

BETTER ARCHITECTURE WITH UX-DRIVEN DESIGN

ВАЛЕРИЙ СОРОКОБАТЬКО

SOFTWARE ARCHITECT, JAVASCRIPT

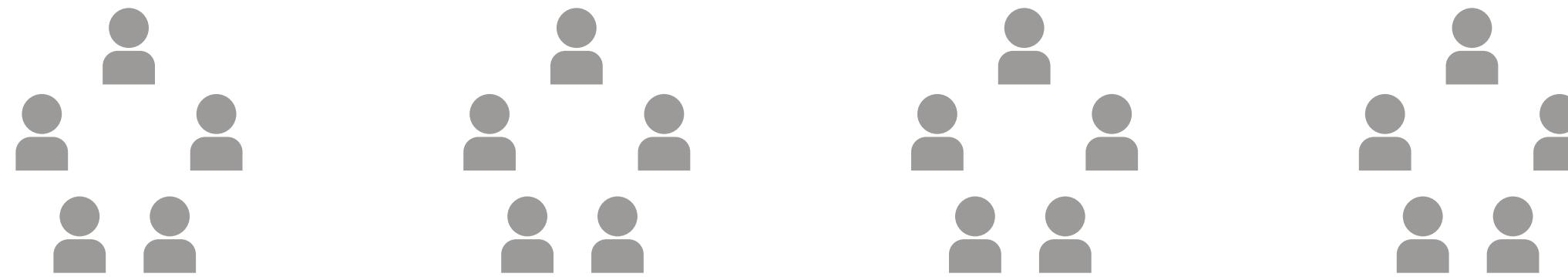
ДЕНИС ЯРОВОЙ

UX DESIGNER

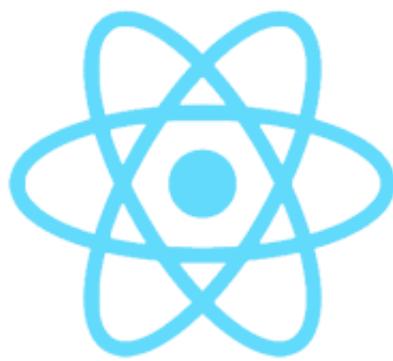
Hello, World!

