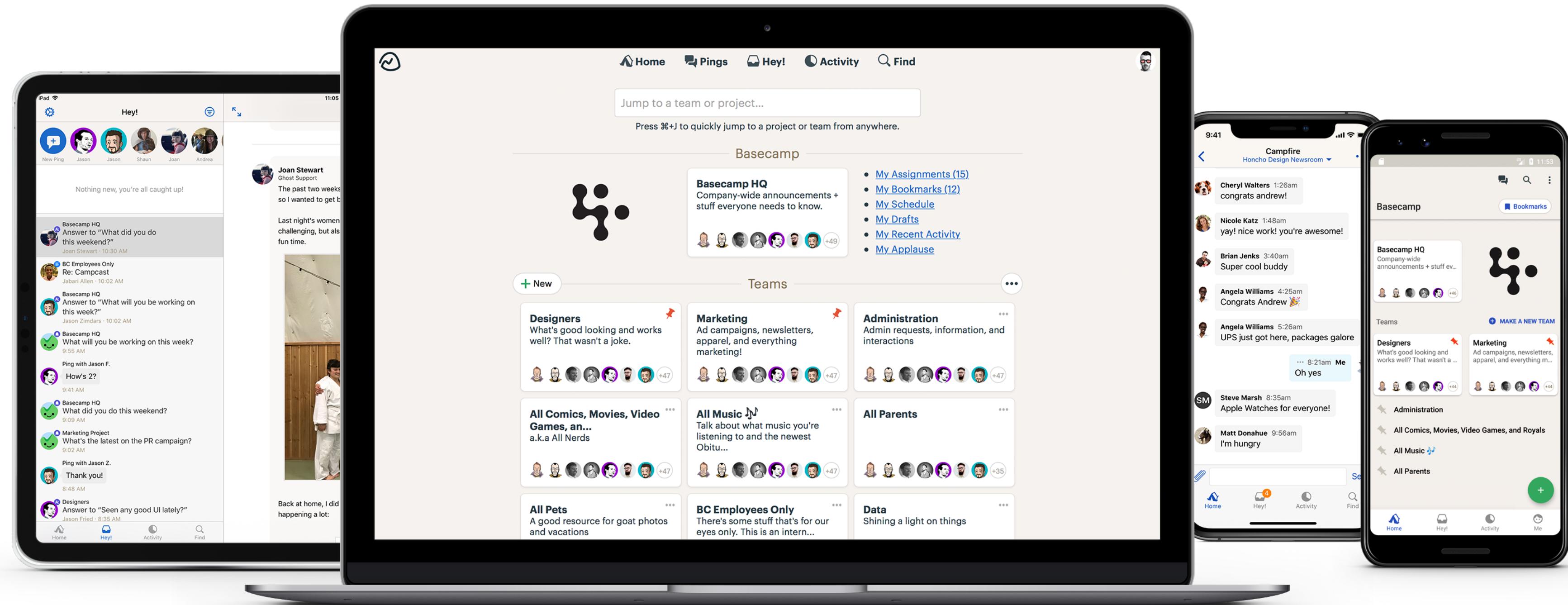


Fighting the merchants of complexity

Jorge Manrubia Díez April 2021



Basecamp



<https://basecamp.com>



The image displays three screenshots of the HEY mobile application interface, illustrating its design and features:

- Left Screenshot:** Shows the main inbox screen titled "Imbox". It includes sections for "NEW FOR YOU" (with items like "Food Drive for the Austin Food Bank" and "The Hawaii pictures") and "PREVIOUSLY SEEN" (with items like "Kitchen Bench" and "Reference Savannah Walt..."). A green banner at the top indicates "Screen 2 first-time senders". A "Read Together" button is visible in the top right. A search bar and a "Search" icon are at the top left. A "Write" button is in the top right corner.
- Middle Screenshot:** Shows a single email thread from "Julie". The subject is "Grammar Practice Guide" from "Mr. Ron Taylor". The message content discusses sending a vocabulary practice guide. The timestamp is 1:52. A "Read Together" button is visible in the top right.
- Right Screenshot:** Shows another single email thread from "Julie". The subject is "Food Drive for the Austin Food Bank" from "Stephanie Massey". The message content discusses helping with set-up and clean-up. The timestamp is 08:41. A "Read Together" button is visible in the top right.

