

# 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*

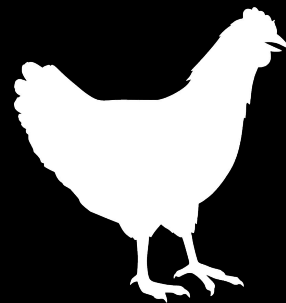
on

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**.

## retailer Retailer



GET /retailer

GET /retailer/{id}

HEAD /retailer/{id}/product

GET /retailer/{id}/product



## product Product



GET /product/{id}



HEAD /product/{id}/price

GET /product/{id}/price



```
[
  {
    "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
  }
]
```







```
R version 3.6.0 (2019-04-26) -- "Planting of a Tree"  
Copyright (C) 2019 The R Foundation for Statistical Computing  
Platform: x86_64-pc-linux-gnu (64-bit)
```

```
R is free software and comes with ABSOLUTELY NO WARRANTY.  
You are welcome to redistribute it under certain conditions.  
Type 'license()' or 'licence()' for distribution details.
```

```
R is a collaborative project with many contributors.  
Type 'contributors()' for more information and  
'citation()' on how to cite R or R packages in publications.
```

```
Type 'demo()' for some demos, 'help()' for on-line help, or  
'help.start()' for an HTML browser interface to help.  
Type 'q()' to quit R.
```

```
> remotes::install_github("datawookie/retail")  
> library(retail)
```



```
> retailer()
```

```
# A tibble: 63 x 4
```

	id	name	url	currency
	<int>	<chr>	<chr>	<chr>
1	1	EEM Technologies	<a href="https://www.eemtechnologies.com/">https://www.eemtechnologies.com/</a>	USD
2	2	Clicks	<a href="https://clicks.co.za/">https://clicks.co.za/</a>	ZAR
3	3	Dischem	<a href="https://www.dischem.co.za/">https://www.dischem.co.za/</a>	ZAR
4	4	Game	<a href="https://www.game.co.za/">https://www.game.co.za/</a>	ZAR
5	5	Woolworths	<a href="https://www.woolworths.co.za/">https://www.woolworths.co.za/</a>	ZAR
6	6	Fortnum & Mason	<a href="https://www.fortnumandmason.com/">https://www.fortnumandmason.com/</a>	GBP
7	7	John Lewis	<a href="https://www.johnlewis.com/">https://www.johnlewis.com/</a>	GBP
8	8	Marks & Spencer	<a href="https://www.marksandspencer.com/">https://www.marksandspencer.com/</a>	GBP
9	9	Pick 'n Pay	<a href="https://www.pnp.co.za/">https://www.pnp.co.za/</a>	ZAR
10	10	Makro	<a href="https://www.makro.co.za/">https://www.makro.co.za/</a>	ZAR

```
# ... with 53 more rows
```



```
> retailer_products(5)
```

```
# A tibble: 24,514 x 4
```

	id	name	brand	sku
	<int>	<chr>	<chr>	<chr>
1	<u>611</u> 983	Pattern Cotton Boxers 2 Pack	(&US)	6009214703176
2	<u>611</u> 990	Nautical Cotton Shirt	(&US)	6009214476001
3	<u>611</u> 997	COUNTRY ROAD Spliced T-Shirt	Country Road	9340243972506
4	<u>612</u> 000	Restlessness Flatbill Cap	(&US)	6009214695327
5	<u>612</u> 041	Adjustable Camo Woven Cargo Shorts	(&US)	6009214749846
6	<u>612</u> 047	Cage Leather Sandals (Size 4-13) Younger Boy	Walkmates	6009214643793
7	<u>612</u> 270	COUNTRY ROAD Pull On Short	Country Road	9324268753876
8	<u>612</u> 395	Grey Drawstring Denim Shorts	(&US)	6009214443881
9	<u>613</u> 256	Striped Cotton Rich Trunks 3 Pack	(&US)	6009214351247
10	<u>613</u> 866	Stripe Cotton Rich Socks 5 Pack	(&US)	6009211149021

```
# ... with 24,504 more rows
```



```
> product(531589)
# A tibble: 1 x 4
```

	id	name	sku	barcodes
	<int>	<chr>	<chr>	<chr>
1	<u>531</u> 589	Nederburg Lyric 750ml	0000000000000230428_EA	6001452314503

```
> product_prices(531589)
# A tibble: 4 x 4
```

	product_id	time	price	price_promotion
	<int>	<chr>	<dbl>	<dbl>
1	<u>531</u> 589	2020-02-22T01:00:32+00:00	55.0	NA
2	<u>531</u> 589	2020-02-15T01:00:02+00:00	55.0	45
3	<u>531</u> 589	2020-02-08T00:43:46+00:00	52.0	45
4	<u>531</u> 589	2020-02-01T00:57:02+00:00	52.0	45





