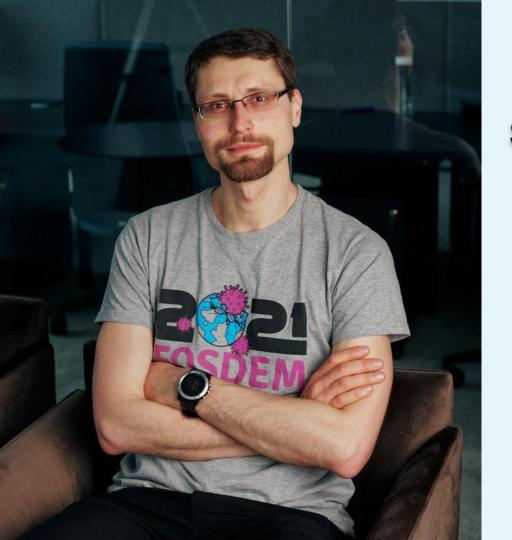
## Just a typo? Drawing the line between data and logic

Aurelijus Banelis



#### **Aurelijus Banelis**

Senior Software Engineer aurelijus.banelis.lt aurelijus@banelis.lt

PGP 0x320205E7**539B6203**130D C446 1F1A 2E50 D6E3
3DA8 3202 05E7 539B 6203



aws certified

SysOps

Administrator

Associate

aws certified
Solutions
Architect
Associate

aws certified

Developer

Associate





#### Why fixing a typo is slow?

## Can content and dev teams work together?









Atsisiusk turinio valdymo sistema

HTML redaktoriu. Su juo galėsite lengvai ir patogiai redaguoti ar kurti straipsnius. HTML redaktoriuje bus visos

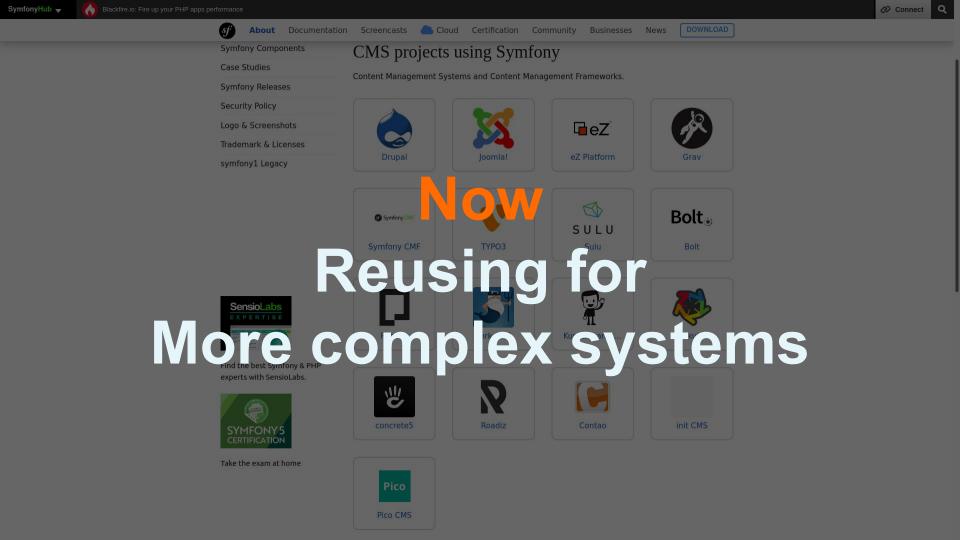
Naujausioje versijoje galėsite įdėti dizaino lenteles ar paprastus meniu. Dizaino lentelės pavyzdys - šis sąrašas, o meniu

skyriaus pozicija, pavadinima, ištrinti, išvalyti, pasirinkti pagrindini puslapi,

Lengva Jiama dizaina. Dizaino nerei is idiegti, dizainus skirtus šiai turinio valdymo sistemai vėliau rasite Dizainas skyriuje. Created Vour, leowing ipa. Juos galėsite kurti

Content management system

Visos versijos



we'll have a look. right now I'm not sure if it's a techn	ical or a data issue	
OK thanks. It also takes longer to charge than the oth	ner products.	
the and	options are missing images which is causing the configuration options to	
disappear. we'll take a look if we can handle such issues more graceful.		
	oro data	
· · · · · · · · · · · · · · · · · · ·	or Gata	

The same thing happened of the web when a product without price was being returned. I guess there's a laulty product in the first page on the default sorting

there seems to be a bad coordination between data and tech. The new scale is adopted but in theory it was only available for kitchens.

