R中使用voronoiTreemap包轻松绘制圆形树状图

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2022-11-01

1.从Github上面安装R包。（安装前取消注释）

```
#devtools::install_github("uRosConf/voronoiTreemap")
```

2.使用案例数据集

```
library(voronoiTreemap)
library(tidyverse)
```

```
## — Attaching packages ──────────────────────────────── ti
## ✓ ggplot2 3.3.6      ✓ purrr   0.3.4
## ✓ tibble  3.1.8      ✓ dplyr   1.0.10
## ✓ tidyr   1.2.1      ✓ stringr 1.4.1
## ✓ readr   2.1.2      ✓ forcats 0.5.2
## — Conflicts ───────────────────────────────── tidyverse
## ✗ dplyr::filter() masks stats::filter()
## ✗ dplyr::lag()    masks stats::lag()
```

```
data(ExampleGDP)
ExampleGDP %>% as_tibble()
```

```
## # A tibble: 42 × 6
##    h1    h2    h3        color    weight codes
##    <fct> <fct> <fct>     <chr>     <dbl> <chr>
## 1 Total Asia  China     #f58321   14.8  CN
## 2 Total Asia  Japan     #f58321    5.91 JP
## 3 Total Asia  India     #f58321    2.83 IN
```

```
##  4 Total Asia   South Korea  #f58321    1.86 KR
##  5 Total Asia   Russia       #f58321    1.8  RU
##  6 Total Asia   Indonesia    #f58321    1.16 ID
##  7 Total Asia   Turkey       #f58321    0.97 TR
##  8 Total Asia   Saudi Arabia #f58321    0.87 SA
##  9 Total Asia   Iran         #f58321    0.57 IR
## 10 Total Asia   Thailand     #f58321    0.53 TH
## # … with 32 more rows
```

```
gdp_json <- vt_export_json(vt_input_from_df(ExampleGDP,
                                    hierachyVar0 = "h1",
                                    hierachyVar1 = "h2",