How  
to  
get

*screwed*

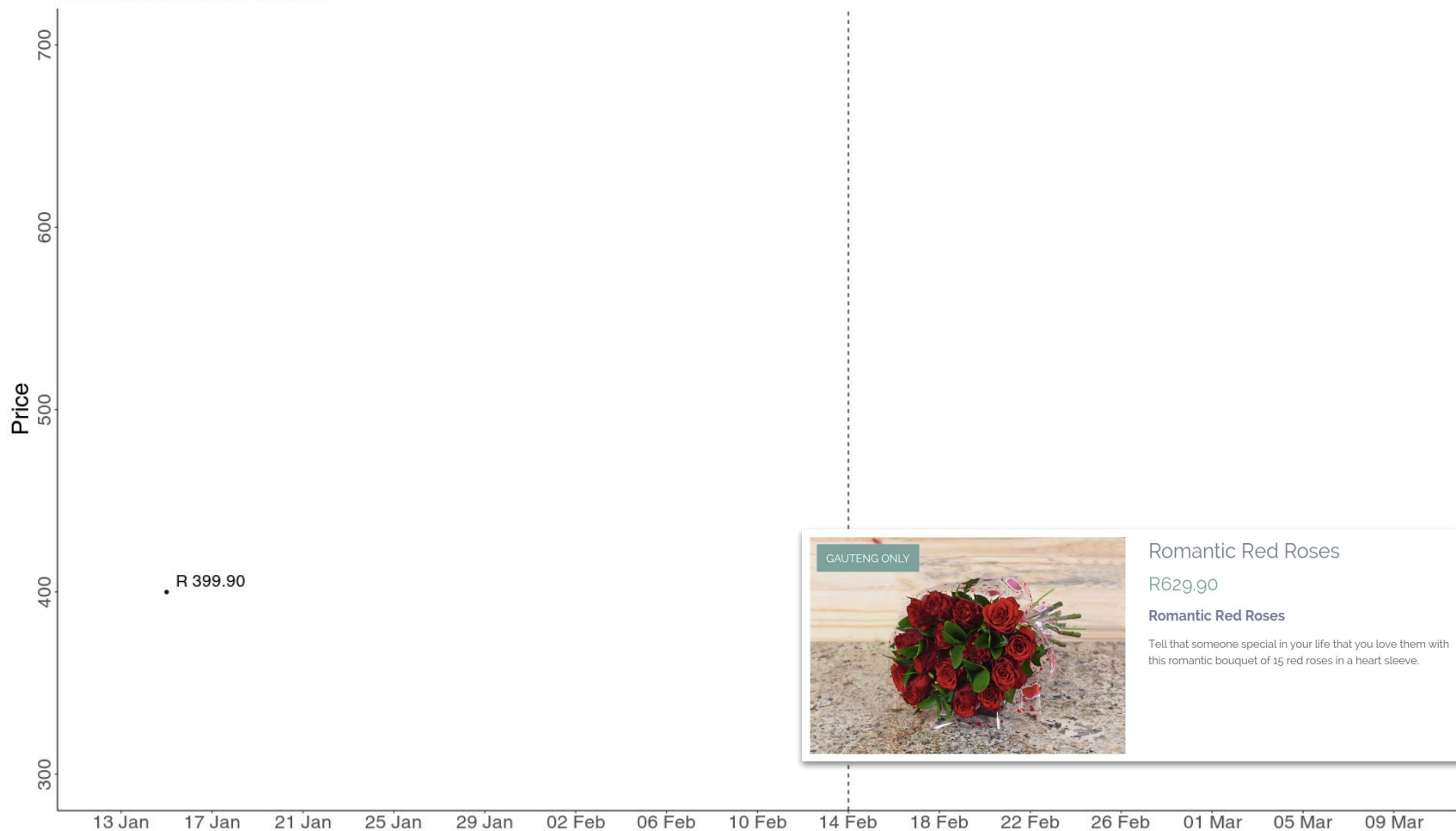
on

Valentine's Day