morning, commercial is already on it to fix it and update it.

undefined is not iterable

we'll have a look. right now I'm not sure if it's a technical or a data issue

OK thanks. It also takes longer to charge than the other products.

the \_\_\_\_\_ and \_\_\_\_\_ or or are missipa images which is causing the configuration options to disappear. we'll take a look if we can handle such issues not be a look if we can handle

The same thing happened on the default sorting returned. I guess there's a faulty reduct in the first page on the default sorting

there seems to be a bad coordination between data and tech. The new scale is adopted but in theory it was only available for kitchens.

morning, commercial is already on it to fix it and update it.

undefined is not iterable

we'll have a look. right now I'm not sure if it's a technical or a data issue
OK thanks. It also takes longer to charge than the other products.
the and options are missing images which is causing the configuration options to disappear. we'll take a look if we can handle such issues more graceful
The same thing happened on the web when a product without price was being

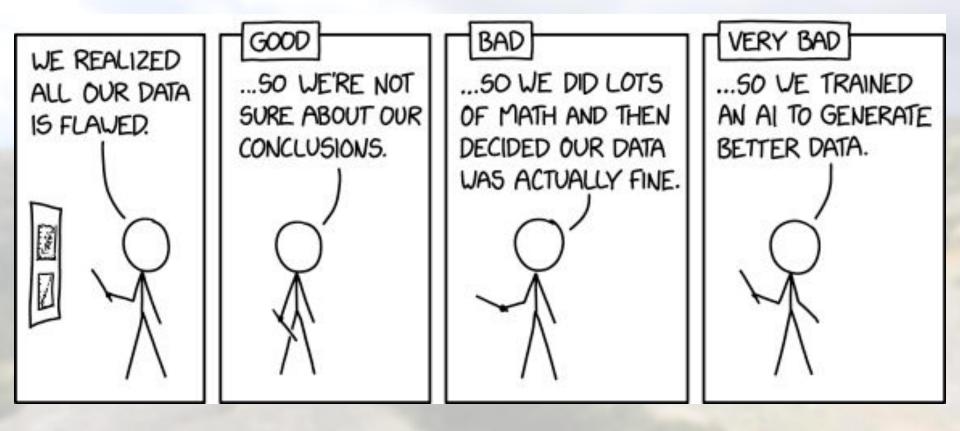
returned. I guess there's a faulty product in the first page on the default sorting

there seems to be a bad coordination between data and tech. The new scale is adopted but in theory it was only available for kitchens.

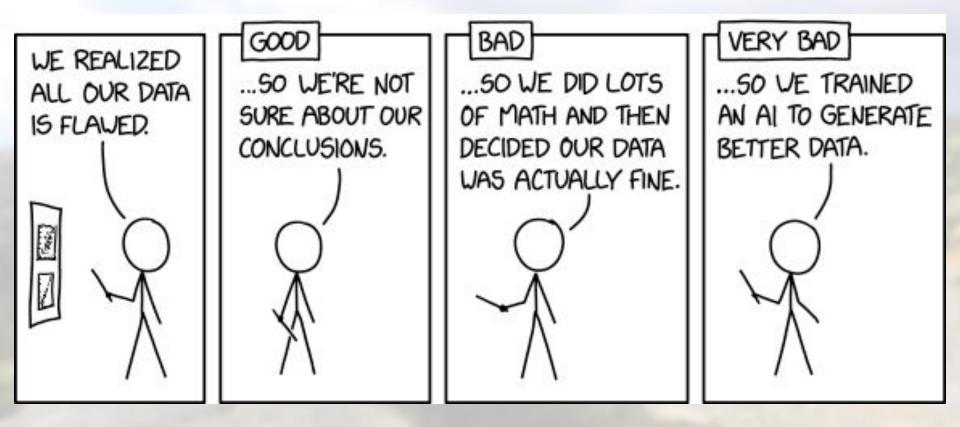
morning, commercial is already on it to fix it and update it.

