

《聊聊最近Hotwire的使用感受》

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个人简介

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云长科技后端工程师，主要负责公司商城的开发，服务器运维，数据迁移等等。不久前刚从前端阵营切换过来的Ruby爱好者。喜爱码字，经常会在社区分享一些自己对技术的看法。

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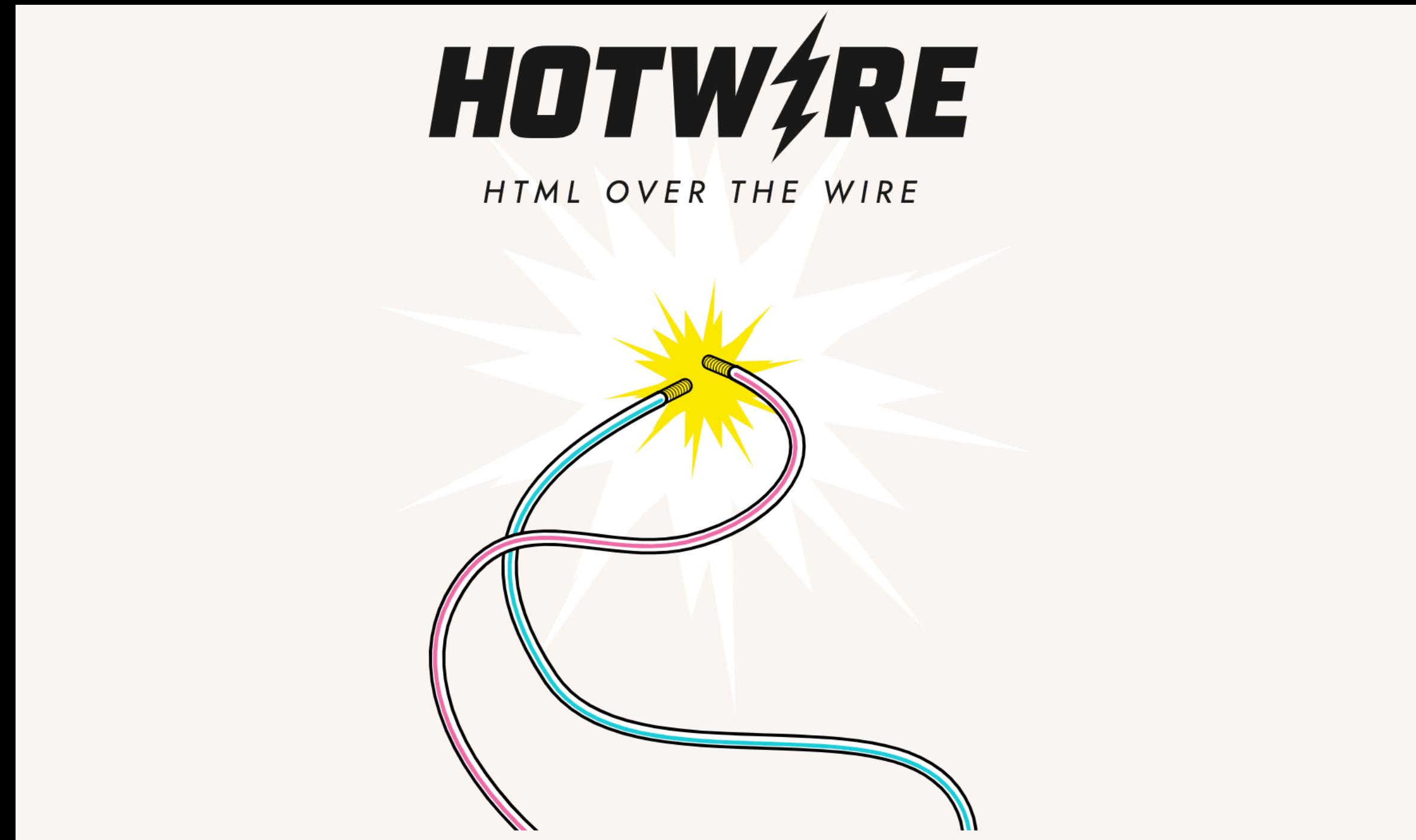
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9