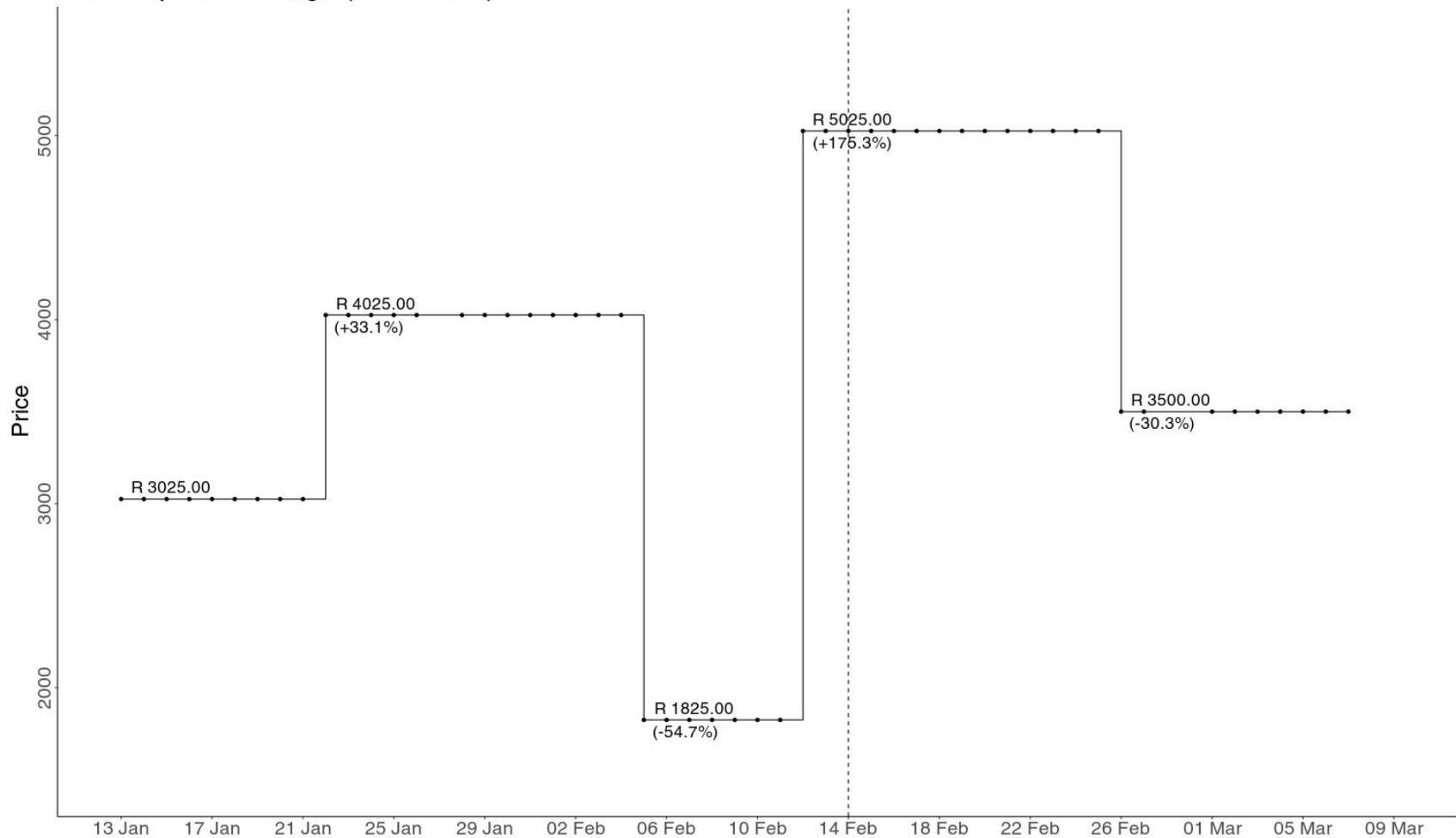
Want to get screwed? Buy roses.

