

Report - Times Series

wyhirai

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```
#library used
library(magrittr)
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##   filter, lag

## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
```

```
library(ggplot2)
```

Dados básico do R Nilee m formato de séries temporais. Esse conjunto e dados descreve a mensuração anual do fluxo do rio Nilo entre os anos de 1871 a 1970

```
str(Nile)
```

```
## Time-Series [1:100] from 1871 to 1970: 1120 1160 963 1210 1160 1160 813 1230 1370 1140 ...
```

```
data.frame(Year = 1871:1970,
            Flow = Nile) %>%
  ggplot(aes(x = Year, y = Flow)) +
  geom_point() +
  geom_line(lty = 2) +
  theme_bw(base_size = 15) +
  scale_y_continuous(minor_breaks = NULL,
                     n.breaks = 10) +
  scale_x_continuous(breaks = 1871:1970,
                     minor_breaks = NULL,
                     expand = c(0, .5, 0, .5)) +
  theme(axis.text = element_text(colour = 'black'),
        axis.text.x = element_text(angle = 90,
                                     vjust = .2))
```

