

geobr-test.R

Carl

2019-06-09

```
## devtools::install_github("ipeaGIT/geobr")
rm(list=ls())

library(geobr)
library(sf)

## Linking to GEOS 3.6.1, GDAL 2.2.3, PROJ 4.9.3
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.2.1 --

## v ggplot2 3.1.1      v purrr  0.3.2
## v tibble  2.1.1      v dplyr  0.8.0.1
## v tidyr   0.8.3      v stringr 1.4.0
## v readr   1.3.1      v forcats 0.4.0

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()

# Read specific municipality at a given year
micro = read_micro_region(cod_micro='24')

## Using data from year 2010
st_bbox(micro)

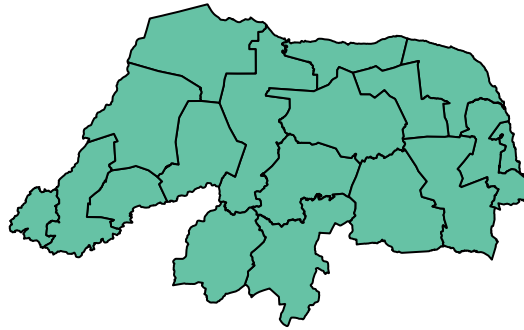
##      xmin      ymin      xmax      ymax
## -38.582099 -6.982735 -35.096285 -4.831556

micro

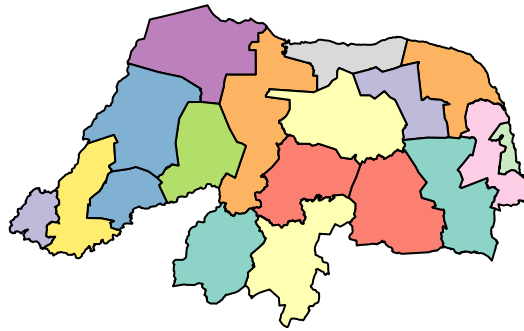
## Simple feature collection with 18 features and 2 fields
## geometry type: POLYGON
## dimension: XY
## bbox: xmin: -38.5821 ymin: -6.982735 xmax: -35.09629 ymax: -4.831556
## epsg (SRID): NA
## proj4string: +proj=longlat +ellps=GRS80 +no_defs
## First 10 features:
##   cod_micro      nome_micro      geometry
## 1      24      VALE DO A<c7>U POLYGON ((-36.74561 -5.0601...
## 2      24      UMARIZAL POLYGON ((-37.64858 -5.9413...
## 3      24 SERRA DE S<c3>O MIGUEL POLYGON ((-38.38184 -6.0534...
## 4      24      SERRA DE SANTANA POLYGON ((-36.64588 -5.7580...
## 5      24      SERID<d3> ORIENTAL POLYGON ((-36.2957 -6.12216...
## 6      24      SERID<d3> OCIDENTAL POLYGON ((-37.14039 -6.1523...
## 7      24      PAU DOS FERROS POLYGON ((-37.90098 -5.9446...
## 8      24      NATAL POLYGON ((-35.21977 -5.6308...
## 9      24      MOSSOR<d3> POLYGON ((-37.25329 -4.8315...
## 10     24      M<c9>DIO OESTE POLYGON ((-37.03558 -5.8910...
```

```
plot(micro)
```