## Romantic Red Roses

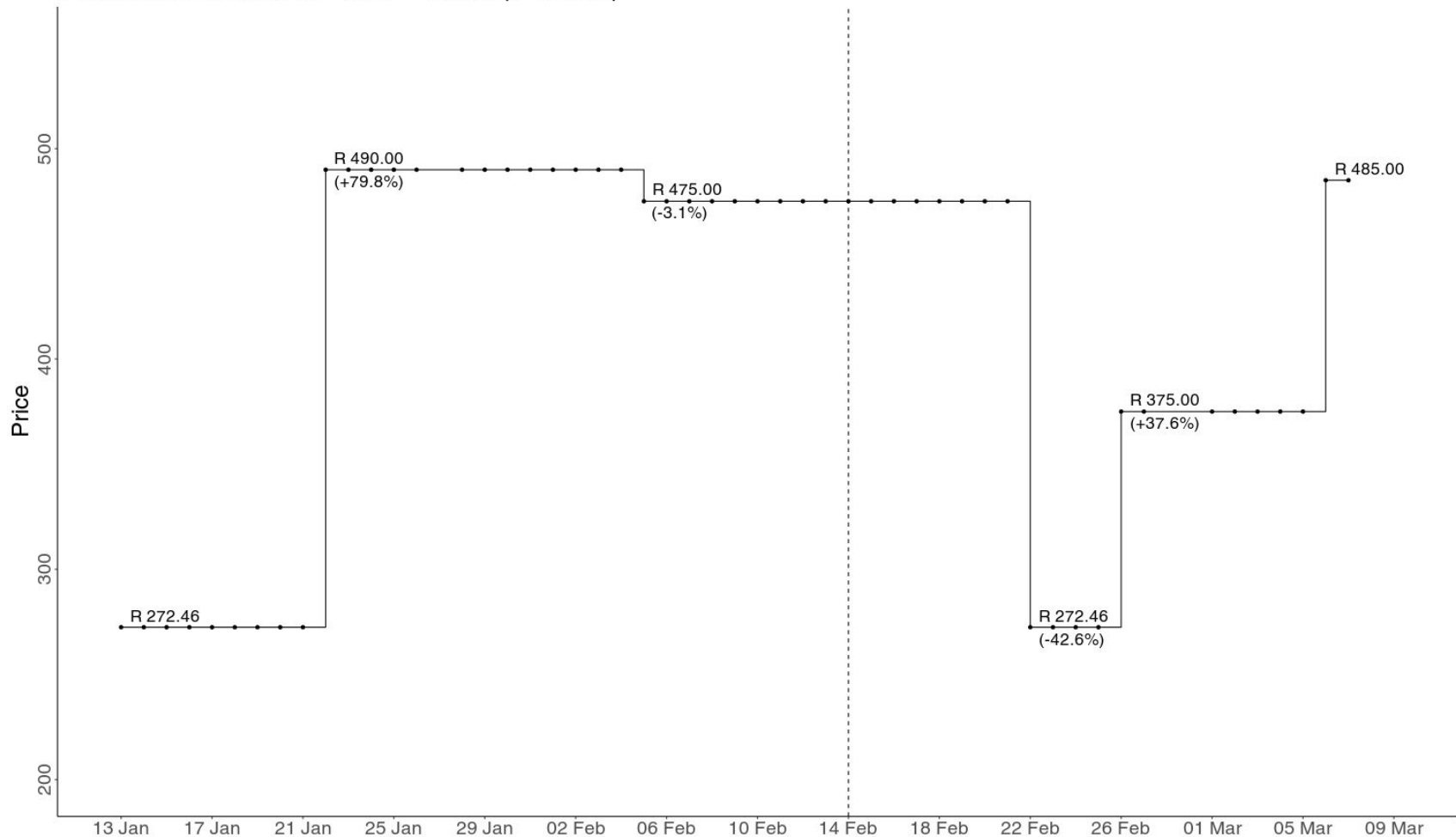




# Love Supreme - Large (100 Roses)



Pink Roses in a Glass Vase - Small (6 Roses)





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*screwed*

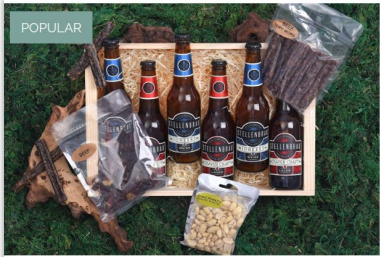
How  
**not** to  
get

on



Don't want to get screwed? Buy beer.

6 Craft Beers & Snacks



POPULAR

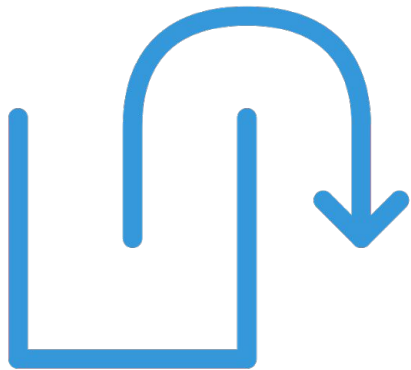
6 Craft Beers & Snacks

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 (100g)
- Beef Biltong (100g)
- Beef Droewors (100g)



# 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/retail/>  
GitHub: <https://github.com/datawookie/retail/>

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