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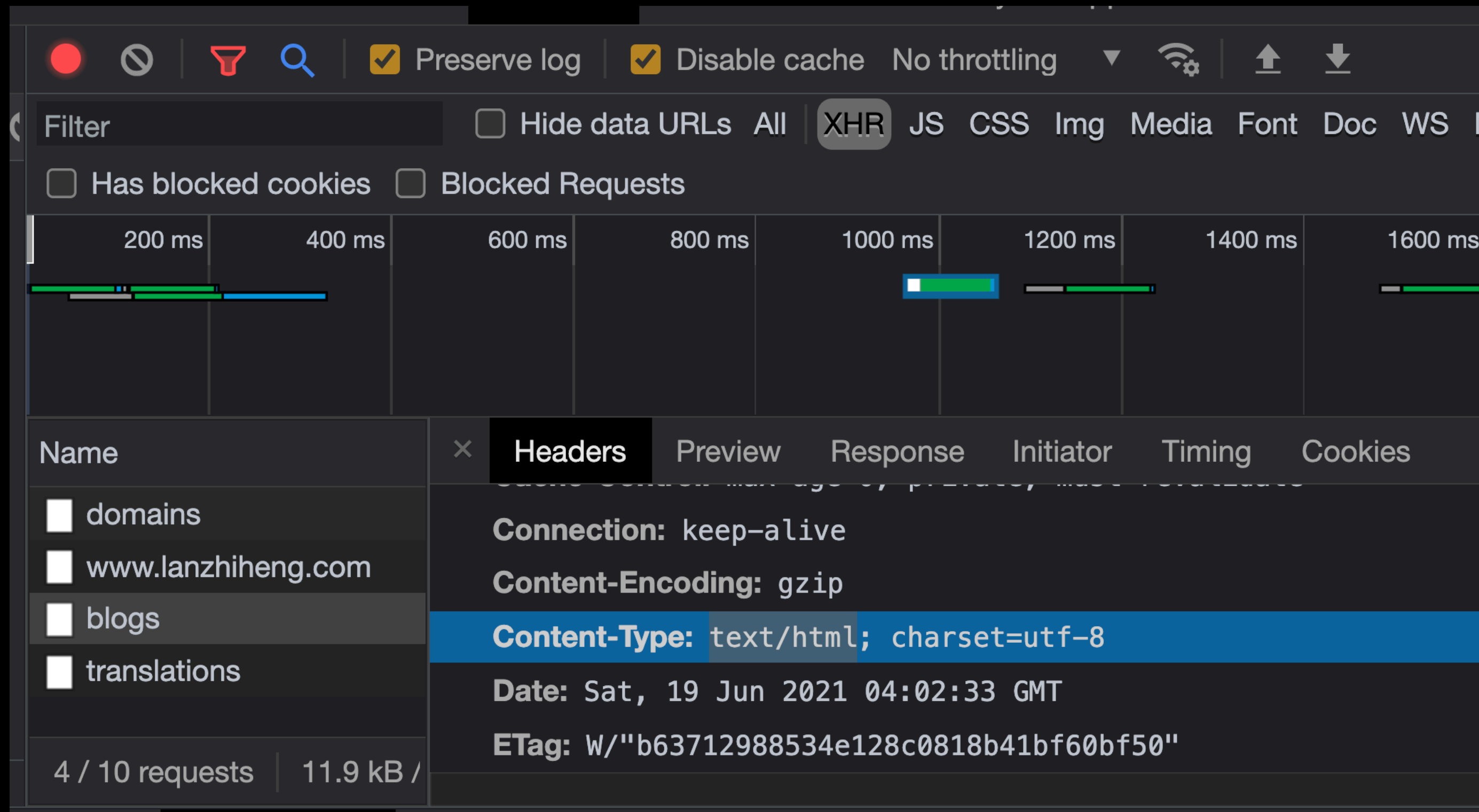
1. Hotwire是啥
2. Hotwire对比流行前端框架
3. Hotwire小技巧盘点
4. Hotwire适合哪些人



Hotwire是啥

Hotwire => **HTML-Over-The-Wire**

理念：一切都是服务端渲染，所有东西都通过text/html进行传输。



Hotwire三剑客

Turbo: <https://turbo.hotwire.dev/>

Stimulus: <https://stimulus.hotwire.dev/>

Strada: Coming Soon!

Turbo三个模块

Turbo Drive: Turbolinks的改良。不需要额外的代码即开即用。然而只能全页面替换。

Turbo Frames: 类似于iframe，独立空间里面的自嗨。然而区间之外无能为力。

Turbo Streams: 以声明式编程的方式实现简单的DOM操作行为。更复杂的交互无能为力。

Embrace SSR(Server-Side-Render) without JavaScript

Stimulus-谦虚的前端框架

A modest JavaScript framework for the HTML you already have.