undefined is not iterable

#### Keeping valid data on scale is hard



#### Keeping valid data on scale is hard



But we can try

#### Free form data

Structured data

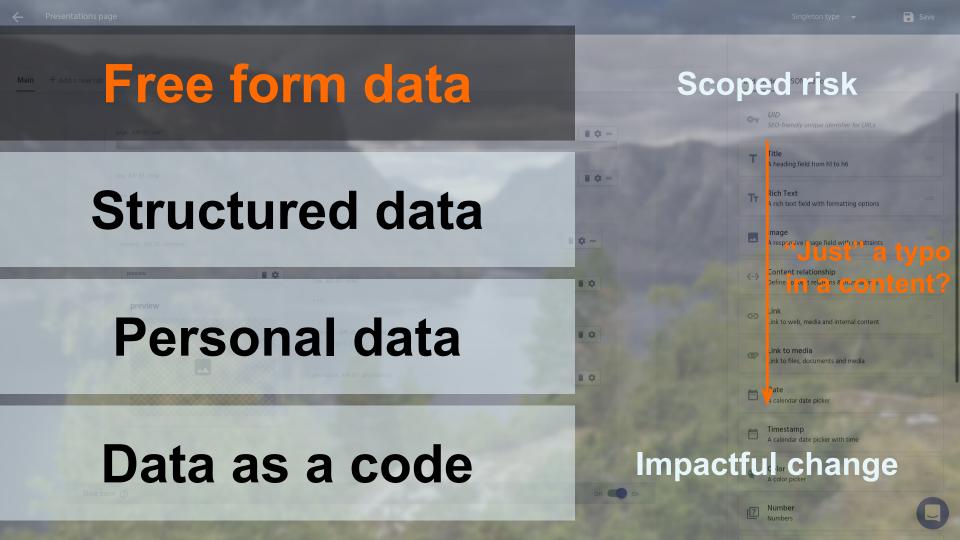
Personal data

Data as a code

Scoped risk

"Just" a typo in a content?

Impactful change



Features

Use cases

Pricing

Docs & Concepts

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FAO

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Test it out

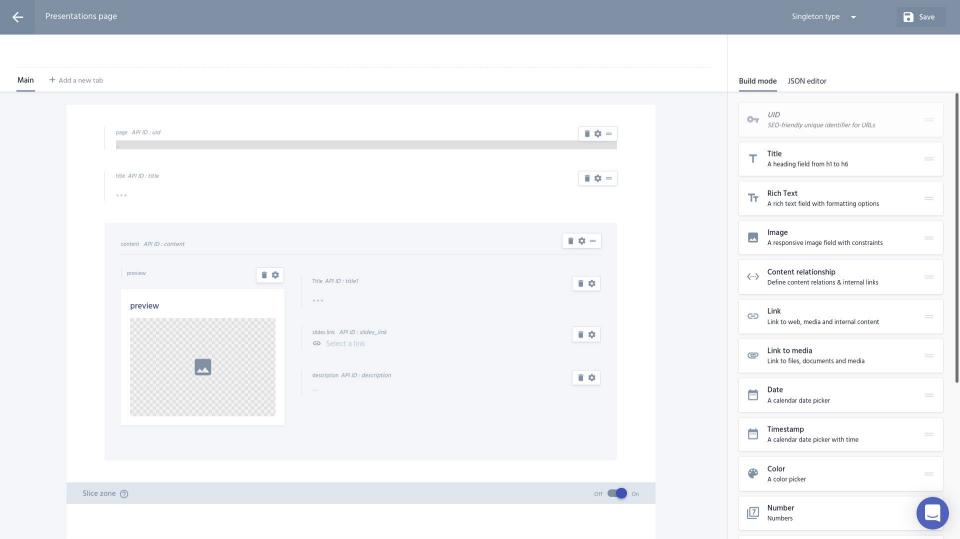


#### Unpopular opinion: why required fields lead to terrible UX

Written by Renaud Bressand in Concept on November 05,2018

Validation mechanisms and required fields are a hotly debated topic in our team and throughout our community. These two features stand amongst the top requested features and yet they have never been implemented. (Which might seem especially strange given how relatively simple it is to build them.)

In this article, we want to describe why we don't have any validation rules in our content editor and what we recommend instead. This blog post aims to lay the groundwork for a broader discussion and debate on these topics



**9** Ē

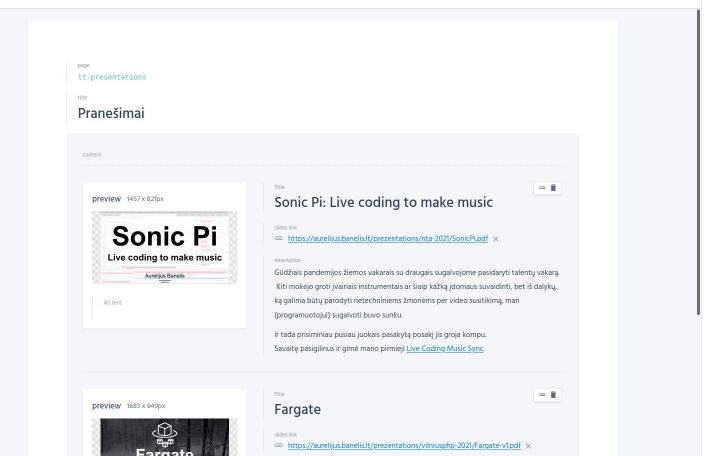




0

Tag this document.

