Sporadic Retail Inflation

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* To avoid confusion & speculation, the surnames are not a coincidence: Emma is Andrew’s daughter.
How to get screwed on Valentine’s Day
Current retail pricing data.
Historical retail pricing data.
So we gathered some data.

* Actually we built a web scraping framework to systematically gather those data.
And wrapped it in an API.
<table>
<thead>
<tr>
<th>Method</th>
<th>URL</th>
</tr>
</thead>
<tbody>
<tr>
<td>GET</td>
<td>/retailer</td>
</tr>
<tr>
<td>GET</td>
<td>/retailer/{id}</td>
</tr>
<tr>
<td>HEAD</td>
<td>/retailer/{id}/product</td>
</tr>
<tr>
<td>GET</td>
<td>/retailer/{id}/product</td>
</tr>
<tr>
<td>HEAD</td>
<td>/product/{id}/price</td>
</tr>
<tr>
<td>GET</td>
<td>/product/{id}/price</td>
</tr>
</tbody>
</table>
[{
"product_id": 531589,
"time": "2020-02-22T01:00:32+00:00",
"price": 55,
"price_promotion": null,
"available": null
},
{
"product_id": 531589,
"time": "2020-02-15T01:00:02+00:00",
"price": 55,
"price_promotion": 45,
"available": null
},
{
"product_id": 531589,
"time": "2020-02-08T00:43:46+00:00",
"price": 51.99,
"price_promotion": 45,
"available": null
}]
> remotes::install_github("datawookie/retail")
> library(retail)
> retailer()
# A tibble: 63 x 4

<table>
<thead>
<tr>
<th>id</th>
<th>name</th>
<th>url</th>
<th>currency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>EEM Technologies</td>
<td><a href="https://www.eemtechnologies.com/">https://www.eemtechnologies.com/</a></td>
<td>USD</td>
</tr>
<tr>
<td>2</td>
<td>Clicks</td>
<td><a href="https://clicks.co.za/">https://clicks.co.za/</a></td>
<td>ZAR</td>
</tr>
<tr>
<td>3</td>
<td>Dischem</td>
<td><a href="https://www.dischem.co.za/">https://www.dischem.co.za/</a></td>
<td>ZAR</td>
</tr>
<tr>
<td>4</td>
<td>Game</td>
<td><a href="https://www.game.co.za/">https://www.game.co.za/</a></td>
<td>ZAR</td>
</tr>
<tr>
<td>5</td>
<td>Woolworths</td>
<td><a href="https://www.woolworths.co.za/">https://www.woolworths.co.za/</a></td>
<td>ZAR</td>
</tr>
<tr>
<td>6</td>
<td>Fortnum &amp; Mason</td>
<td><a href="https://www.fortnumandmason.com/">https://www.fortnumandmason.com/</a></td>
<td>GBP</td>
</tr>
<tr>
<td>7</td>
<td>John Lewis</td>
<td><a href="https://www.johnlewis.com/">https://www.johnlewis.com/</a></td>
<td>GBP</td>
</tr>
<tr>
<td>8</td>
<td>Marks &amp; Spencer</td>
<td><a href="https://www.marksandspencer.com/">https://www.marksandspencer.com/</a></td>
<td>GBP</td>
</tr>
<tr>
<td>9</td>
<td>Pick 'n Pay</td>
<td><a href="https://www.pnp.co.za/">https://www.pnp.co.za/</a></td>
<td>ZAR</td>
</tr>
<tr>
<td>10</td>
<td>Makro</td>
<td><a href="https://www.makro.co.za/">https://www.makro.co.za/</a></td>
<td>ZAR</td>
</tr>
</tbody>
</table>
# ... with 53 more rows
```
> retailer_products(5)
# A tibble: 24,514 x 4

  id  name                                         brand        sku
  <int> <chr>                                     <chr>        <chr>
1    611983 Pattern Cotton Boxers 2 Pack          (&US)        6009214703176
2    611990 Nautical Cotton Shirt                 (&US)        6009214476001
3    611997 COUNTRY ROAD Spliced T-Shirt           Country Road 9340243972506
4    612000 Restlessness Flatbill Cap              (&US)        6009214695327
5    612041 Adjustable Camo Woven Cargo Shorts     (&US)        6009214749846
6    612047 Cage Leather Sandals (Size 4-13) Younger Boy Walkmates 6009214643793
7    612270 COUNTRY ROAD Pull On Short             Country Road 9324268753876
8    612395 Grey Drawstring Denim Shorts            (&US)        6009214443881
9    613256 Striped Cotton Rich Trunks 3 Pack      (&US)        6009214351247
10   613866 Stripe Cotton Rich Socks 5 Pack        (&US)        6009211149021
# … with 24,504 more rows
```
```r
> product(531589)
# A tibble: 1 x 4
   id      name                  sku           barcodes
   <int>        <chr>            <chr>          <chr>
1   531589    Nederburg Lyric 750ml 00000000000230428_EA 6001452314503

> product_prices(531589)
# A tibble: 4 x 4
  product_id time                      price price_promotion
      <int> <chr>                   <dbl>            <dbl>
1      531589 2020-02-22T01:00:32+00:00  55.0             NA
2      531589 2020-02-15T01:00:02+00:00  55.0              45
3      531589 2020-02-08T00:43:46+00:00  52.0              45
4      531589 2020-02-01T00:57:02+00:00  52.0              45
```
How to get screwed on Valentine’s Day
Want to get screwed? **Buy roses.**
Romantic Red Roses

Gauteng Only

R 399.90

Tell that someone special in your life how much you love them with this romantic bouquet of 15 red roses in a heart sleeve.
How not to get screwed on Valentine's Day
Don’t want to get screwed? Buy beer.
6 Craft Beers & Snacks

R399.90

Craft Beer Crate & Snacks

This gift hamper is made up of the following beers and snacks in a locally manufactured, custom made wooden crate:

- 6 Local Craft Beers
- Giant Salted Nuts (200g)
- Beef Biltong (500g)
- Beef Oreo Wars (250g)
EXEGETIC

helping you not get screwed on Valentine’s Day
Get in touch if you’re interested in retail price data!

Homepage:  https://datawookie.github.io/trundler/
GitHub: https://github.com/datawookie/trundler/
Website: https://www.trundler.dev/

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