Rethinking the Client vs. Server Rendering Debate

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@devbootcamp
<table>
<thead>
<tr>
<th>Server actions</th>
<th>Client actions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Server returns HTML</strong></td>
<td><strong>Server returns JSON</strong></td>
</tr>
<tr>
<td>- Full page rendering; full page refresh</td>
<td>- JavaScript MVC - Ember, Backbone, Angular etc</td>
</tr>
<tr>
<td>- Turbolinks</td>
<td>- JavaScript templates - Mustache, Underscore, etc</td>
</tr>
<tr>
<td>- PJAX</td>
<td>- jQuery + DOM manipulation w/ JSON</td>
</tr>
</tbody>
</table>
Daddy

VS.

Papa
<table>
<thead>
<tr>
<th>Server</th>
<th>Client</th>
</tr>
</thead>
<tbody>
<tr>
<td>□ Fast!</td>
<td>□ Fast!</td>
</tr>
<tr>
<td>□ Easier to cache</td>
<td>□ Clear conventions</td>
</tr>
<tr>
<td>□ Always show canonical data</td>
<td>□ Organization and Structure</td>
</tr>
<tr>
<td>□ Less client/server code duplication</td>
<td>□ Reusable components</td>
</tr>
<tr>
<td>□ Easier to test</td>
<td>□ Good UX for basic CRUD</td>
</tr>
<tr>
<td></td>
<td>□ Easier to test</td>
</tr>
</tbody>
</table>
Server

FEAR
of Front-End

Client

THE WAY (TM)

NEW!!

ONWARD TO THE FUTURE
Real World == Hybrid

- HTML fragment inserted into DOM
- JS MVC model for JS component
- Single-page full MVC on some pages
What’s better for YOU?
Solve YOUR Problem

☐ What’s the problem your trying to solve?

☐ Priority

☐ Timing

☐ How does this fit in with goals of the company?
Right Tool for the Job

- Data: authority; present in multiple ways on the same page; reads vs. writes; size; store and respond to state

- Rendering: how much; single or many pages; need to display on-load; complexity; presentation based on state

- UX: importance of page load; user expectations; interactivity; devices; security
Right Tools for your Team

☐ What’s your existing tools, conventions, organization?

☐ What tools do your people know?

☐ Time for spike and knowledge transfer?

☐ What do people want?
Iterate and Enforce

- Discipline
- Clear Expectations and Practices
- Code Styleguides
- Code Reviews/Pull Requests
Your Problem is a People Problem
Thank You

@rmillerwebster

@devbootcamp is hiring!
- [http://openmymind.net/2012/5/30/Client-Side-vs-Server-Side-Rendering/](http://openmymind.net/2012/5/30/Client-Side-vs-Server-Side-Rendering/)
- [https://medium.com/tech-talk/7e0831bc19bc](https://medium.com/tech-talk/7e0831bc19bc)
- [http://patnakajima.com/javascript-talk-i-kinda-gave/#30](http://patnakajima.com/javascript-talk-i-kinda-gave/#30)