Main





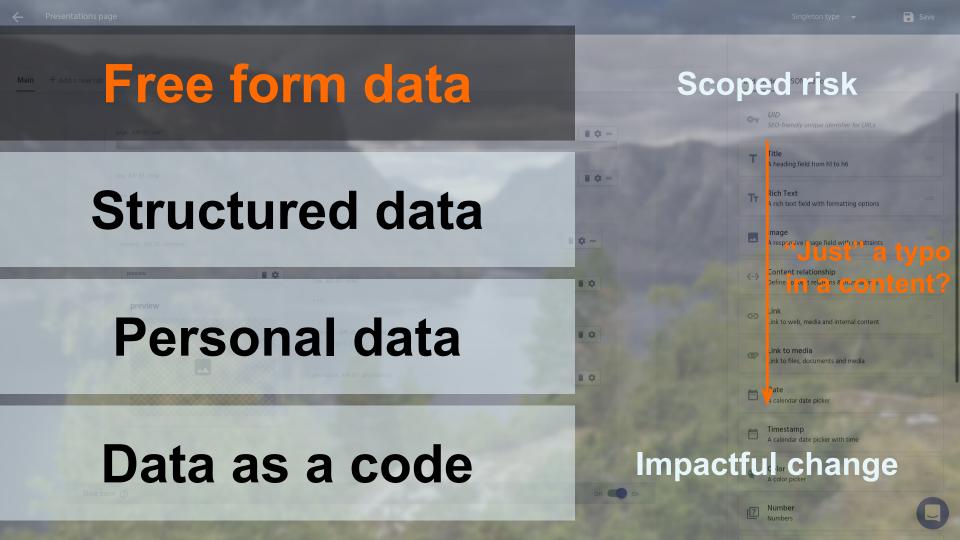


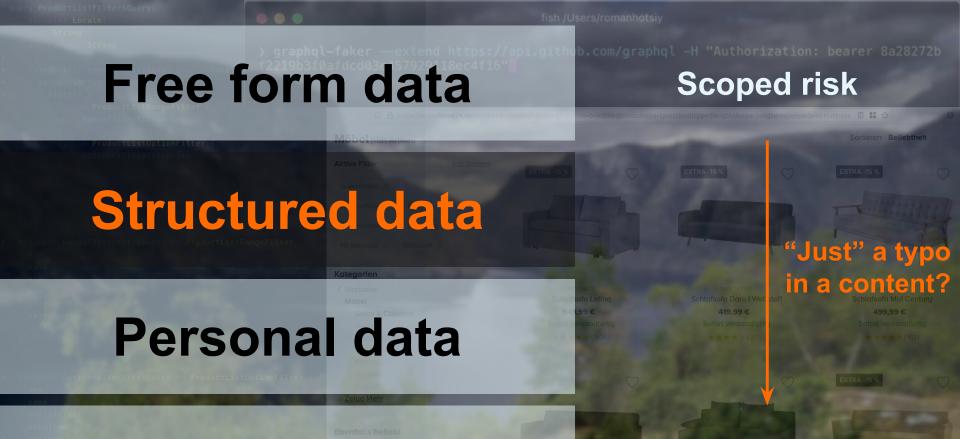




### DEMO

```
foreach (glob( pattern: "$prismicExport/*.json") as $file) {
    $data = json_decode(file_get_contents($file), associative true);
Import/Export BETA
              * Sdatai 'publishing_date'] 77 '';
Export your documents
  All your documents has been successfuly snapshoted. Click here to download the archive.
       if (!$hasH1 && $i == 0) {
           echo "Do not have H1: \t$docName\tPublished: $published\tLang: $lang\t$file\n";
```





