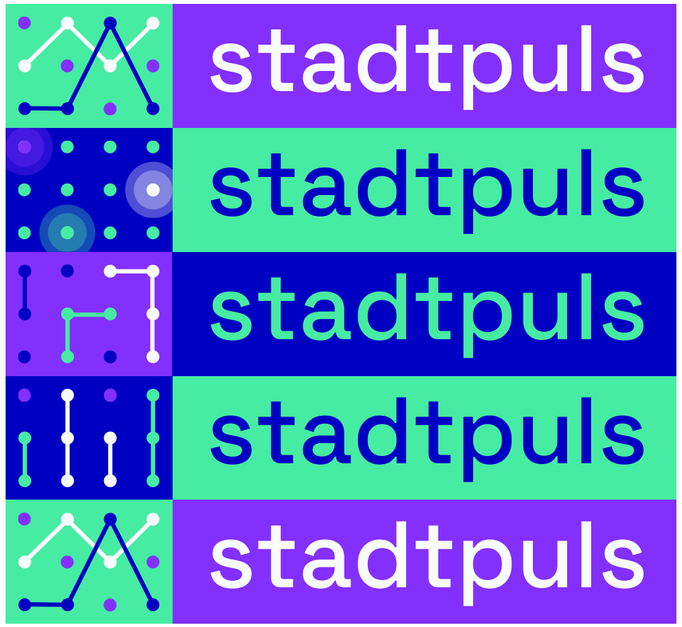
[api.]stadtpuls.com

/behind/the/curtain

Julia Zimmermann, Ingo Hinterding, Dennis Ostendorf,
Lucas Vogel & Fabian Morón Zirfas

2021-10-20


stadtpuls
stadtpuls
stadtpuls
stadtpuls
stadtpuls

Fabian Morón Zirfas

- Senior Creative Technologist
- @Ideation & Prototyping Lab
- @Technologiestiftung Berlin
- GitHub: @ff6347

Lucas Vogel

- UI/UX Designer & Frontend Developer
- @CityLAB Berlin
- @Technologiestiftung Berlin
- GitHub: @vogelino

T.O.C.

- Stadtpuls Tech Stack
- Worauf wir achten, wenn wir Technologien auswählen
- Dokumentation
- Qualitätssicherung

