


```
$('.a-badge-text:contains("Best Seller")')[0].closest('div[data-component-type="s-search-result"]').find('h2 span.a-text-normal')
```

FREE Shipping on orders over \$25 shipped by Amazon

Best Seller



Crest 3D White Toothpaste Radiant Mint (3 Count of 4.1 oz Tubes), 12.3 oz (Packaging May Vary)

Radiant Mint · 4.1 Ounce (Pack of 3)

★★★★★ ~ 37,330

\$9¹⁸ (\$0.75/Ounce) ~~\$12.59~~


\$8.72 with Subscribe & Save discount

Save \$5.00 when you buy \$20.00 of select items


prime Get it as soon as **Sun, May 9**

FREE Shipping on orders over \$25 shipped by Amazon

Best Seller



2



Crest + Scope Complete Whitening Toothpaste, Minty Fresh, 5.4 oz, Pack of 3

★★★★★ ~ 25,194


\$6¹² (\$0.58/Ounce) ~~\$8.77~~

Save more with Subscribe & Save

prime Get it as soon as **Sun, May 9**

FREE Shipping on orders over \$25 shipped by Amazon

Amazon's Choice



```

type="s-search-result" class="sg-col-4-of-12 s-result-item s-asin sg-col-4-of-16 AdHolder sg-col sg-col-4-of-20
data-component-id="115" data-cel-widget="search_result_2">...</div>
<div data-asin="B0762LYFKP" data-index="3" data-uid="c760629f-b420-4a61-8b60-9bd3d894b13d" data-component-
type="s-search-result" class="sg-col-4-of-12 s-result-item s-asin sg-col-4-of-16 AdHolder sg-col sg-col-4-of-20
data-component-id="117" data-cel-widget="search_result_3">...</div>
<div data-asin="B07L625K8T" data-index="4" data-uid="023dcace-b3e6-400a-996a-8886096e5190" data-component-
type="s-search-result" class="sg-col-4-of-12 s-result-item s-asin sg-col-4-of-16 AdHolder sg-col sg-col-4-of-20
data-component-id="119" data-cel-widget="search_result_4">...</div>
<div data-asin="B01KZ0TRG8" data-index="5" data-uid="420f9518-45f2-414d-a9e6-c0669d6f05d8" data-component-
type="s-search-result" class="sg-col-4-of-12 s-result-item s-asin sg-col-4-of-16 sg-col sg-col-4-of-20" data-
component-id="121" data-cel-widget="search_result_5">
  <div class="sg-col-inner">
    ::before
    <span cel_widget_id="MAIN-SEARCH_RESULTS-5" class="celwidget slot=MAIN template=SEARCH_RESULTS widgetId=se
rch-results" data-csa-c-id="gsnd27-tz8qxw-k1lg3y-92bw8m" data-cel-widget="MAIN-SEARCH_RESULTS-5">
      <div class="s-expand-height s-include-content-margin s-border-bottom s-latency-cf-section">
        ::before
        <div class="a-section a-spacing-medium">
          <div class="a-section a-spacing-micro s-grid-status-badge-container">
            <a class="a-link-normal" href="/gp/bestsellers/hpc/10079992011/ref=sr_bs_4_10079992011_1">
              <span data-component-type="s-status-badge-component" class="rush-component" data-component-props=
{"badgeType":"best-seller","asin":"B01KZ0TRG8"}" data-component-id="12">
                <div class="a-row a-badge-region">
                  ::before
                  <span id="B01KZ0TRG8-best-seller" class="a-badge" aria-labelledby="B01KZ0TRG8-best-seller-lab
B01KZ0TRG8-best-seller-supplementary" data-a-badge-supplementary-position="right" tabindex="0"
data-a-badge-type="status">
                    <span id="B01KZ0TRG8-best-seller-label" class="a-badge-label" data-a-badge-color="sx-orange
aria-hidden="true">
                      <span class="a-badge-label-inner a-text-ellipsis">
                        <span class="a-badge-text" data-a-badge-color="sx-cloud">Best Seller</span> == $0
                      </span>
                    </span>
                    <span id="B01KZ0TRG8-best-seller-supplementary" class="a-badge-supplementary-text a-text-el
psis" aria-hidden="true">in Oral Care Products</span>
                  </span>
                </div>
              </div>
            </a>
          </div>
          <span data-component-type="s-product-image" class="rush-component" data-component-id="13">...</span>
          <div class="a-section a-spacing-none a-spacing-top-small">
            <h2 class="a-size-mini a-spacing-none a-color-base s-line-clamp-4">
              <a class="a-link-normal a-text-normal" href="/Crest-White-Toothpaste-Radiant-Mint/dp/B01KZ0TRG8/
f=sr_1_5?crid=50A8_hlid=16keywords=toothpaste&id=1620344613&srefix=tooth%2Caps%2C164&sr=8-5">
                <span class="a-size-base-plus a-color-base a-text-normal">
                  "Crest 3D White Toothpaste Radiant Mint (3 Count of 4.1 oz Tubes), 12.3 oz (Packaging May
                  Vary)"
                </span>
              </a>
            </h2>
          </div>
        </div>
      </div>
    </div>
  </div>

```

1

3

[Larger copy of **Figure 1**] To query the Amazon DOM for the first “Best Seller” and get the item's name, (1) query for the first “Best Seller” label, (2) query for its ancestor that represents the full item, and then (3) query for the item name.

