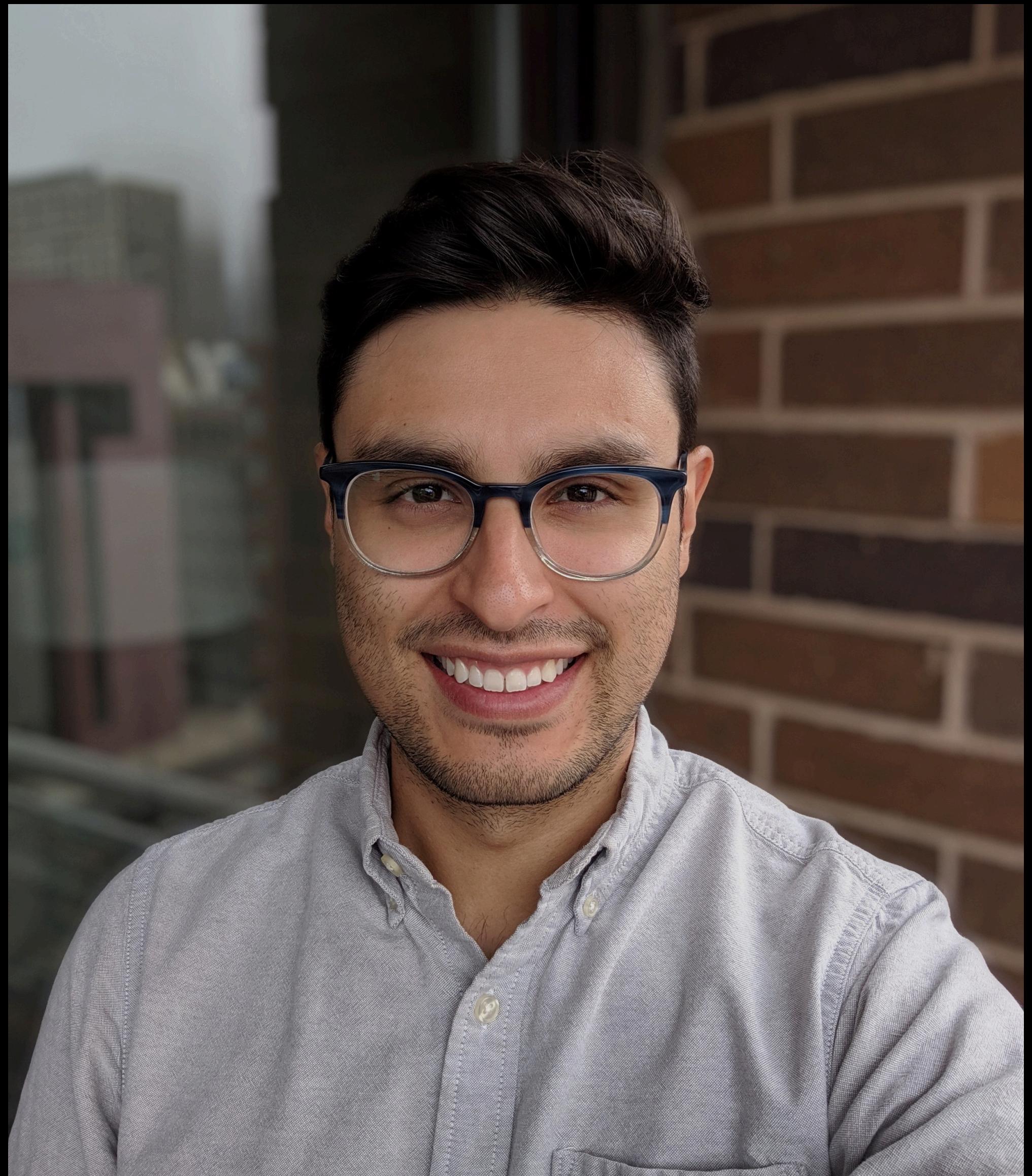


STEAL LIKE A PROGRAMMER

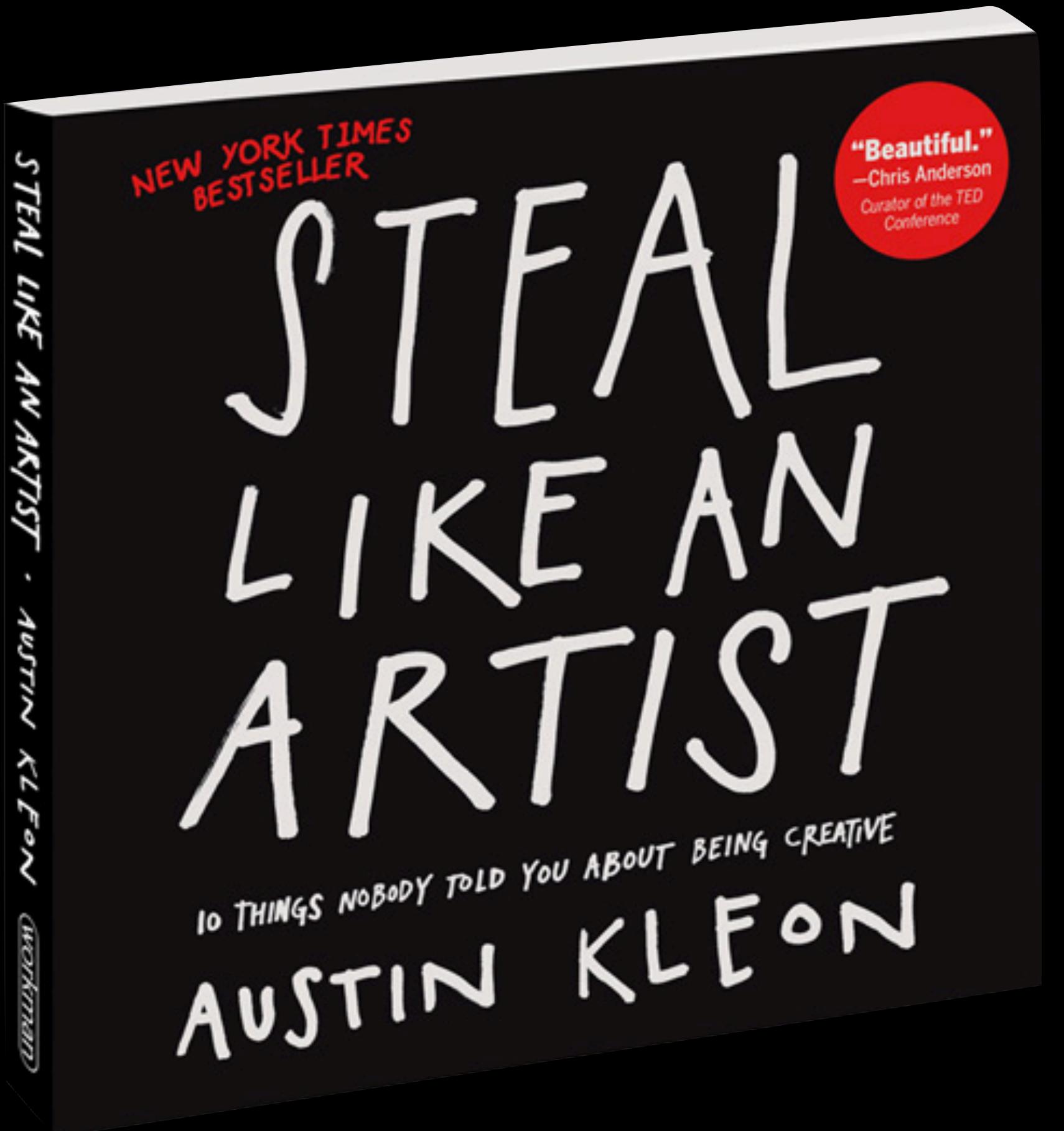
*Advice for solving tough
UI challenges on the web*