Frontend statistics

4 команды



9 проектов



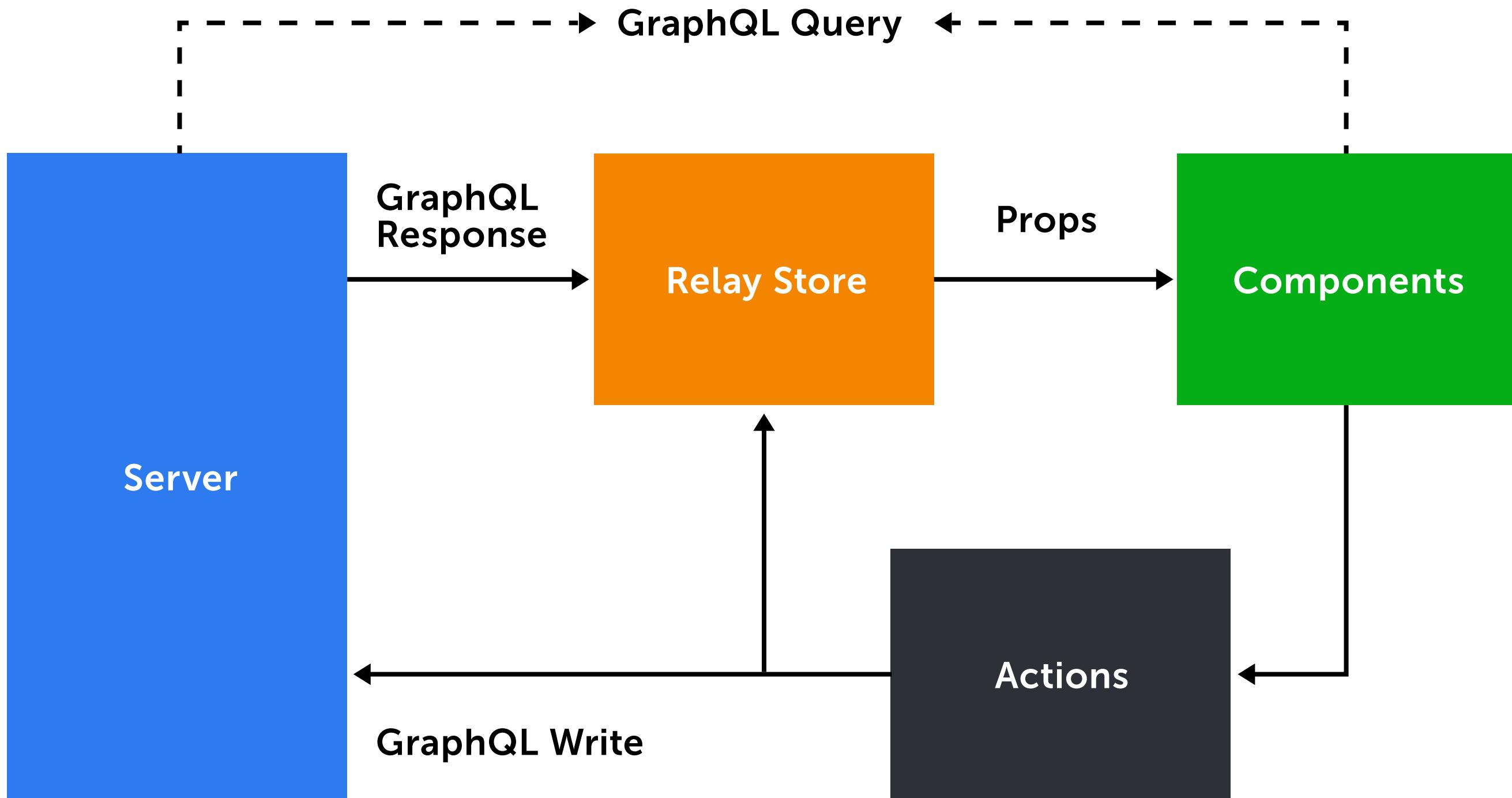
React



ANGULARJS
by Google

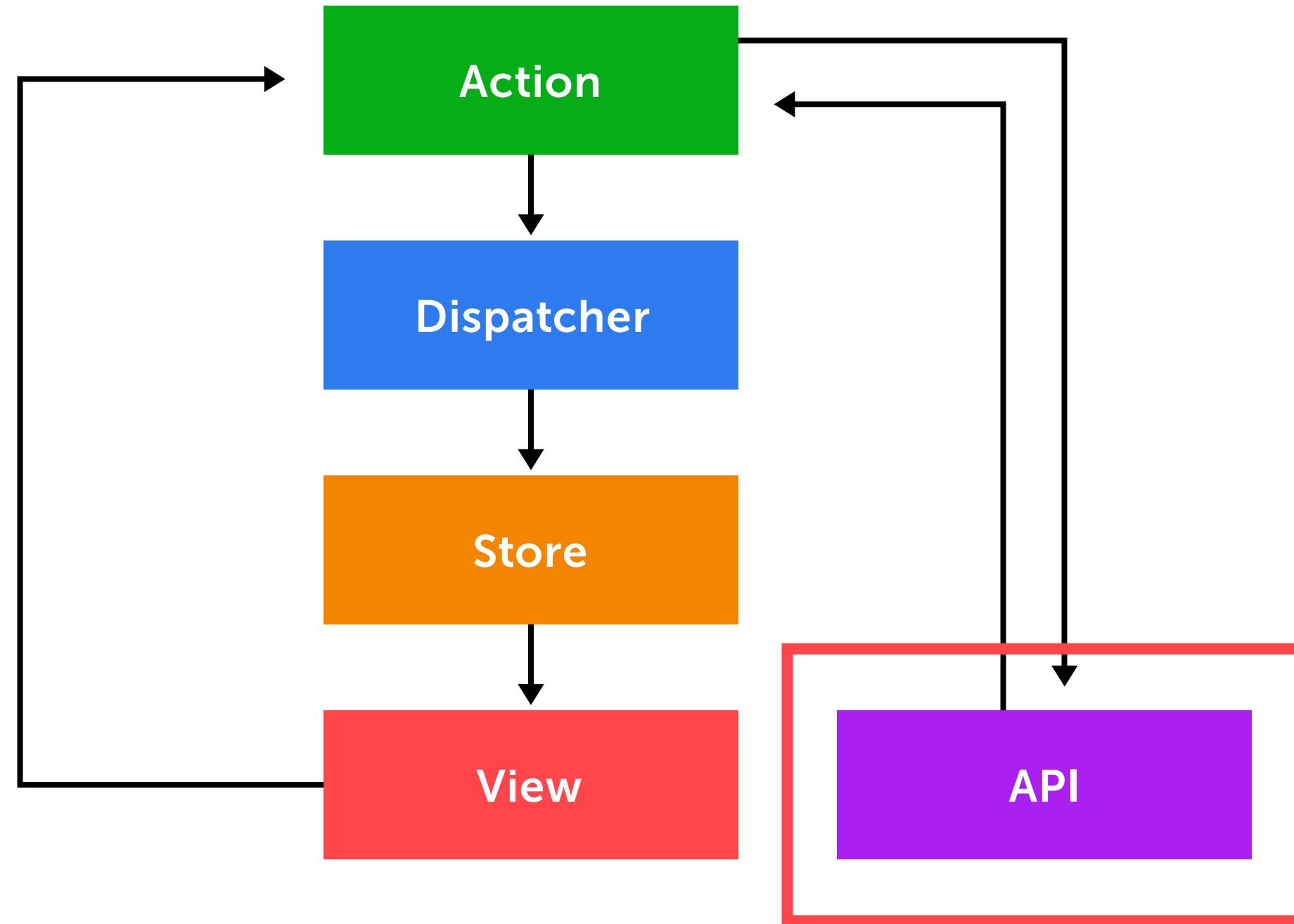
Architecture

Application Architecture



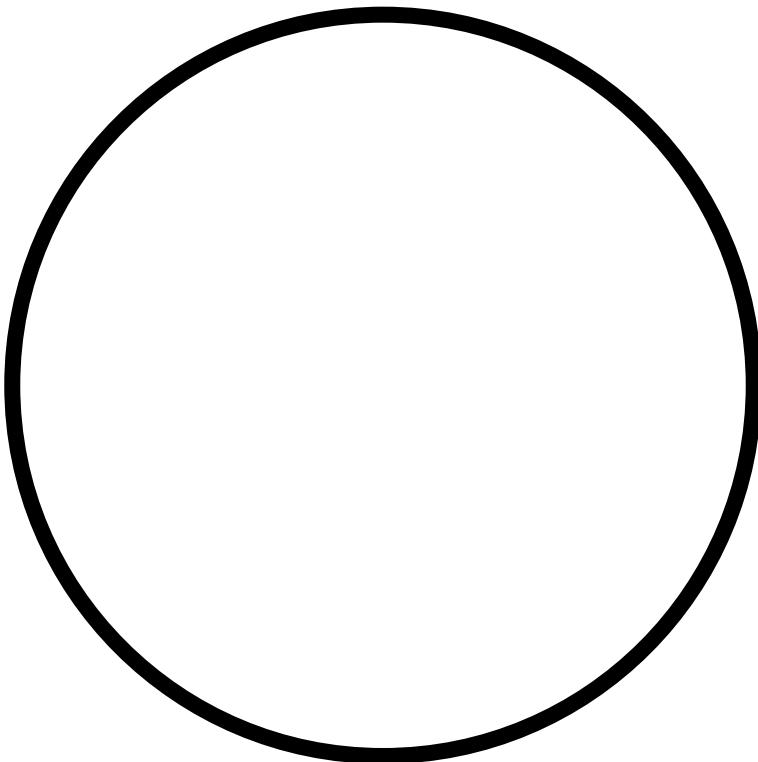
Application Architecture

Большинство случаев

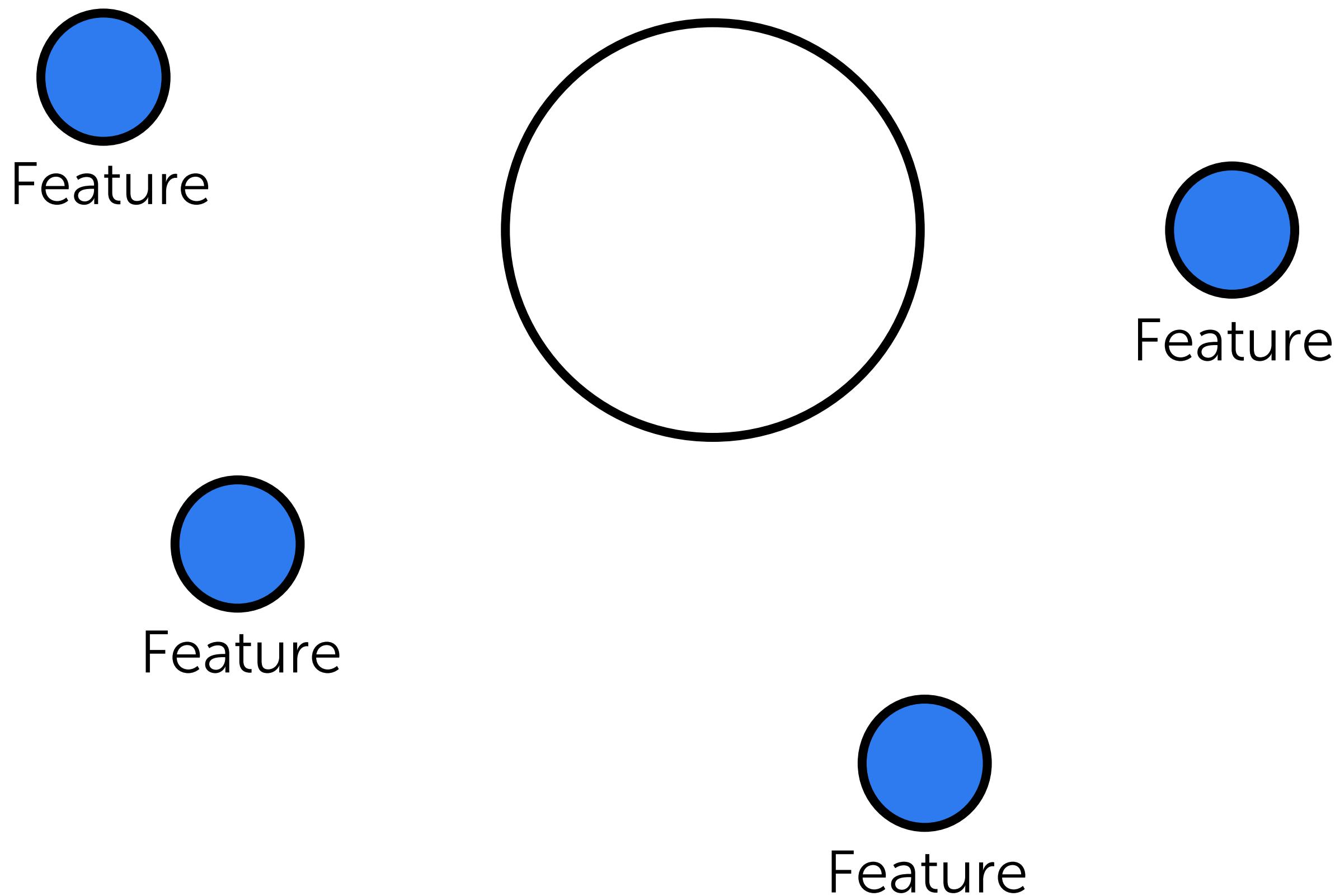


Feature Architecture

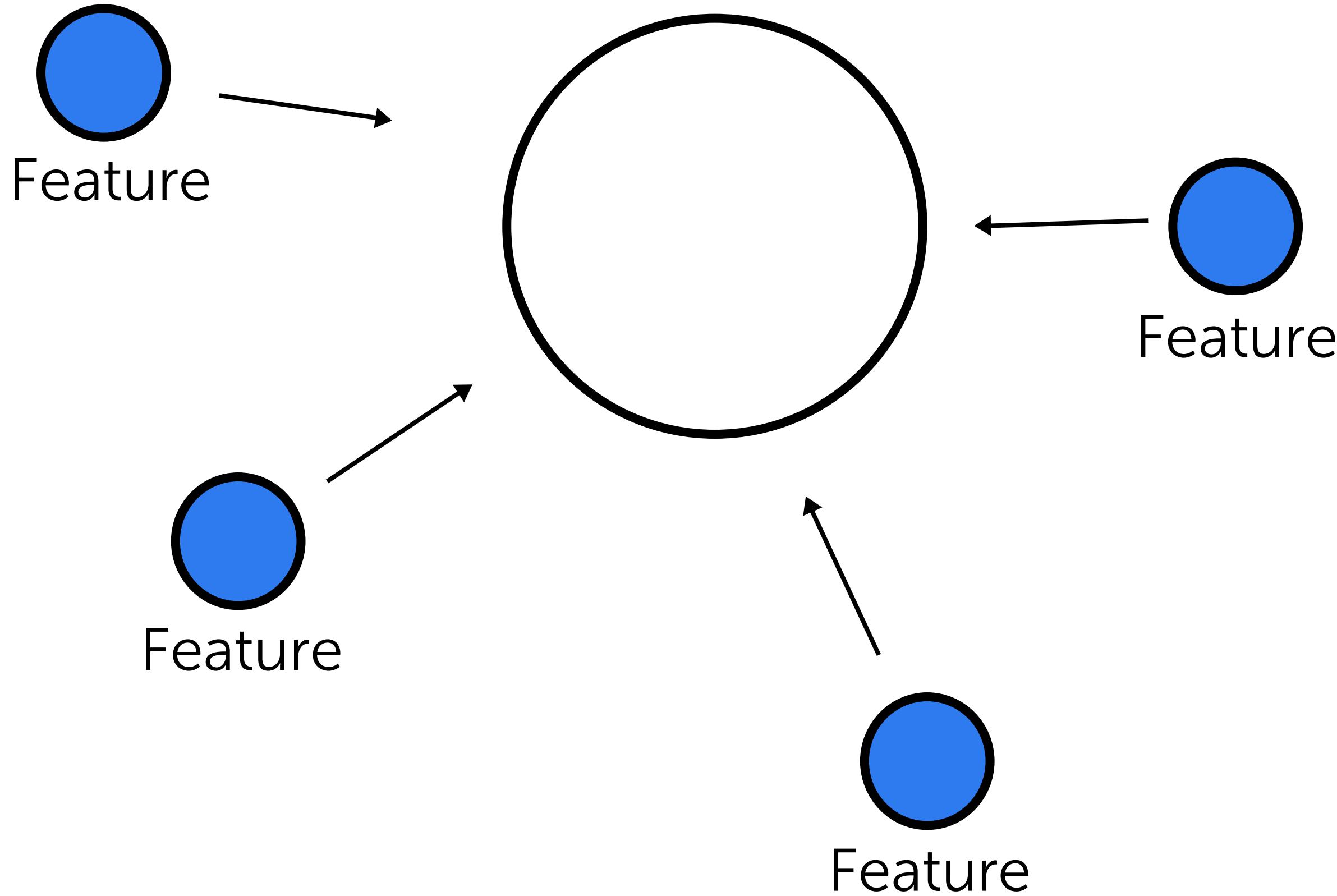
Feature Architecture



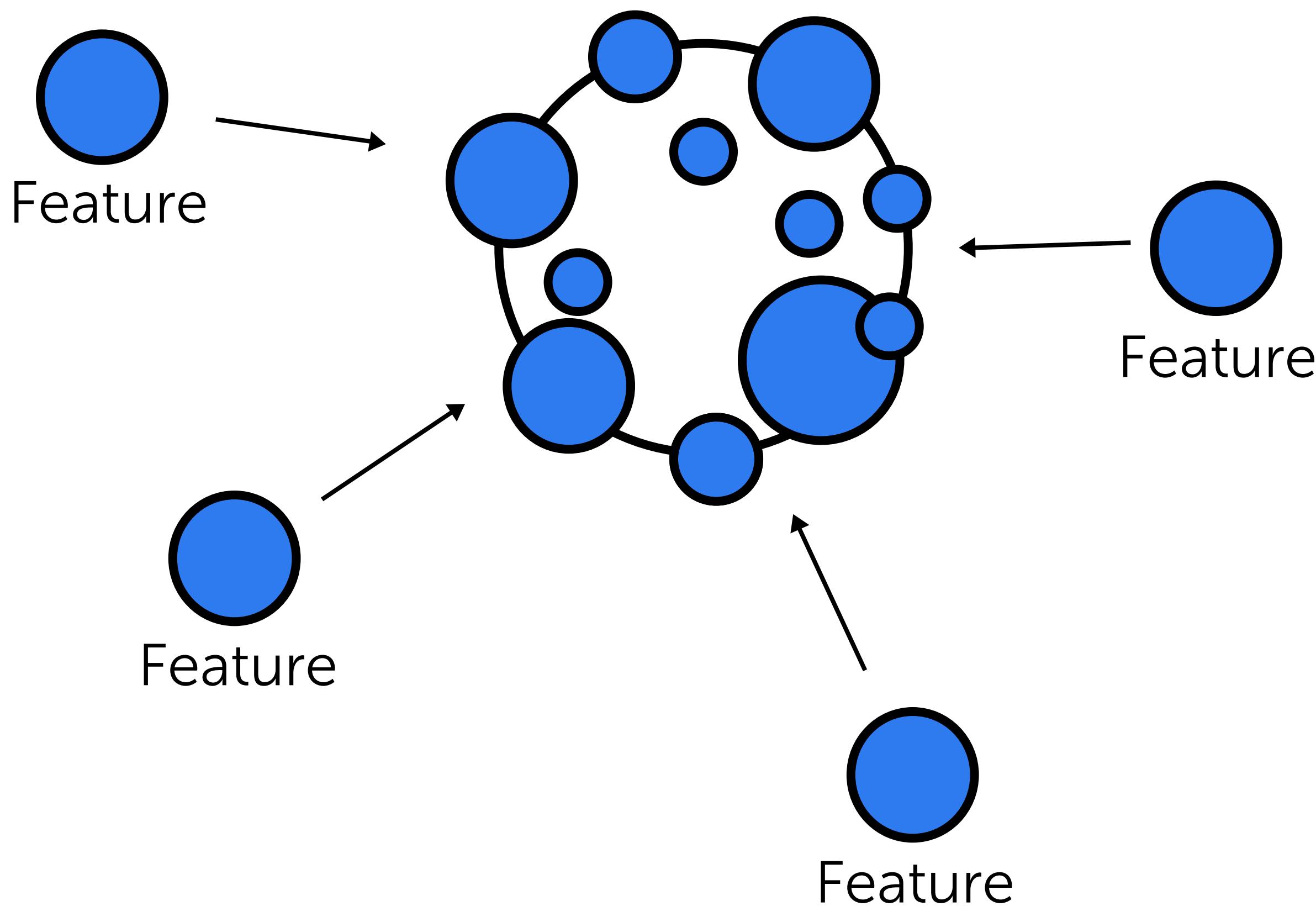
Feature Architecture



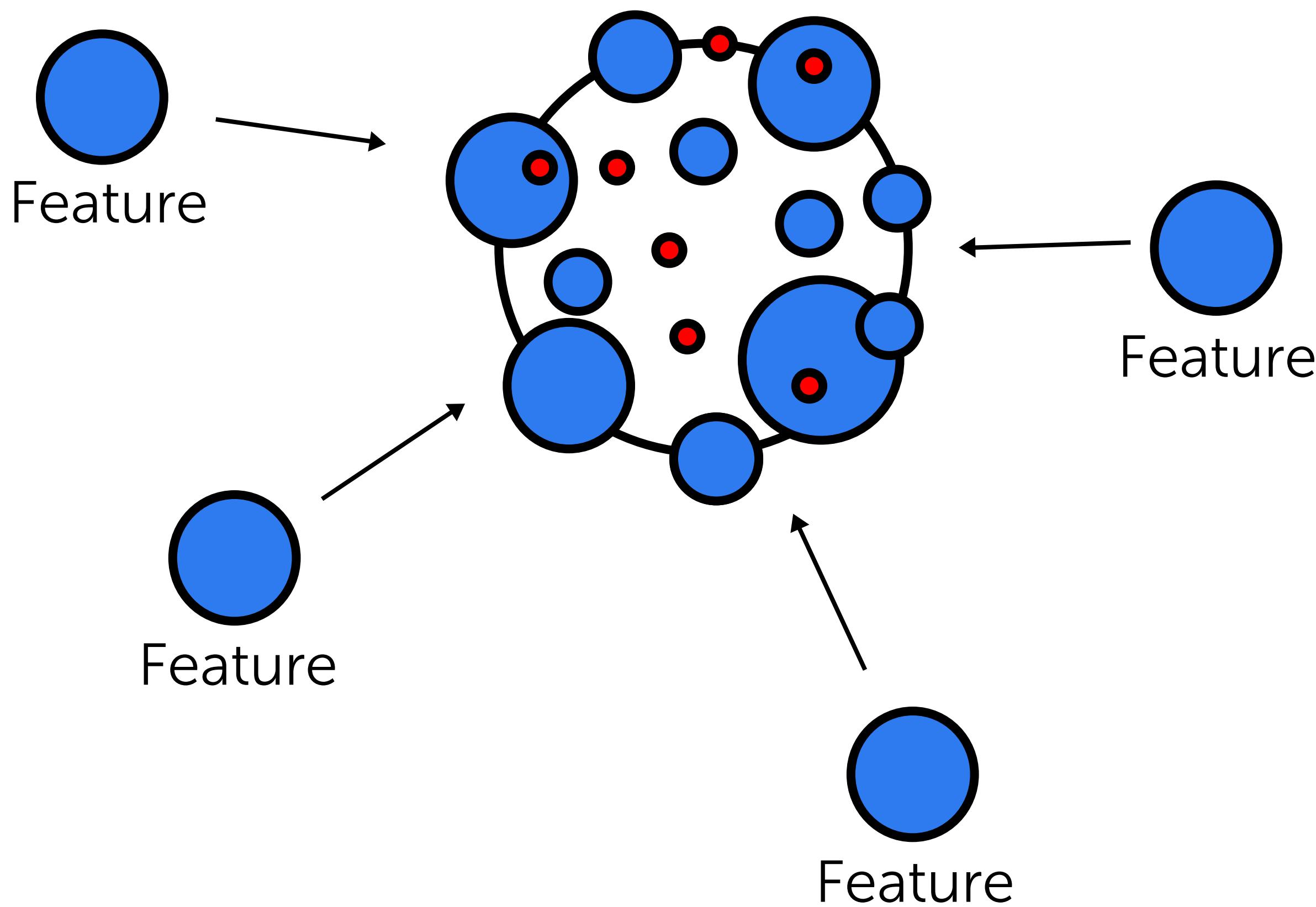
Feature Architecture



Feature Architecture



Feature Architecture



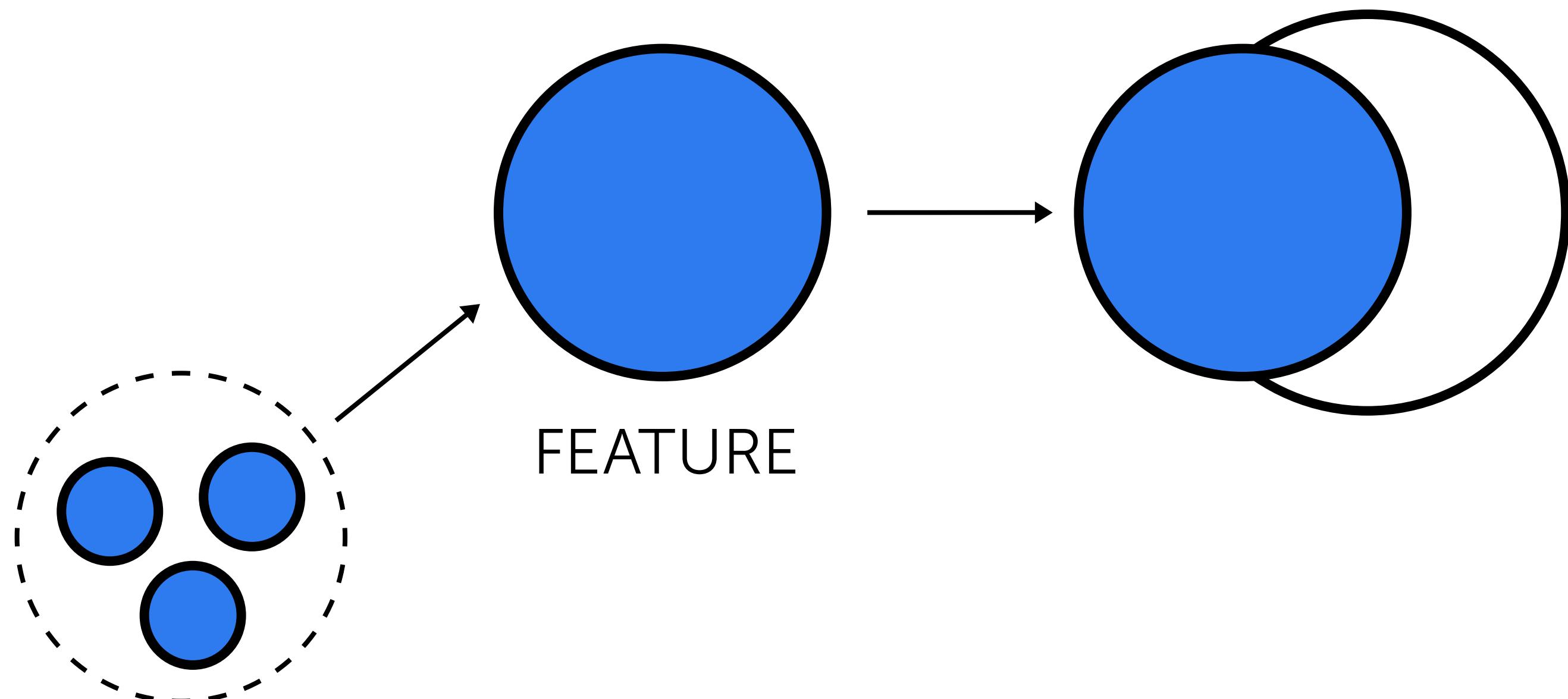
Feature Architecture

- Чинят то, что не поломано

Feature Architecture

- Чинят то, что не поломано
- Оптимизируют то, что не нужно

Feature Architecture



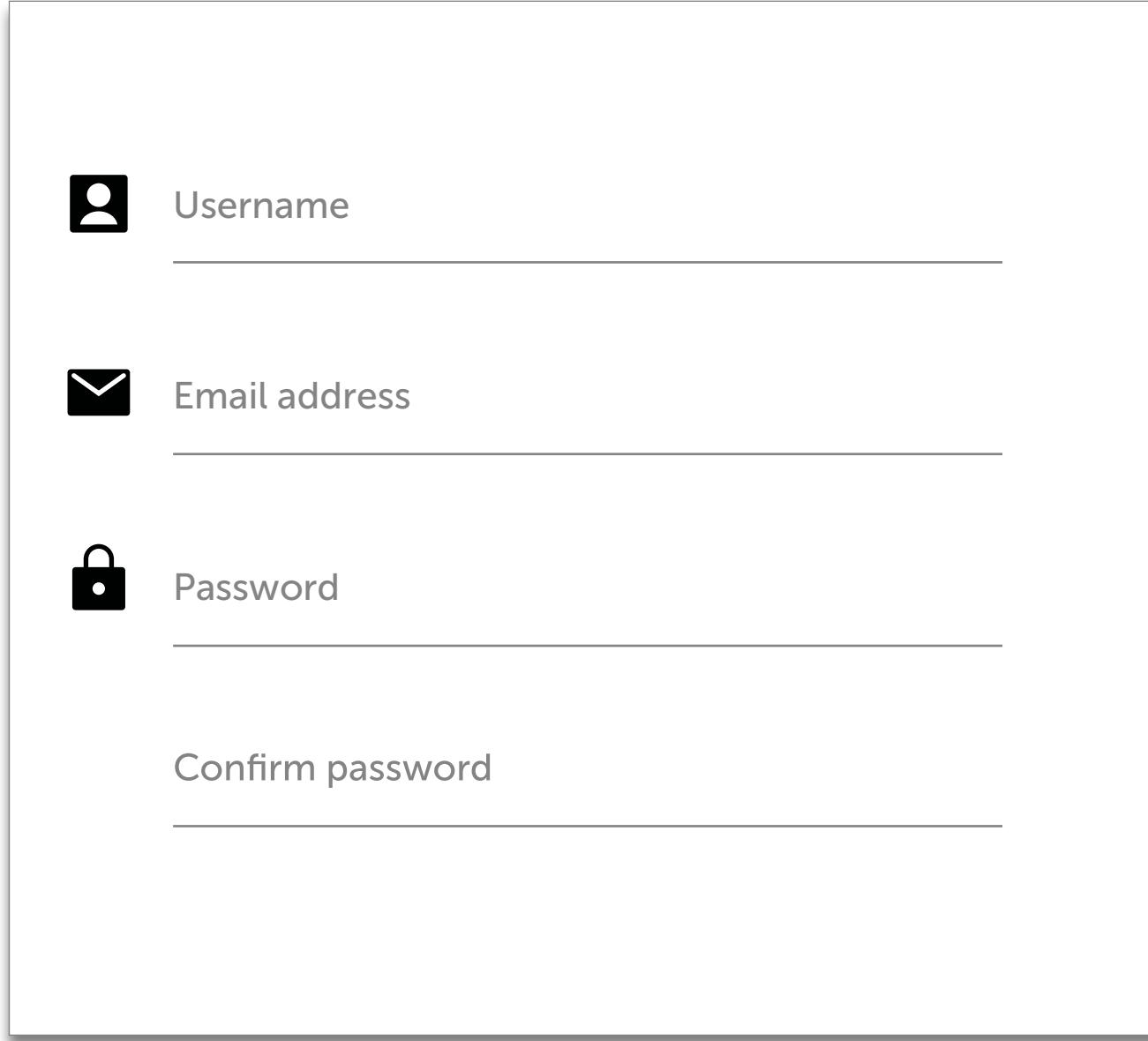
Multiple forms

Multiple forms

The image shows a user interface with four input fields. Each field has a label to its left and a horizontal line below it for input. The labels are: "Username", "Email address", "Password", and "Confirm password".

```
const formConfig = [  
  'username',  
  'email',  
  'password',  
  'confirm'  
];  
  
render() {  
  return <FormGod config=${formConfig}>;  
}
```

Multiple forms



The form consists of four input fields:

- Username: An input field with a person icon and the placeholder "Username".
- Email address: An input field with an envelope icon and the placeholder "Email address".
- Password: An input field with a lock icon and the placeholder "Password".