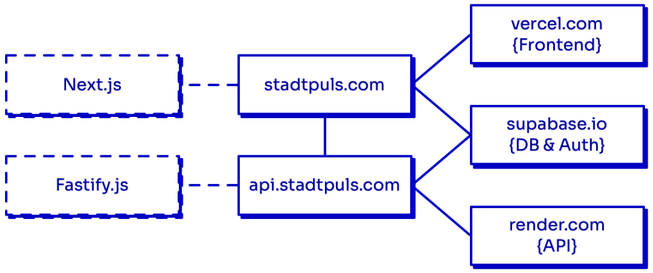
Online Präsentation

technologiestiftung.github.io/stadtpuls-behind-the-curtain

Stadtpuls Tech Stack

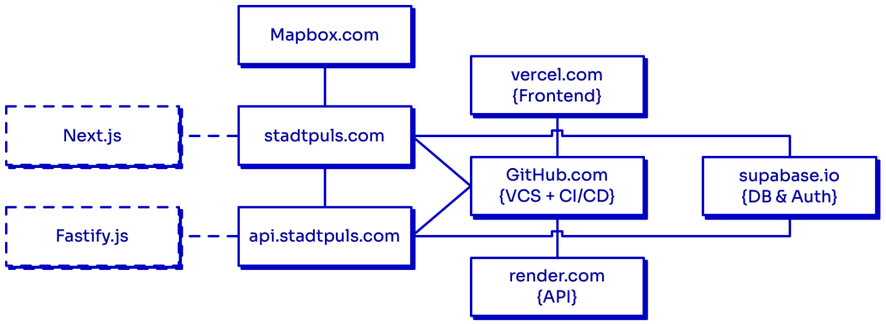
[api.]stadtpuls.com

Tech-Stack



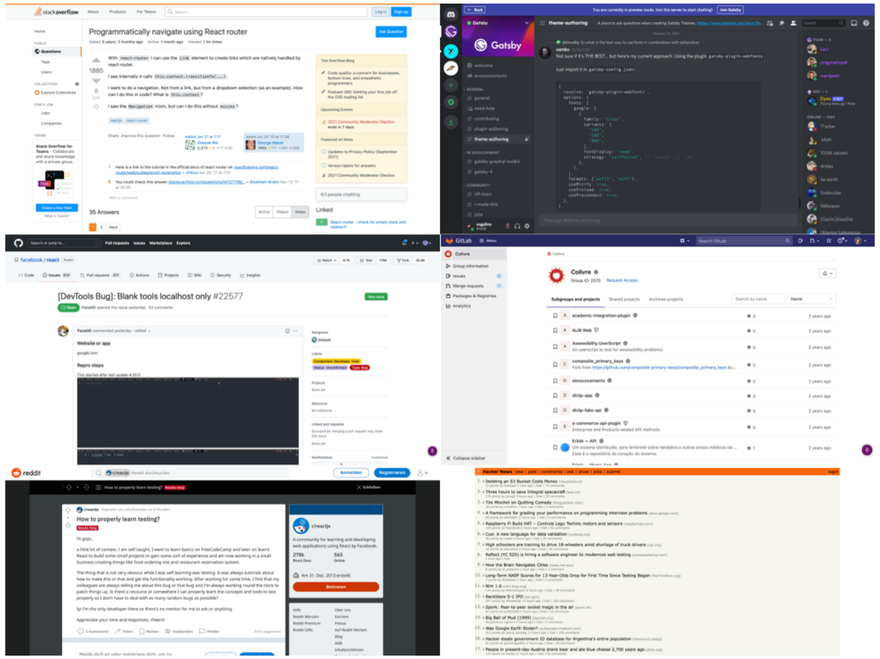
[api.]stadtpuls.com

Tech-Stack

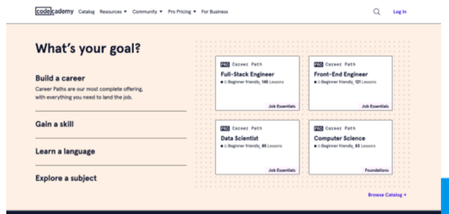


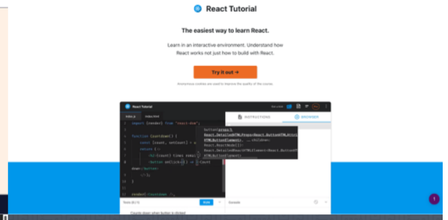
Worauf Wir Achten, Wenn Wir Technologien Auswählen

