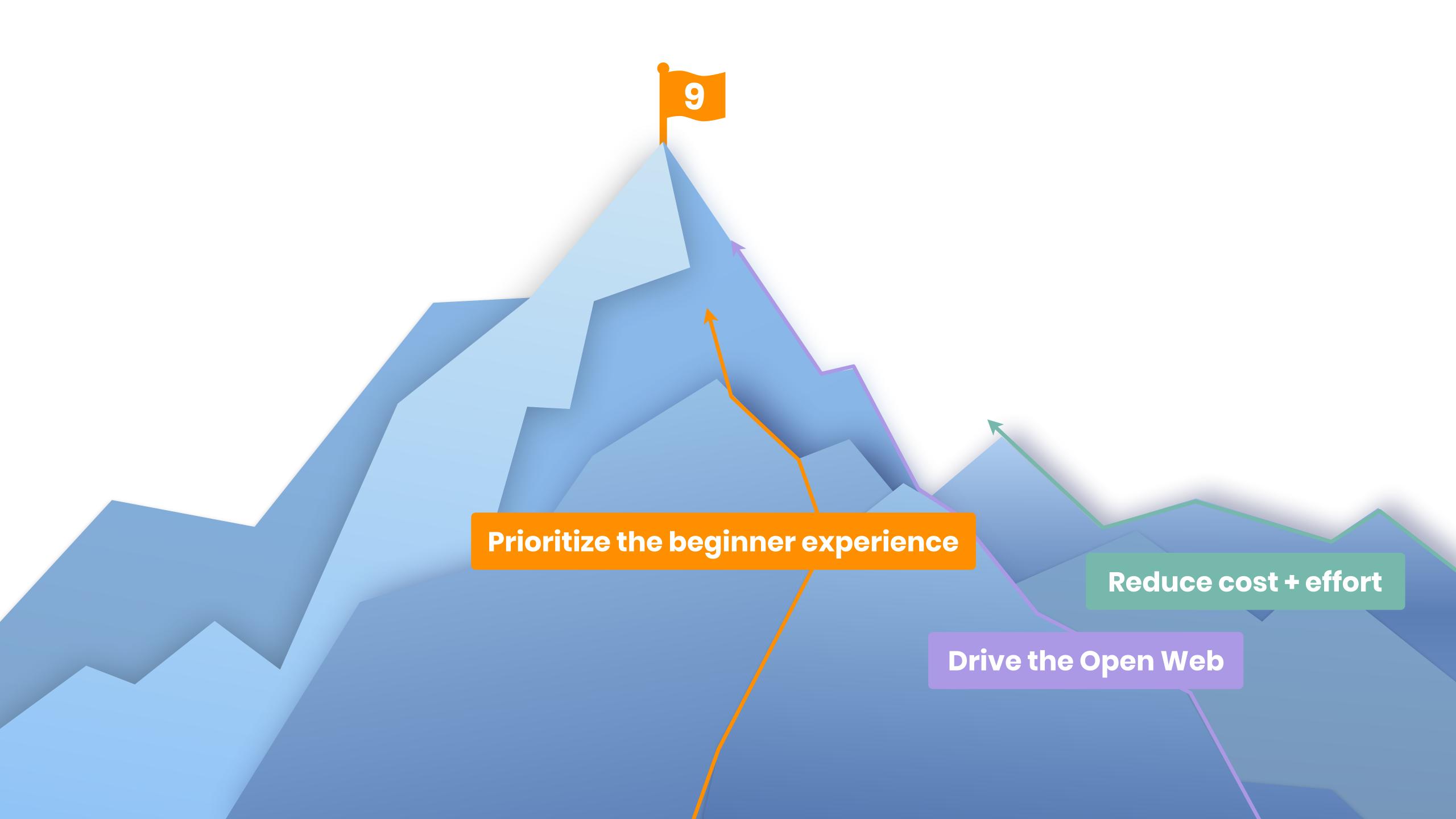HTML
Chat
Fridge
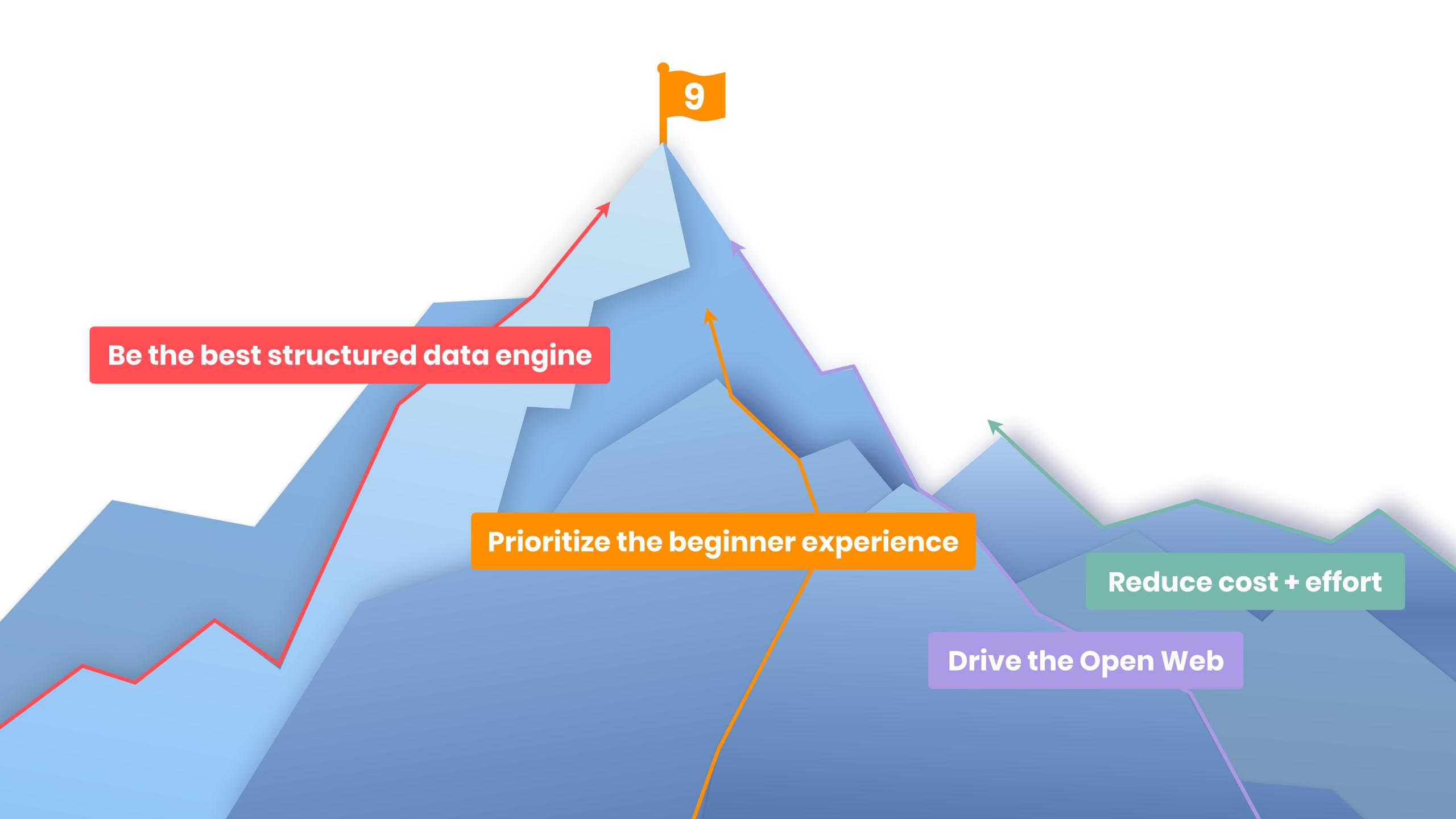XML