- Confirm password: An input field with no icon and the placeholder "Confirm password".

```
const formConfig = [{  
  id: 'username',  
  icon: 'user'  
}, {  
  id: 'email',  
  icon: 'email'  
}, {  
  id: 'password',  
  icon: 'password'  
}, {  
  id: 'confirm'  
}];
```

Multiple forms

A screenshot of a user registration form. It includes fields for Username (with a person icon), Email address (with an envelope icon), Password (with a lock icon), and Confirm password (labeled next to the password field).

```
const formConfig = [{  
  id: 'username',  
  icon: 'user'  
}, {  
  id: 'email',  
  icon: 'email'  
},  
[  
  {  
    id: 'password',  
    icon: 'password'  
}, {  
    id: 'confirm'  
}]  
];
```

Multiple forms

The form consists of several input fields and a checkbox. On the left, there are icons: a person for Username, an envelope for Email address, and a lock for Password. To the right of the Password field is a placeholder for Confirm password. At the bottom, there is a checkbox followed by the text "I agree with the Terms and Conditions".

```
const formConfig = [ {  
  ...  
  {  
    id: 'agree',  
    type: 'checkbox'  
  }];
```

Multiple forms

Registration form

 Username

 Email Address

 Password Confirm password

Personal details

First name
Last name

Gender

I want to receive news and special offers
 I agree with the Terms and Conditions

SUBMIT

```
const formConfig = [{  
  ...  
  {  
    id: 'new-field',  
    render: value => {  
      return (  
        <div>  
          <MultiSelect .../>  
        </div>  
      );  
    }  
  }];
```