Data as a code

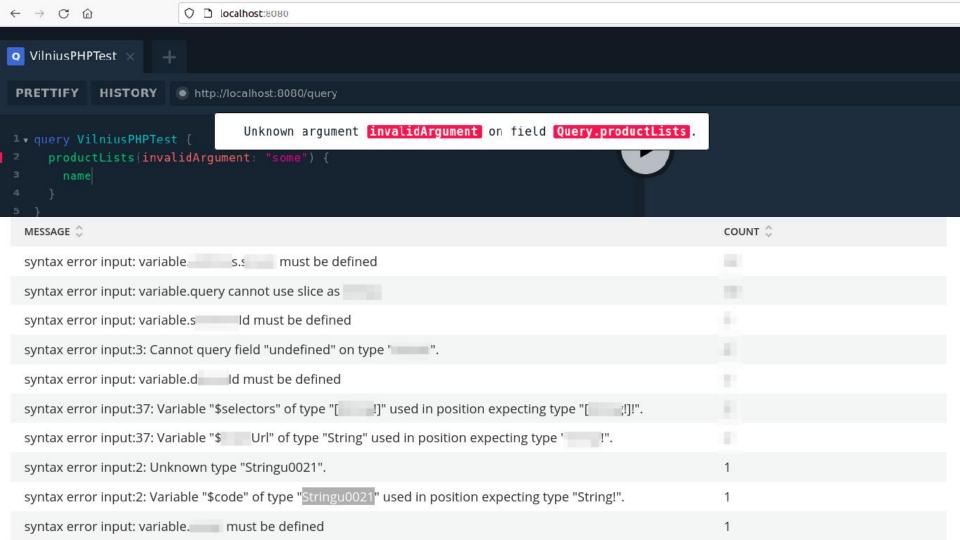
Impactful change

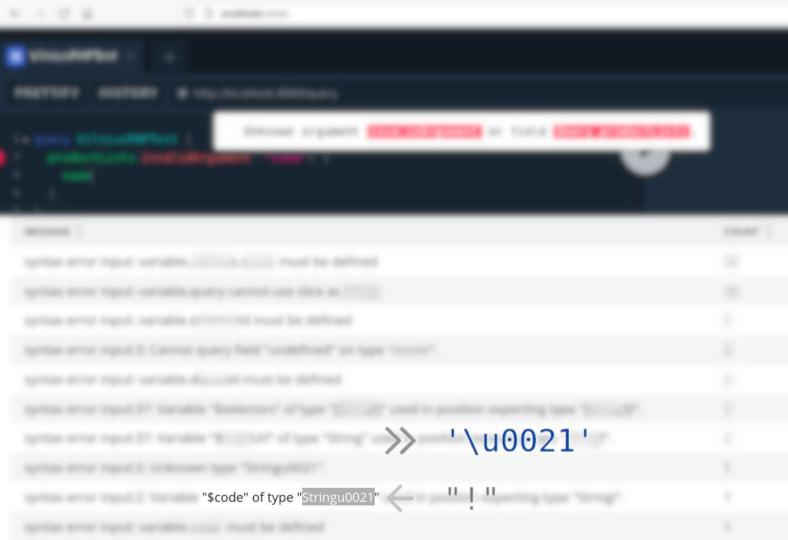
aru I Webstoff

Boxspring-Schlafsofa Dingo Webstoff Schlafsofa Posen
429,99 €

```
stocate: Locale
            ... on ProductListRangeFilter {
                                                                                            🔾 🗎 https://www.home24.de/moebel-sortiment/?sleepingFunction=boxspring|crosssleeper|guestbed|kipper|lengthSleeper|longtermSleeper|withMattress 🗉 👪 🛱
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                                                                                   Dauerschläfer ×
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 fragment OptionFilterAttributes on ProductListOptionFilter {
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                                                                                  Polstermöbel
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                                                                                  Badmöbel
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```

```
fish /Users/romanhotsiy
    stocate: Locale
                                                         > graphql-faker --extend https://api.github.com/graphql -H "Authorization: bearer 8a28272b
                                                         f2219b3f0afdcd03e457929118ec4f16"
           ... on ProductListRangeFilter {
                                                                                    🔾 🗎 https://www.home24.de/moebel-sortiment/?sleepingFunction=boxspring|crosssleeper|guestbed|kipper|lengthSleeper|longtermSleeper|withMattress 🗉 👪 🛱
                                                                          Möbel (1181 Artikel)
                                                                                                                                                                                                   Sortieren: Beliebtheit
                  ProductListOptionFilter {
                                                                           Aktive Filter
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                                                                            Dauerschläfer >
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fragment RangeFilterAttributes on ProductListRangeFilter {
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 fragment OptionFilterAttributes on ProductListOptionFilter {
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                                                                             Zeige Mehr
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                                                                                                                                                                    719,99 €
                                                                                                                            Sofort versandfertig
                                                                                                                                                                                                    Sofort versandfertig
```





