

R LANGUAGE

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Summer 2016

BASIC MATH OPERATIONS

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RGui (64-bit)
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R Console

Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> x<-5
> y<-2
> x+y
[1] 7
> x-y
[1] 3
> x*y
[1] 10
> x/y
[1] 2.5
> x^y
[1] 25
> x**y
[1] 25
> x%%y
[1] 1
> x%/%y
[1] 2
> isTRUE(x)
[1] FALSE
> isTRUE(x==5)
[1] TRUE
> x<y
[1] FALSE
> x<=y
[1] FALSE
> x>y
[1] TRUE
> x>=y
[1] TRUE
> x==y
[1] FALSE
> x!=y
[1] TRUE
> x!x
Error: unexpected '!' in "x!"
> y!x
Error: unexpected '!' in "y!"
> 4>x|y
[1] TRUE
> 4>x&y
[1] FALSE
> |
```

MAKING MAPS

INPUT

```
R Console

R version 3.3.0 (2016-05-03) -- "Supposedly Educational"
Copyright (C) 2016 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

Natural language support but running in an English locale

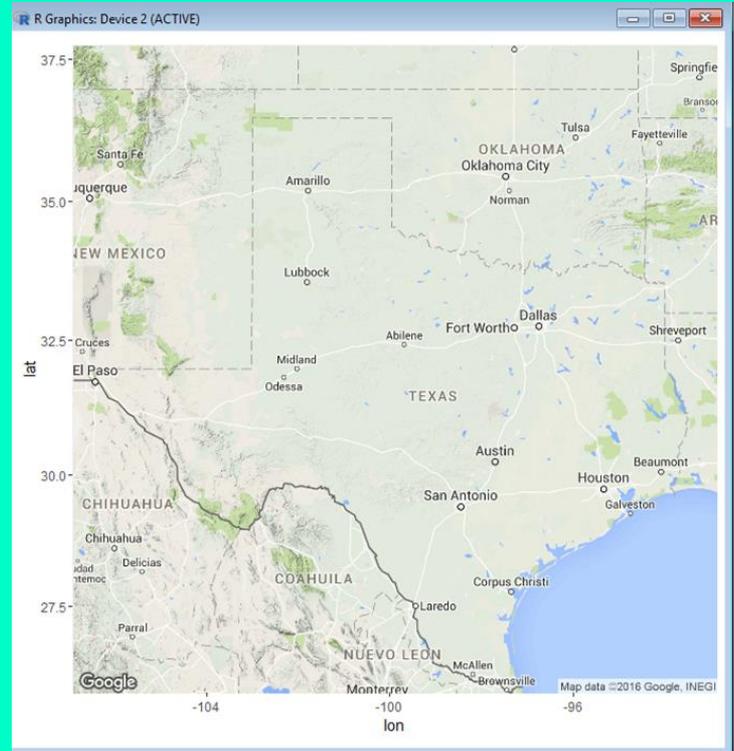
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> library(ggmap)
Loading required package: ggplot2
Google Maps API Terms of Service: http://developers.google.com/maps
Please cite ggmap if you use it: see citation('ggmap') for details$
> Texas <- get_map(location = 'Texas', zoom = 6)
Map from URL : http://maps.googleapis.com/maps/api/staticmap?cent$
Information from URL : http://maps.googleapis.com/maps/api/geocod$
> getmap(Texas)
Error: could not find function "getmap"
> ggmap(Texas)
> |
```

MAKING MAPS

OUTPUT



```
RGU (64-bit)
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[Icons]

R Console
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> library(ggmap)
Loading required package: ggplot2
Google Maps API Terms of Service: http://developers.google.com/maps/terms.
Please cite ggmap if you use it: see citation('ggmap') for details.
> Texas <- get_map(location = 'Texas', zoom = 6)
Map from URL : http://maps.google.com/maps/api/staticmap?center=Texas&zoom=6&size=640x640&scale=2&maptype=terrain&language=en-IN&sensor=false
Information from URL : http://maps.google.com/maps/api/geocode/json?address=Texas&sensor=false
> getmap(Texas)
Error: could not find function "getmap"
> ggmap(Texas)
> lon <- c(-96.45)
> lat <- c(32.76)
> df <- as.data.frame(cbind(lon,lat))
+ )
> ggmap(Texas) +
+ geom_point( data =df, aes(x = lon, y = lat, fill = "red", alpha = 0.8),
+ size = .9, shape = 21) +
+ guides(fill=FALSE, alpha=FALSE, size=FALSE
+ )
> ggmap(Texas) + geom_point( data =df, aes(x = lon, y = lat, fill = "red", alpha = 0.8), size = .9, shape = 21) + guides(fill=FALSE, alpha=FALSE, size=
>
> ggmap(Texas) + geom_point( data =df, aes(x = lon, y = lat, fill = "red", alpha = 0.8),
+ size = .9, shape = 21) + guides(fill=FALSE, alpha=FALSE, size=FALSE)
> |
```