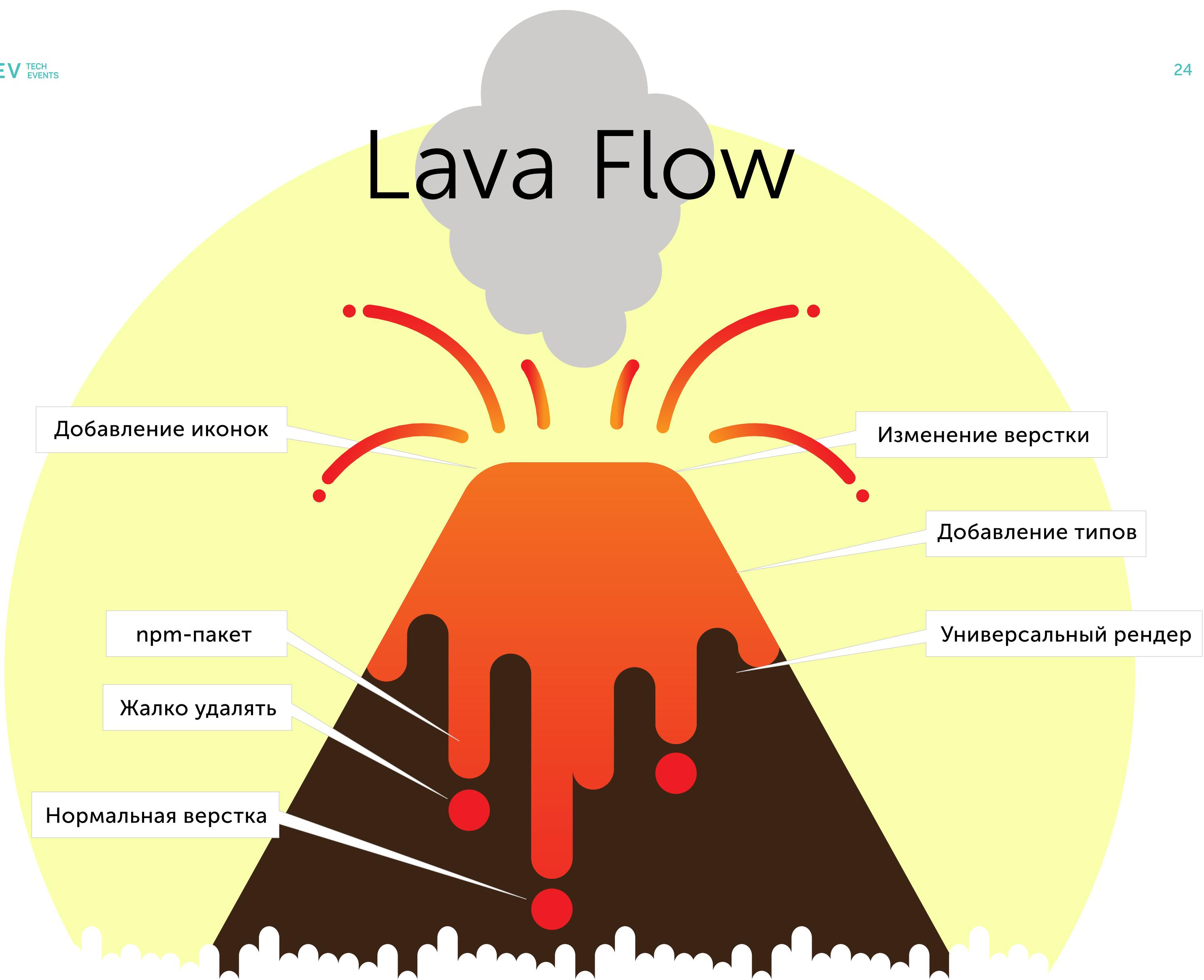
Multiple forms

new npm package: form renderer

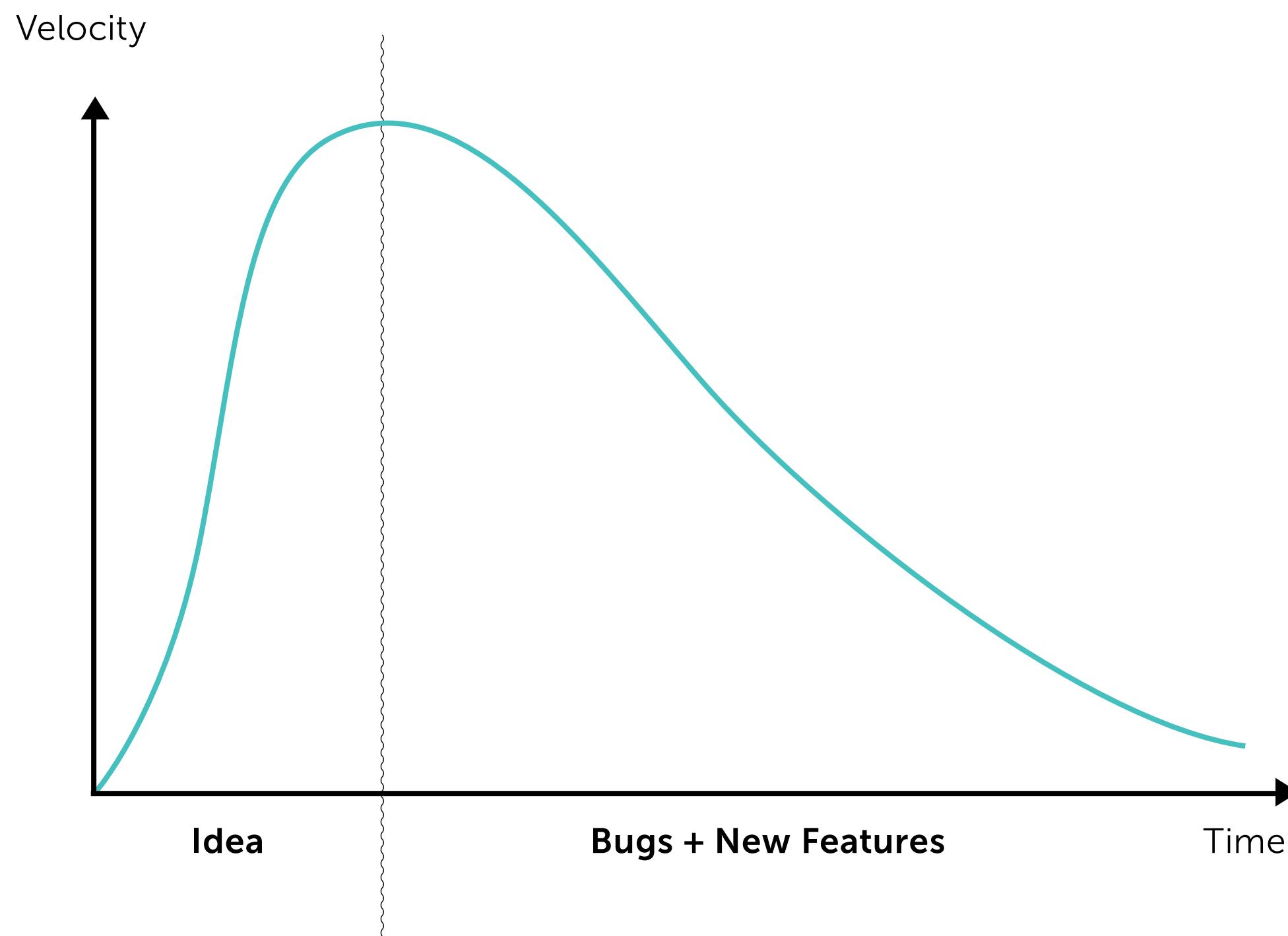


Multiple forms

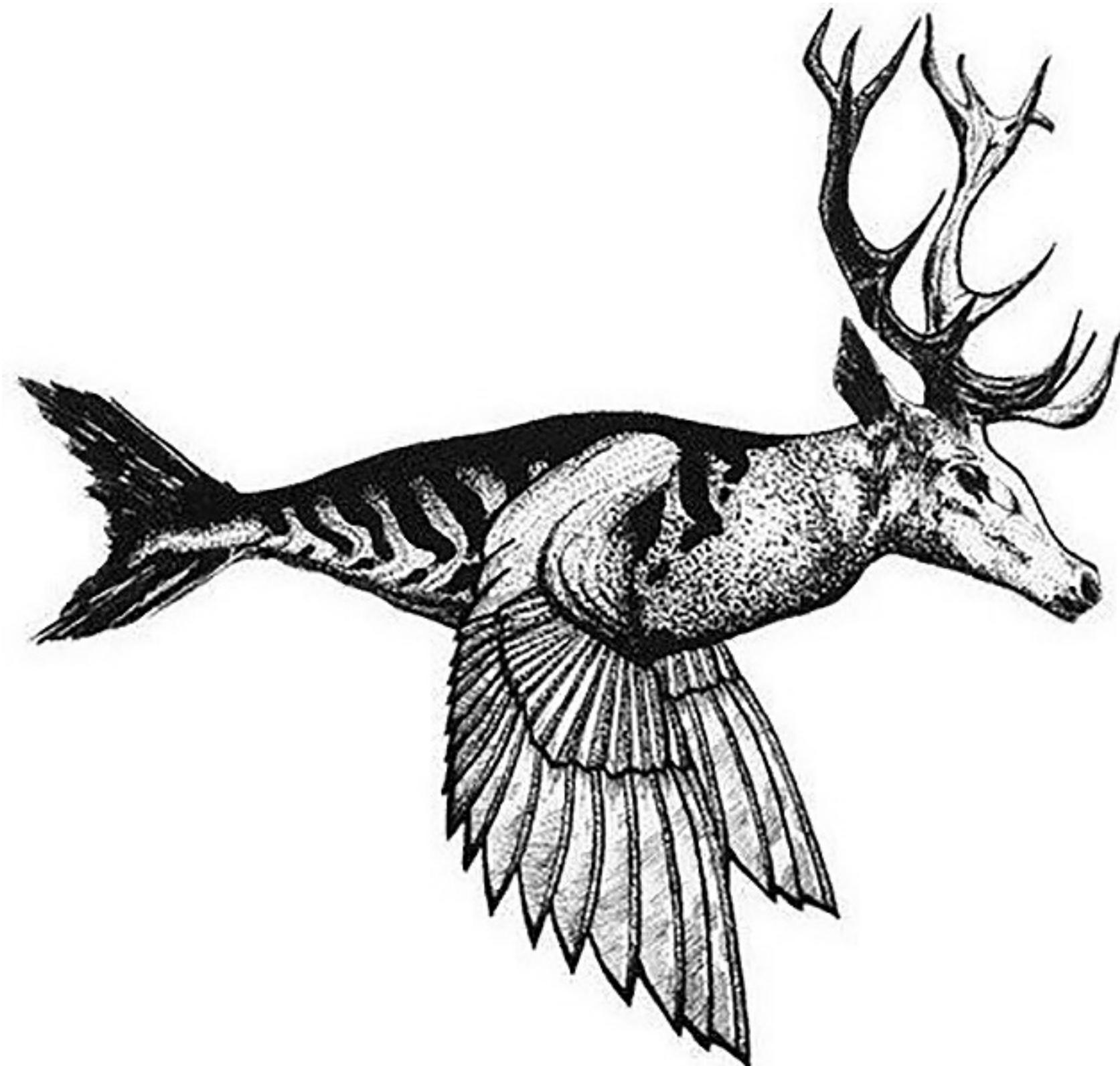
```
render() {
  return (
    <div>
      <Row>
        <Cell><Input value=${username} /></Cell>
      </Row>
      <Row>
        <Cell><Input value=${email} /></Cell>
      </Row>
      <Row>
        <Cell><Input value=${password} /></Cell>
        <Cell><Input value=${confirm} /></Cell>
      </Row>
      ...
    </div>
  );
}
```



Development Speed



Result



Multiple forms

- Задача верстальщика

Multiple forms

- Задача верстальщика
- Программист занимался бы:
 - тесты

Multiple forms

- Задача верстальщика
- Программист занимался бы:
 - тесты
 - рефакторинг

Multiple forms

- Задача верстальщика
- Программист занимался бы:
 - тесты
 - рефакторинг
 - технический долг

UX-time

UX

- UX как конечный результат
- UX как процесс

UX

как конечный результат

"User experience is the overall effect created by the interactions and perceptions that someone has when using a product or service"

Leah Buley "The User Experience Team of One"

UX

как процесс

План

Методология

Методология

- Узнай что-нибудь о реальном мире

Методология

- Узнай что-нибудь о реальном мире
- Придумай решение

Методология

- Узнай что-нибудь о реальном мире
- Придумай решение
- Проверь в реальности

Методология

- Узнай что-нибудь о реальном мире
- Придумай решение
- Проверь в реальности
- Повтори

Погружение

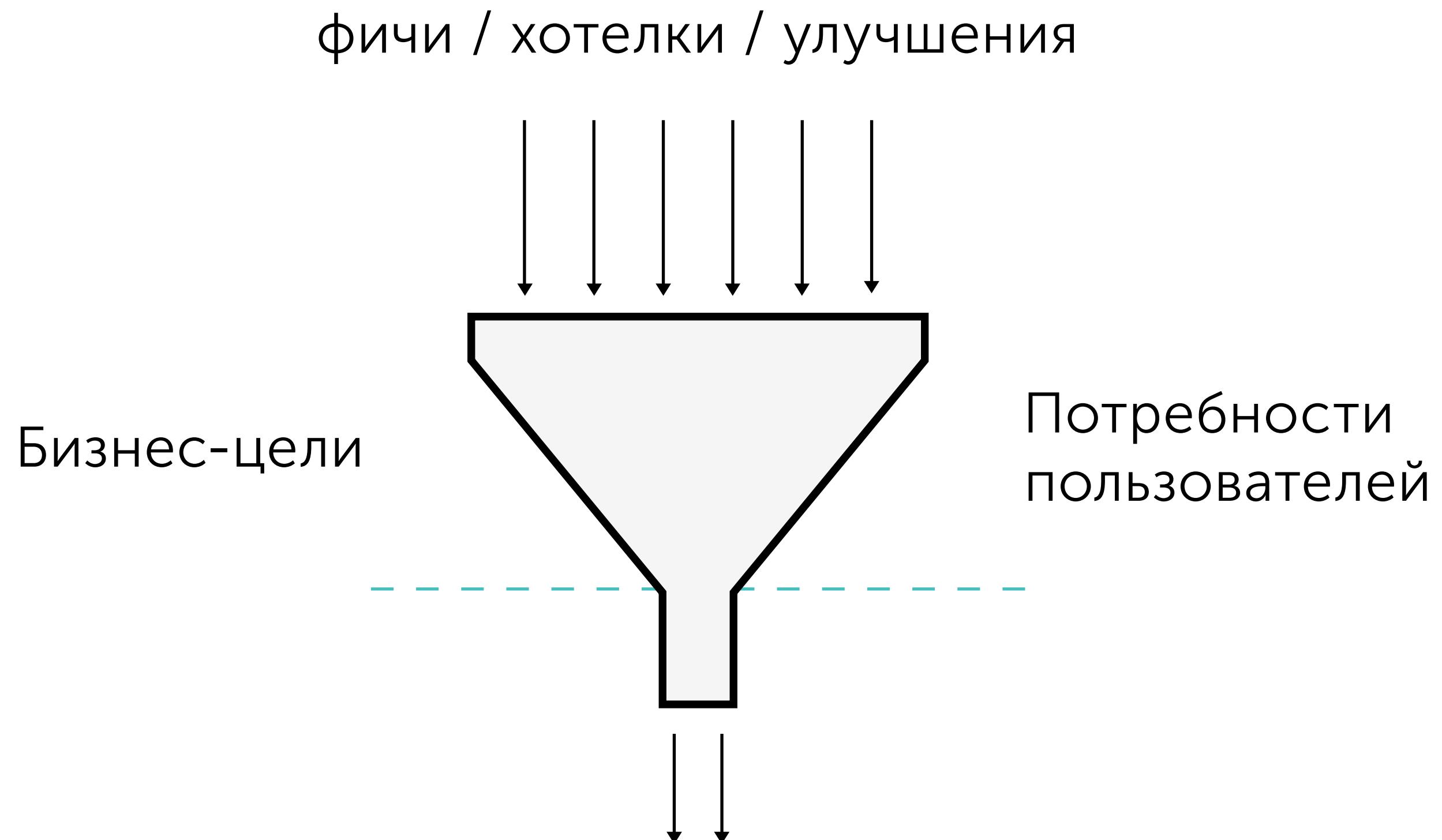
- Узнаем что-то о пользователях, бизнесе, технических ограничениях

Погружение

- Узнаем что-то о пользователях, бизнесе, технических ограничениях
- Записываем, рассказываем команде

Погружение

- Узнаем что-то о пользователях, бизнесе, технических ограничениях
- Записываем, рассказываем команде
- Проектируем концепцию



Ищем решение

- Проектируем концепцию

Ищем решение

- Проектируем концепцию
- Рисуем картиночки

Ищем решение

- Проектируем концепцию
- Рисуем картиночки
- Делаем прототип

Сталкиваем с реальностью

- Показываем заказчику
- Обсуждаем с коллегами
- Тестируем с пользователями
- Делаем первую версию и запускаем

