Web 前端概述

赵文博



关于我





360 专业前端团队「奇舞团」高级技术经理,负责商业化、安全和云产品前端团队。







拥有多年的前端开发实践经验。





1960s

ARPA Net 建立

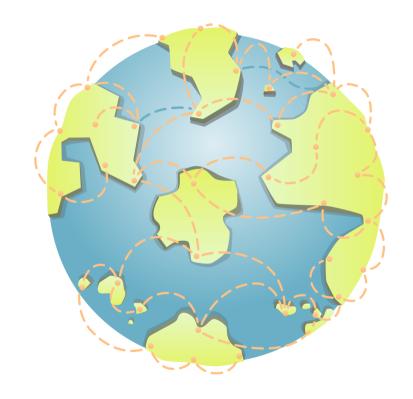


1960s

ARPA Net 建立

1983

TCP/IP 开始使用



1960s

ARPA Net 建立

1983

TCP/IP 开始使用

1983

DNS 系统诞生

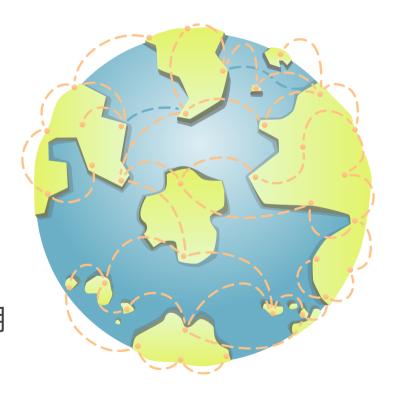


1960s ARPA Net 建立

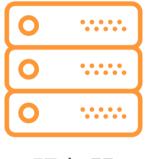
1983 TCP/IP 开始使用

1983 DNS 系统诞生

1989 Tim Berners-Lee 发明 万维网 (WWW)



万维网 World Wide Web



服务器



浏览器

万维网 World Wide Web

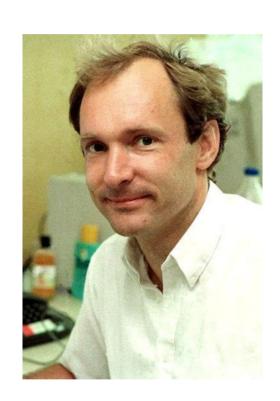


万维网 World Wide Web



Tim Berners-Lee

- 提出 World Wide Web
- 发明 HTML 语言
- 发表 HTTP 协议
- 发明了 URL
- 实现了第一个 Web Server
- 实现了第一个浏览器



世界上第一个网站

World Wide Web

The WorldWideWeb (W3) is a wide–area <u>hypermedia</u> information retrieval initiative aiming to give universal access to a large universe of documents.

Everything there is online about W3 is linked directly or indirectly to this document, including an <u>executive summary</u> of the project, <u>Mailing lists</u>, <u>Policy</u>, November's <u>W3 news</u>, <u>Frequently Asked Questions</u>.

What's out there?

Pointers to the world's online information, subjects, W3 servers, etc.

<u>Help</u>

on the browser you are using

Software Products

A list of W3 project components and their current state. (e.g. <u>Line Mode</u> ,X11 <u>Viola</u> , <u>NeXTStep</u> , <u>Servers</u> , <u>Tools</u> , <u>Mail robot</u> , <u>Library</u>)

Technical

Details of protocols, formats, program internals etc

Bibliography

Paper documentation on W3 and references.

<u>People</u>

A list of some people involved in the project.

History

A summary of the history of the project.

How can I help?

If you would like to support the web..

Getting code

Getting the code by anonymous FTP, etc.