<https://hey.com>



Complexity

Single Page Applications

“In general, many users find that **SPAs feel faster**, more responsive and offer a more straightforward experience than traditional multi-page apps.”

“It's also worth noting that SPAs are not only more convenient for the end-user, but **developers typically find them easier** to build and deploy than traditional ecommerce websites.”

Why Single Page Apps Are the Hottest Trend of 2020

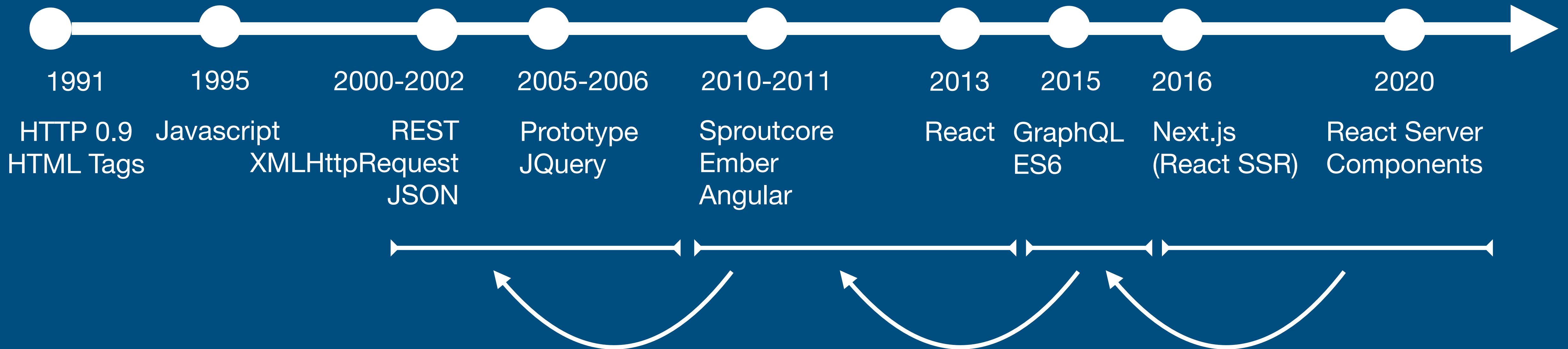
Faster?

Easier to develop?

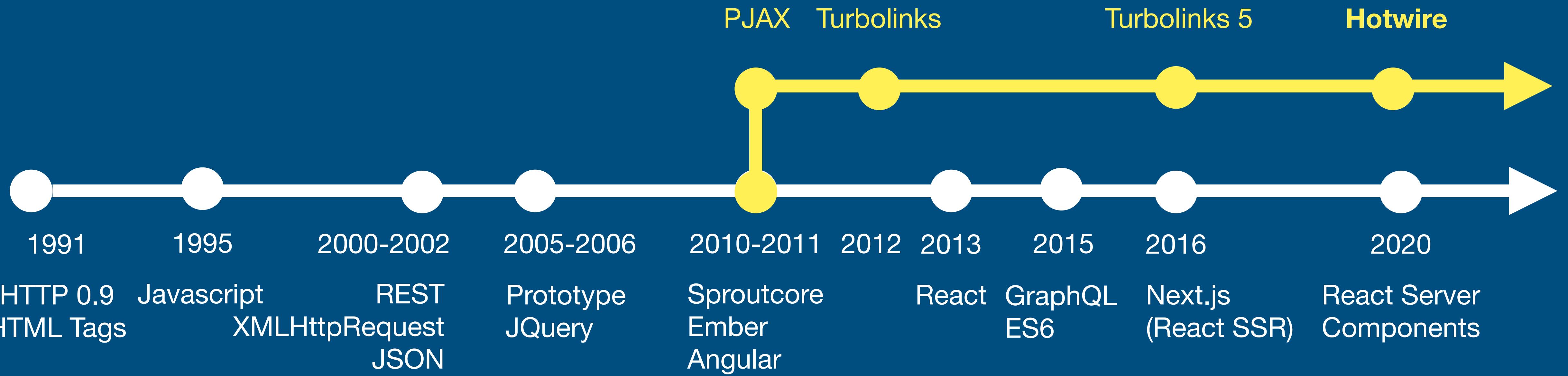
Additional app, with special data-interchange needs, that needs to manage its state, presentation and integrity in a persistent process running on an unreliable environment, that requires careful planning to be performant.