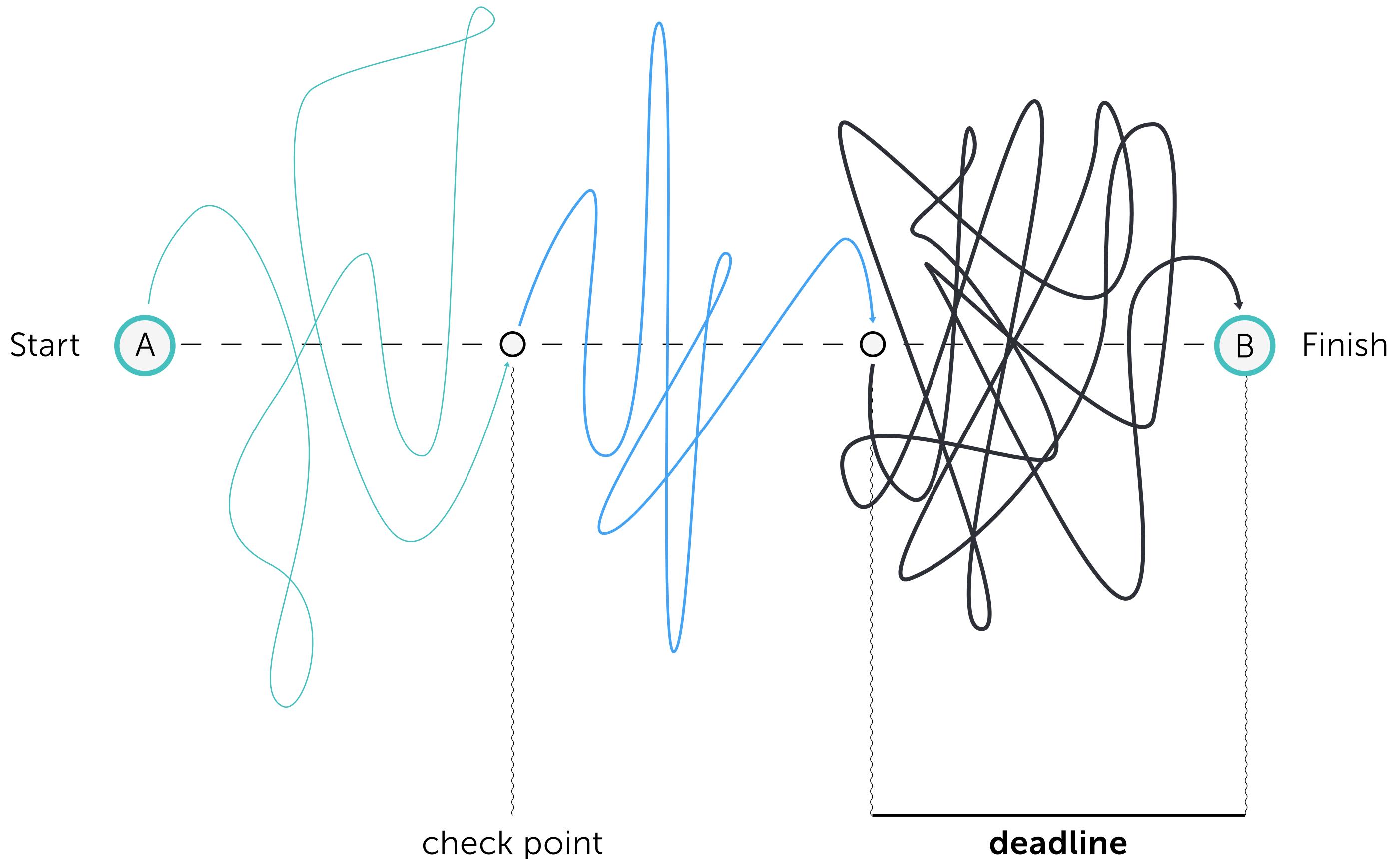
И все по новой

Part 2

Problems and examples

Blind Development

Blind Development



Blind Development

Search	Status	
ID	Name	Status
1	John Smith	Employed
2	Randal White	Unemployed
3	Stephanie Sanders	Employed
4	Steve Brown	Employed

Blind Development

an Status

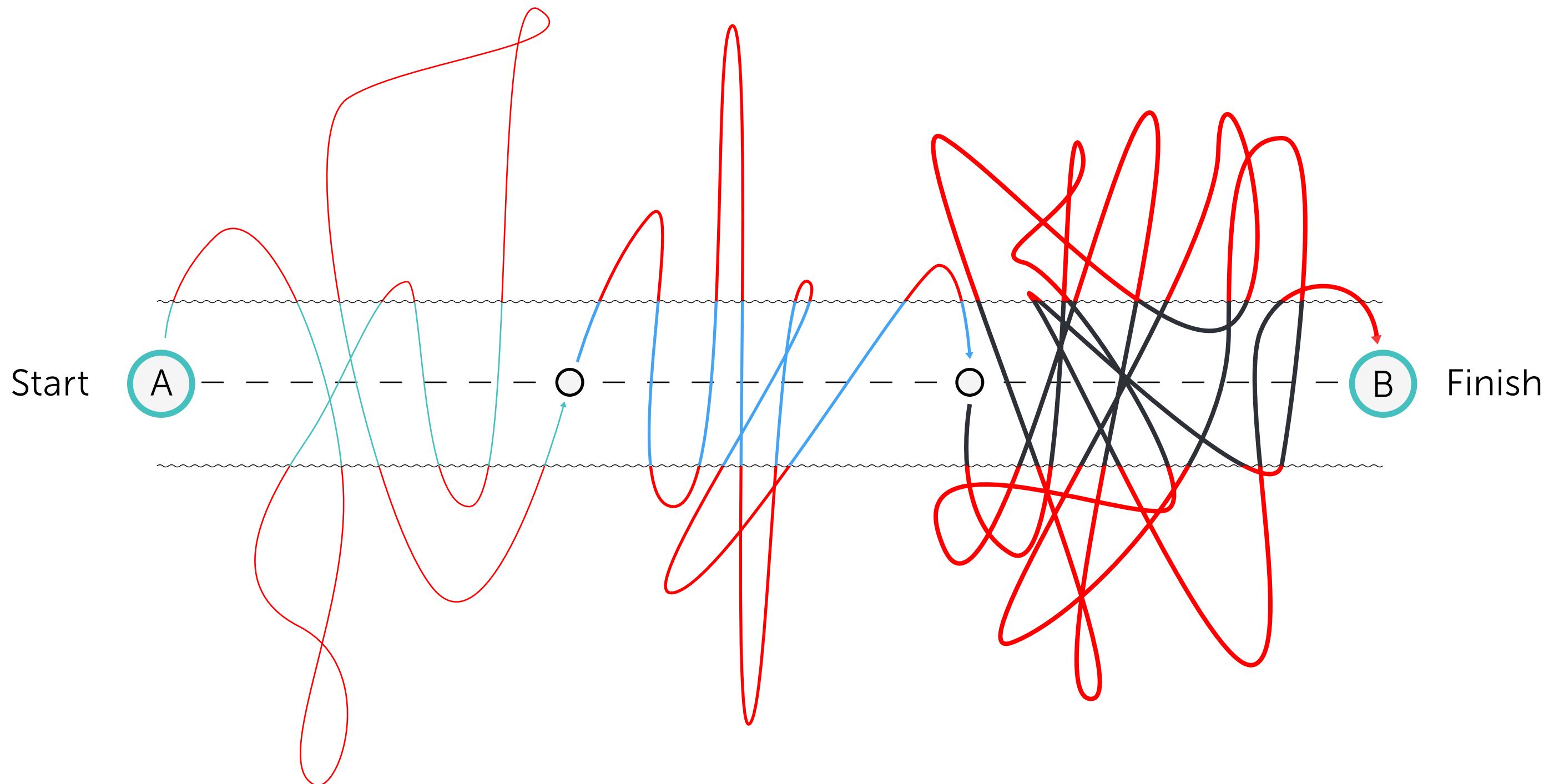
<input type="checkbox"/> ID	Name	Status
<input type="checkbox"/> 2	Randal White	Unemployed
<input type="checkbox"/> 3	Stephanie Sanders	Employed

Blind Development

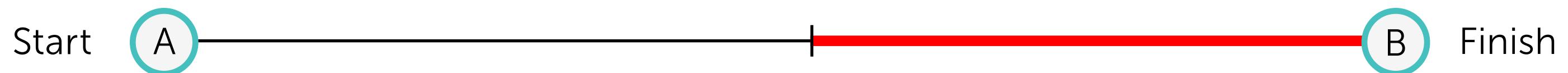
an Status

<input type="checkbox"/> ID	Name	Status
<input type="checkbox"/> 2	Randal White	Unemployed
<input type="checkbox"/> 3	Stephanie Sanders	Employed

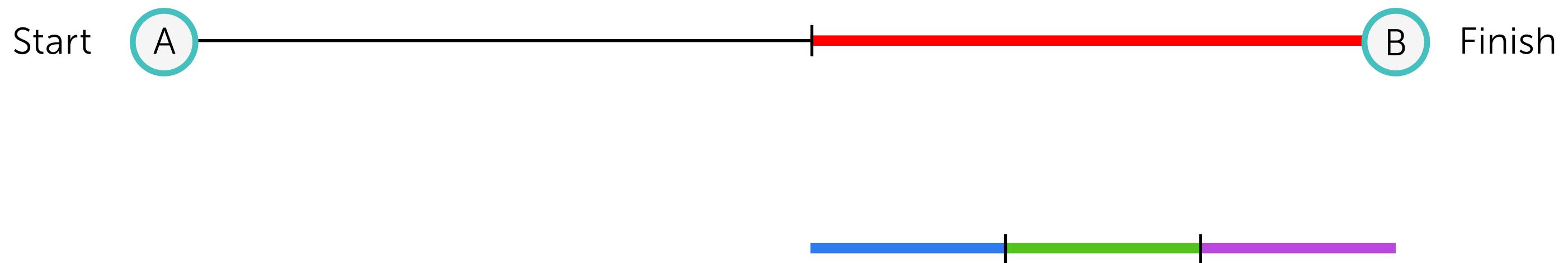
Blind Development



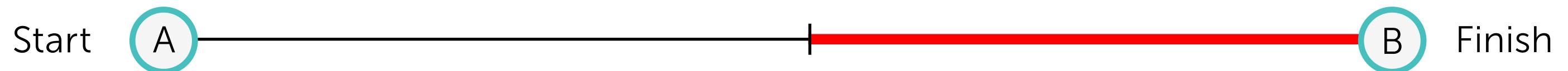
Blind Development



Blind Development

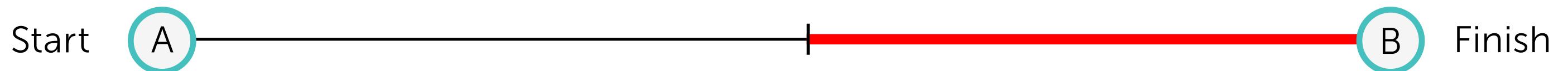


Blind Development



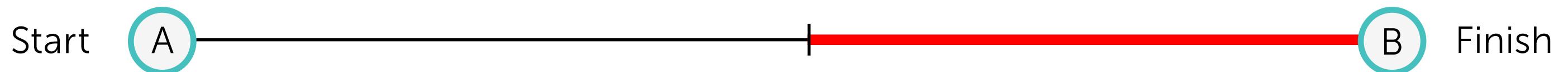
■ refactoring

Blind Development



- refactoring
- tests

Blind Development



- refactoring
- tests
- research

Over-engineering

Over-engineering

The form consists of four input fields:

- Username
- Email address
- Password
- Confirm password

```
const formConfig = [  
  'username',  
  'email',  
  'password',  
  'confirm'  
];  
  
render() {  
  return <FormGod config={formConfig}>;  
}
```