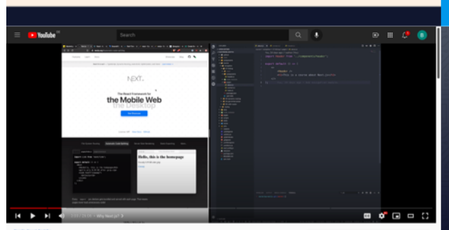
Große Communities

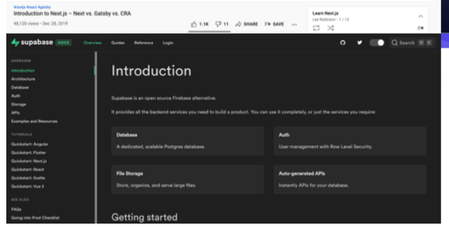


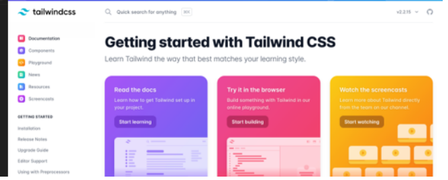
Viele Resourcen











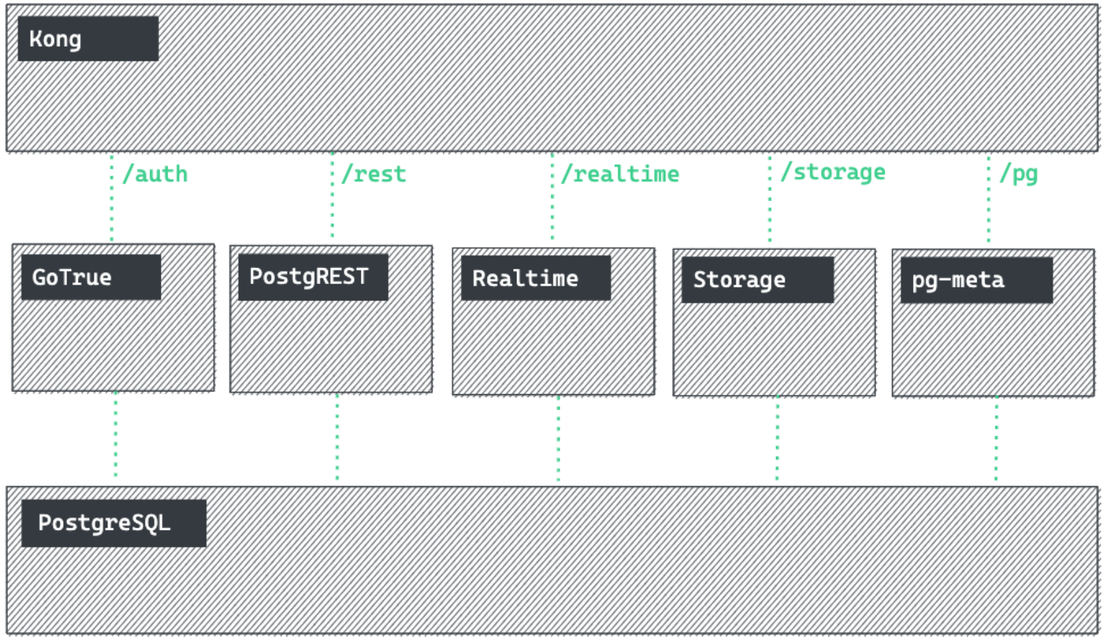
Open Source/Core

BEISPIEL

supabase

Backend As A Service Startup

Supabase is an open source Firebase alternative.


Kong
/auth
/rest
/realtime
/storage
/pg
GoTrue
PostgREST
Realtime
Storage
pg-meta
PostgreSQL

Dokumentation

JavaScript...

```
export const SigninButton= (props) => {
  return <><button onClick={
    (e) => {
    e.preventDefault();
    console.log(props.email, props.password);
  }}/></>
}
```

...Versus Typescript

```
interface SigninProps {
  email: string;
  password: string;
}
export const SigninButton: React.FC<SigninProps> = ({
  email, password
}) => {
  return <><button onClick={
    (e: React.ChangeEvent<any>) => {
    e.preventDefault();
    console.log(email, password);
  }}/></>
}
```

Fastify JSON Schemas

JSON Schema

POST http://example.com/api/cats

```
{
  "$id": "https://example.com/api/cats.schema.json",
  "title": "cats",
  "type": "object",
  "additionalProperties": false,
  "properties": {
    "name": {
      "type": "string",
      "description": "The cat's name."
    },
    "mood": {
      "description": "The mood the cat is in.",
      "enum": ["grumpy", "happy", "purrrr!"]
    }
  },
  "required": ["mood"]
}
```

Request 201

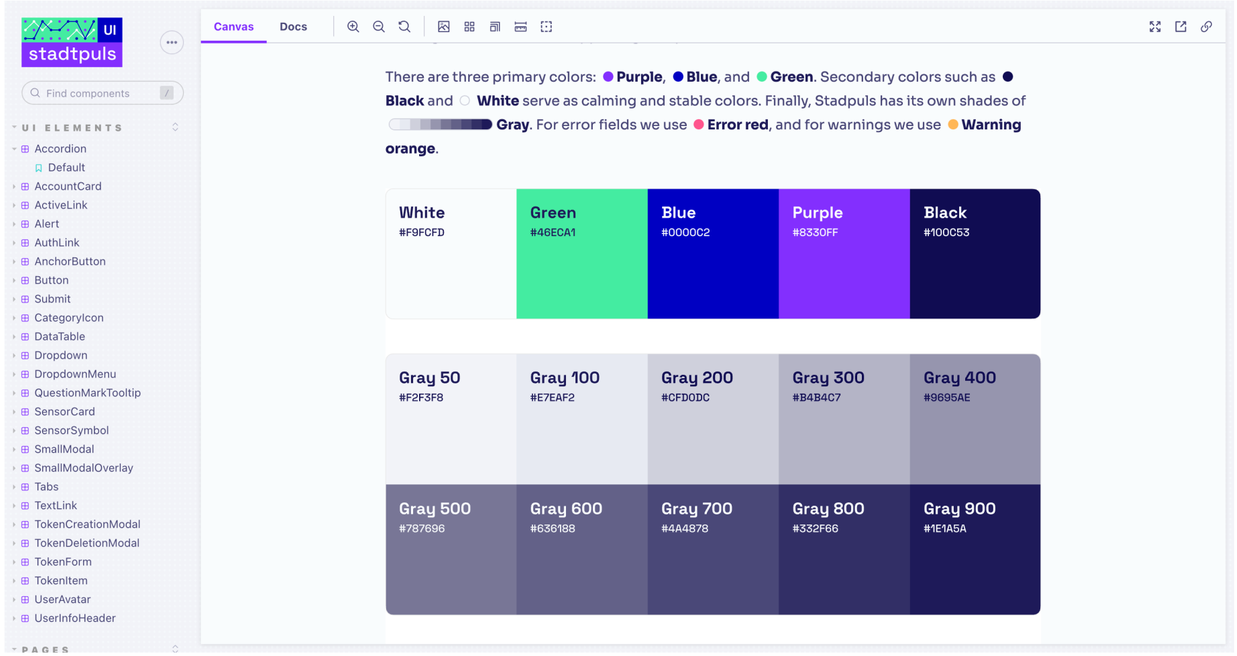
```
POST /api/cats HTTP/1.1
Host: example.com
Content-Type: application/json

{"mood": "purrrr!"}
```

