

GDG SUZHOU: COFFEE AND CODE
FOR WEB

CSS 框架与 BULMA

关于李实

- ▶ 自由职业程序员
- ▶ 经历：企业软件，互联网软件，编程老师
- ▶ 业余：TEDx 社区，GDG 社区
- ▶ <https://github.com/seekerlee>
- ▶ 我的 HTML/CSS 教程 <http://pushi.simon1987.com/>



前置技术

- ▶ 基本的 CSS 和 JavaScript 经验

本课流程

1. 为什么要 CSS 框架以及 Bulma
2. Bulma 能做什么
3. 介绍响应式布局
4. Code Lab

编写 CSS 遇到
了些情况

- ▶ 经常编写同样的 CSS -> 不符合 DRY(Don't Repeat Yourself) 原则
- ▶ 有的 CSS 很难或者很麻烦。比如响应式(Responsive)的 CSS, 浏览器兼容的 CSS
- ▶ 自己写的 css 不一定好用(命名不够直观, 不够通用), 因为主要精力在产品, 逻辑代码等方面
- ▶ 自己不太会设计, 什么颜色, 字号, 间距, 大小?

思考：是你你
怎么做？

原始的解决方法(10年前)

- ▶ 把常用的 css 放到一个 common.css 里面，然后不同的项目都引用它
- ▶ 把复杂的 css 预先写好，并定义好 class，然后通过给元素加 class 的方式使用
- ▶ 专人或者团队负责维护 common.css
- ▶ 自学或者找人设计...

于是：有一群好人专门维护一个 **COMMON.CSS** 并开源出来供大家使用

- ▶ Bootstrap 做的最早使用最广；Twitter 背书；比较依赖 jQuery
- ▶ Bulma 比较新；喜欢用 css3 新特性；不依赖 JS/jQuery；易用
- ▶ tailwindcss 比较新；高度可定制（没有预定义的设计，而是提供了众多 css class 供你选择完成自己的设计）

具体点， **BULMA**
能帮我做什么

- ▶ 响应式列布局(Responsive Columns)
- ▶ 预定义的多种布局方式
- ▶ 优化的表单样式
- ▶ 优化的元素样式：按钮，图标，图片，通知，进度条，表格等
- ▶ 组件：面包屑，卡片，菜单，导航栏，模态窗口，Tab 页等

First column

Second column

Third column

Fourth column

```
<div class="columns">
  <div class="column">
    First column
  </div>
  <div class="column">
    Second column
  </div>
  <div class="column">
    Third column
  </div>
  <div class="column">
    Fourth column
  </div>
</div>
```

Copy

Title


Subtitle

SNIPPET

Name

Text input

Username

 bulma

This username is available

Email

 hello@

This email is invalid

Subject

Select dropdown

Message

Textarea

☐ I agree to the [terms and conditions](#)

☐ Yes ☐ No

Submit

[Cancel](#)

Copy

```
<div class="field">
  <label class="label">Name</label>
  <div class="control">
    <input class="input" type="text" pla
  </div>
</div>
```

```
<div class="field">
  <label class="label">Username</label>
  <div class="control has-icons-left has
    <input class="input is-success" type=
    <span class="icon is-small is-left">
      <i class="fas fa-user"></i>
    </span>
    <span class="icon is-small is-right"
      <i class="fas fa-check"></i>
    </span>
  </div>
</div>
<p class="help is-success">This userna
</div>
```

Show code

```
<div class="field">
  <label class="label">Email</label>
  <div class="control has-icons-left has
    <input class="input is-danger" type=
    <span class="icon is-small is-left">
      <i class="fas fa-envelope"></i>
    </span>
    <span class="icon is-small is-right"
      <i class="fas fa-exclamation-trian
    </span>
  </div>
</div>
<p class="help is-danger">This email i
</div>
```

SNIPPET

Lorem ipsum dolor sit amet, consectetur adipiscing elit lorem ipsum dolor. **Pellentesque risus mi**, tempus quis placerat ut, porta nec nulla. Vestibulum rhoncus ac ex sit amet fringilla. Nullam gravida purus diam, et dictum felis venenatis efficitur. Sit amet, consectetur adipiscing elit