[Escaping the SPA rabbit hole with modern Rails](#)

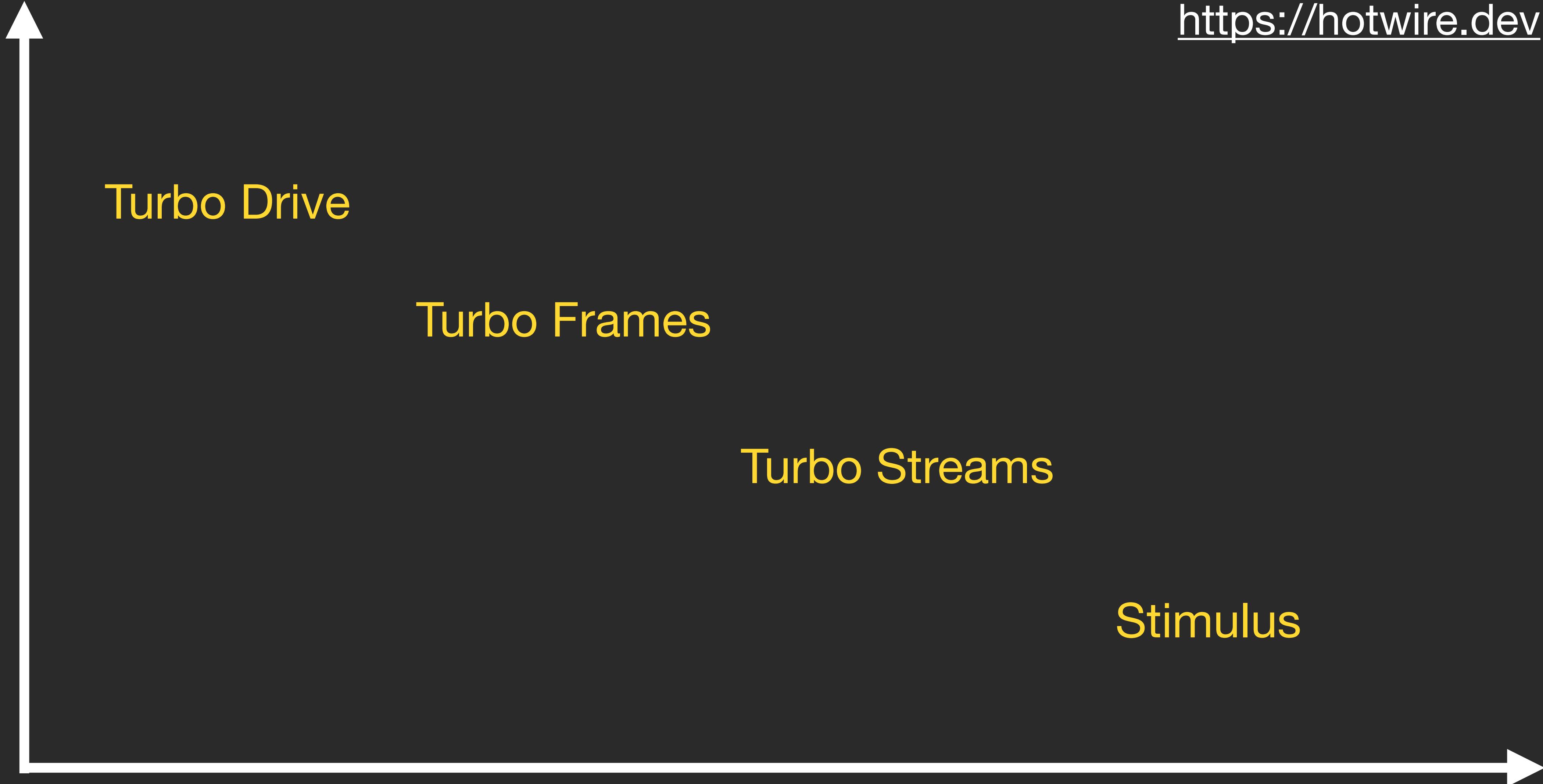
How did we end up here?