Current file: `medium.js`
Delete
--Choose a different file--
New File

Run

```

1  {
2    {
3      "paramName1": "val1",
4      "paramName2": "val2"
5    }
6  }

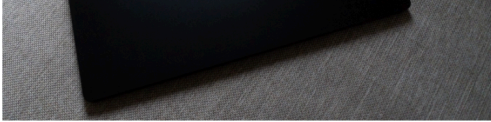
```

```

1  // Write your script here
2  await page.goto("https://medium.com/topic/programming");
3  await page.waitFor(1000);
4
5  const authorElements = await page.$$(".bh.b.bj.aq a");
6


```

{"paramName1":"val1","paramName2":"val2"}
Back Forward https://medium.com/topic/programming



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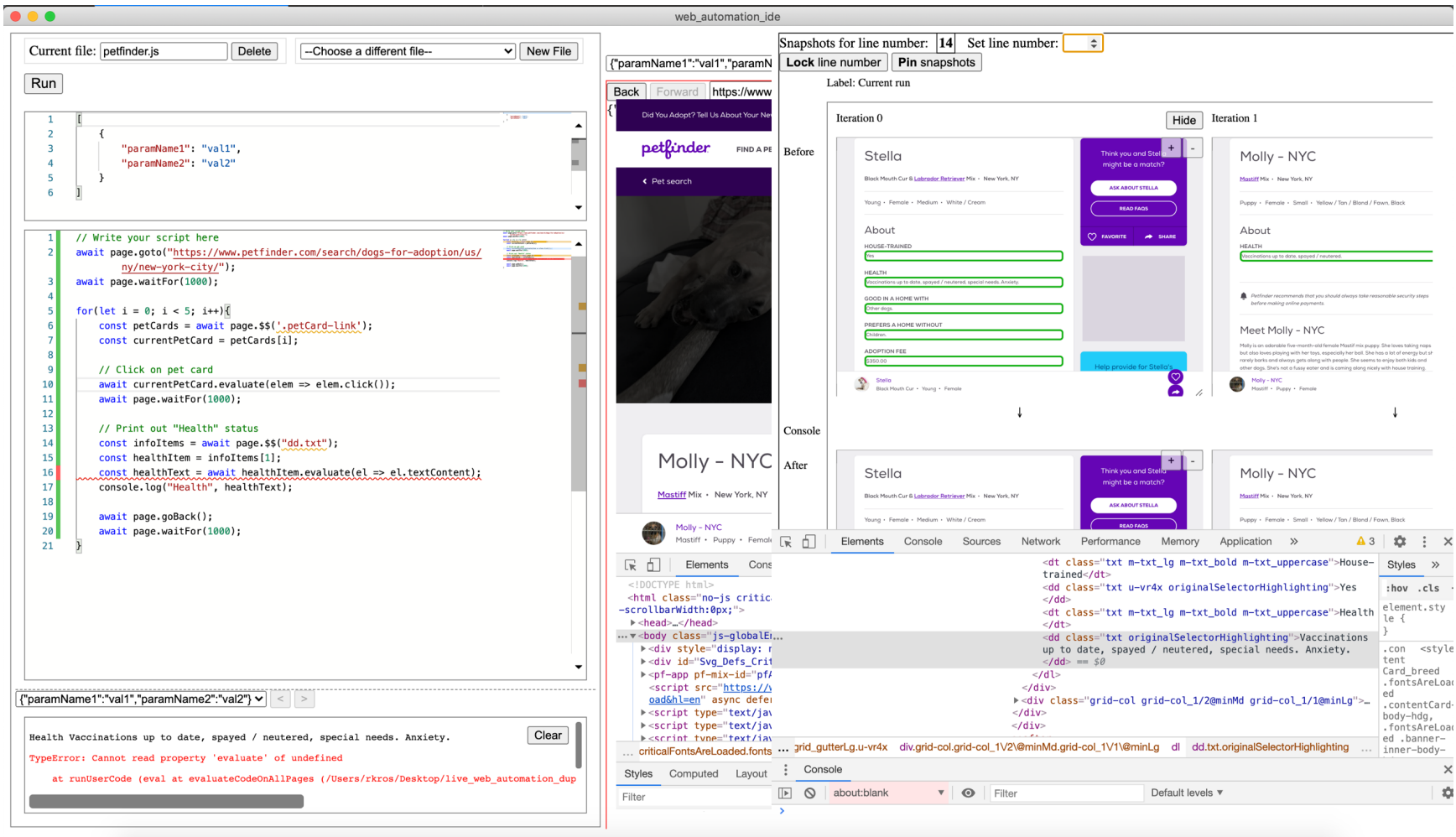
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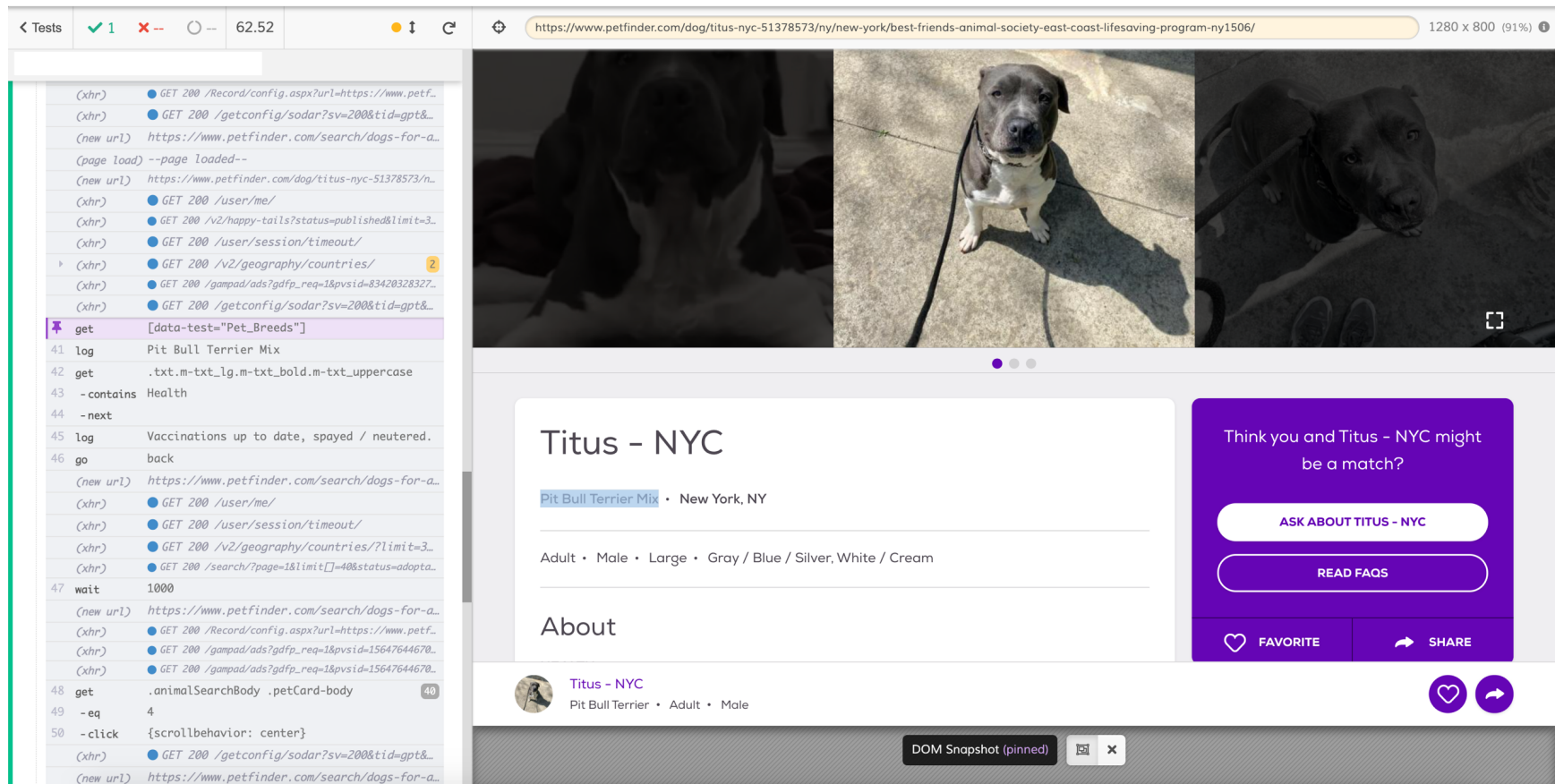
Elements Console Sources Network Performance

