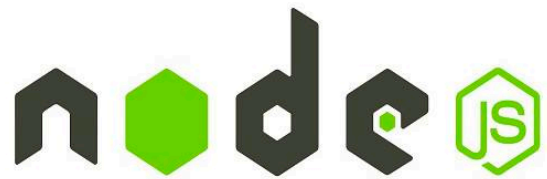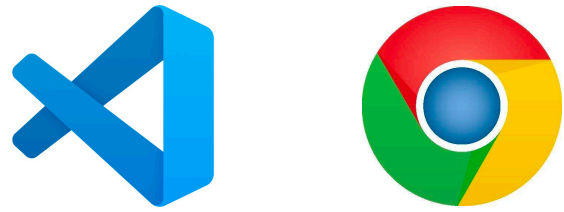WebComponents

概述与开发测试环境

开发测试环境

关于WebComponents

Demos

开发环境

HTML5 / CSS3 / ES6 / Nodejs

JSX / less / Typescript   Nodejs

VSCode 编程演练

新建demo.html，实现点击按钮改变按钮文案

Chrome 编程演练

在Console中写一个闭包函数并调用

NodeJS 编程演练

编写scafford.js，通过 npm run 执行

https://caniuse.com/

https://developer.mozilla.org/zh-CN/

https://webcomponents.dev/

Can I use   webcompone

4 results found

HTML Imports 📄 - WD

Deprecated method of including and reusing HTML documents
in other HTML documents. Superseded by ES modules.

Current aligned   Usage relative   Date relative   Filtered | All   ⚙️

IE	Edge*	Firefox	Chrome	Safari	Opera	Safari on iOS*	Opera Mini*	Android Browser*	Oper Mobi
			4-29		10-16				
	12-18	2-31	30-35		17-22				
	79	32-55	36-79		23-66				
6-10	80-97	56-96	80-98	3.1-15.1	67-82	3.2-15.1		2.1-4.4.4	12-12
11	98	97	99	15.3	83	15.3	all	98	64
		98-99	100-102	15.4-TP		15.4			

Settings   Preferences   ✕

Preferences
Workspace
Experiments
Ignore List
Devices
Throttling
Locations
Shortcuts

Appearance

Theme: [System preference ▾]

Panel layout: [auto ▾]

Color format: [As authored ▾]

☐ Enable ⌘ + 1-9 shortcut to switch panels

Language: [English (US) - English (US) ▾]

☐ Disable paused state overlay

☑ Show What's New after each update

Sources

☐ Search in anonymous and content scripts

☐ Automatically reveal files in sidebar

☑ Enable JavaScript source maps

☐ Enable tab moves focus

☑ Detect indentation

☑ Autocompletion

☑ Bracket matching

☐ Code folding

Show whitespace characters: [None ▾]

☑ Display variable values inline while debugging

☑ Focus Sources panel when triggering a breakpoint

☑ Enable CSS source maps

☑ Allow scrolling past end of file

Default indentation: [4 spaces ▾]

Elements

☑ Show user agent shadow DOM

☑ Word wrap

☑ Show HTML comments

☑ Reveal DOM node on hover

☑ Show detailed inspect tooltip

☐ Show rulers on hover

Network

☐ Preserve log

☑ Record network log

☐ Enable network request blocking

☐ Disable cache (while DevTools is open)

☐ Color-code resource types

☐ Group network log by frame

☐ Force ad blocking on this site

Performance

☑ Show native functions in JS Profile

Flamechart mouse wheel action: [Zoom ▾]

☐ Hide chrome frame in Layers view

Console

☐ Hide network messages

☐ Selected context only

☐ Log XMLHttpRequests

☐ Show timestamps

☑ Autocomplete from history

☑ Group similar messages in console

☑ Show CORS errors in console

☑ Eager evaluation

☑ Evaluate triggers user activation

☐ Preserve log upon navigation

☐ Enable custom formatters

Extension

Link handling: [auto ▾]

Persistence

☐ Enable Local Overrides

Debugger

☐ Disable JavaScript

☐ Disable async stack traces

Global

☐ Auto-open DevTools for popups

Sync

关于

Web Components

Web Components

Web Components是Web原生提供的封装组件的方式，提供了扩展Web自定义
Element（元素）的可能。

主要包含custom elements、shadow dom、html templates等部分，用于注册自定义
元素、提供shadow-dom接口，为自定义元素的样式和脚本提供一个隔离的环境，通
过template和slot编写自定义元素的结构模板。

JS 原生的 DOM API	→	jQuery 操作 DOM	→	模板引擎 (ember.js/angular.js)	→	JSX、虚拟DOM

```
var $box = document.getElementById('box')
var $head = document.createElement('h1')
var $content = document.createElement('div')
$head.innerText = '关注'
$content.innerText = 'CitiBank'
$box.append($head)
$box.append($content)
```

Web Components优点

原生浏览器支持

https://webcomponents.dev/blog/all-the-ways-to-make-a-web-component/

原生语法支持

使用 Shadow DOM 封装样式

数据的双向绑定

Lightning Web Components
LWC Playground and demos of 70 base components

Adobe
Amazing showcase of Spectrum Web Components

FAST
The adaptive interface system for modern web experiences.

Open Web Components
50+ demos in LitElement and Haunted, from Basic to Advanced.

VanillaWC
A Collection of Vanilla Web Components with no dependencies.

HTMLElement
0 dependencies

Atomico
JSX

Lit
TypeScript

Omi
JSX

FAST
TypeScript

Haunted
JavaScript

LWC
JavaScript

Preact
custom-element

Stencil
TSX

Svelte 3
custom-element

uce
JavaScript

Vue 3
Built-in wrapper

Spectrum Web Components
A collection of 40+ components from Sprectrum Web Components
by Adobe's Spectrum team

lit-html 2 (preview)
Explore the new capabilities of the upcoming lit-html 2
by Westbrook

lit-html by examples
Learn LitElement by examples
by open-wc

Haunted by examples
Learn Haunted by examples
by open-wc

Demos

自定义图片

```
<img is="my-img" />
```

```
<my-counter/>
```

内容回顾