

Дескриптивна статистика

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Завдання 3

Я вибрала такі запити:

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Та взяла дані саме з запитів в Україні.

Таблички geoMap.csv та ukraine.csv:

```
Region,perc_Elis,perc_Boris
Odessa Oblast,70,30
Kyiv city,65,35
Kyivs'ka oblast,62,38
Zaporiz'ka oblast,68,32
Sevastopol' city,86,14
Crimea,84,16
Dnipropetrovsk Oblast,66,34
Chernivets'ka oblast,61,39
Lviv Oblast,56,44
Poltavs'ka oblast,64,36
Khmel'nyts'ka oblast,61,39
Zakarpats'ka oblast,61,39
Ternopil's'ka oblast,57,43
Chernihivs'ka oblast,65,35
Kirovohrads'ka oblast,62,38
Ivano-Frankivs'ka oblast,56,44
Kharkiv Oblast,70,30
Vinnyts'ka oblast,59,41
Zhytomyrs'ka oblast,61,39
Cherkas'ka oblast,58,42
Sums'ka oblast,62,38
Volyns'ka oblast,60,40
Rivnens'ka oblast,60,40
Mykolaivs'ka oblast,66,34
Luhans'ka oblast,81,19
Donetsk Oblast,72,28
Khersons'ka oblast,63,37
```

```
n,Region
1,Odessa Oblast
2,Kyiv city
3,Kyivs'ka oblast
4,Zaporiz'ka oblast
5,Sevastopol' city
6,Crimea
7,Dnipropetrovsk Oblast
8,Chernivets'ka oblast
9,Lviv Oblast
10,Poltavs'ka oblast
11,Khmel'nyts'ka oblast
12,Zakarpats'ka oblast
13,Ternopil's'ka oblast
14,Chernihivs'ka oblast
15,Kirovohrads'ka oblast
16,Ivano-Frankivs'ka oblast
17,Kharkiv Oblast
18,Vinnyts'ka oblast
19,Zhytomyrs'ka oblast
20,Cherkas'ka oblast
21,Sums'ka oblast
22,Volyns'ka oblast
23,Rivnens'ka oblast
24,Mykolaivs'ka oblast
25,Luhans'ka oblast
26,Donetsk Oblast
27,Khersons'ka oblast
```

```

> setwd("/Users/irynashkliar/Downloads/map")
>
> dat<-read.csv("geoMap.csv",header=T,stringsAsFactors = F)
>
> nams<-read.csv("ukraine.csv",header=T)
>
> datn<-merge(nams,dat,by="Region",all=T)
>
> x<-datn$perc_Elis/(datn$perc_Elis+datn$perc_Boris)
>
> install.packages('terra', repos='https://rspatial.r-universe.dev')
>
> install.packages('raster')
>
> library(raster)
>
> library('sp')
>
> install.packages('maptools')
>
> library('maptools')
>
> ukraine <- getData('GADM', country='UKR', level=1)
>
> save(ukraine,file="/Users/irynashkliar/Downloads/ukrmap.Rdata")
>
> load(ukraine)
>
> numcol<-7
>
> brkMP<-c(min(x)-0.001,seq(min(x)+0.001,max(x)+0.001,length.out=numcol+1))
>
> intMP<-numcol+2-findInterval(x,brkMP)
>
> palette(c(heat.colors(numcol, alpha = 1),rgb(1,1,1)))
>
> par(xpd=TRUE)
>
> par(mar=c(0,0,0,0))
>
> plot(ukraine,col=intMP[order(datn$N)])
>
> legend("bottomright",title="Queen
%",legend=c("<85","<75","<60","<50","<30","<20","<10","0"),fill=c(heat.colors(numcol,
alpha = 1),rgb(1,1,1)),inset=0,hORIZ = F)

```