*slide № 17

Over-engineering

New npm package



*slide № 22

Фичеризм

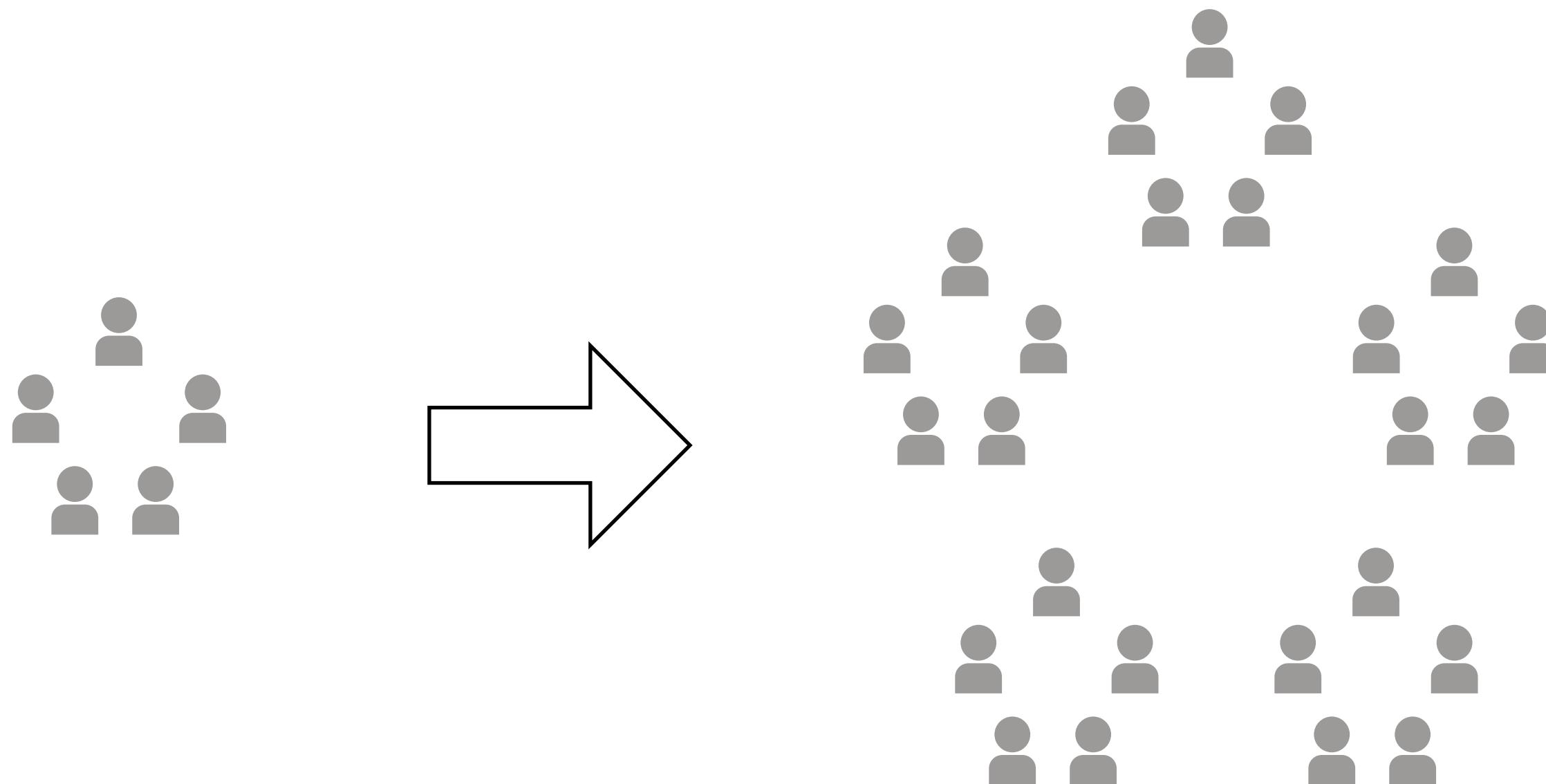
Диагноз

Диагноз

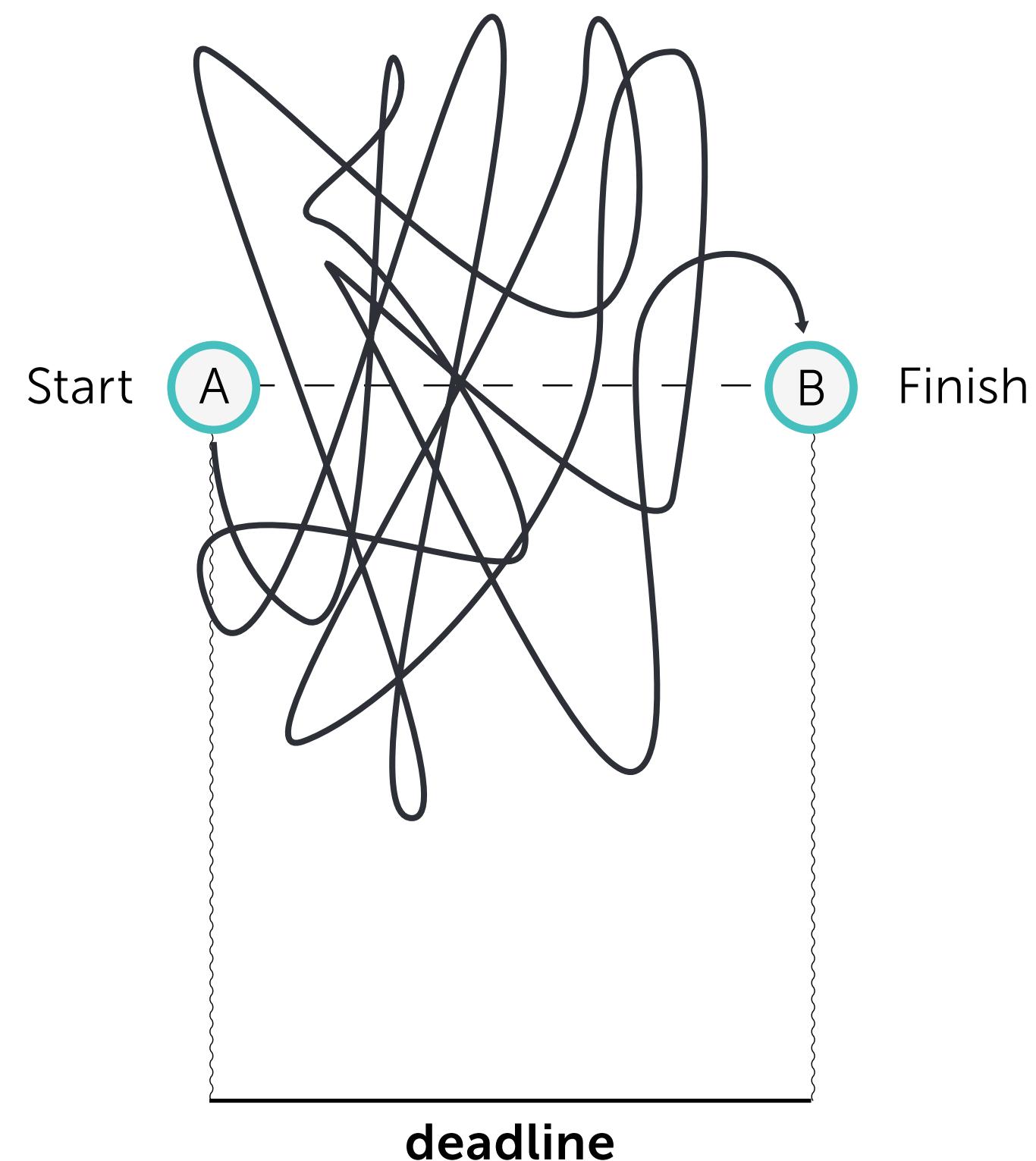
- Бизнес-цели не определены
- Потребности пользователей не определены
- Скоуп не определен

Последствия

Последствия



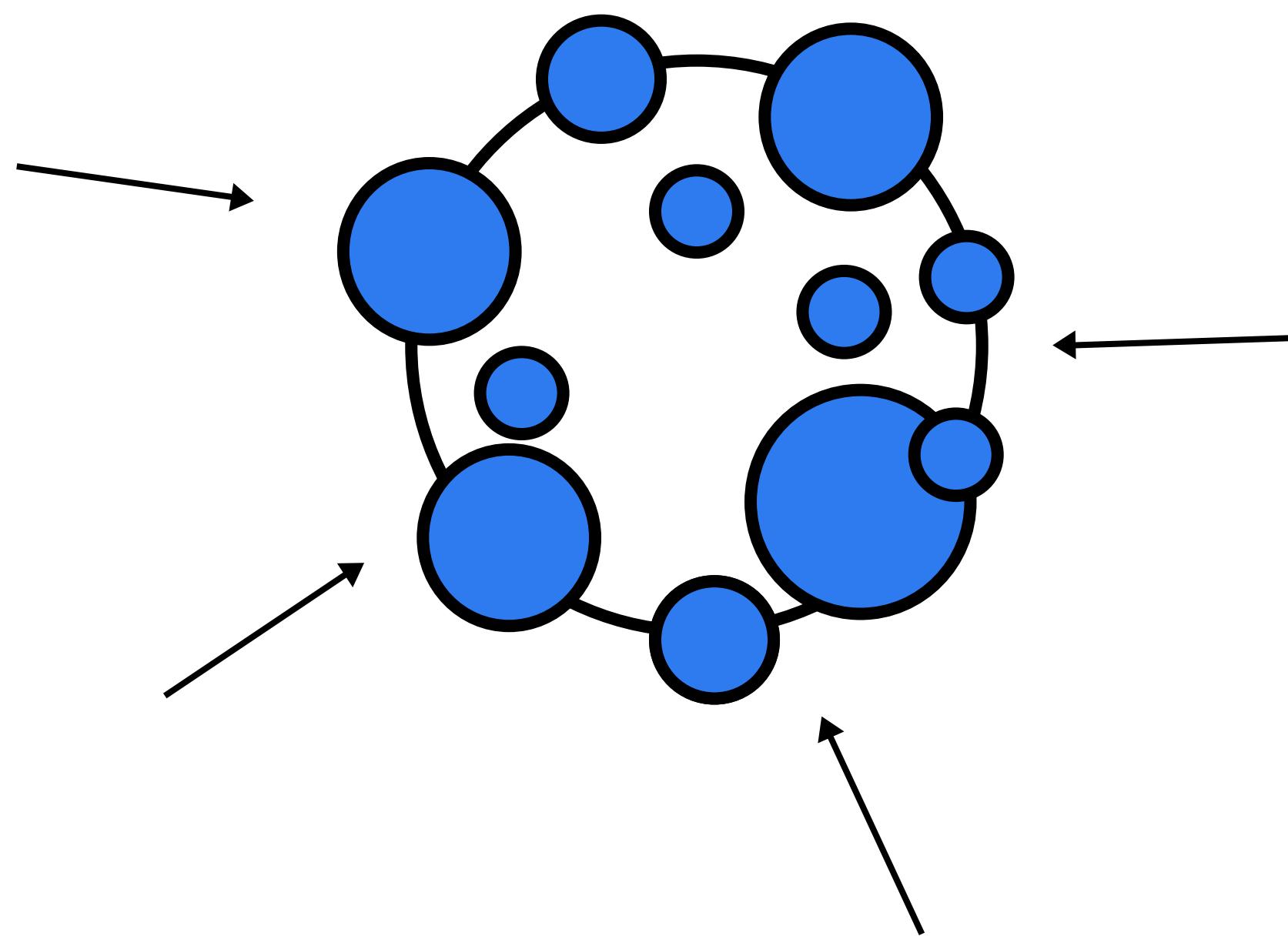
Последствия



Последствия



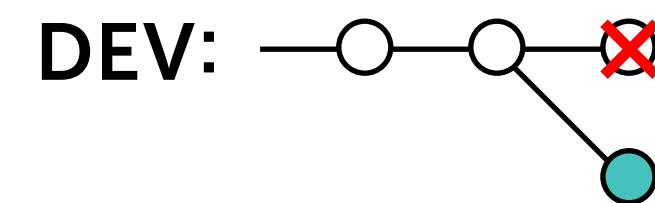
Последствия



Лечение

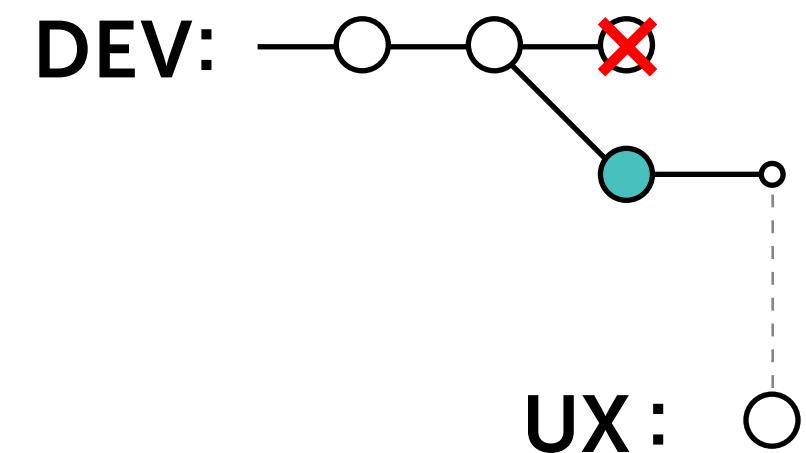
Feature evolution

Feature evolution



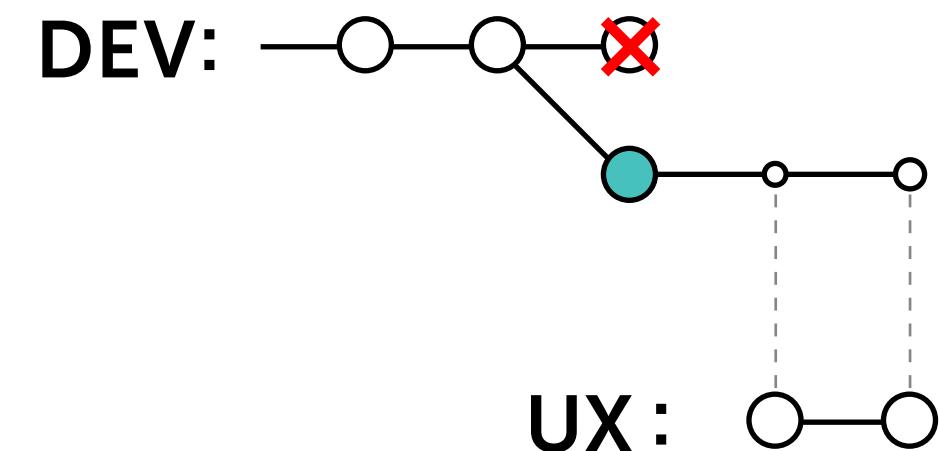
Feature evolution

ID	Name	Status	Actions
1	John Smith	Employed	
2	Randal White	Unemployed	
3	Stephanie Sanders	Employed	
4	Steve Brown	Employed	



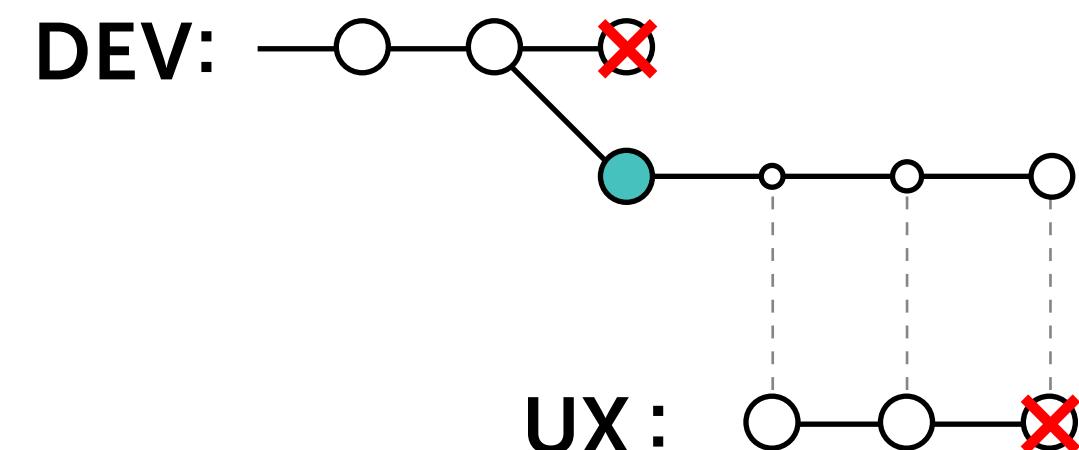
Feature evolution

ID	Name	Status	Actions
1	John Smith	Employed	
2	Randal White	Unemployed	
3	Stephanie Sanders	Employed	
4	Steve Brown	Employed	