```
"data": {
"data": {
                                                                           "categories": [
  "categories": [
                                                                               "categoryArticles": {
      "categoryArticles": {
                                                                                 "filters": [
        "filters": [
                                                                                     "key": "Sample1",
            "key": "functionalityTables",
                                                                                     "name": "Name A",
            "name": "Funktionalität",
                                                                                     "multiselect": true,
            "multiselect": true,
                                                                                     "showIcon": false,
            "showIcon": false,
                                                                                     "options": []
            "options": []
                                          Realistic test data
                                          as documentation
                                                                                     "key": "Sample2",
            "key": "functionUpholstery",
                                           (e.g. from Staging
                                                                                     "name": "Name B",
            "name": "Funktion",
                                                                                     "multiselect": true,
                                          environment)
            "multiselect": true,
                                                                                     "showIcon": false,
            "showIcon": false,
                                                                                     "options": [
            "options": [
                                                                                         "key": "Sample3",
                "key": "sleepingfunctionGuest",
                                                                                         "value": "Name C",
                "value": "Schlaffunktion",
                                                                                         "numberOfArticles": 123,
                "numberOfArticles": 426,
                                                                                         "imagePath": null,
                "imagePath": null,
                                                                                         "selected": false
                "selected": false
                                                                                         "key": "Sample4",
                "key": "sleepingfunctionPermanent",
                                                                                         "value": "Name D",
                "value": "Schlaffunktion für dauerhafte Nutzung",
                                                                                         "numberOfArticles": 456,
                "numberOfArticles": 323,
```

min • Edited

it seems that the **requestedUrI** is wrong, a concatenation of 2 or more url<mark>, e.g.</mark>

https://www

utm\_price= &organic,https://www. ?c &

&

&utm\_price= &organic,https://www.

/?q . logs: https://c

why would that break schema though?

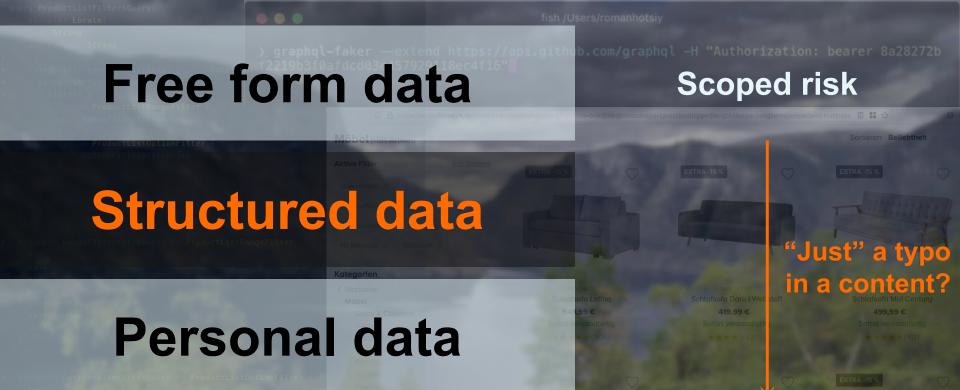


#### Aurelijus Banelis

And it correlates with deployment time: https://

