

SPAWebWebWebative

SPAHTMLJavaScriptCSS[1]

[2] 2003 · 2002 4 slashdotslash.com · 8,136,109 [

JavaScript UI SPA JavaScript

HTML ID HTML CSS “#target”

JavaScript

Web JavaScriptAngularJSSEmber.jsExtJSKnockout.jsMeteor.jsReactVue.jsSvelte SPA ExtJS

- AngularJS UI AngularJS HTML HTML
- Ember.js- MVC JavaScript Web
- ExtJS REST API ExtJS localStorage UI
- Knockout.jsModel-View-ViewModel
- Meteor.js SPA JavaScript [5][AngularJS Ember ReactJS]
- ReactJavaScriptFacebookInstagram React [6][HTML][7]
- Vue.js JavaScript Vue Vuex
- Svelte Svelte JavaScript DOM

2006 Ajax [1] Ajax JSONXML XMLHttpRequest ActiveX 2017 SPA Ajax JavaScriptOpera DOM HTML jQuery Ajax

WebSockets

WebSockets [9]- AjaxHTML5

SSE 10] SSE HTTP WebSockets

SilverlightFlashJava

XML JSON Ajax

JSONHTML XMLHTML JavaScriptXMLDOMJSON HTML DOM

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- SPA16] HTML5

JavaScript SEO 18] SPA [

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JavaScript Nat Web DOM
DOM DOM HTML Ajax JavaScript DOM Java

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PhantomJS HTML JavaScript SPA HTMLHTML

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pushHTMLState URL

Google Analytics SPA

DAST JavaScript XSS] DAST SPA [

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