Feature evolution

ID	Name	Status
<u>1</u>	John Smith	Employed
<u>2</u>	Randal White	Unemployed
<u>3</u>	Stephanie Sanders	Employed
<u>4</u>	Steve Brown	Employed



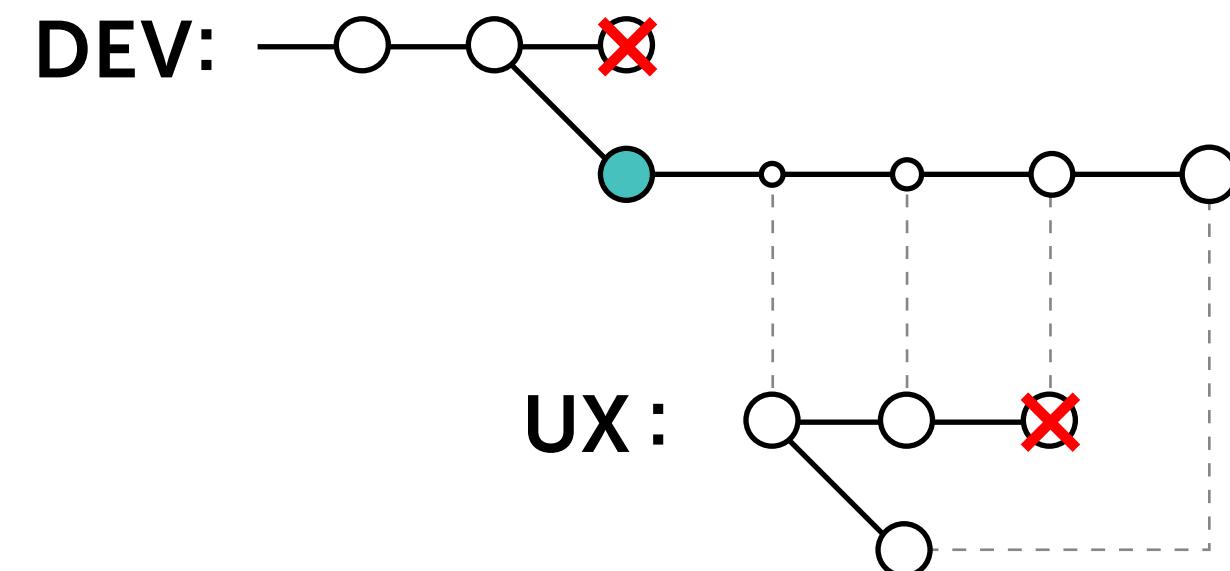
Feature evolution

[John Smith](#)

[Randal White](#)

[Stephanie Sanders](#)

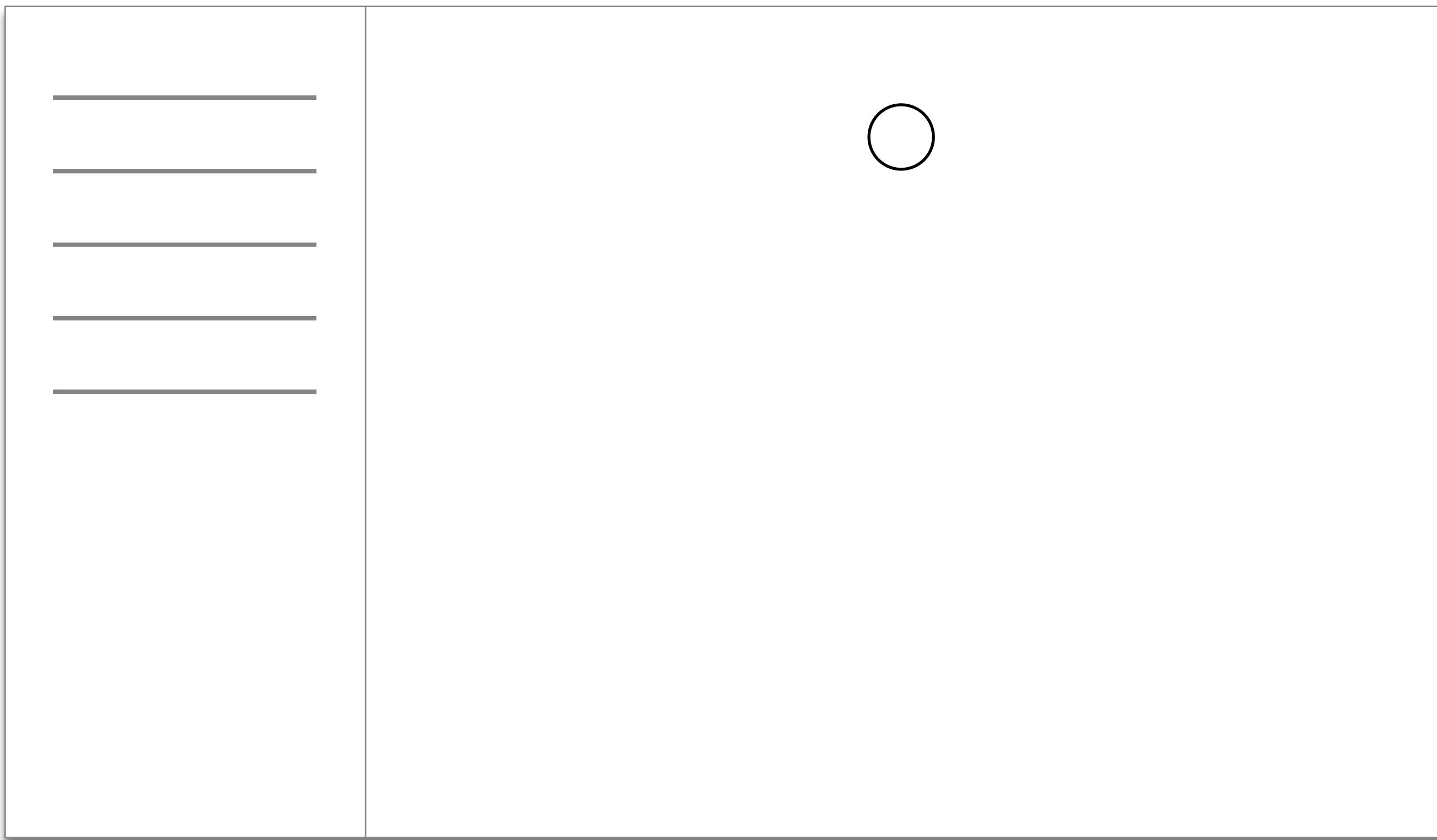
[Steve Brown](#)