Hi! I'm Diego.

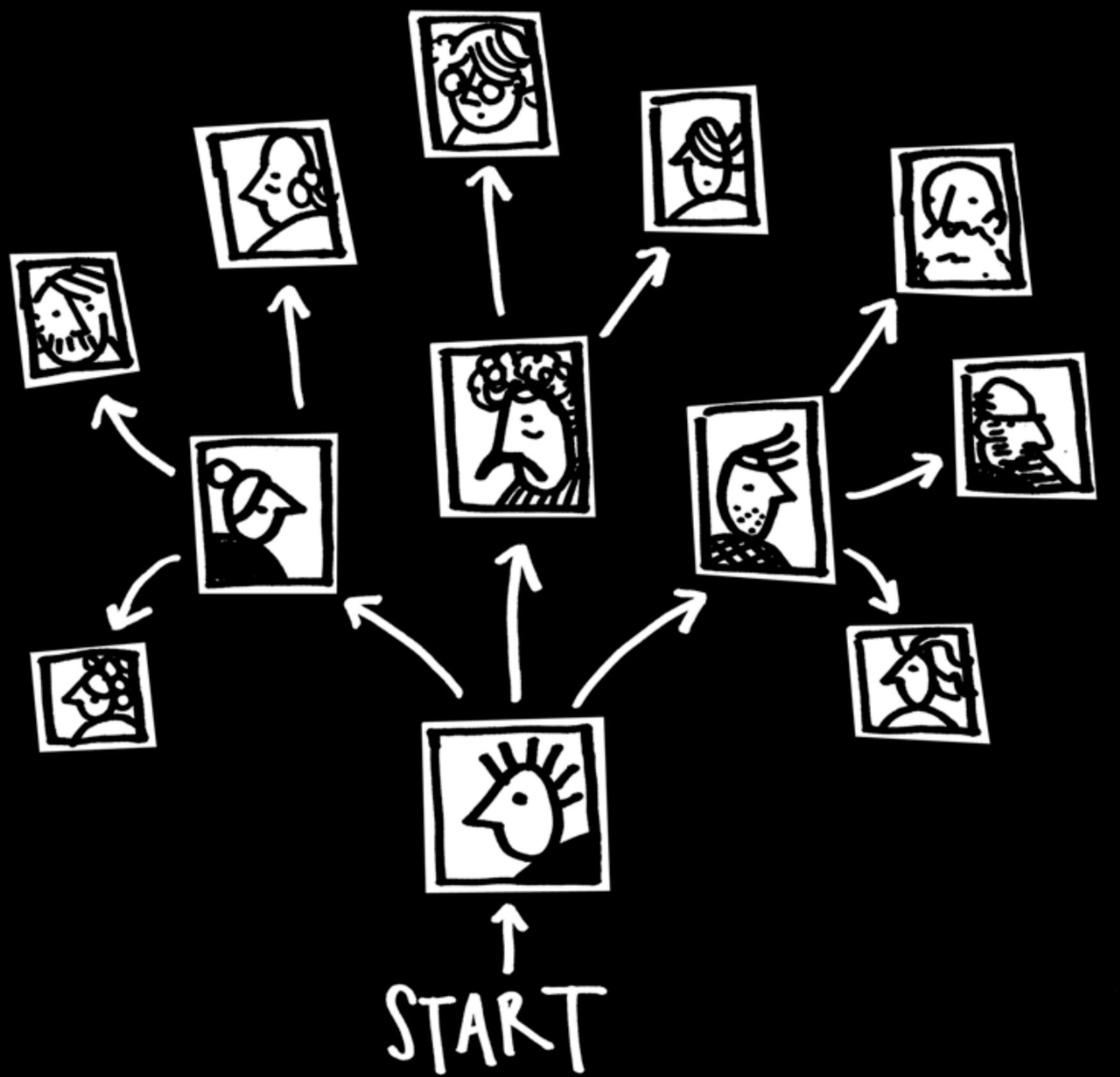
Slack: @diego

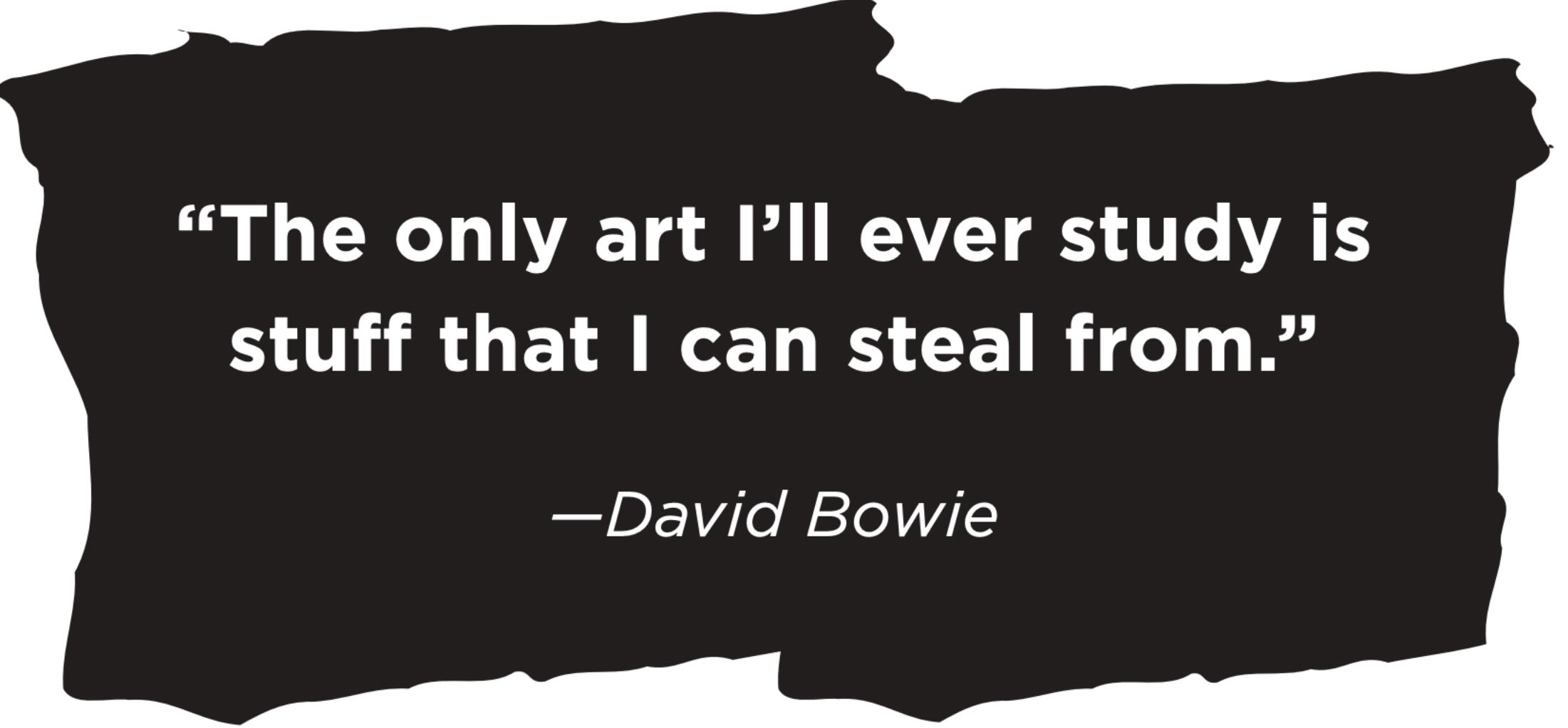


@diego_codes 2



*NOTHING
IS ORIGINAL.*



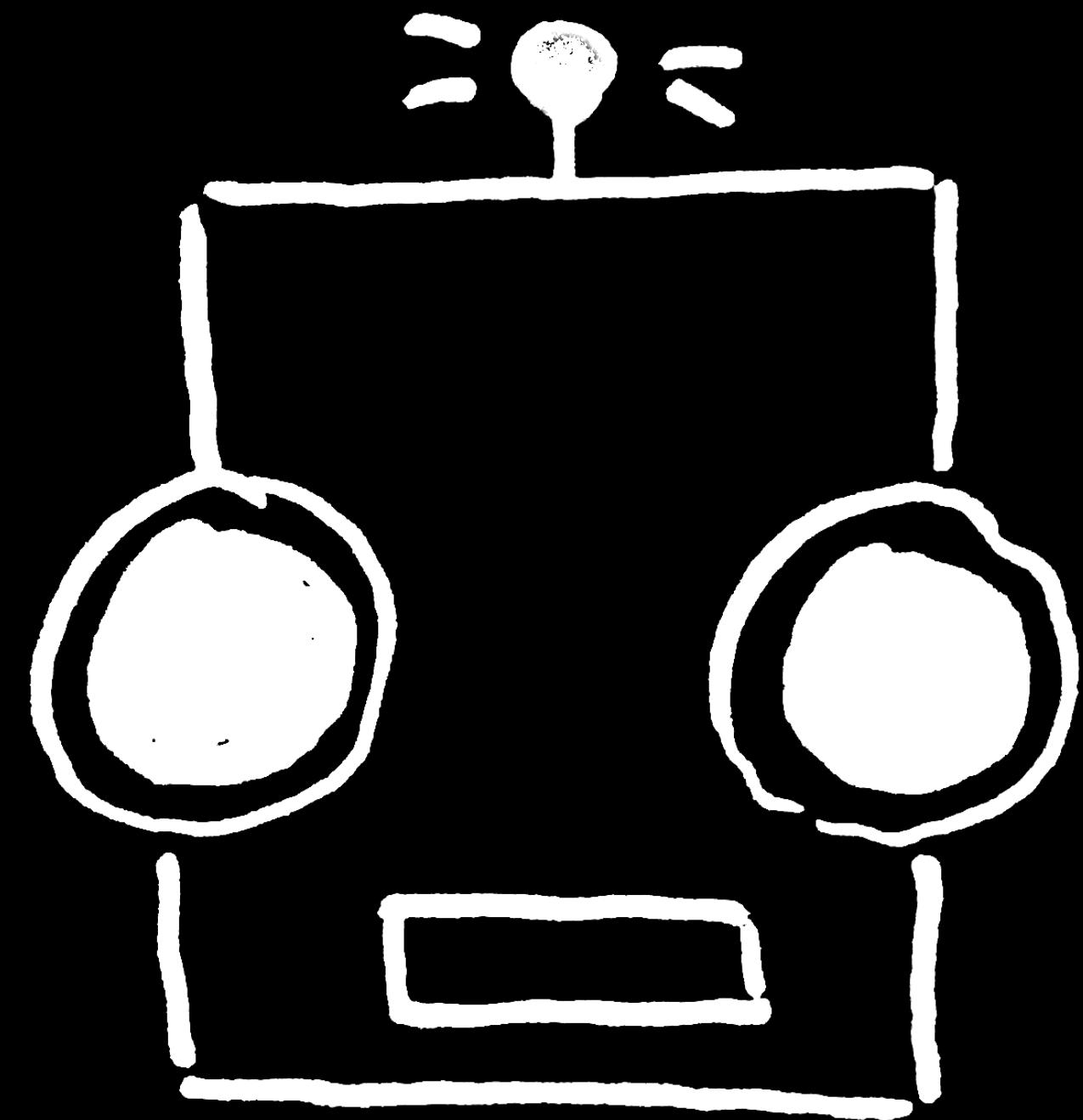


**“The only art I'll ever study is
stuff that I can steal from.”**

—David Bowie

WHAT IT'S LIKE TO BE A FRONT-END DEV

A brief tangent



What designers think I do



What managers think I do

*The web is our canvas.
Programming is our brush.*



The potential reward is high.

