**The R Package**

So I made a hex logo and after that the R package basically wrote itself.

Then load it up.

> library(retail)

**List of Retailers**

The retailer() function gives access to a table of retailers, their website URLs and operating currencies.

> retailer()

# A tibble: 64 x 4

id name url currency

1 1 EEM Technologies <https://www.eemtechnologies.com/> USD

2 2 Clicks <https://clicks.co.za/> ZAR

3 3 Dischem <https://www.dischem.co.za/> ZAR

4 4 Game <https://www.game.co.za/> ZAR

5 5 Woolworths <https://www.woolworths.co.za/> ZAR

6 6 Fortnum & Mason <https://www.fortnumandmason.com/> GBP

7 7 John Lewis <https://www.johnlewis.com/> GBP

8 8 Marks & Spencer <https://www.marksandspencer.com/> GBP

9 9 Pick n Pay <https://www.pnp.co.za/> ZAR

10 10 Makro <https://www.makro.co.za/> ZAR

# … with 54 more rows

**List of Products**

To dig any deeper than that you’ll need an API key (ping me if you want one!). Use set\_api\_key() to specify the key. You only need to do this once. The key will then be used for all subsequent transactions.

> API\_KEY = "5bed3ac9-6dc9-4926-aed8-8c97a7cb8057"

> set\_api\_key(API\_KEY)

The retailer\_products() function yields a product table for a specific retailer, where each product is assigned a name, brand, model, SKU and barcode (if available).

> retailer\_products(5) %>% select(id, name, brand, sku)

# A tibble: 39,913 x 4

id name brand sku

1 611975 Two Toned Skater Print Trunks 3 Pack NA 6009214350547

2 611980 Sock Knit Bumper Sneakers (Size 4-13) Younger Boy NA 6009214831060

3 611983 Pattern Cotton Boxers 2 Pack (&US) 6009214703176

4 611985 Cargo Shorts NA 6009214449494

5 611990 Nautical Cotton Shirt (&US) 6009214476001

6 611992 Dino Cotton Rich Socks 3 Pack NA 6009214359908

7 611997 COUNTRY ROAD Spliced T-Shirt Country Road 9340243972506

8 612000 Restlessness Flatbill Cap (&US) 6009214695327

9 612024 Cuffed Abrasion Stonewash Jeans NA 6009214054353

10 612032 Striped Cotton Shirt NA 6009214471167

# … with 39,903 more rows

**Product Details**

You can get more granular, looking at a specific product using the product() and product\_prices() functions.

**Product: Wine**

Let’s take a look at a bottle of wine.

> nederburg\_lyric <- product(531589)

> names(nederburg\_lyric)

[1] "id" "retailer\_id" "url" "name" "brand" "sku"

[7] "barcodes"

> nederburg\_lyric$name

[1] "Nederburg Lyric 750ml"

> nederburg\_lyric$sku

[1] "000000000000230428\_EA"

> nederburg\_lyric$barcodes

[1] "6001452314503"

The price history data includes both regular and promotion prices, as well as availability. Availability data are not currently being gathered for this product.

> product\_prices(531589)

product\_id time price price\_promotion available

1 531589 2020-03-07T01:04:08+00:00 55.00 45 NA

2 531589 2020-02-22T01:00:32+00:00 55.00 NA NA

3 531589 2020-02-15T01:00:02+00:00 55.00 45 NA

4 531589 2020-02-08T00:43:46+00:00 51.99 45 NA

5 531589 2020-02-01T00:57:02+00:00 51.99 45 NA

**Product: Clothing**

Let’s take a look at an item of clothing from another retailer. In this case we are gathering availability data.

> product\_prices(788165)

product\_id time price price\_promotion available

1 788165 2020-03-12T01:24:47+00:00 79.99 NA FALSE

2 788165 2020-03-11T01:14:35+00:00 79.99 NA FALSE

3 788165 2020-03-10T01:16:10+00:00 79.99 NA FALSE

4 788165 2020-03-09T01:20:16+00:00 79.99 NA FALSE

5 788165 2020-03-08T01:13:43+00:00 79.99 NA FALSE

6 788165 2020-03-07T01:18:16+00:00 79.99 NA FALSE

7 788165 2020-03-06T01:07:52+00:00 79.99 NA FALSE

8 788165 2020-03-05T01:18:41+00:00 79.99 NA FALSE

9 788165 2020-03-04T01:10:30+00:00 79.99 NA FALSE

10 788165 2020-03-03T01:12:49+00:00 79.99 NA FALSE

11 788165 2020-03-02T01:17:34+00:00 79.99 NA FALSE

12 788165 2020-03-01T04:51:23+00:00 79.99 NA FALSE

13 788165 2020-02-27T01:18:01+00:00 79.99 NA TRUE

14 788165 2020-02-26T01:23:26+00:00 79.99 NA TRUE

15 788165 2020-02-25T01:10:53+00:00 79.99 NA TRUE

16 788165 2020-02-24T01:21:07+00:00 79.99 NA TRUE

17 788165 2020-02-23T01:21:20+00:00 79.99 NA TRUE

18 788165 2020-02-22T01:22:24+00:00 79.99 NA TRUE

19 788165 2020-02-21T01:24:15+00:00 79.99 NA TRUE

20 788165 2020-02-20T01:23:19+00:00 79.99 NA TRUE

21 788165 2020-02-19T01:34:00+00:00 99.99 NA TRUE

22 788165 2020-02-18T01:13:51+00:00 99.99 NA TRUE

23 788165 2020-02-17T01:40:17+00:00 99.99 NA TRUE

24 788165 2020-02-16T01:30:09+00:00 99.99 NA TRUE

25 788165 2020-02-15T01:37:56+00:00 99.99 NA TRUE

26 788165 2020-02-14T01:21:11+00:00 119.99 NA TRUE

27 788165 2020-02-13T01:30:18+00:00 119.99 NA TRUE

This product was initially selling at R 119.99. The price dropped to R 99.99 on 15 February 2020 and then R 79.99 on 20 February 2020. On 1 March 2020 it sold out (no longer available).