Request 400

```
POST /api/cats HTTP/1.1
Host: example.com
Content-Type: application/json

{"mood": "purrrr!", "saz": "I hate Mondays!"}
```

```
{
  "statusCode": 400,
  "error": "Bad Request",
  "message": "body should NOT have additional properties"
}
```

Storybook

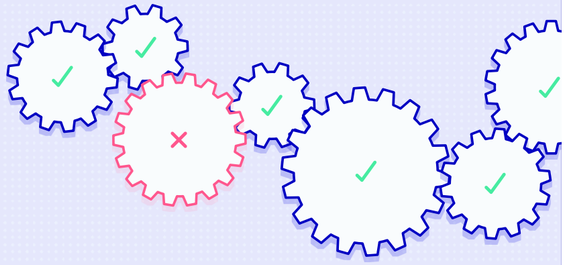

UI
stadtpuls
Find components
/
UI ELEMENTS
Accordion
Default
AccountCard
ActiveLink
Alert
AuthLink
AnchorButton
Button
Submit
CategoryIcon
DataTable
Dropdown
DropdownMenu
QuestionMarkTooltip
SensorCard
SensorSymbol
SmallModal
SmallModalOverlay
Tabs
TextLink
TokenCreationModal
TokenDeletionModal
TokenForm
TokenItem
UserAvatar
UserInfoHeader
PAGES
Canvas
Docs
There are three primary colors: Purple, Blue, and Green. Secondary colors such as Black and White serve as calming and stable colors. Finally, Stadpuls has its own shades of Gray. For error fields we use Error red, and for warnings we use Warning orange.
White
#F9FCFD
Green
#46ECA1
Blue
#0000C2
Purple
#8330FF
Black
#100C53
Gray 50
#F2F3F8
Gray 100
#E7EAF2
Gray 200
#CFD0DC
Gray 300
#B4B4C7
Gray 400
#9695AE
Gray 500
#787696
Gray 600
#636188
Gray 700
#4A4878
Gray 800
#332F66
Gray 900
#1E1A5A