**THE RISK OF FAILURE
IS EVEN HIGHER.**

ADVICE TO MYSELF

1. *Involve yourself in the design process early.*
2. *Break insurmountable requirements into small, solvable chunks.*
3. *Find interactions that inspire and inform you.*
4. *Prototype a lot along the way.*
5. *Pair with your peers.*

1

INVOLVE YOURSELF IN THE DESIGN PROCESS

The screenshot shows the IBM Security Connect Data Explorer interface. At the top, there's a navigation bar with icons for Home, Data Explorer, and Settings, along with a user profile picture. Below the navigation is a toolbar with 'Query Builder' (which is selected, indicated by a blue underline), 'AQL', 'View in STIX' (with a toggle switch set to 'Off'), and a 'Hide' button.

The main area is titled 'Create a query for IPs, URLs, MD5 hashes, and more'. At the bottom of this area is a search bar with 'All data sources' and a 'Run query' button.

Below the search bar, the 'Active queries' section displays three results:

- STIX query**
URL facebook.com
Results: 10K
Data source: QRadar, QROC, Splunk
- STIX query**
[url:value = 'http://185.251.39.251/radiance.png' OR url:value = 'fitsir.me'] OR [ipv4-addr:value = '70.48.101...']
Results: 2.3K
Data source: QRadar, QROC, Splunk
- STIX query**
URL facebook.com
X
Data source: QRadar, QROC, Splunk
19 Nov 2018 7:55 AM - 8:25 AM

[url:value = 'anatomic.com' AND file:size = 'axxiss.exe']

The screenshot shows a dark-themed user interface for a query builder. At the top, there are tabs for "Query Builder" (which is selected) and "AQL". To the right of the tabs are buttons for "View in STIX" (disabled), "Off", "Hide", and a minimize/maximize icon. Below the tabs, the main query editor area contains the following text:
URL = anatomic.com X and FILE Size = axxiss.exe
A tooltip "A number is required" points to the word "Size".
At the bottom left, there is a red circular icon with a white exclamation mark and the text "The query contains a syntax error.". On the right side, there are buttons for "All data sources" (with a dropdown arrow) and "Run query".

Query Builder: Design system

The screenshot displays a query builder interface with several search filters and their resulting logical expressions.

Top Filter: aec070645fe53ee3b3763059376134f058cc337247c978add178b6ccdfb0019f

FILE SHA-256 = aec070645fe53ee3b... and FILE Type = PDF

[file:hashes.'SHA-256' = 'aec070645fe53ee3b3763059376134f058cc337247c978add178b6ccdfb0019f' AND file:mime_type = 'application/x-pdf']

DOMAIN NAME = www.5z8.info and DOMAIN NAME Resolves to = 198.51.100.1/32

[domain-name:value = 'www.5z8.info' AND domain-name:resolves_to_refs[*].value = '198.51.100.1/32']

(FILE Name = pdf.exe or FILE Size = 371712) and FILE Created = Jan 13 2014 7:03:17 AM

[(file:name = 'pdf.exe' OR file:size = '371712') AND file:created = 't'2014-01-13T07:03:17Z']

(USER Account type = Unix and USER ID = 1007) and (USER Account type = Unix and USER ID = 1008) and (USER Account type = Unix and USER ID = 1009)

[user-account:account_type = 'unix' AND user-account:user_id = '1007' AND user-account:account_login = 'Peter'] AND [user-account:account_type = 'unix' AND user-account:user_id = '1008' AND user-account:account_login = 'Paul'] AND [user-account:account_type = 'unix' AND user-account:user_id = '1009' AND user-account:account_login = 'Mary']

Sometimes the property is needed...

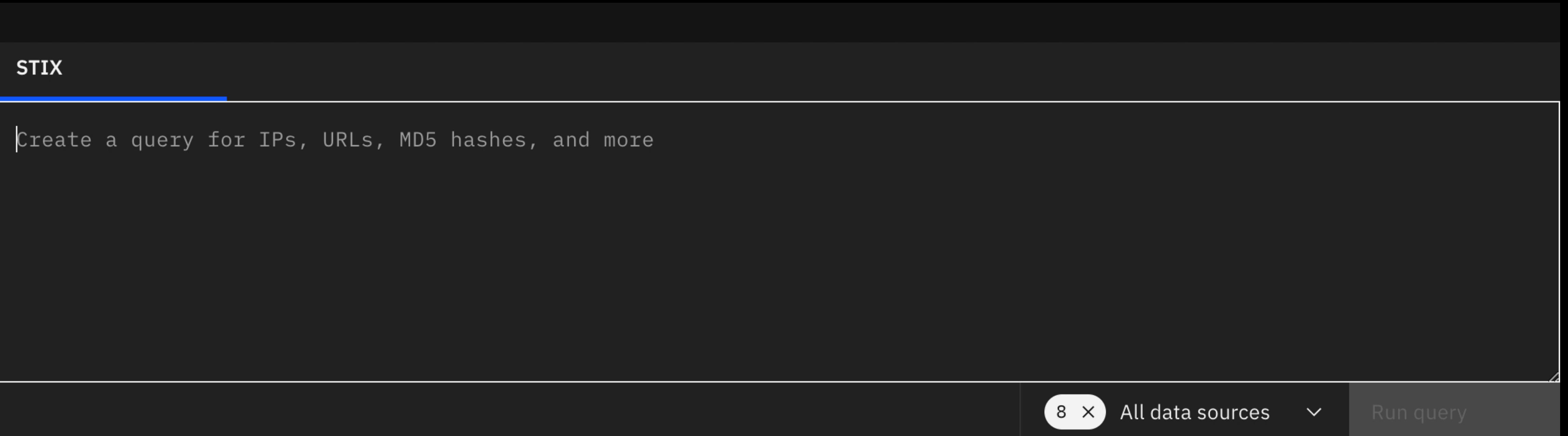
FILE Size = 371712
NETWORK TRAFFIC Source Port = 443
FILE MD5 = a8ad337cddfee51b534h3d432h...
USER Account type = Unix
USER Account login = Mary
USER ID = 1009
DOMAIN NAME Resolves to = 198.162.0.2/34

and sometimes it isn't.