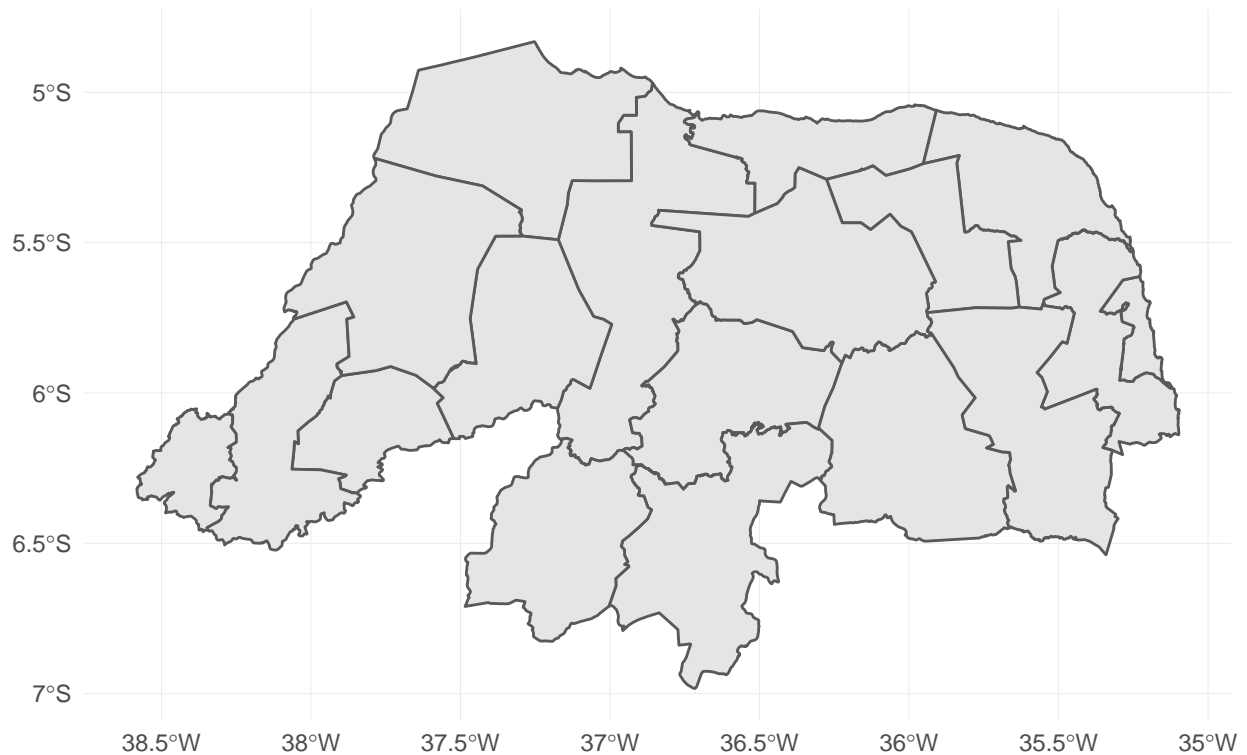
cod_micro



nome_micro



```
ggplot(data=micro) +  
  geom_sf() +  
  theme_minimal()
```



```
ggplot(data=micro, aes(fill=nome_micro)) +
  geom_sf() +
  theme_minimal()
```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'MÉDIO OESTE' in 'mbscsToSbcs': dot substituted for
## <c9>
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## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :
## conversion failure on 'SERIDÓ OCIDENTAL' in 'mbsToSbcs': dot substituted
## for <d3>

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## conversion failure on 'VALE DO AÇU' in 'mbsToSbcs': dot substituted for
## <c7>

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## conversion failure on 'MÉDIO OESTE' in 'mbsToSbcs': dot substituted for
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## conversion failure on 'SERIDÓ OCIDENTAL' in 'mbsToSbcs': dot substituted
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## conversion failure on 'SERIDÓ OCIDENTAL' in 'mbsToSbcs': dot substituted
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```

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## conversion failure on 'SERIDÓ OCIDENTAL' in 'mbcToSbcs': dot substituted
## for <d3>

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## x$y, : conversion failure on 'MOSSORÓ' in 'mbcsToSbcs': dot substituted for  
## <d3>  
  
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :  
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## substituted for <c3>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'SERRA DE SÃO MIGUEL' in 'mbcToSbc': dot
## substituted for <c3>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'SERRA DE SÃO MIGUEL' in 'mbcToSbc': dot
## substituted for <c3>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'SERRA DE SÃO MIGUEL' in 'mbcToSbc': dot
## substituted for <c3>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'SERRA DE SÃO MIGUEL' in 'mbcToSbc': dot
## substituted for <c3>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'SERRA DE SÃO MIGUEL' in 'mbcToSbc': dot
## substituted for <c3>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'SERRA DE SÃO MIGUEL' in 'mbcToSbc': dot
## substituted for <c3>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'SERRA DE SÃO MIGUEL' in 'mbcToSbc': dot
## substituted for <c3>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'SERRA DE SÃO MIGUEL' in 'mbcToSbc': dot
## substituted for <c3>

## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,
## x$y, : conversion failure on 'SERRA DE SÃO MIGUEL' in 'mbcToSbc': dot
## substituted for <c3>

```

```
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,  
## x$y, : conversion failure on 'SERRA DE SÃO MIGUEL' in 'mbsToSbcs': dot  
## substituted for <c3>  
  
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,  
## x$y, : conversion failure on 'SERRA DE SÃO MIGUEL' in 'mbsToSbcs': dot  
## substituted for <c3>  
  
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,  
## x$y, : conversion failure on 'SERRA DE SÃO MIGUEL' in 'mbsToSbcs': dot  
## substituted for <c3>  
  
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x,  
## x$y, : conversion failure on 'SERRA DE SÃO MIGUEL' in 'mbsToSbcs': dot  
## substituted for <c3>  
  
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :  
## conversion failure on 'VALE DO AÇU' in 'mbsToSbcs': dot substituted for  
## <c7>  
  
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :  
## conversion failure on 'VALE DO AÇU' in 'mbsToSbcs': dot substituted for  
## <c7>  
  
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :  
## conversion failure on 'VALE DO AÇU' in 'mbsToSbcs': dot substituted for  
## <c7>  
  
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :  
## conversion failure on 'VALE DO AÇU' in 'mbsToSbcs': dot substituted for  
## <c7>  
  
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :  
## conversion failure on 'VALE DO AÇU' in 'mbsToSbcs': dot substituted for  
## <c7>  
  
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :  
## conversion failure on 'VALE DO AÇU' in 'mbsToSbcs': dot substituted for  
## <c7>  
  
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :  
## conversion failure on 'VALE DO AÇU' in 'mbsToSbcs': dot substituted for  
## <c7>  
  
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :  
## conversion failure on 'VALE DO AÇU' in 'mbsToSbcs': dot substituted for  
## <c7>  
  
## Warning in grid.Call(C_textBounds, as.graphicsAnnot(x$label), x$x, x$y, :  
## conversion failure on 'VALE DO AÇU' in 'mbsToSbcs': dot substituted for  
## <c7>
```