0----->_m
<div class="bg s">
 <div class="bh b gp bj aq">
 Owen Williams == \$0
 >_m
 </div>
 ><div class="n o">_m</div>

[Larger copy of **Figure 2**] It is challenging to select an author link on Medium because the `<a>` element does not have a semantic or specific selector. Instead, the parent `<div>` has a unique set of classes, so the programmer includes those in the selector `--.bh.b.bj.aq a`. Our prototype immediately highlights all matching elements on the page with a blue border, and lets the programmer see that they are mistakenly selecting not only author links but also publications.



[Larger copy of **Figure 3**] Our prototype lets users inspect UI snapshots per line of code, across execution contexts. Here, the script has failed in the $i=1$ iteration of the loop, and the snapshots illustrate why. The UI snapshots for line 14 indicate that Stella ($i=0$) has five info elements (highlighted with a green border) matching selector `dd.txt` whereas Molly ($i=1$) only has one, which explains why the `infoItems[1]` indexing on line 15 failed for Molly's page.



[Larger copy of **Figure 4**] Cypress running a script that scrapes data from the Petfinder website. The user can hover or click on a particular command to see the UI state at that point in the execution, here item 40 [data-test="Pet_Breeds"] is selected. The matched element ("Pit Bull Terrier Mix") is highlighted in the website view on the right.