IPV4 = 192.168.0.3

Timeframe

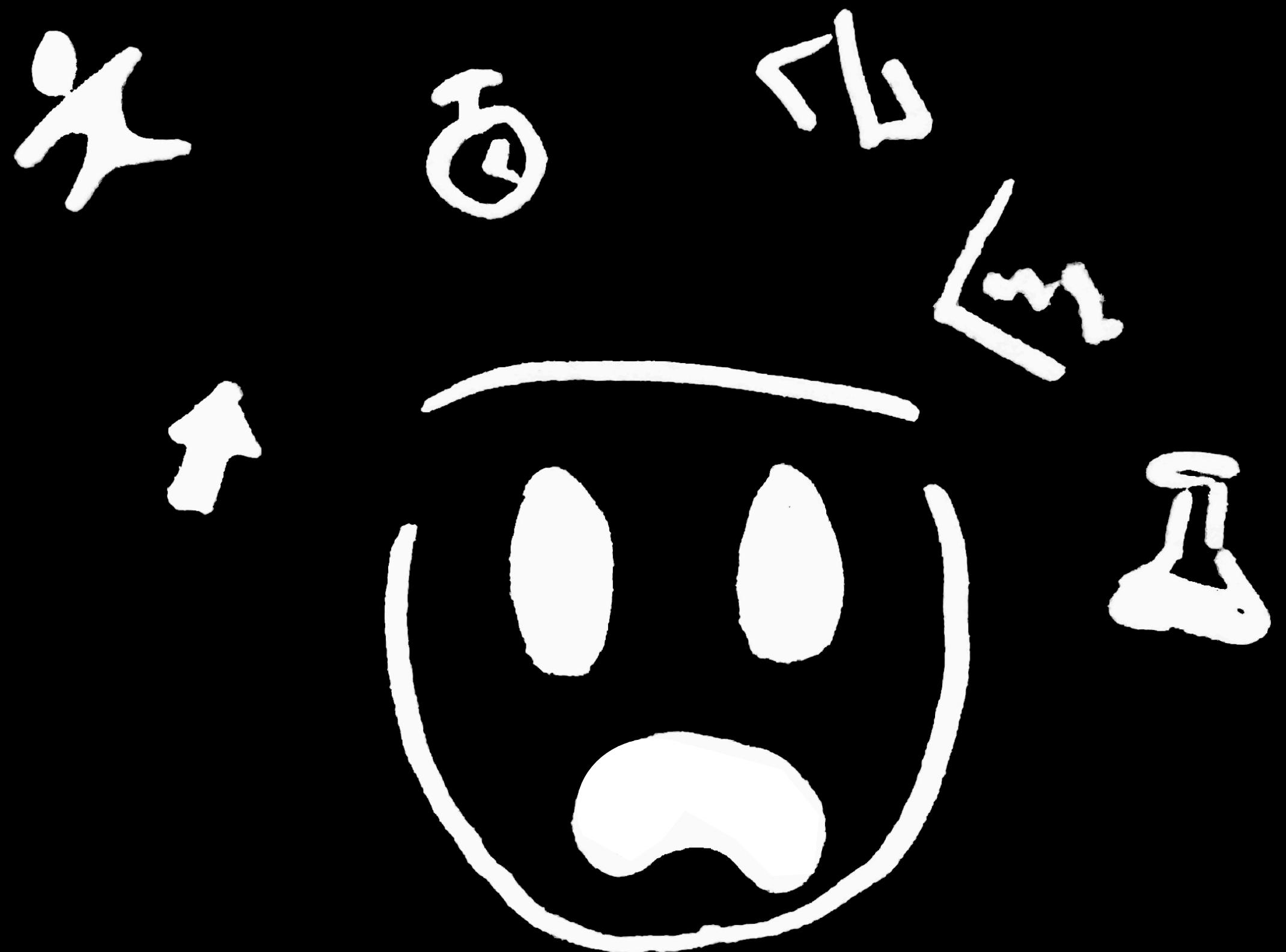
START 23 Jun 2018 1:00:14 AM STOP 23 Jun 2018 12:05:19 PM
LAST 5 minutes