Copy

```
<div class="notification">
  <button class="delete"></button>
  Lorem ipsum dolor sit amet, consectetur
  adipiscing elit lorem ipsum dolor. <st
  consectetur adipiscing elit
</div>
```

Component



Lorem ipsum dolor sit amet,
consectetur adipiscing elit.
Phasellus nec iaculis mauris.
[@bulmaio](#). [#css](#) [#responsive](#)
11:09 PM - 1 Jan 2016

Save

Edit

Delete

SNIPPET

Pictures Music Videos Documents

```
<div class="tabs">
  <ul>
    <li class="is-active"><a>Pictures</a></li>
    <li><a>Music</a></li>
    <li><a>Videos</a></li>
    <li><a>Documents</a></li>
  </ul>
</div>
```

Copy

SNIPPET

Bulma / Documentation / Components / Breadcrumb

Copy

```
<nav class="breadcrumb" aria-label="breadcrumbs">
  <ul>
    <li><a href="#">Bulma</a></li>
    <li><a href="#">Documentation</a></li>
    <li><a href="#">Components</a></li>
    <li class="is-active"><a href="#" aria-current="page">Breadcrumb</a></li>
  </ul>
</nav>
```

GENERAL

[Dashboard](#)[Customers](#)

ADMINISTRATION

[Team Settings](#)[Manage Your Team](#)[Members](#)[Plugins](#)[Add a member](#)[Invitations](#)[Cloud Storage](#)[Environment Settings](#)[Authentication](#)

TRANSACTIONS

[Payments](#)[Transfers](#)[Balance](#)

```
<aside class="menu">
  <p class="menu-label">
    General
  </p>
  <ul class="menu-list">
    <li><a>Dashboard</a></li>
    <li><a>Customers</a></li>
  </ul>
  <p class="menu-label">
    Administration
  </p>
  <ul class="menu-list">
    <li><a>Team Settings</a></li>
    <li>
      <a class="is-active">Manage Your Team</a>
      <ul>
        <li><a>Members</a></li>
        <li><a>Plugins</a></li>
        <li><a>Add a member</a></li>
      </ul>
    </li>
    <li><a>Invitations</a></li>
    <li><a>Cloud Storage Environment Settings</a></li>
    <li><a>Authentication</a></li>
  </ul>
  <p class="menu-label">
    Transactions
  </p>
  <ul class="menu-list">
    <li><a>Payments</a></li>
    <li><a>Transfers</a></li>
    <li><a>Balance</a></li>
  </ul>
</aside>
```

DEMO:

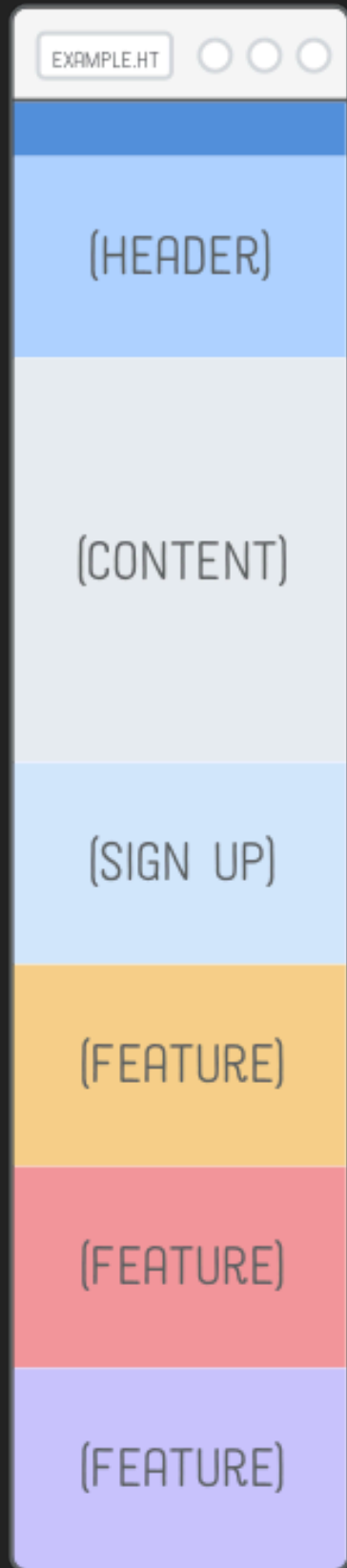
用 BULMA 实现响应

式多列布局

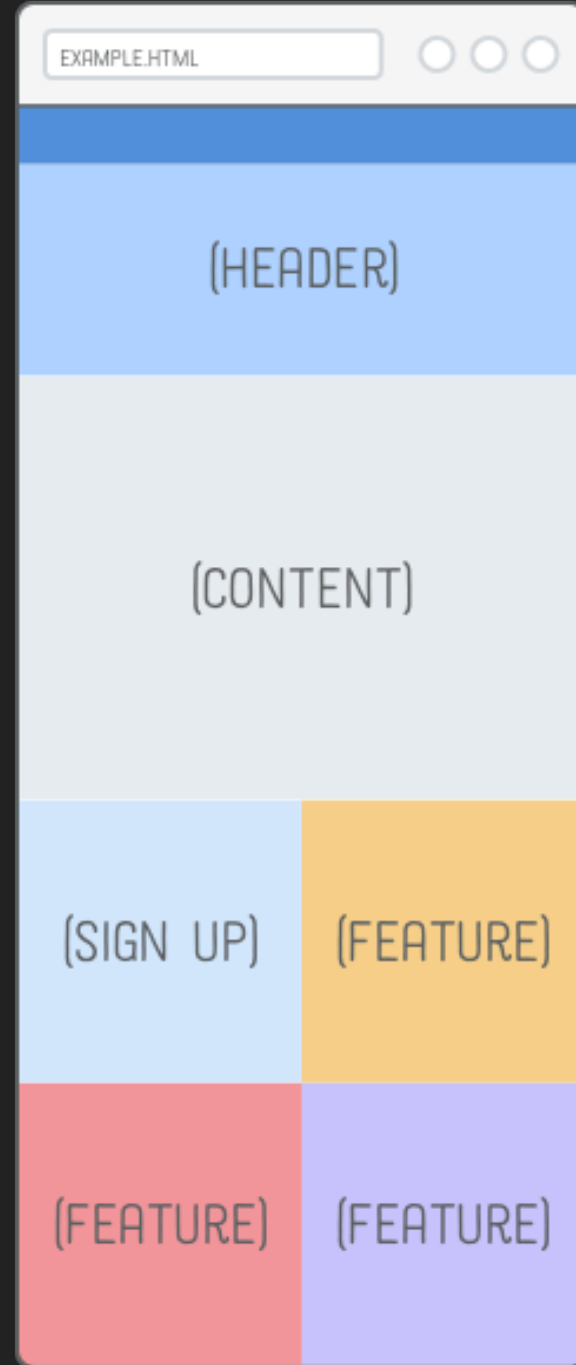
怎样做到响应式布局?