```
"message": "Expected type Locale!, found lt_LT. Did you mean the enum value it_IT?",
    "locations":
                                   if (isValidationError($resonse[0]['message'])) {
                                      // ... treating like free-form data
        "line": 2,
        "column": 21
                                   if (isValidationError($resonse[0]['extensions']['code'])) {
                                      // ... treating like structured data
    "extensions": {
      "code": "GRAPHQL_VALIDATION_FAILED"
"data": null
                                                              Data duplication, but different purpose
```

"errors":



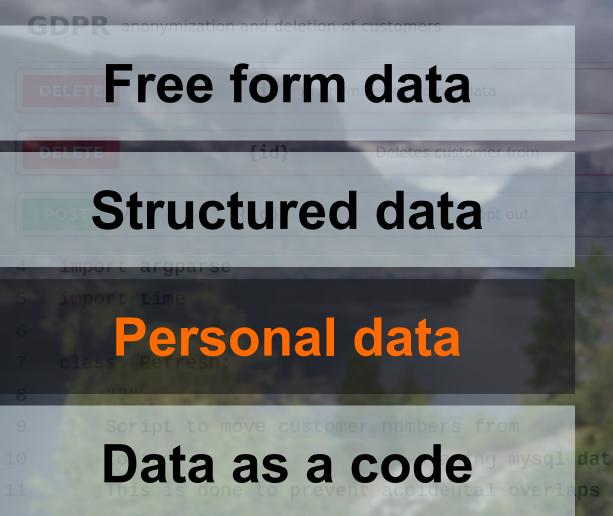
Data as a code

Impactful change

aru I Webstoff

Boxspring-Schlafsofa Dingo Webstoff MØRTEENS
Schlafsofa Posen
429,99 €

Sofort versandfert



Scoped risk

"Just" a typo in a content?

live mysql

ab Impactful change

taging test users

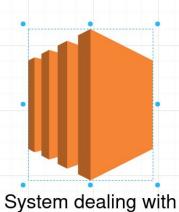
```
GDPR anonymization and deletion of customers
                       {id} Anonymizes customer data
   DELETE
   DELETE
                       {id}
                                    Deletes customer from
                     /{id}/
   POST
                                             opt out
     import argparse
     import time
 6
     class Refresh:
          11 11 11
         Script to move customer numbers from
                                                                      live mysql
         to the
10
                                        staging mysql database.
         This is done to prevent accidental overlaps of
11
                                                                  taging test users
