

# Real Interest Rate in Brazil

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## Collecting Data

```
Quandl.api_key('_CttgEjLzAUcRMgYv1kT')

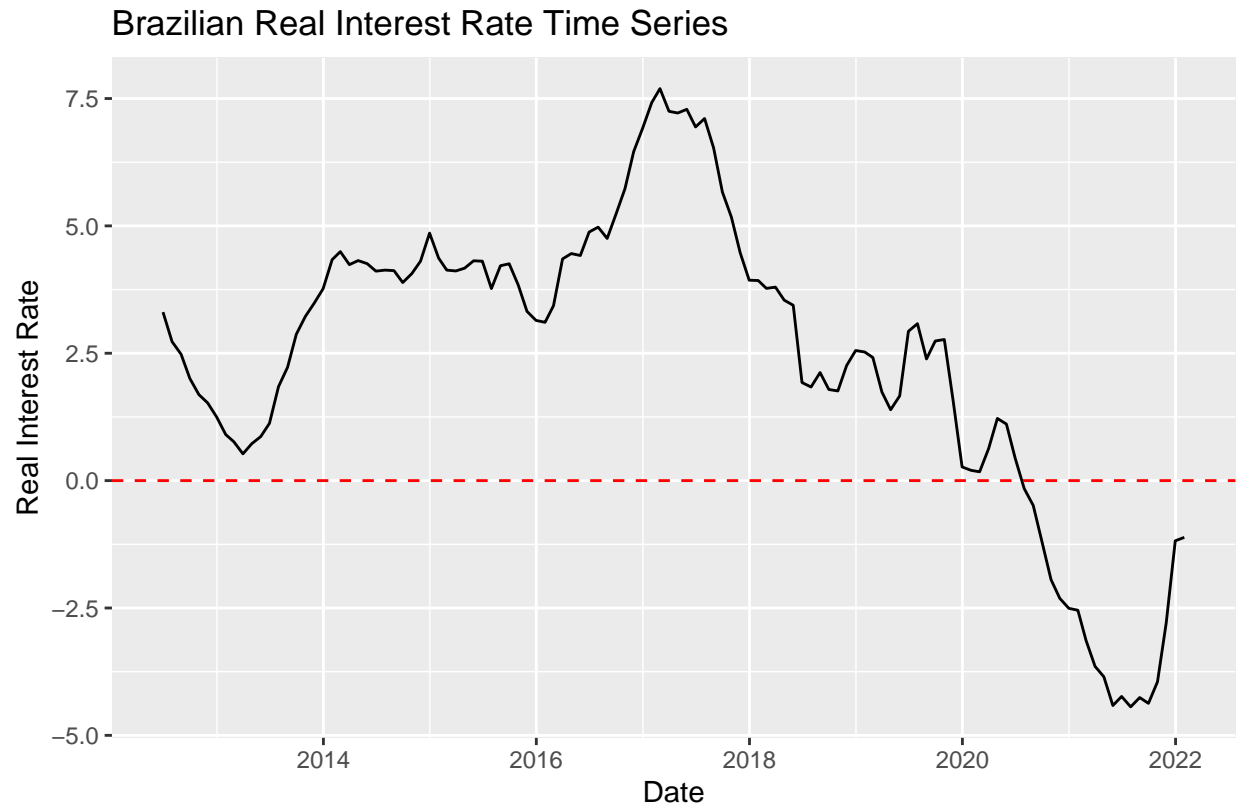
selic1 = Quandl('BCB/4189', order = 'asc', start_date = '2012-06-01')
infla1 = Quandl('BCB/13522', order = 'asc', star_date = '2012-06-01')
```

## Creating a tool

```
selic_infla = inner_join(selic1, infla1, by='Date') %>%
  rename(Selic=Value.x, IPCA=Value.y) %>%
  mutate(Juros_Reais = (((1+(Selic/100))/(1+(IPCA/100)))-1)*100)
```

## Visualizing the Data

```
selic_infla %>%
  ggplot(aes(x=Date, y=Juros_Reais))+
  geom_line()+
  geom_hline(yintercept = 0, linetype = 'dashed', colour = 'red')+
  labs(title = 'Brazilian Real Interest Rate Time Series',
       x = 'Date',
       y = 'Real Interest Rate',
       caption = 'Source: Brazilian Central Bank')
```



Source: Brazilian Central Bank