WEB 501/801 Front-End Web Development

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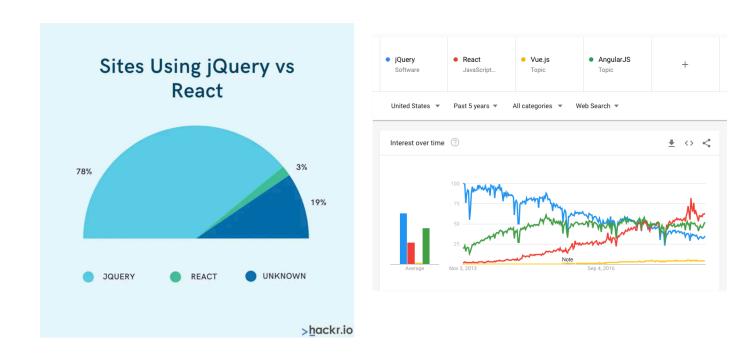
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1. Context and Background

I am interested in jQuery because I found it is so easy to use and it flexibly adjusts the content of the HTML. As one of the most popular Javascript libraries, it is used more than 4 times more than other frontend development languages.



There is a lot of business website that adopts jQuery to build their official websites, such as Uber, Udemy, Twitter, Slack, and Reddit. One business website Trello is built based on the jQuery.

Jquery is famous for its simplicity, cross-browser compatibility, and SEO friendly.

2. jQuery Library

HTML/DOM manipulation

Get content method includes text(), html(), val(); methods for set the attribute is attr(). Methods for add new HTML content contains append(), prepend(), after(), before(). Remove elements in HTML by using remove(), empty()

CSS manipulation

Methods include css().

HTML event methods

The event methods include click,dbclick, mouse enter, mouse leave. Effects and animations

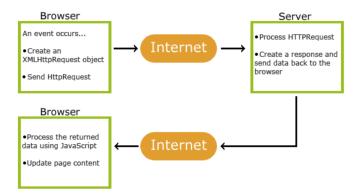
Commonly used method include fadeIn(), fadeOut(), fadeToggle(), fadeTo(), slideDown(), slideUp(),
slideToggle(),animate(), stop()

Dimension method include width(), height(), innerWidth(), innerHeight(), outerWidth(), outerHeight()

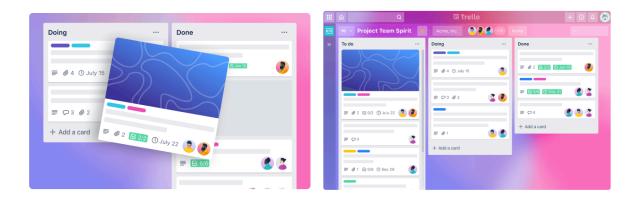
AJAX

jQuery means the data can be loaded in the background and displayed on the webpage. Gmail, Google maps, Youtube and Facebook are using AJAX. Methods like load().

How AJAX Works



3. Case Study



Trello is a useful task management tool that is very popular now. It offers visual tools which help individuals and teams to manage projects, workflow, and work tasks. I have used this tool for a very long time. I am very surprised to find this software product is built upon jQuery.

There are a lot of boards, lists and cards in the product design concept.

Moving card around is an important interaction in Trello product which aims at improving users' task management efficiency by offering convenience in moving task cards around the workspace.

Trello application is what I used very frequently and it uses jQuery. I look deep into its code. On the homepage, I found the <script> in the head.

Also, I do find that it specifies a lot of #ids which is easier for jQuery to select elements.

On the member page, I found these following codes.

Another great example of using jQuery to build a website is Twitter. Twitter is a comminication platfrom

```
v=<script>
(function() {
    var route = window.location.pathname;

var preload = function(path) {
    // We could be more defensive here, this at least avoid an error thrown
    // due to an invalid path
    if (!path) {
        return;
    }

var link = document.createElement('link');
    link.ret = 'preload';
    link.hef = path;
    link.as = 'script';

    link.setAttribute('crossorigin', 'anonymous');

    document.head.appendChild(link);
};

// Preload power-ups things.
    if (route.indexOf('/power-ups') === 0) {
        if (route.indexOf('/power-ups') adain') === 0) {
            preload("https://a.trellocdn.com/prgb/dist/powerup-admin-page.c6548894e85c98d5bd21.js");
    } else if (route.indexOf('dist') !== -1) {
            preload("https://a.trellocdn.com/prgb/dist/powerup-admin-page.c2e0cf9b94eb8le96b86.js");
    } else if (route.indexOf('dist') !== -1) {
            preload("https://a.trellocdn.com/prgb/dist/powerup-admin-page.c2e0cf9b94eb8le96b86.js");
    } else {
            preload("https://a.trellocdn.com/prgb/dist/powerup-page.c2e0cf9b94eb8le96b86.js");
} else {
            preload("https://a.trellocdn.com/prgb/dist/powerup-public-directory-page.ddb08de817154cdd6adc.js");
}
```

which contain information from users across sports, politics. This giant media company used jQuery to build the website. On this feeds page, I found this code

Conclusion

jQuery is not the latest web language used to develop a website. However, it is very convenient and because of its pros, it is still very popular among developers especially if your products require support for older browsers.

Other libraries also have a dependence on jQuery, such as Bootstrap.

Reference

Nick Melville Front End Developer Other Articles by Nick Melville Here's Why You Should Inline Critical CSS to Reduce Lo, Other Articles by Nick Melville Here's Why You Should Inline Critical CSS to Reduce Load Time 4 Key Rules for Great Responsive Web Design , McDavid, B., & Melville, N. (n.d.). *The benefits of jQuery in front-end website development*. Diagram. Retrieved June 12, 2022, from https://www.wearediagram.com/blog/the-benefits-of-jquery-in-front-end-website-development