Sprinkle your HTML with controller, target, and action attributes:

```
<!--HTML from anywhere-->
<div data-controller="hello">
  <input data-hello-target="name" type="text">

  <button data-action="click->hello#greet">
    Greet
  </button>

  <span data-hello-target="output">
  </span>
</div>
```

Write a compatible controller and watch Stimulus bring it to life:

```
// hello_controller.js
import { Controller } from "stimulus"

export default class extends Controller {
  static targets = [ "name", "output" ]

  greet() {
    this.outputTarget.textContent =
      `Hello, ${this.nameTarget.value}!`
  }
}
```

enter a name

Greet

Embrace SSR(Server-Side-Render) with JavaScript

对比流行的前端框架

HTML-Over-The-Wire <=> JSON-Over-The-Wire

1. Hotwire简单，不需要太多配置就能直接使用。
2. 不像React/Vue有丰富的UI组件库。有许多东西还是要自己手动去实现。拿来主义者的地狱。
3. 目前社区维护者相对较少。
4. 工具库相对较少（或者说根本不需要这么多工具库？）。

Hotwire小技巧

data-disable-with实现简单的loading效果

```
40
41 <%= form_with model: @admin_user, url: musk_sign_in_path do |f| %>
42 ...
43
44 <%= f.submit "Login", class: "btn", data: { 'disable-with': 'Loading...' } %>
45 <% end %>
```

Loading...

Elements

Console

Sources

⚠ Network

Performance

Memory

Application

Security

Lighthouse

Adblock Plus

<!DOCTYPE html>
<html>
 <head>...</head>
 <body>
 <div class="mx-auto px-7 mt-20">
 <div class="my-14 mx-auto w-1/4 ">
 <div class="border-black border-solid border-2 rounded px-3 py-5">
 <div id="alert-area">...</div>
 <h1 class="main-title mb-6 text-center">Stone Entry</h1>
 <form action="/musk/sign_in" accept-charset="UTF-8" method="post">
 <input type="hidden" name="authenticity_token" value="fvaVV4brKrh6KMLmyXF3W5sxGoNiFmHUtJuS050p+yPlI9Nei2HrU9VUuXx7Eozg/mQrv58ajWRBEGjEKgYQjA==">
 <div class="input-wrapper">...</div>
 <div class="input-wrapper">...</div>
 <input type="submit" name="commit" value="Loading..." class="btn" data-disable-with="Loading..." disabled> == \$0
 </form>
 </div>
 </div>
 </div>
 </body>
</html>

Styles
Filter
element
<div class="border-black border-solid border-2 rounded px-3 py-5">
 .btn
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页面缓存问题

```
``` html
<select class="js-example-basic-single" name="state">
 <option value="AL">Alabama</option>
 <option value="WY">Wyoming</option>
</select>
```

``` js
document.addEventListener('turbo:load', function () {
 $(' .js-example-basic-single').select2();
})
```
```

| | | |
|-----------|-----------|-----------|
| Alabama ▾ | Alabama ▾ | Alabama ▾ |
| Alabama ▾ | | |

问题策略

1. 关闭Turbo缓存。

```
47
48 <head>
49   <meta name="turbo-cache-control" content="no-cache">
50 </head>
```

2. 缓存之前先解构组件。

```
15
16
17 document.addEventListener("turbo:before-cache", () => {
18   $('.js-example-basic-single').select2('destroy')
19 })
```

3. 利用Stimulus的生命周期函数，每次disconnect的时候解构组件。

```
47
48 <select data-controller="single" name="state">
49   <option value="AL">Alabama</option>
50   <option value="WY">Wyoming</option>
51 </select>
```

```
1 // app/packs/controllers/single_controller.js
2
3 import { Controller } from "stimulus"
4
5 export default class extends Controller {
6   connect() {
7     $(this.element).select2()
8   }
9
10  disconnect() {
11    $(this.element).select2('destroy')
12  }
13 }
```

异步模态框

1. 为模态框提供对应的API，返回text/html数据。
2. 异步加载模态框。

相关API

```
40
41 <!-- app/views/musk/modals/tip.html.erb -->
42
43 <turbo-frame id='tip_modal'>
44   <div class='modal'>
45     <h1>Some Tips <%= @post %></h1>
46   </div>
47 </turbo-frame>
```

```
1 # frozen_string_literal: true
2
3 module Musk
4   class ModalsController < ApplicationController
5     layout false
6
7     def tip
8       @post = Post.friendly.find(params[:id])
9     end
10  end
11 end
```

```
16
17 namespace :musk do
18   resources :modals do
19     member do
20       get :tip
21     end
22   end
23 end
```


异步加载

1. Turbo Frames 懒加载

```
50 <turbo-frame src="<%= tip_musk_modal_path(post) %>" id='tip_modal'></turbo-frame>
```

2. 点击后异步加载

```
56  
57 <%= link_to '弹出', '#', data: { controller: "modal", 'modal-url-value': tip_musk_modal_path(post), action: 'modal#showModal' } %>
```

```
1 // app/packs/controllers/modal_controller.js  
2 import { Controller } from "stimulus"  
3  
4 export default class extends Controller {  
5   static values = { url: String }  
6  
7   showModal(e) {  
8     e.preventDefault()  
9     $.ajax(this.urlValue).then((res) => {  
10       $(res).modal() // => 展示模态框  
11     })  
12   }  
13 }
```


Hotwire适合哪些人

全栈工程师

前端力量没有那么“过剩”的小团队

个人项目

The End