Qualitätssicherung

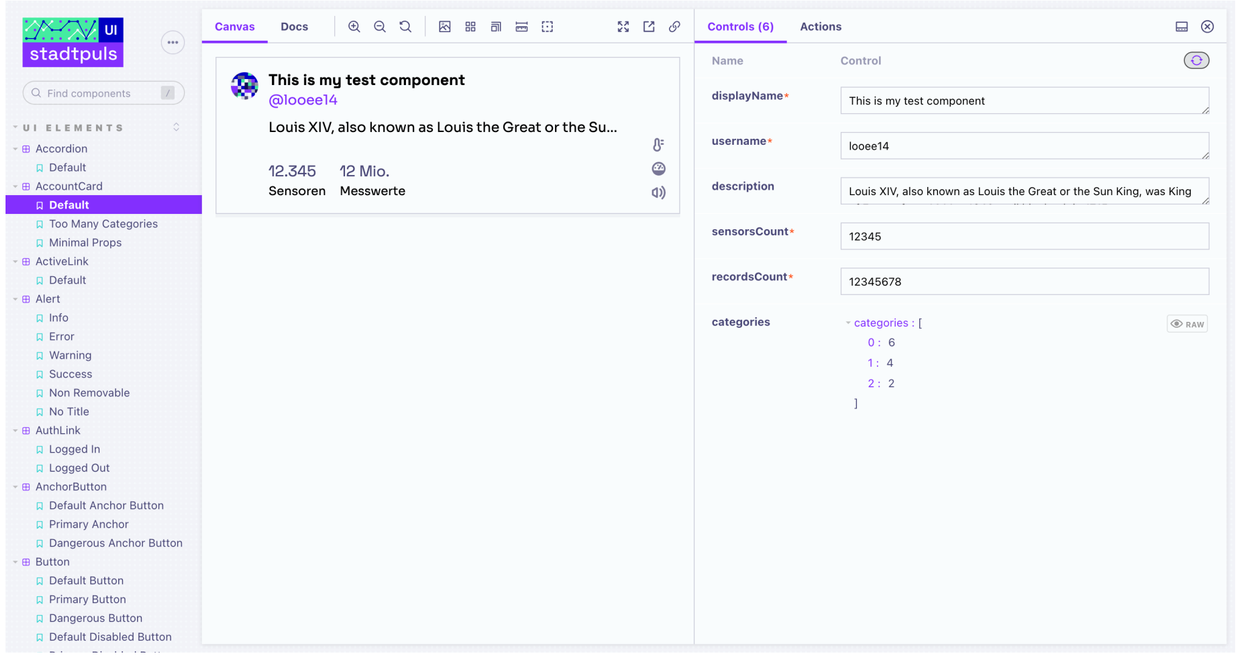
Unit Tests

Snapshot Tests

Integration Tests



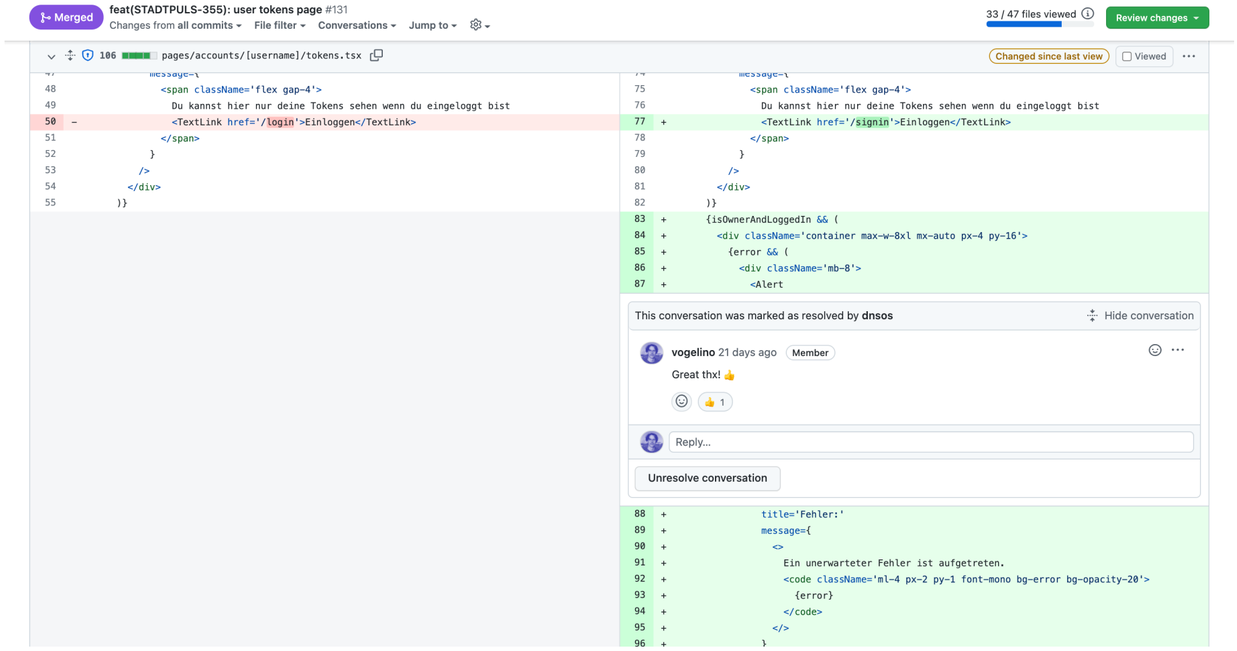
Storybook


UI
stadtpuls
Find components
/
UI ELEMENTS
Accordion
Default
AccountCard
Default
Too Many Categories
Minimal Props
ActiveLink
Default
Alert
Info
Error
Warning
Success
Non Removable
No Title
AuthLink
Logged In
Logged Out
AnchorButton
Default Anchor Button
Primary Anchor
Dangerous Anchor Button
Button
Default Button
Primary Button
Dangerous Button
Default Disabled Button
Canvas
Docs
This is my test component
@looee14
Louis XIV, also known as Louis the Great or the Su...
12.345
Sensoren
12 Mio.
Messwerte
Controls (6)
Actions
Name
Control
displayName*
This is my test component
username*
looee14
description
Louis XIV, also known as Louis the Great or the Sun King, was King
sensorsCount*
12345
recordsCount*
12345678
categories
categories : [
0 : 6
1 : 4
2 : 2
]
RAW