         and the live database users
```

#### Why we need micro services?



Release change fast?

free form data



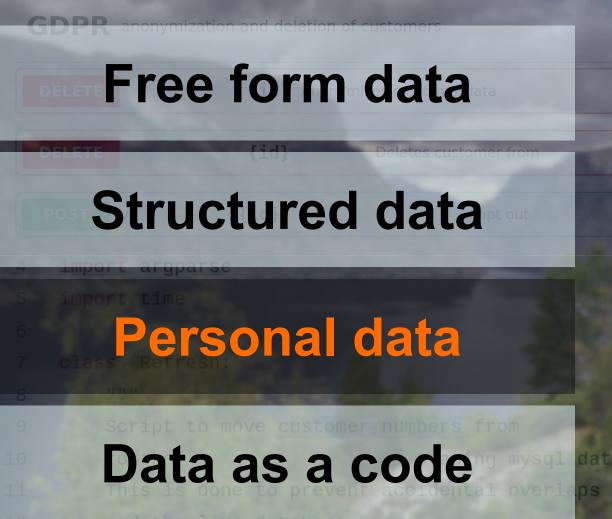
Special data storage requirements

personal data



Other systems dealing with structured data

Stability for Black Friday is critical for business?



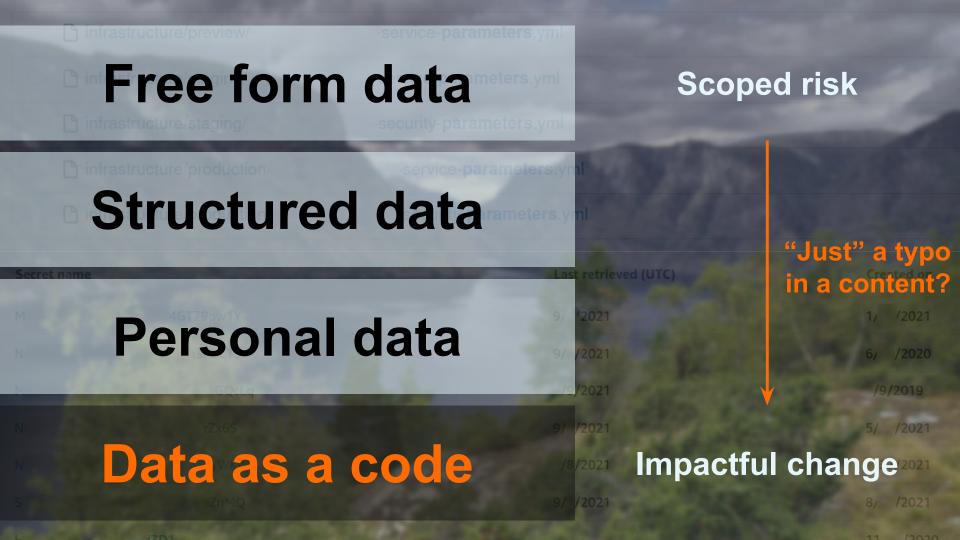
#### Scoped risk

"Just" a typo in a content?

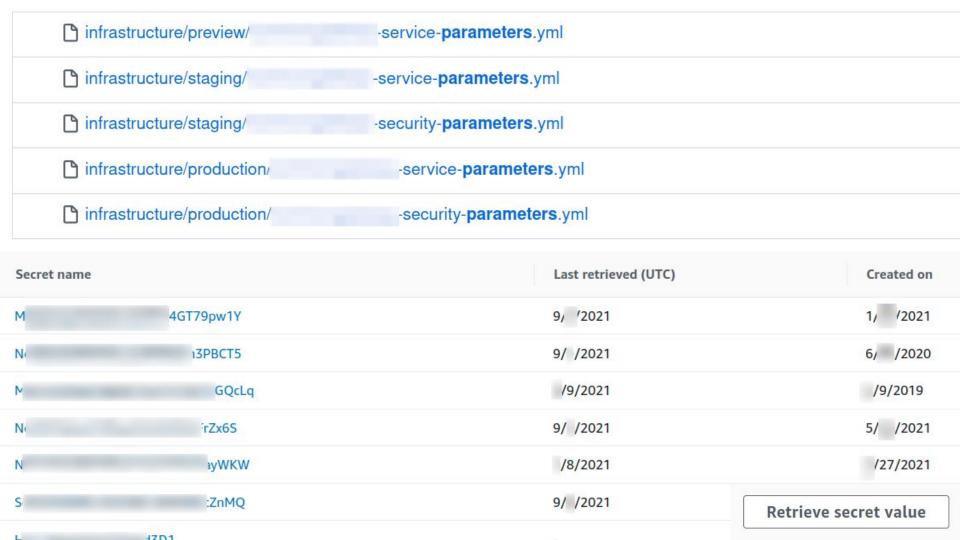
live mysql

ab Impactful change

taging test users



in:	frastructure/preview/	-service-parameters.yml -service-parameters.yml -security-parameters.yml -service-parameters.yml	
🗅 in	frastructure/staging/		
🖰 in	infrastructure/staging/		
🕒 in	frastructure/production/		
in in	frastructure/production/	-security- <b>parameters</b> .yml	
Secret name		Last retrieved (UTC)	Created on
М		9, ′2021	1, /2021
N		9/ /2021	6/ /2020
M		/9/2021	/9/2019
N		9/ /2021	5/ /2021
N	зуWKW	/8/2021	/27/2021
	:ZnMQ	9/ /2021	8/ /2021
	47.01		11 /2020





#### Search or jump to...



Pulls



#### / AB-Testing





Issues



Pull requests

Private







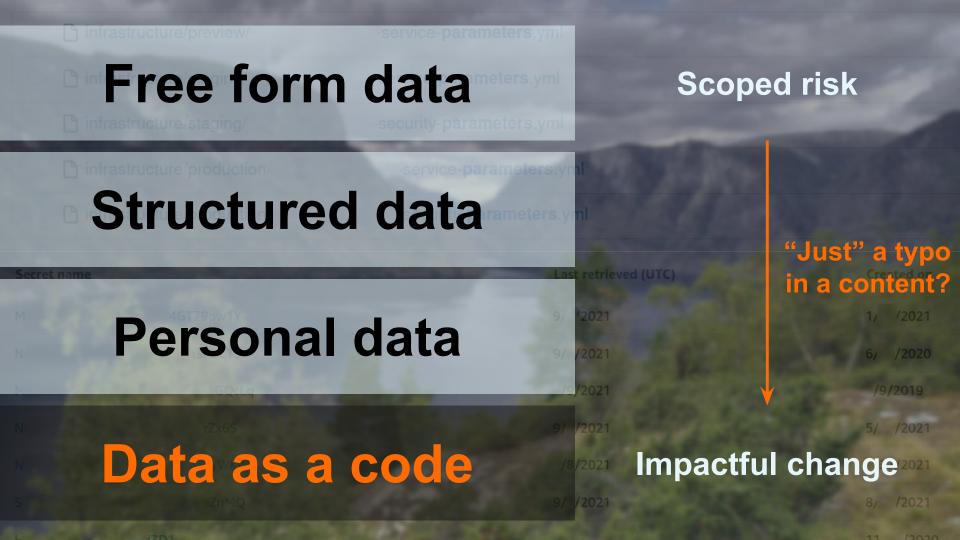
Value Name



AB

galleryorder|c|olapic|a|order-status|a|plplabel|c|ranking|a|search|a





#### Why fixing a typo is slow?

#### Why fixing a typo is slow?

Architecting not by data.

Or choosing stability over speed.

## Can content and dev teams work together?

## Can content and dev teams work together?

Personally, it is like Dev and ops teams O'REILLY"

# BUILDING A CULTURE OF COLLABORATION,

AFFINITY, AND TOOLING AT SCALE

Jennifer Davis & Ryn Daniels

#### Collaboration

Vs Logic oblem

Scaling

# Thank you Drawing the line between Discussion?

Aurelijus Banelis

VilniusPHP 2021-10-07