HTML

CSS (1994)

```
p {
   font-size: 14px;
   line-height: 1.8;
   color: #333366;
   margin: 1em 0;
}
```



Yahoo! Deutschland CLICK HERE TO VISIT THE STARS LOS ANGELES Weekly Picks

Search Options

Yellow Pages - People Search - City Maps -- News Headlines - Stock Quotes - Sports Scores

- Arts - Humanities, Photography, Architecture, ...
- Business and Economy [Xtra!] - Directory, Investments, Classifieds, ...
- Computers and Internet [Xtra!] - Internet, WWW, Software, Multimedia, ...
- Education - Universities, K-12, Courses, ...
- Entertainment [Xtra!] - TV, Movies, Music, Magazines, ...
- Government - Politics [Xtra!], Agencies, Law, Military, ...
- Health [Xtra!] - Medicine, Drugs, Diseases, Fitness, ...
- News [Xtra!] - World [Xtra!], Daily, Current Events, ...
- Recreation and Sports [Xtra!] - Sports, Games, Travel, Autos, Outdoors, ...
- Reference - Libraries, Dictionaries, Phone Numbers, ...
- Regional - Countries, Regions, U.S. States, ...
- <u>Science</u> – <u>CS, Biology, Astronomy, Engineering, ...</u>
- <u>Social Science</u> – <u>Anthropology, Sociology, Economics, ...</u>
- Society and Culture - People, Environment, Religion, ...

JavaScript (1995)

```
  function onSubmit () {
    var userName = document.getElementById('username')
    var password = document.getElementById('password')
    if (!userName || !password) {
        alert('请填写用户名和密码')
        return false
    }
    return true
}

    script>
```



Yahoo! Mail helps me stay in touch.



New to Yahoo!?

Get a free Yahoo! Mail account – it's a breeze to stay connected and manage your busy life.

- 100MB of email storage
 Keep more of what's important to you
- Powerful spam protection Read only the mail you really want
- Get your mail anywhere
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Learn More



Sign Up Now

Need more? Get <u>Yahoo!</u> Mail Plus.

Mail Plus offers tougher virus and spam protection, a virtually unlimited 2GB of storage, no graphical ads, and more for only \$19.99/year.

Learn more

Already have a Yahoo! ID? Please sign in to read or send mail

Enter your ID and password

Yahoo! ID:

Password:

Remember my ID on this computer

Sign In

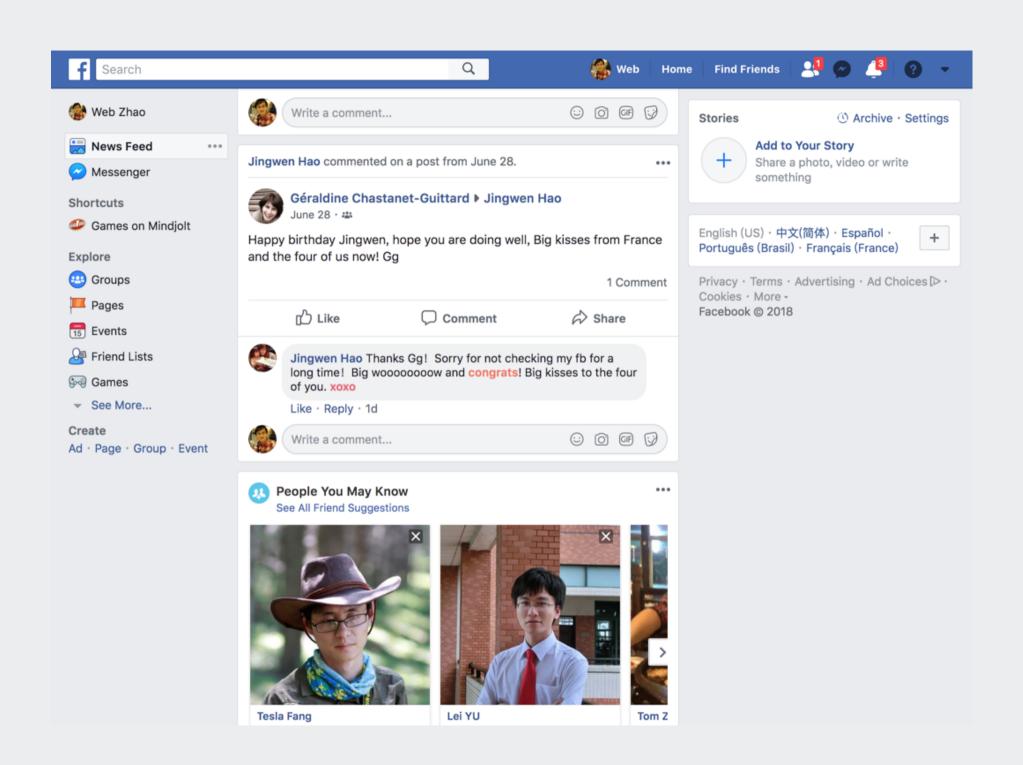
MODE: Standard | Secure

Sign-in help Forgot your password?