To
A POST-BROWSER WORLD

In this world, you need to...

— Be really good at structured data

— Manage more diverse data

— Manage 100x the amount of data

— Integrate easily with other platforms

Image: The New York subway uses Drupal to power digital kiosks with real-time train data.

To be the CMS of the future, Drupal needs to evolve

from a   Content repository   to a

Integration framework

Structured data engine

Content repository

What could some **initiatives** be for this track?

Be the best structured data engine
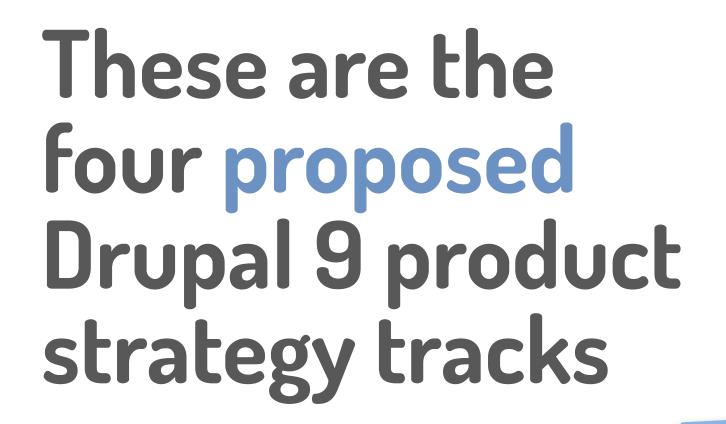
Easier content ingestion
More structured content
Web services everywhere
React / Node.js integration
More powerful content modeling
Better content organization tools
+ <Your ideas>

These are the four **proposed** Drupal 9 product strategy tracks

9

Be the best structured data engine

Prioritize the beginner experience

Reduce cost + effort

Drive the Open Web

What Drupal 9 needs to do to win

Summary

Reduce cost + effort Drupal is cheaper and simpler to build with and maintain.