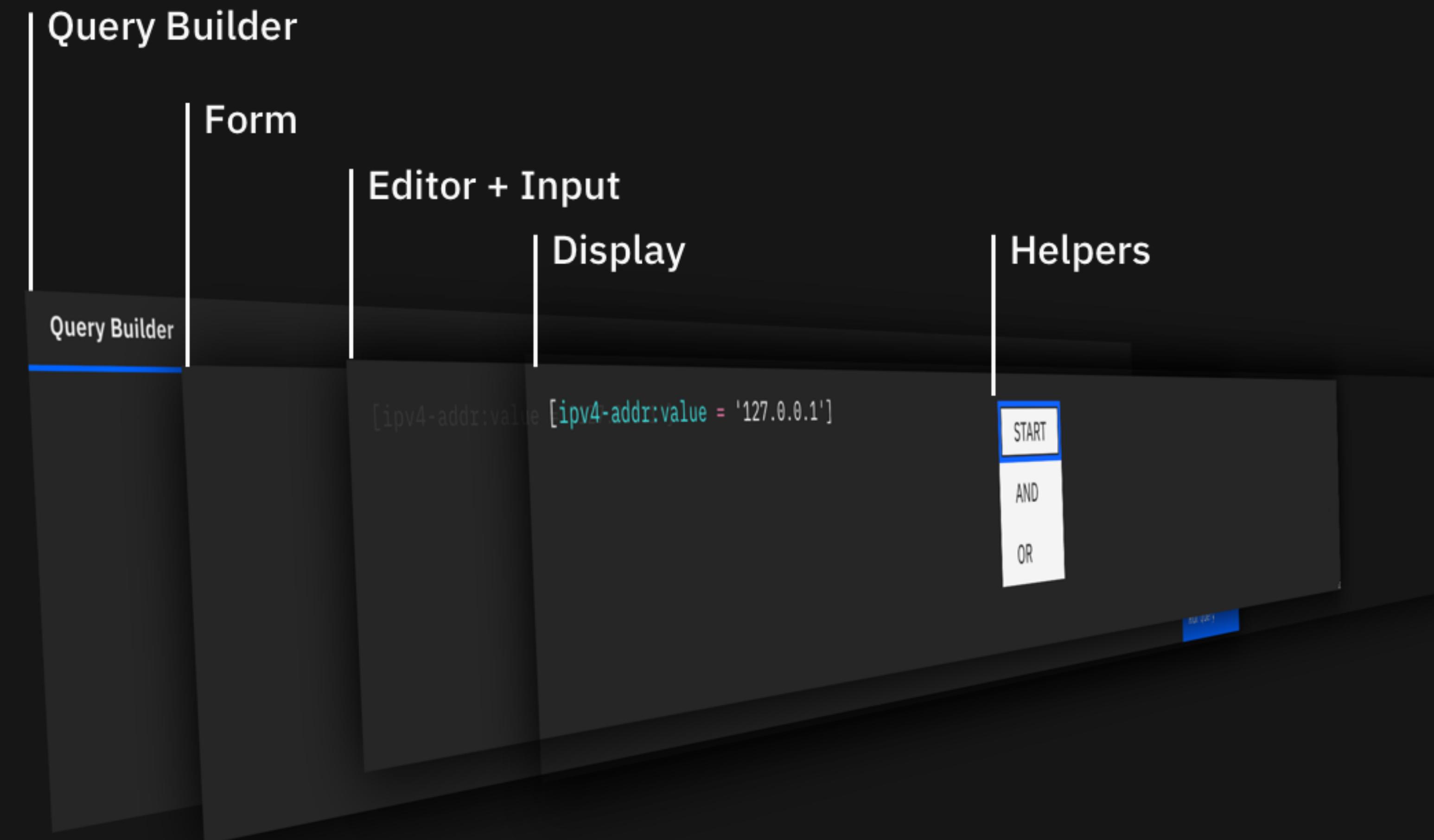
2

**BREAK INSURMOUNTABLE
REQUIREMENTS INTO
SMALL, SOLVABLE CHUNKS**

**DO THE MOST
PAINFUL THING OFTEN**



**"IF I DELIVER THIS ONE THING
BY ITSELF, WILL IT PROVIDE
VALUE TO MY USERS?"**



3

**FIND INTERACTIONS
THAT INSPIRE
AND INFORM YOU**

Breakpoints on event handlers

The screenshot shows a browser developer tools window with a DOM tree on the right and a spell checker overlay on the left.

Spell Checker Overlay:

- Header: "Connect this pull request with..."
- Text: "Correct your spelling"
- Buttons:
 - Well** (highlighted)
 - IGNORE**
 - SEE MORE IN GRAMMARLY**
- Message: "Well done!" (with a red underline)
- Text at the bottom: "Attach files by dragging & dropping, so..."

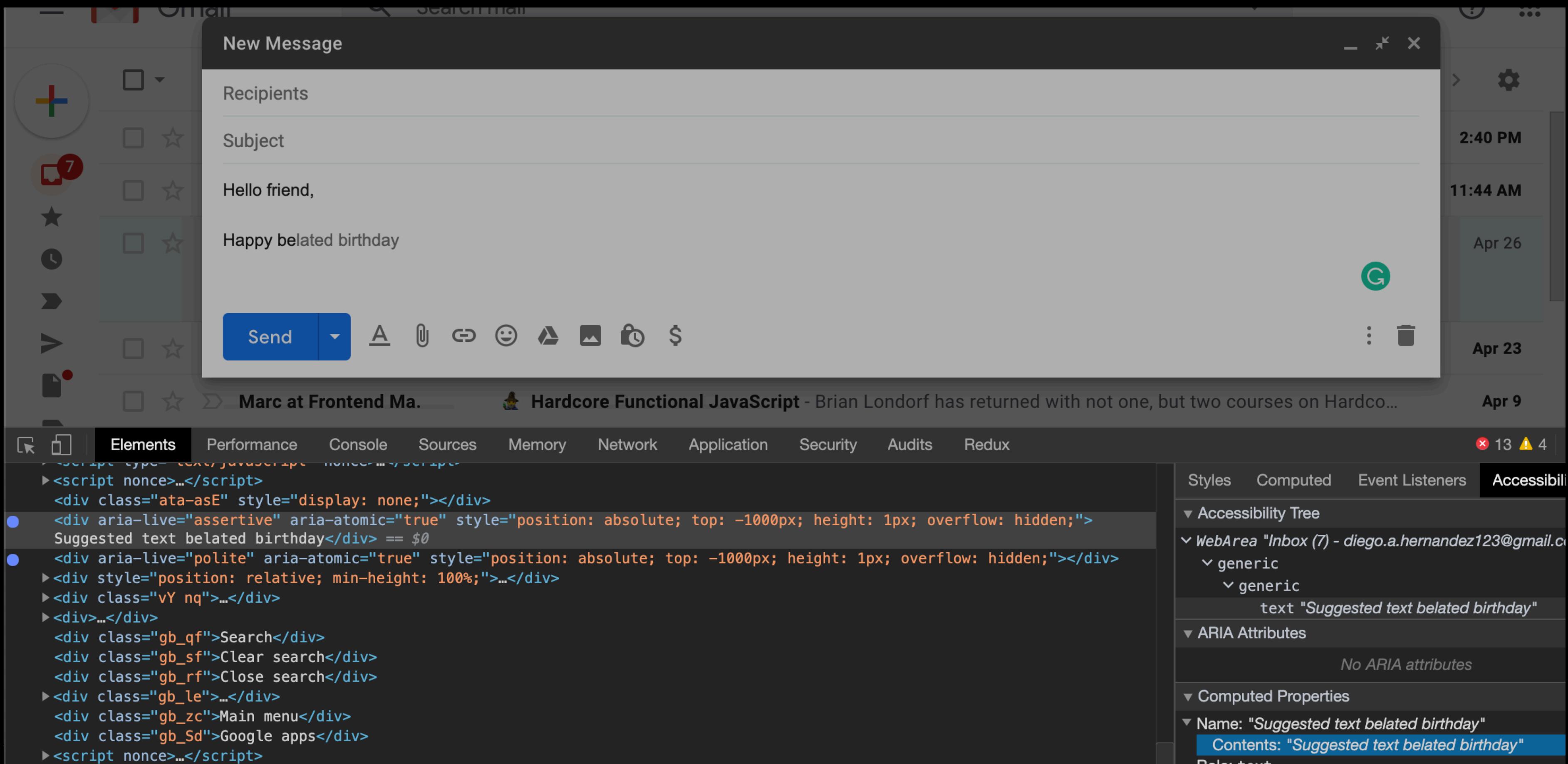
DOM Tree (highlighted node):

```
</body>
▶<div class="zh-login-status" style="display: none;">...</div>
▶<grammarly-mirror class="_1KJtL">...</grammarly-mirror>
▼<grammarly-popups class="_1KJtL">
...
  ▼<div data-grammarly-part="inline-card" class="_20tTk" style="position: fixed; top: 271.703px; left: 85px; z-index: 2147483644;">
    ▼<div class="Bd307">
      ▼<div class="zWhnG">
        ▼<div class="z3mOJO _1QK5F">
          <div class="1hgd_">correct your spelling</div>
        ▼<span class="39wr->">
          ▼<span class="2vDhI">
            ▼<span class="33x6N">
              <span>Well</span>
            </span>
          </span>
        </span>
      </span>
    </div>
  </div>
</div>
```