Yahoo! Mail for International Users

Europe: Danmark - Deutschland - España - France - Italia - Norge - Sverige - UK/Ireland
Pacific Rim: Australia/NZ - China - Hong Kong - India - Japan - Korea - Singapore - Taiwan
Americas: Argentina - Brasil - Canada - Mexico - In Chinese - en Español - In Russian



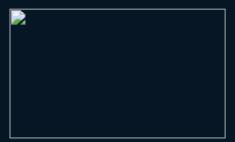


前端工程师



```
https://9l448mr06w.csb.app/
≡ main.js
       import Vue from 'vue'
       import Todo from './Todo'
       import store from './store'
       /* eslint-disable no-new */
       new Vue({
         el: '#app',
         store,
         components: { Todo },
  10
         template: '<Todo/>'
  11
       })
  12
                                                                                                        Open Sandbox
                                                                                 https://codesandbox.io/embed/9l448mr06w
                                                            Console 2
                                                                          Problem
```

We are currently accepting adventurous VR clients. Reach us at vr@ronikdesign.com.



A virtual NYC snow globe.

Bust out your Google Cardboard and take a ride around the city.

START



什么是前端工程师

- 解决 GUI 人机交互问题
- 跨终端
 - PC/移动浏览器
 - 客户端
 - VR/AR 等
- Web 技术栈

Web 前端技术

HTML (内容)

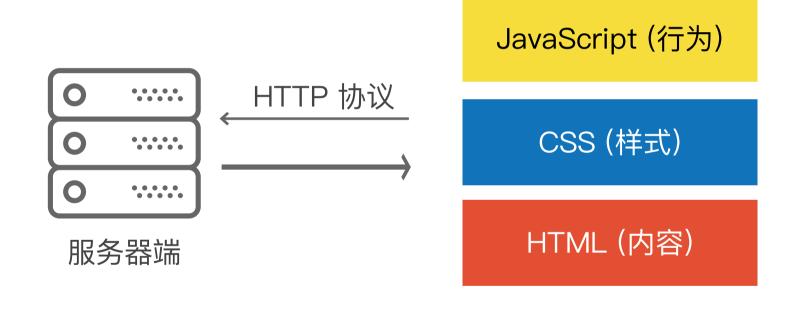
CSS (样式)

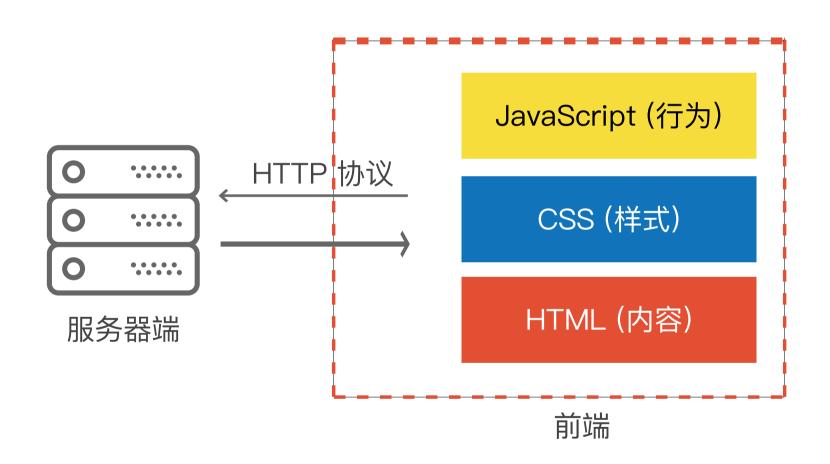
HTML (内容)

JavaScript (行为)

CSS (样式)

HTML (内容)