Prioritize the beginner experience Drupal is loved by beginners, not just by experts.

Drive the Open Web Drupal promotes an open, independent web that serves all people, all around the world.
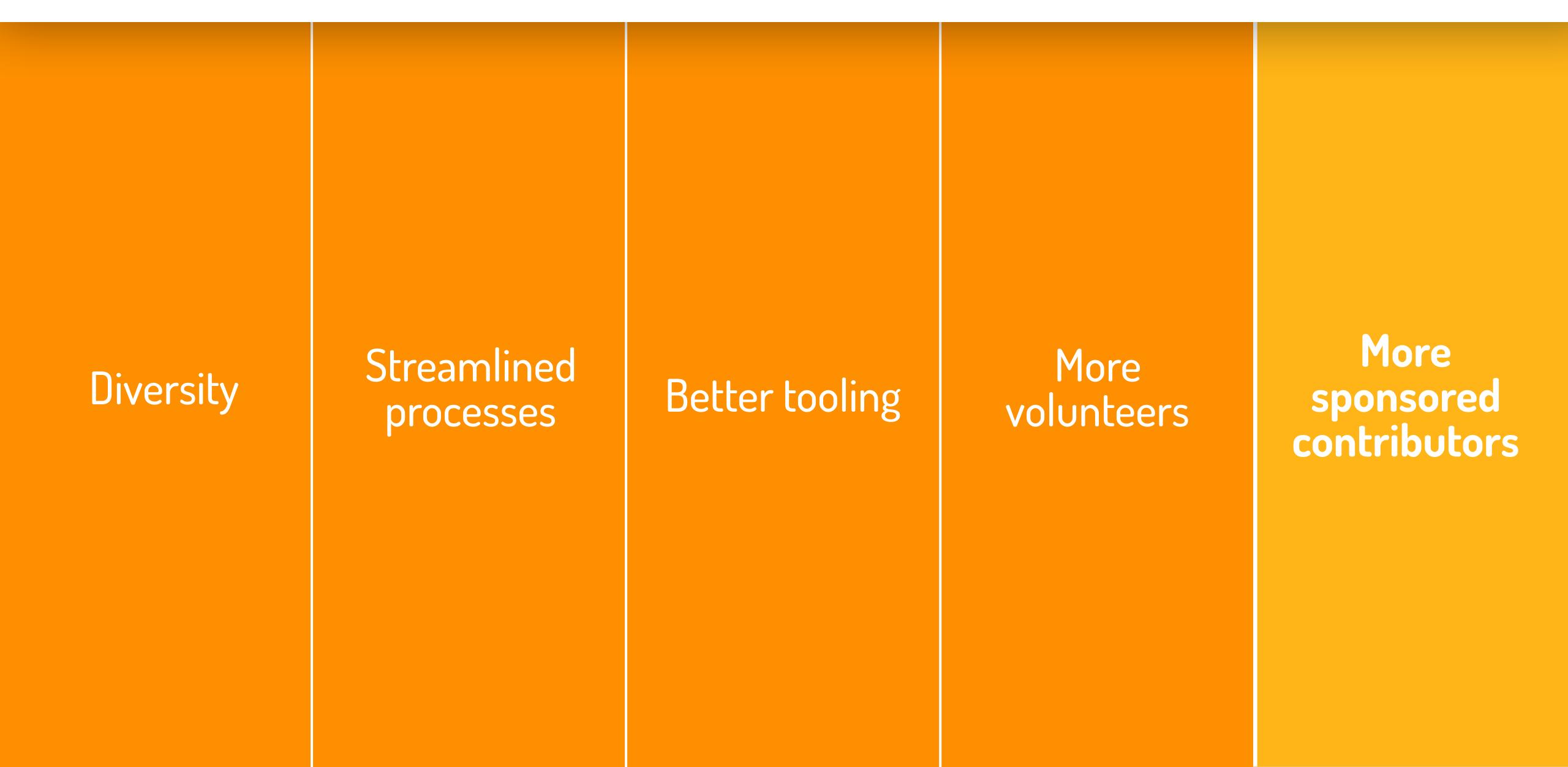
Be the best structured data engine Drupal is ready for a future where content and data is at the heart of every digital experience.

Time + speed are differentiators too

How do we climb faster?

There are a lot of things that help us go faster...