                                    hierachyVar2 = "h3",
                                    colorVar = "color",
                                    weightVar="weight",
                                    labelVar = "codes"))

vt_d3(gdp_json)
```
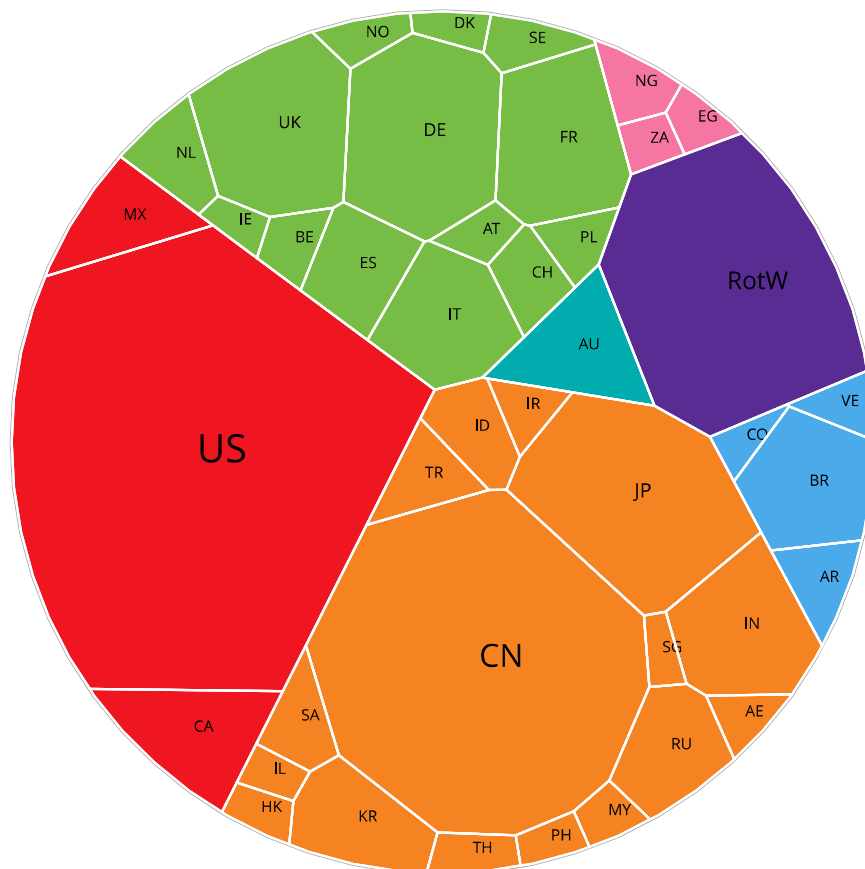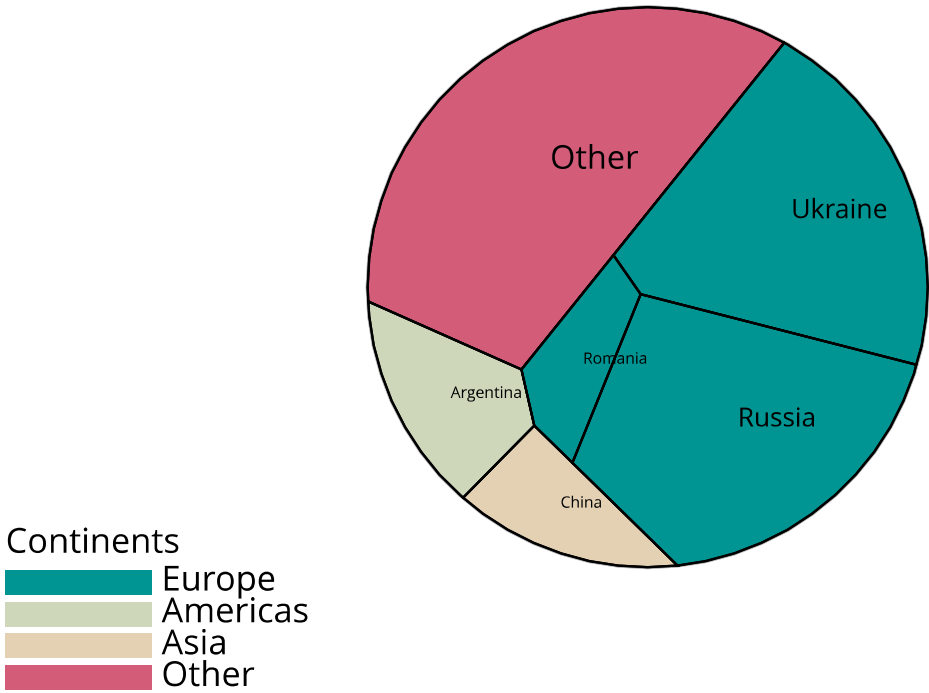

3.使用自定义数据集

```
library(voronoiTreemap)
library(tidyverse)
```

```r
df <- data.frame(country = c("Ukraine", "Russia", "Argentina",
                             "China", "Romania", "Other"),
                 prod = c(11.0, 10.6, 3.1, 2.4, 2.1, 15.3))

vor <- data.frame(h1 = 'World',
                  h2 = c('Europe', 'Europe',
                         'Americas', 'Asia',
                         'Europe', 'Other'),
                  h3 = df$country,
                  color = c("#009593","#009593",
                            "#CED7BA","#E4D1B3",
                            "#009593","#D35C79"),
                  weight = df$prod,
                  codes = df$country)

vt <- vt_input_from_df(vor,
                       hierachyVar0 = "h1",
                       hierachyVar1 = "h2",
                       hierachyVar2 = "h3",
                       colorVar = "color",
                       weightVar="weight",
                       labelVar = "codes")

vt_d3(vt_export_json(vt),label = T,
      color_border = "#000000",
      legend = TRUE, legend_title = "Continents",
      seed = 1,
      size_border = "1px")
```

4.参考链接：

https://mp.weixin.qq.com/s/M4JMbgYW4wHB2eALLPDphQ