功能

美观

功能

美观

功能

无障碍

美观

安全

功能

无障碍

美观

安全

功能

性能

无障碍

前端应该关注哪些方面

美观

安全

兼容

功能

性能

无障碍

前端应该关注哪些方面

美观

安全

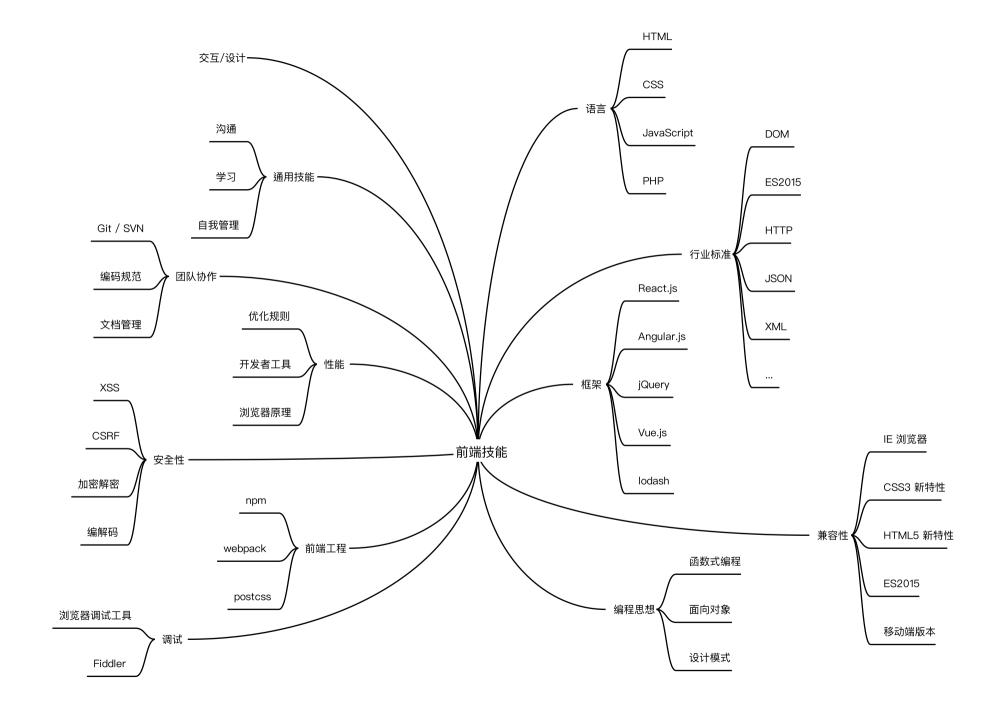
兼容

功能

体验

性能

无障碍













































前端开发环境

编辑器









浏览器

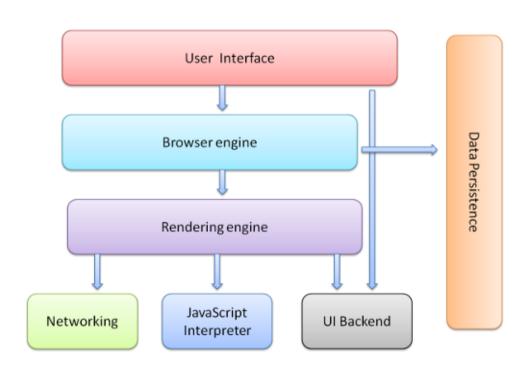








浏览器架构



浏览器引擎

浏览器 渲染引擎 JavaScript引擎

Internet Explorer Trident JScript

Edge EdgeHTML Chakra

Firefox Gecko SpiderMonkey

Chrome Blink V8

Safari Webkit Nitro

调试工具





总结

- Tim Berners-Lee 发明万维网
- 互联网发展催生 Web 前端工程师出现
- 前端工程师解决基于 GUI 的人机交互问题
- HTML、CSS、JavaScript 和 HTTP 是前端基础
- 搭建前端开发环境非常容易

谢谢!

参考文档

- https://zh.wikipedia.org/zh cn/%E4%BA%92%E8%81%94%E7%BD%91
- https://www.html5rocks.com/zh/tutorials/internal s/howbrowserswork/
- http://www.evolutionoftheweb.com/