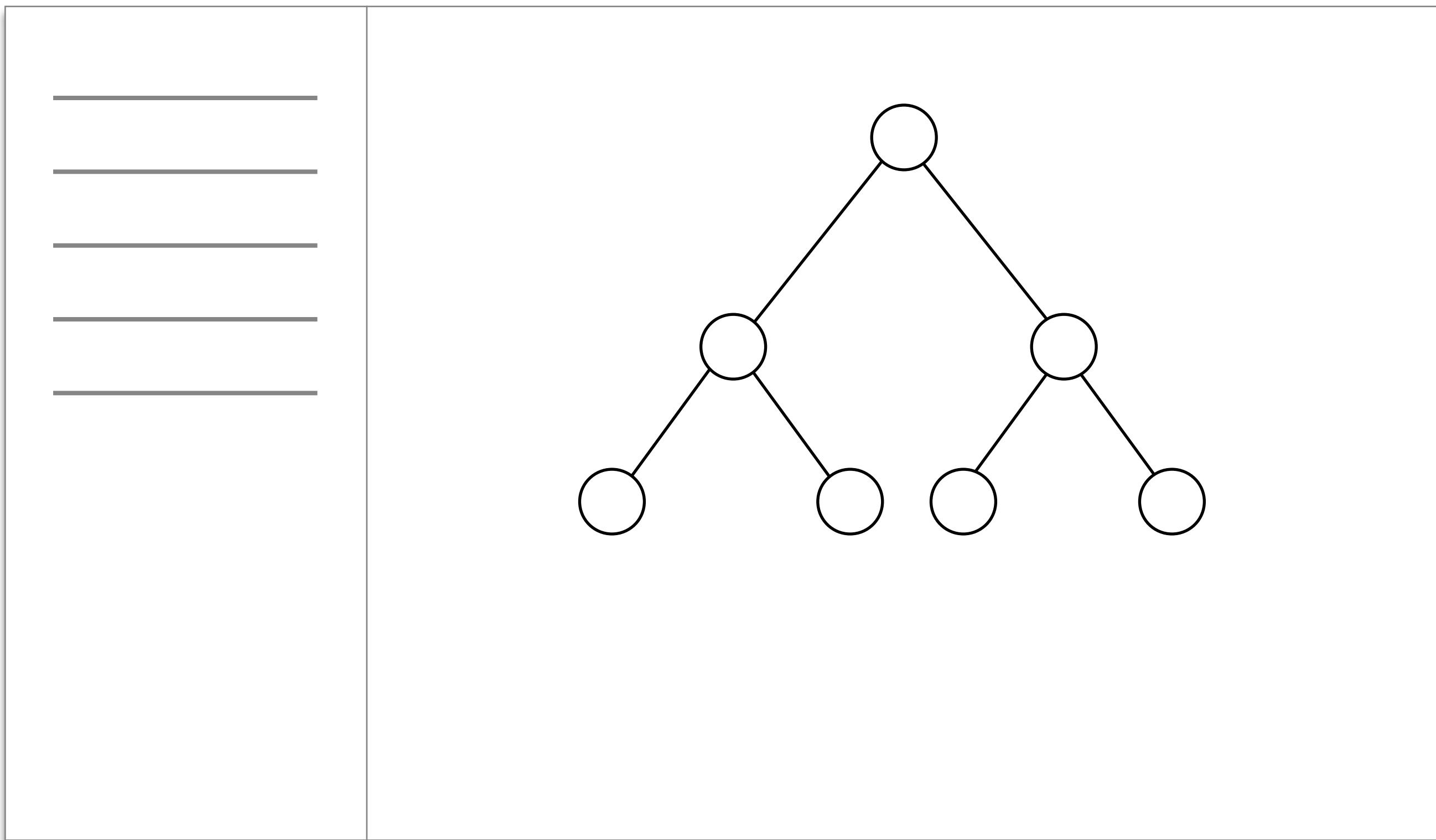
Examples

Sitemap

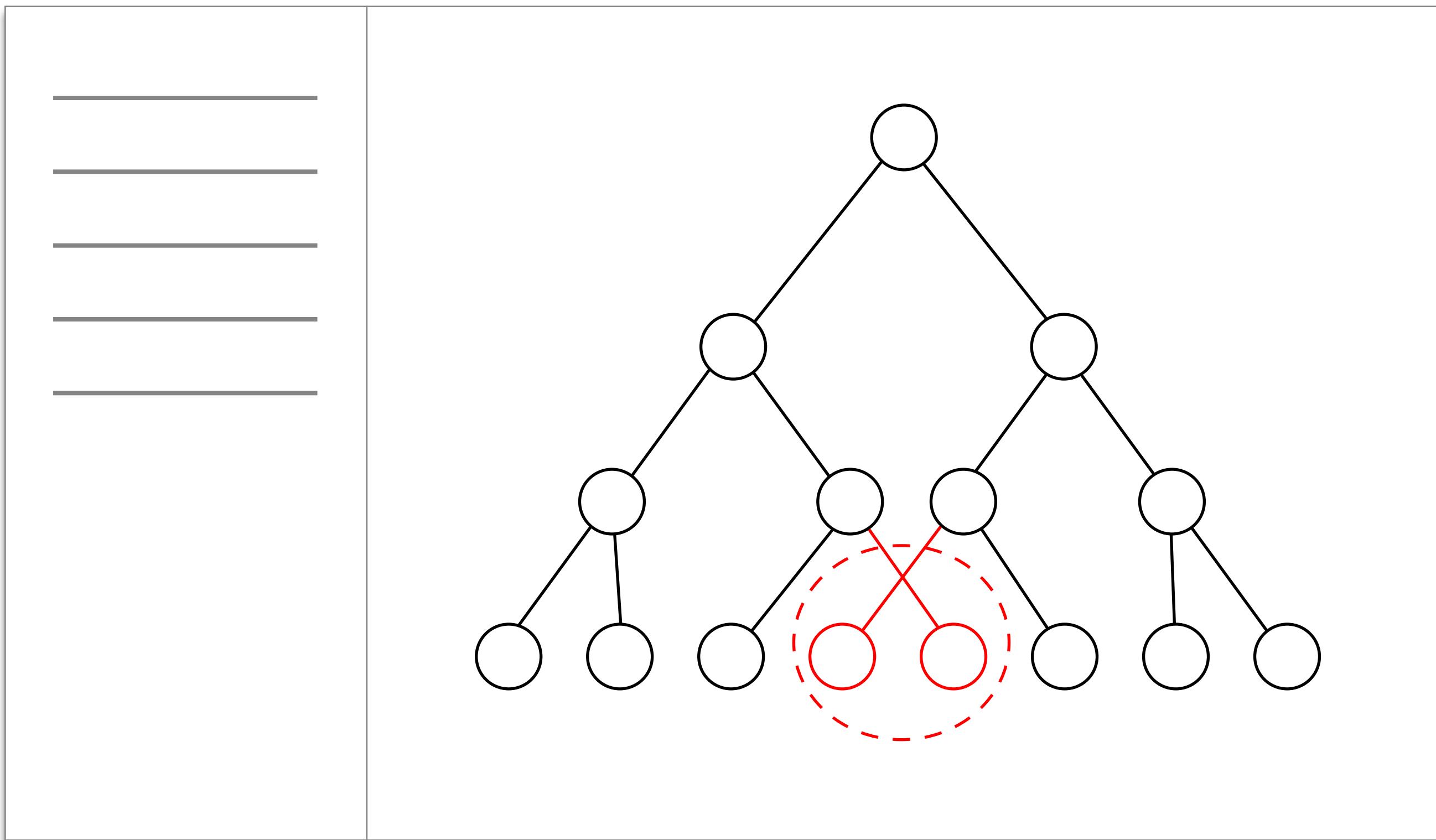
Sitemap



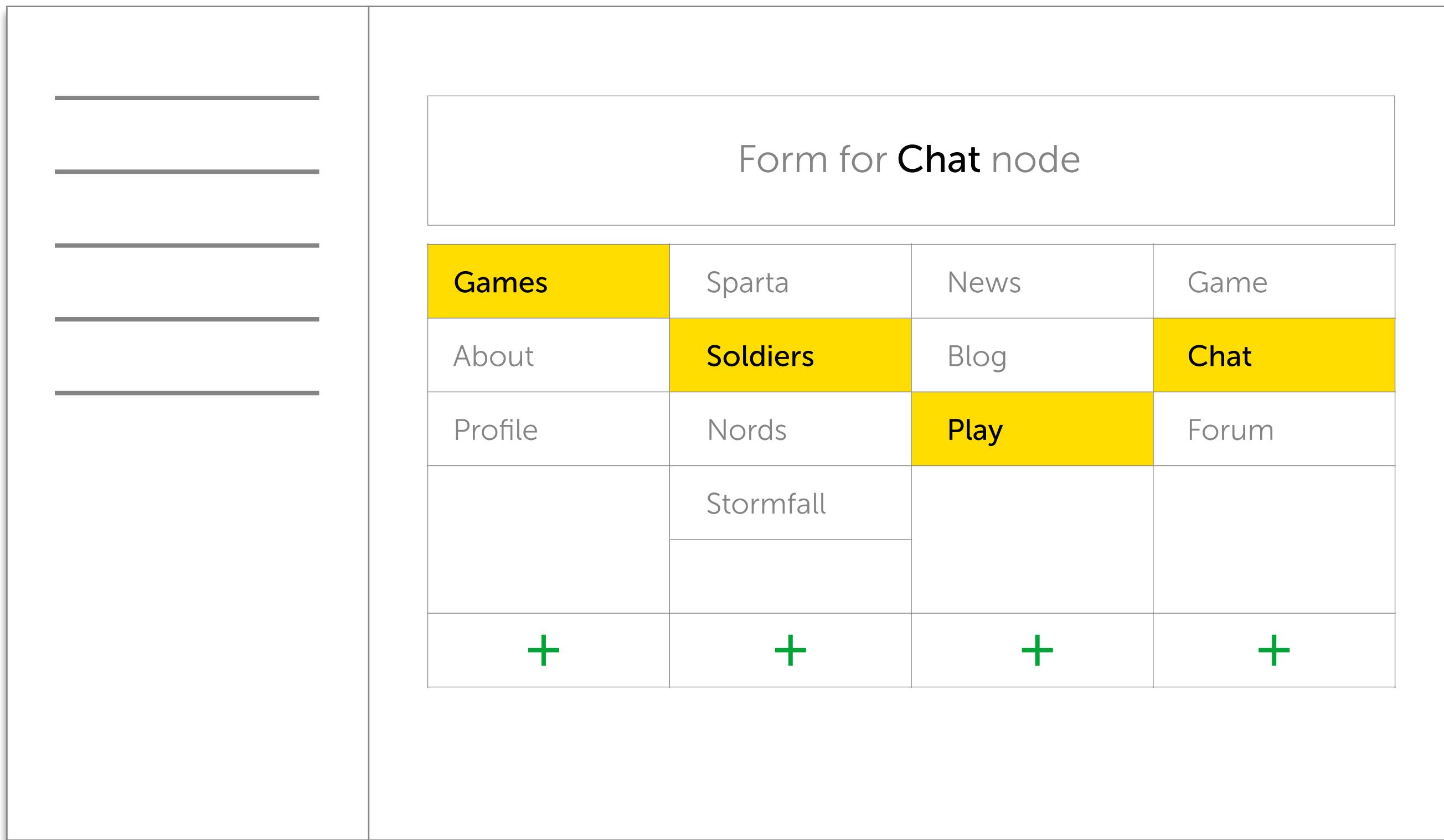
Sitemap



Sitemap



Sitemap



Tag multiselect

Tag multiselect

Labels multiselect

Labels

Select label

Filter

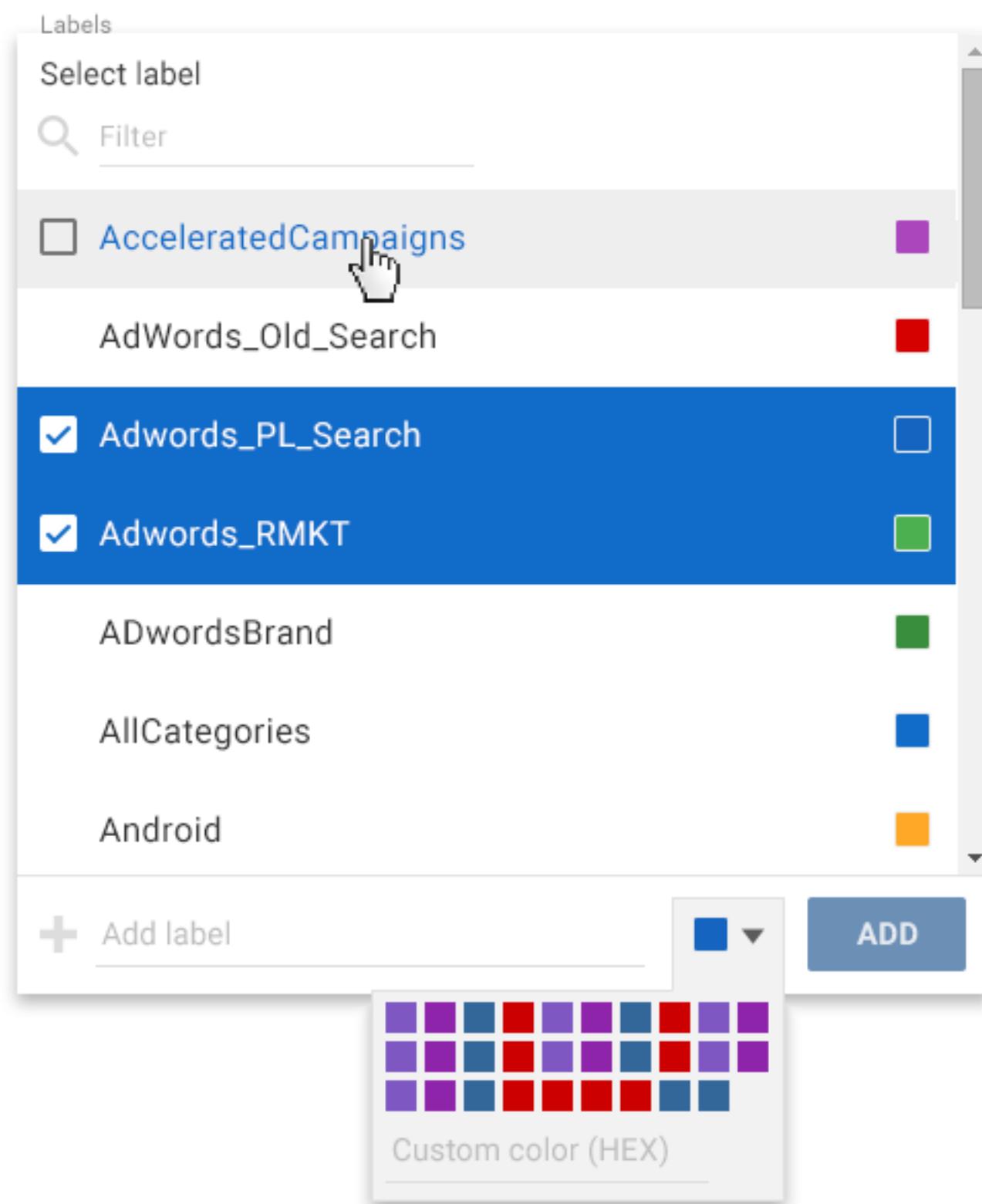
<input type="checkbox"/> AcceleratedCampaigns	
AdWords_Old_Search	
<input checked="" type="checkbox"/> Adwords_PL_Search	
<input checked="" type="checkbox"/> Adwords_RMKT	
ADwordsBrand	
AllCategories	
Android	

Add label ADD

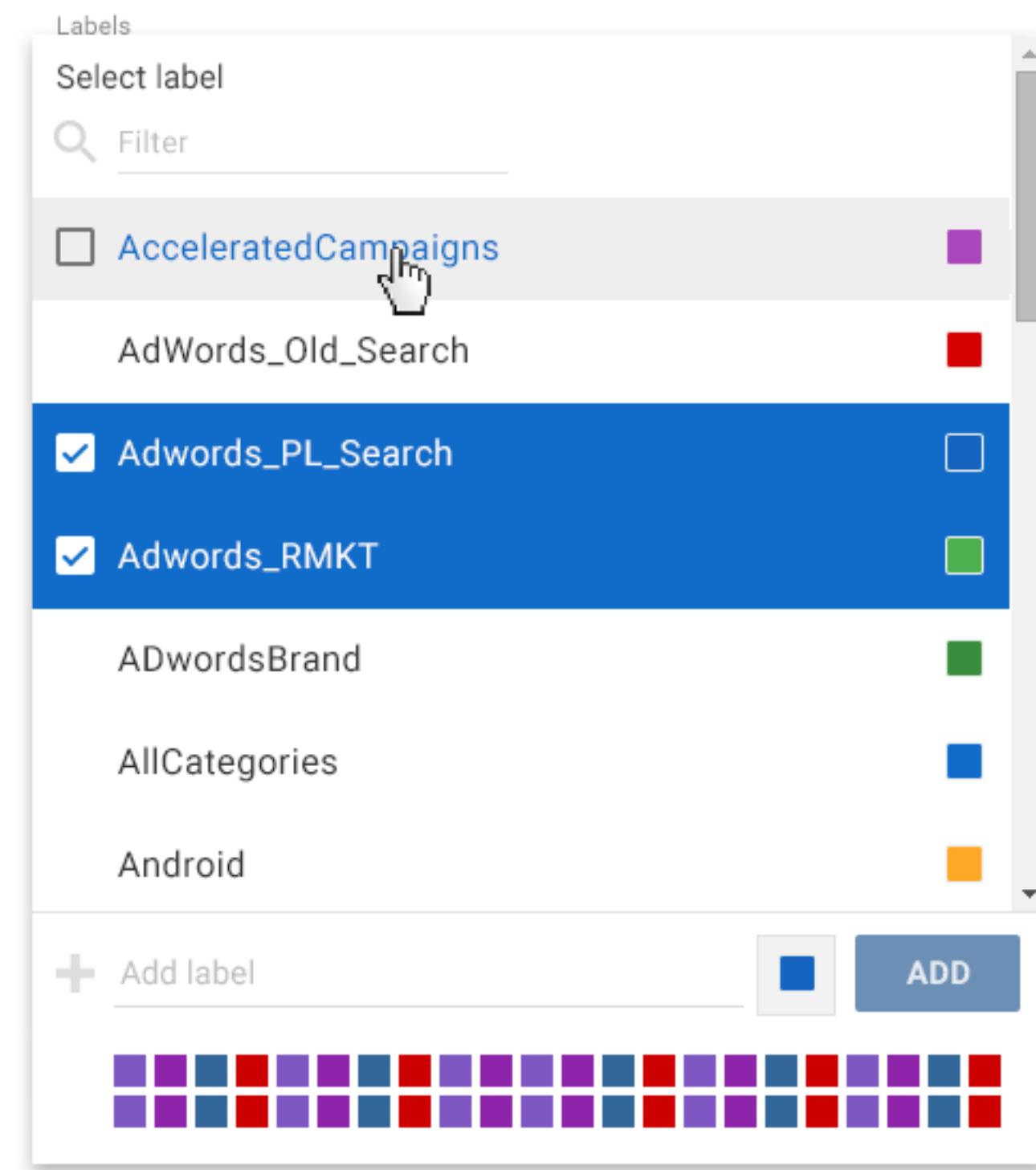
Custom color (HEX)

Tag multiselect

Labels multiselect



Labels multiselect



13 селектов

Задача-решение

Задача-решение

Dominant color	Weapon
Red	Balista
Character expression	Unit
Happy	Angel
Environment	Elements
Base	Book
Size	Style
1200x627	Trio
Platform	Equipment
Facebook	Airship
Creature	State
Elephant	Attack
Character expression	
Happy	

Погружение

Погружение

 **Soldiers Inc.** 
August 4 at 5:14pm · 

Like Page

Coming up in the Syndicate Games Event:
<http://plrm.me/SINC-Plarium>

Combine Experience Race – This incredible 17 day long Tournament offers a variety of ways to earn Experience Points, making it easier than ever to win incredible Rewards! In the Combine Experience Race everything you do helps your Combine. The more Experience Points you earn, the more Points your Combine gets!... See More



77 4 Comments 2 Shares

 Like  Comment  Share

Бизнес-цели

Идея

Возможное решение

Автоматизация

Google Cloud Vision API

Google Cloud Vision API



"running", "score": 0.99803412,
"marathon", "score": 0.99482006

Tech review

Tech review

Username

Email address

Password

Confirm password

```
const formConfig = [  
  'username',  
  'email',  
  'password',  
  'confirm'  
];  
  
render() {  
  return <FormGod config=${formConfig}>;  
}
```

*slide № 17

Tech review

New npm package



*slide № 22

Questions?