Storybook (Snapshot Testing)

```
FAIL src/Storyshots.test.js
  • Storyshots › Button › with text

    expect(value).toMatchSnapshot()

    Received value does not match stored snapshot 1.

    - Snapshot
    + Received

    @@ -9,7 +9,7 @@
           "fontSize": 15,
           "margin": 10,
           "padding": "3px 10px",
         }
       }>
    -  Hello Button
    +  Hello Button 23
     </button>

      at Object.<anonymous> (node_modules/@kadira/storyshots/dist/index.js:88:30)
      at process._tickCallback (internal/process/next_tick.js:103:7)

PASS src/App.test.js

Snapshot Summary
 › 1 snapshot test failed in 1 test suite. Inspect your code changes or press `u` to update them.

Test Suites: 1 failed, 1 passed, 2 total
Tests:       1 failed, 3 passed, 4 total
Snapshots:   1 failed, 2 passed, 3 total
Time:        0.361s, estimated 1s
Ran all test suites.
```

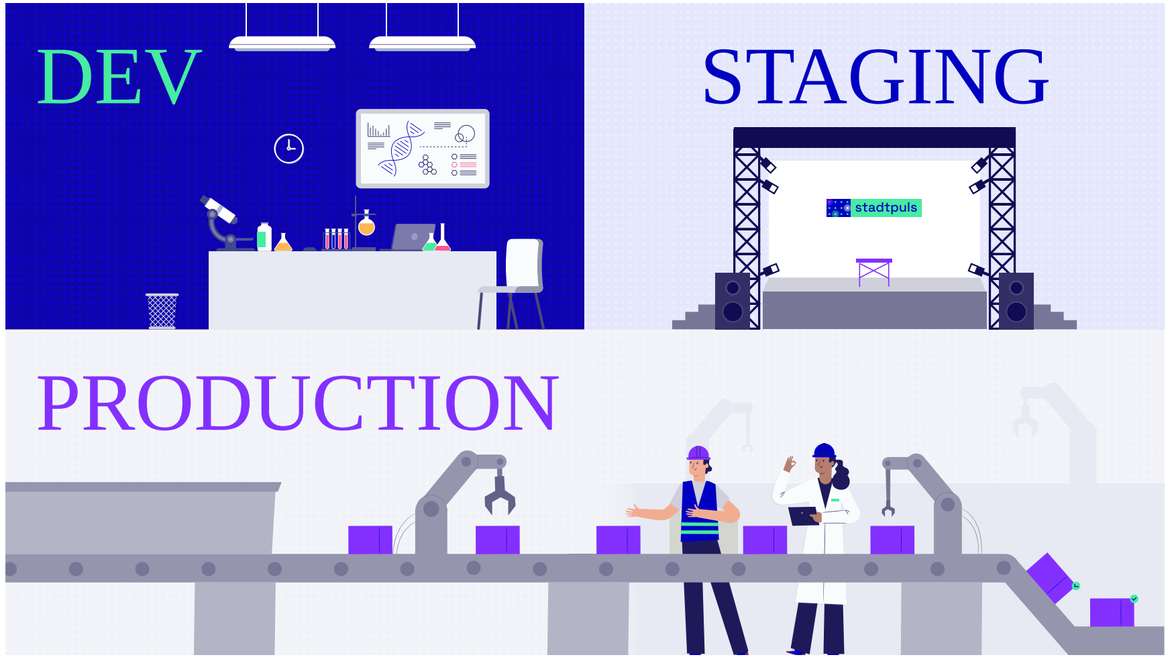
Code Reviews



Github Actions

- CI (Continuous Integration)
- CD (Continuous Delivery)
- CD (Continuous Deployment)

Continuous Integration
Continuous Delivery
Continuous Deployment
Build
Test
Merge
Automatic release to staging
Automatic deploy to production



Music vector created by freepik, Process vector created by stories, and Technology vector created by freepik - www.freepik.com

Q & A

Danke

für Ihre Aufmerksamkeit