Problem restatement



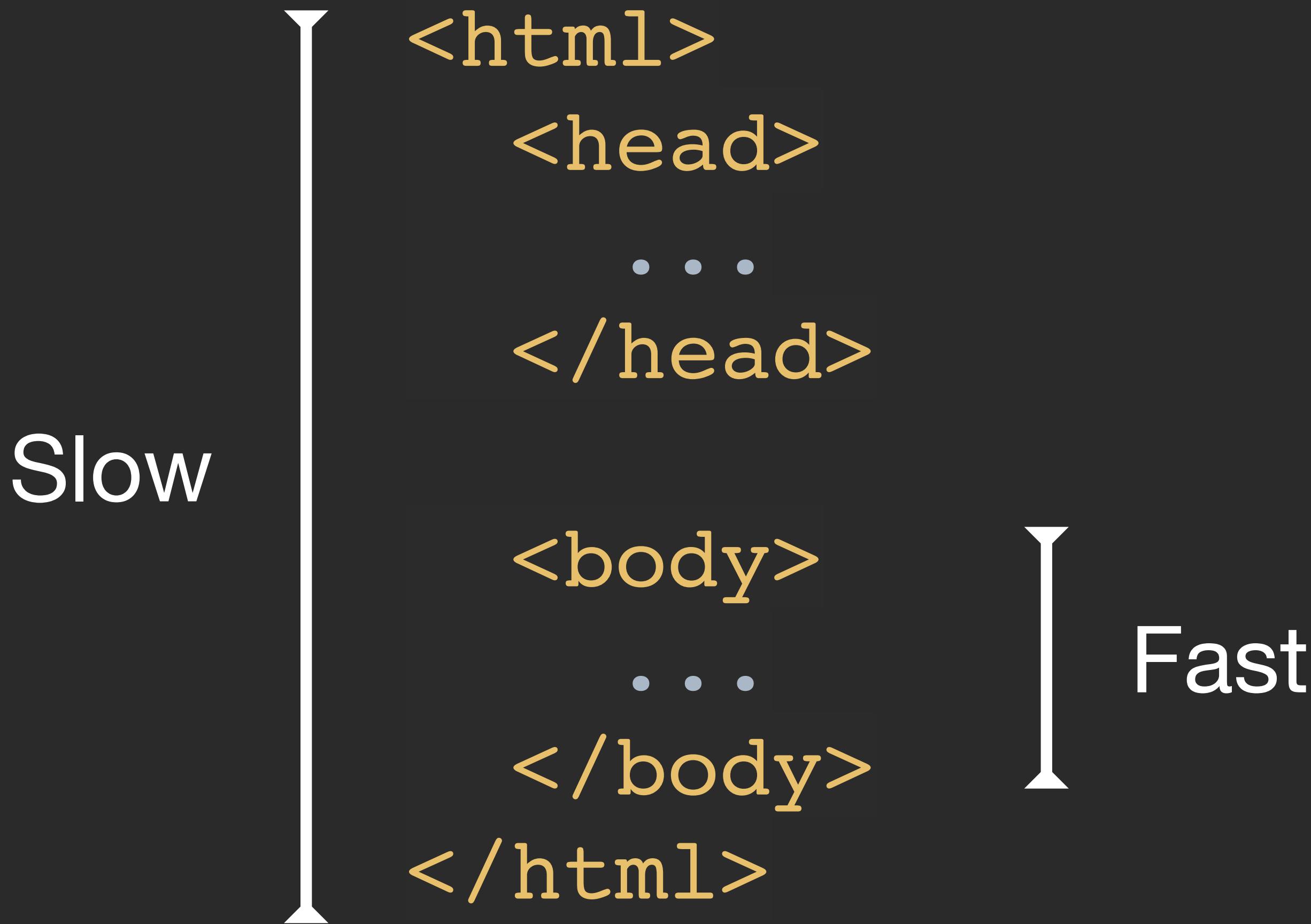
Usage surface



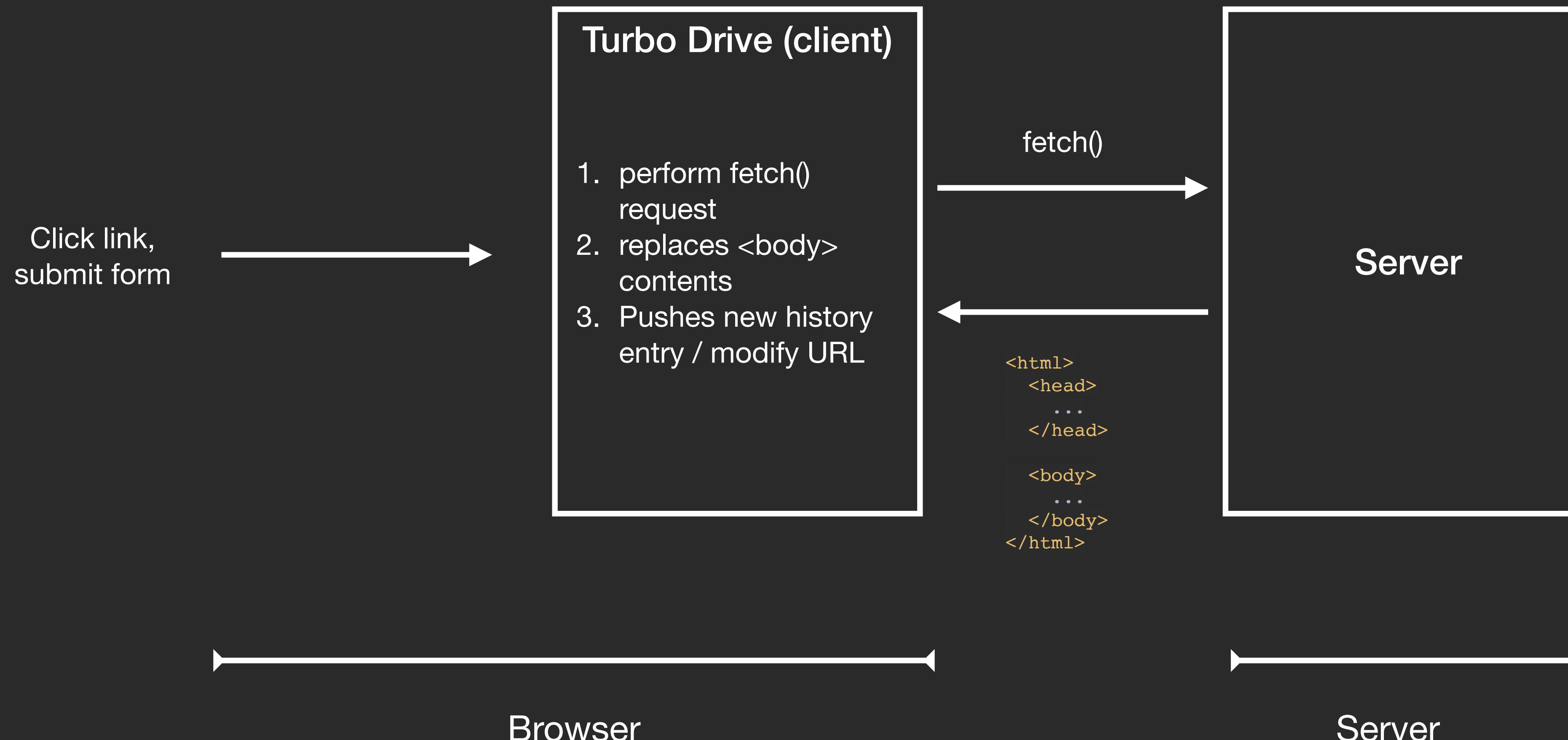
<https://hotwire.dev>

Interactivity needs

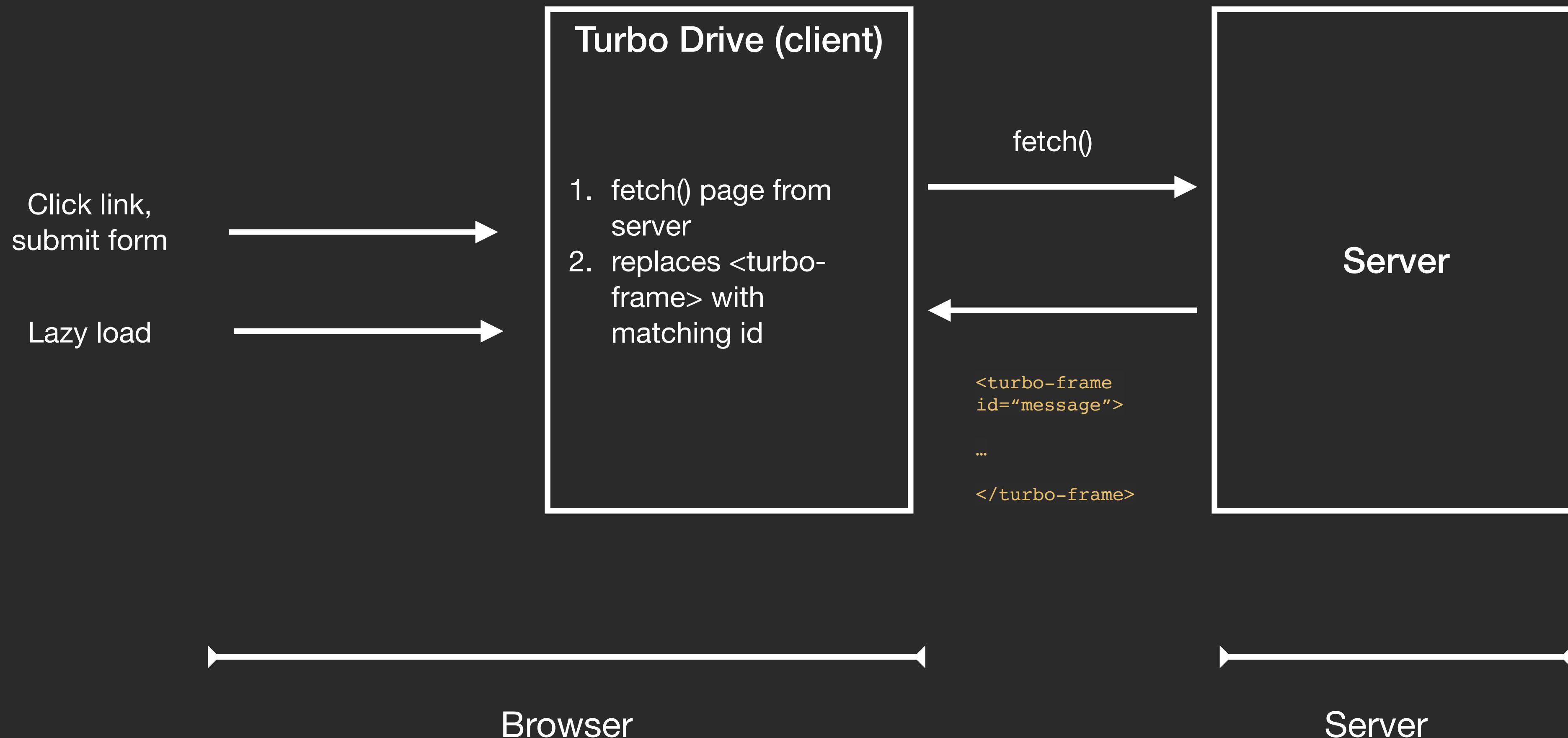
Replacement in a persistent process (without full page reload)



Turbo Drive: fast navigation



Turbo Frame: update parts of page



me_controller.rb

```
class MeController < ApplicationController
  def show
    @users = Current.identity.users.accessible
  end
end
```

me/show.html.erb

```
<div class="sheet sheet--flat@mobile">
  <turbo-frame id="my_stuff" target="_top">
    ...
    <nav class="...">
      <% @users.each do |user| %>
        ...
      <% end %>
    </nav>
  </turbo-frame>
</div>
```

Turbo Streams: fine-grained predefined updates

```
<turbo-stream action="append" target="messages">
  <template>
    ...
  </template>
</turbo-stream>

<turbo-stream action="prepend" target="messages">
  <template>
    ...
  </template>
</turbo-stream>

<turbo-stream action="update" target="unread_count">
  <template>
    ...
  </template>
</turbo-stream>

<turbo-stream action="remove" target="message_1">
  <template>
    ...
  </template>
</turbo-stream>
```

clearances_controller.rb

```
class ClearancesController < ApplicationController
...
def update
...
respond_to do |format|
  format.turbo_stream
  format.html { redirect_to clearances_url }
end
end
...
```

update.turbo_stream.erb

```
<%= turbo_stream.remove(@clearance) %>
```

Turbo Native: hybrid apps



~~An additional app, with special data-interchange needs, that needs to manage its state, presentation and integrity in a persistent process running on an unreliable environment, that requires careful planning to be performant.~~

Development costs

Most of the benefit
Fraction of the effort

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