Diversity

Streamlined processes

Better tooling

More volunteers

More sponsored contributors

Balancing Makers & Takers in order to sustain Open Source

dri.es/balancing-makers-and-takers-to-scale-and-sustain-open-source

I. Turn Takers into Makers

II. Promote Makers

I. Turn Takers into Makers

Baddý Sonja Breidert 💧 **baddysonja**

Co-Founder, 1xINTERNET

I. Turn Takers into Makers

II. Promote Makers

II. Promote Makers

Taker

$100K project

1 Drupal site
$1K Towards DrupalCon

Maker

$100K project

1 Drupal site
$1K Towards DrupalCon
4 Bugs fixed
3 New features
200 Core contributions
20 hours Event organization
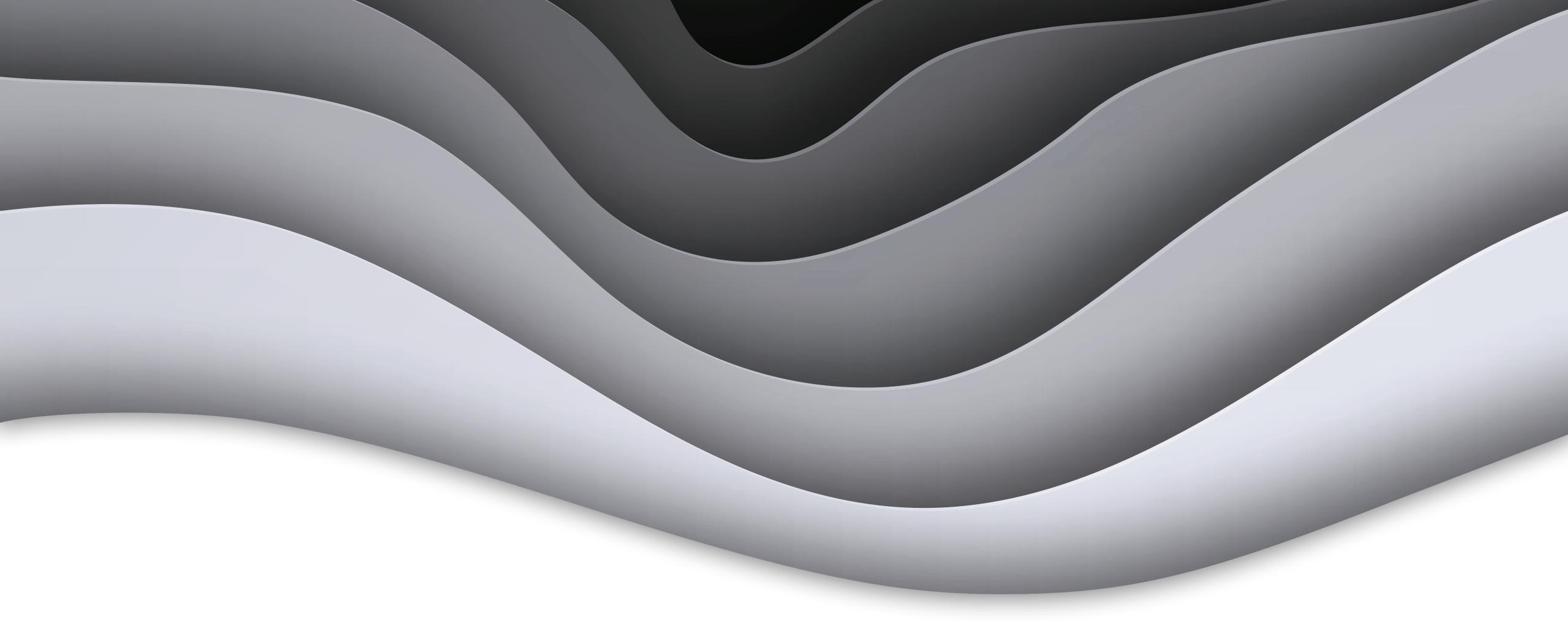
Promoting
Makers
will have
a big impact
on Drupal

More contributions
+
More diverse contributions
+
More meaningful contributions
+
Healthier

Sponsorship

What would get companies to sponsor (more)?

There are two reasons for organizations not to contribute to Open Source:

There are two reasons for organizations
not to contribute to Open Source:

They can't.
(Incapable)

There are two reasons for organizations
not to contribute to Open Source:

They can't.
(Incapable)

They won't.
(Unmotivated)

They can't?
Help them!

They won't?
Motivate them!

The Drupal Association

is serious about growing sustainable, healthy
and rewarding contribution at a big scale

If you want to go fast, go alone.
If you want to go far, go together.

-African Proverb

Wrap Up

Wrap Up

Drupal 8.8 is jam-packed with **new features.**

We are on track for **Drupal 9** and it is just around the corner.

Let's start to define **new initiatives**.

Let's go even faster by **enabling and growing Makers**.

Thank you

Slides to be posted at **https://dri.es**