MEDIA QUERY & FLEXIBLE BOX

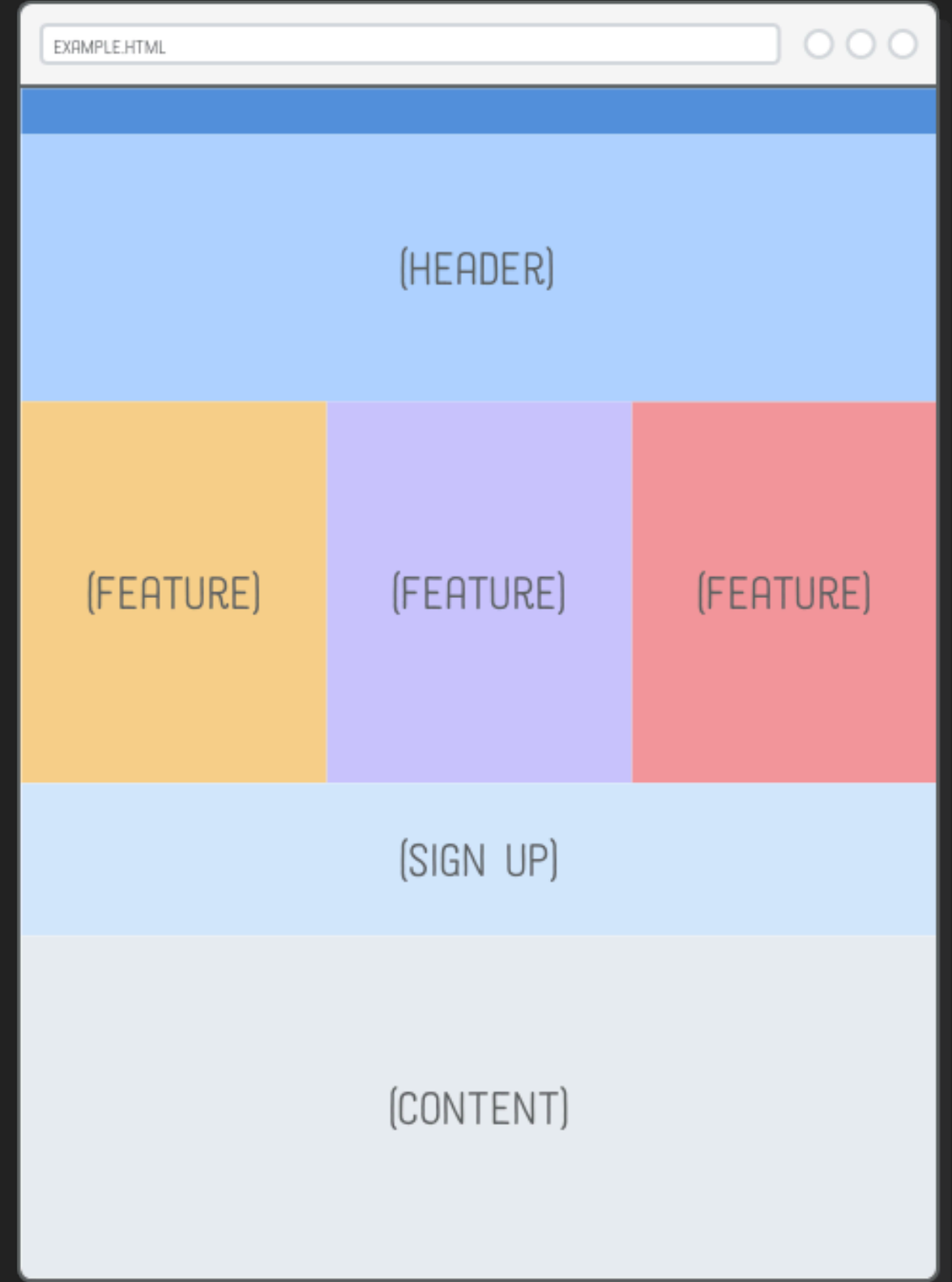
MOBILE



TABLET



DESKTOP



HTML CONTENT



MOBILE CSS

TABLET CSS

DESKTOP CSS



MOBILE SITE

TABLET SITE

DESKTOP SITE

“MEDIA QUERY”

“AT-RULE”

“MEDIA TYPE”

“MEDIA FEATURE”

@MEDIA

ONLY SCREEN

AND

[MAX-WIDTH: 400PX]

{

<ORDINARY CSS RULES>

}

DEMO:

响应式布局基础

- ▶ Media Query: https://developer.mozilla.org/en-US/docs/Web/CSS/Media_Queries/Using_media_queries
- ▶ 最好的(我认为)的 FlexBox 例子: <https://css-tricks.com/snippets/css/a-guide-to-flexbox/>
- ▶ 响应式设计教程(Demo 出处): <https://internetingishard.com/html-and-css/responsive-design/>
- ▶ 我的公众号右侧图: 写简单的代码



CODE LAB