Toolbars and Buttons:

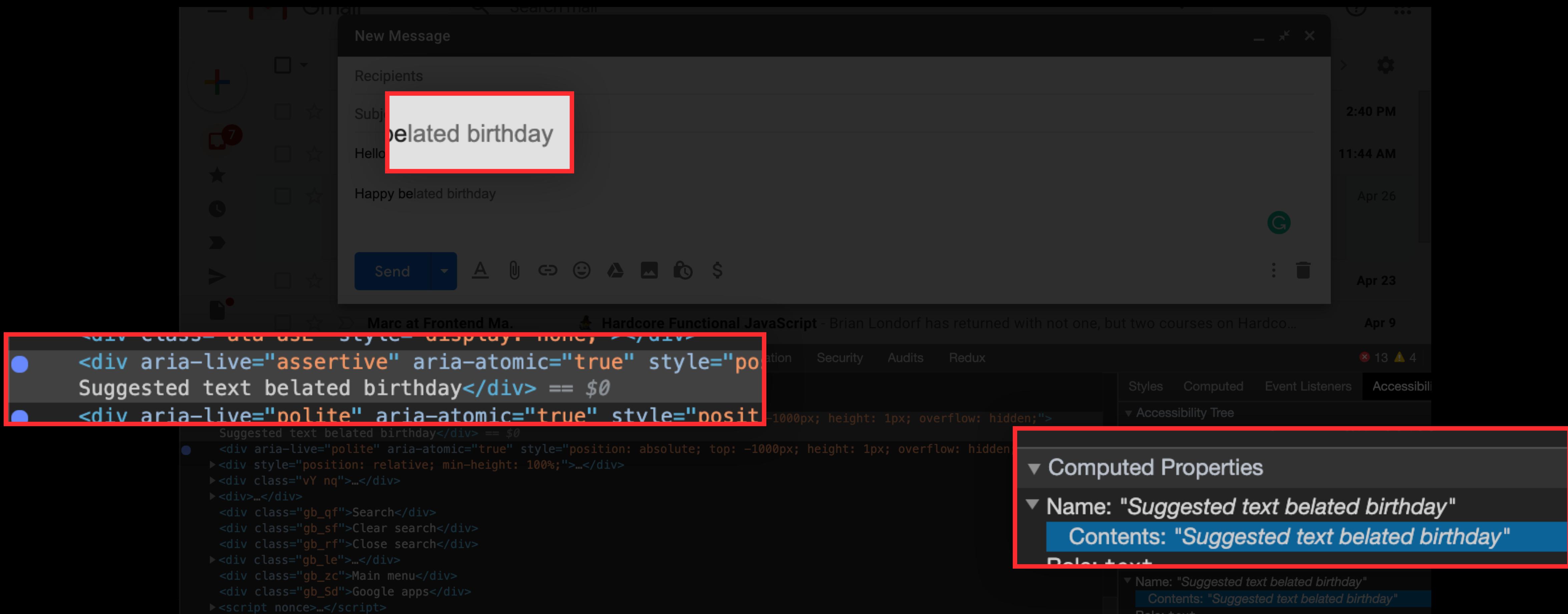
- html grammarly-popups._1KJtL div._20tTk
- Styles Event Listeners DOM Breakpoints Properties Accessibility

Breakpoints on DOM changes



@diego_codes

Accessibility inspector



@diego_codes

Styles inspector

Inspecting network traffic

A word about

PLAGIARISM

4

PROTOTYPE A LOT ALONG THE WAY

Type your search

Type a country name:

Vanilla JS

Testing undo/redo

Type text to add:

Add text

React

Testing undo/redo

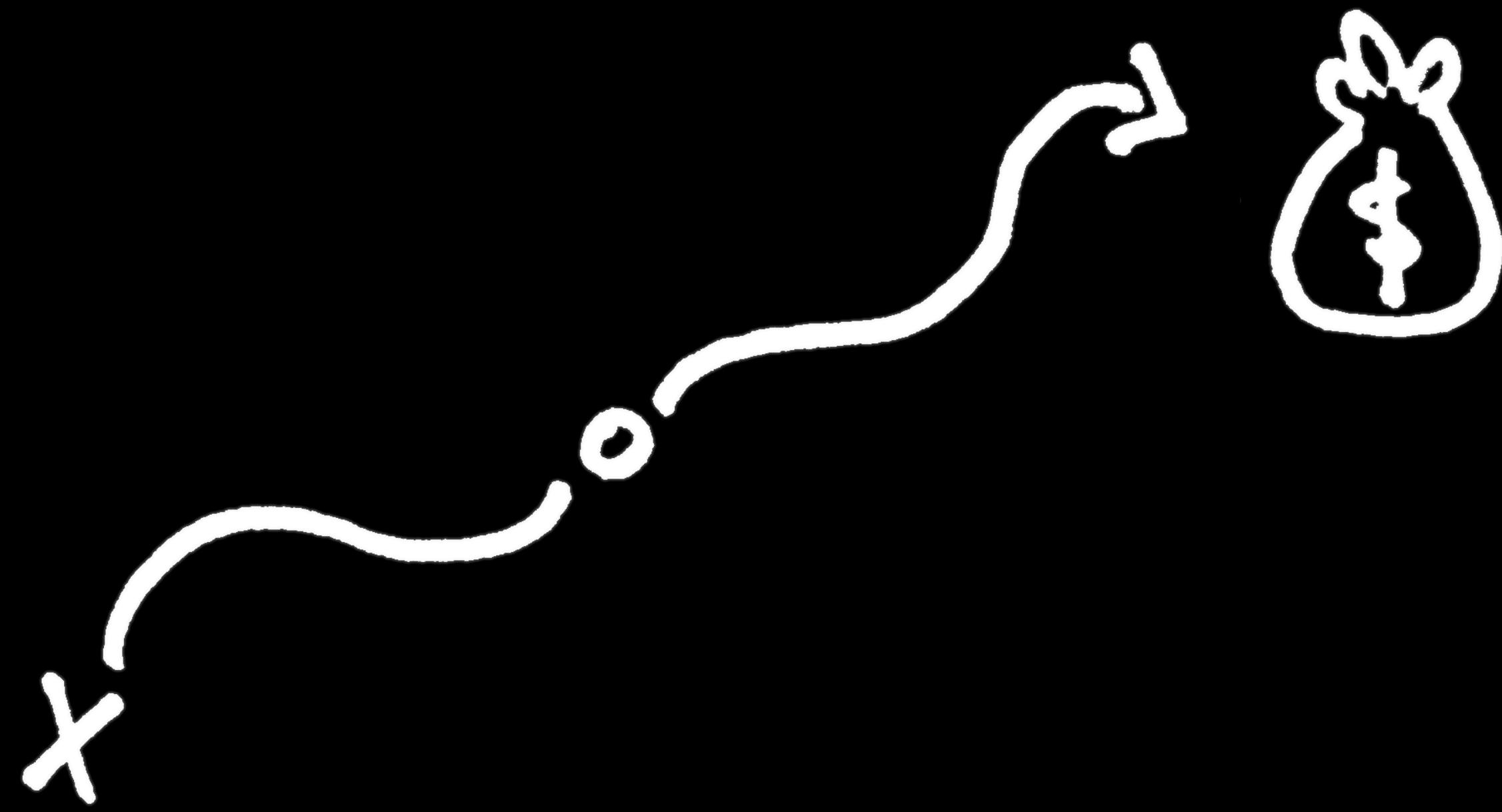
Type text to add:

Add text

**KEEP PROTOTYPES
SMALL AND FOCUSED**

5

PAIR WITH YOUR PEERS



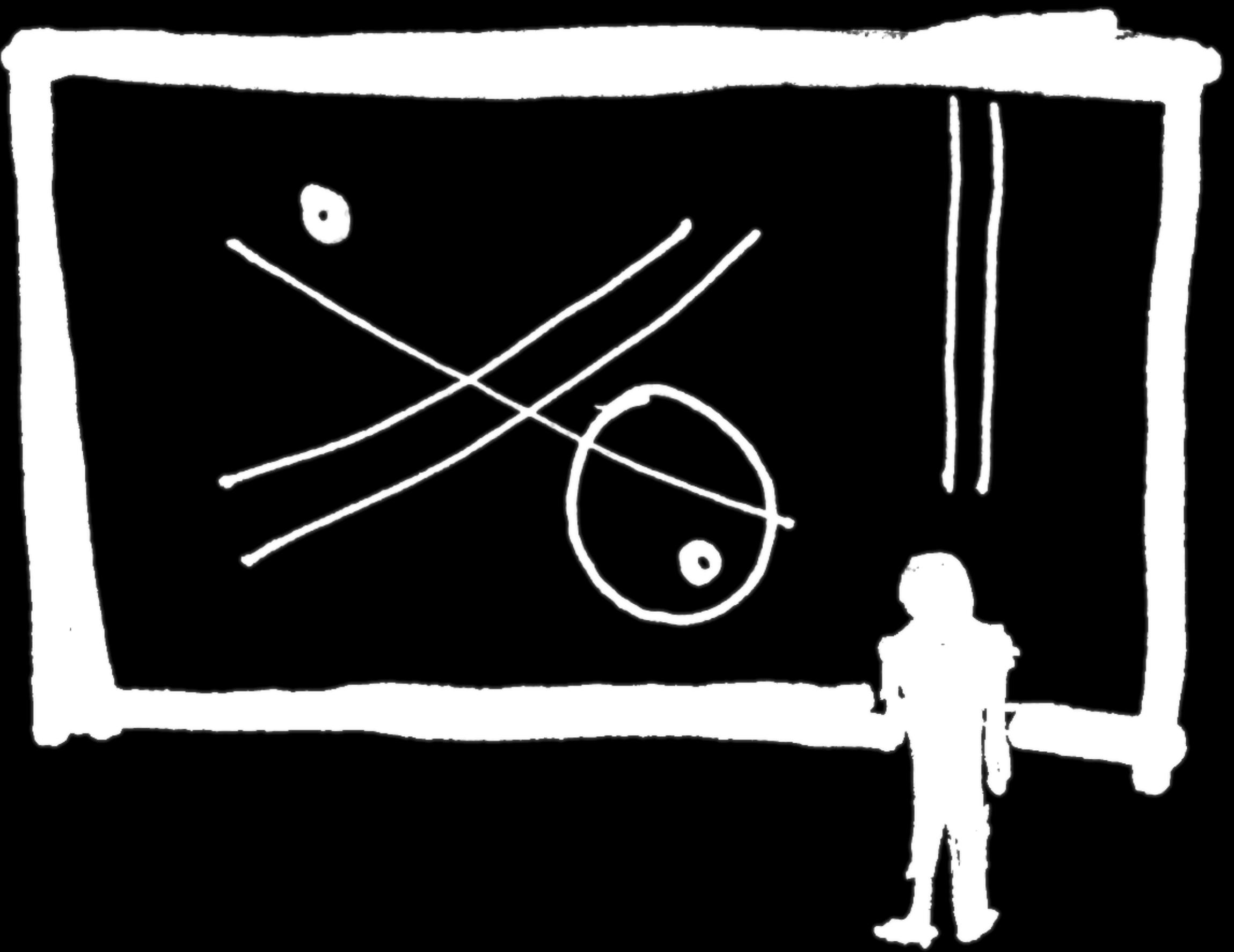
Webex screen sharing

CodePen collab mode

VSCode live share

Bonus

**SEEK INSPIRATION
ELSEWHERE**



1. *Involve yourself in the design process early.*
2. *Break insurmountable requirements into small, solvable chunks.*
3. *Find interactions that inspire and inform you.*
4. *Prototype a lot along the way.*
5. *Pair with your peers.*

SHOUT OUT TO MY PEEPS!

*Josh Kimmell, Jimmy Dyer, Jen Downs,
Nathan Sherwood, Alex Reddon, and
Gehad Elrobe*

QUESTIONS?

Slack: @diego

THANK YOU!