Nairobi Securities Exchange Stocks Analysis, 2013-2020

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Chapter 1

Background

Chapter 2

Data

```
if(!require(pacman)){
  install.packages("pacman")
}

pacman::p_load(tidyverse)

theme_set(ggthemes::theme_clean())
my_files <- list.files(path = "data/", pattern = "stocks_\\d{4}\\.csv$",
                       full.names = TRUE, recursive = TRUE)



full_data <- map_dfr(my_files, read_csv) %>%
  janitor::clean_names() %>%
  mutate(date = lubridate::dmy(date))

head(full_data)
```

```
# A tibble: 6 x 13
  date       code  name   x12m_low x12m_high day_low day_high day_price previous
  <date>     <chr> <chr>     <dbl>     <dbl>   <dbl>    <dbl>     <dbl>    <dbl>
1 2013-01-02 EGAD  Eaaga~      8.2      14      25       25        25       25
2 2013-01-02 KUKZ  Kakuz~    300       424.     67.5     67.5      67.5     72
3 2013-01-02 KAPC  Kapch~     59        95     118      118       118      118
4 2013-01-02 LIMT  Limur~    385       475     430      430       430      430
5 2013-01-02 SASN  Sasin~     14.8      19.6    11.7     12.0      11.9     11.7
6 2013-01-02 WTK   Willi~     92       165     200      200       200      200
# i 4 more variables: change <chr>, change_percent <chr>, volume <chr>,
#   adjust <chr>
```

```r
full_data %>%
  filter(code %in% c("KCB", "ABSA", "EQTY", "SCBK")) %>%
  ggplot(mapping = aes(x = date, y = day_price, color = code)) +
  geom_line() +
  scale_colour_viridis_d()
```