

# Lab 1

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## Version

```
version

##
## platform      _
## arch          x86_64-apple-darwin15.6.0
## os            darwin15.6.0
## system        x86_64, darwin15.6.0
## status
## major         3
## minor         6.1
## year          2019
## month         07
## day           05
## svn rev       76782
## language      R
## version.string R version 3.6.1 (2019-07-05)
## nickname      Action of the Toes
```

## Load Libraries

I decided to load RColorBrewer and some important GIS libraries from Chapter 2.

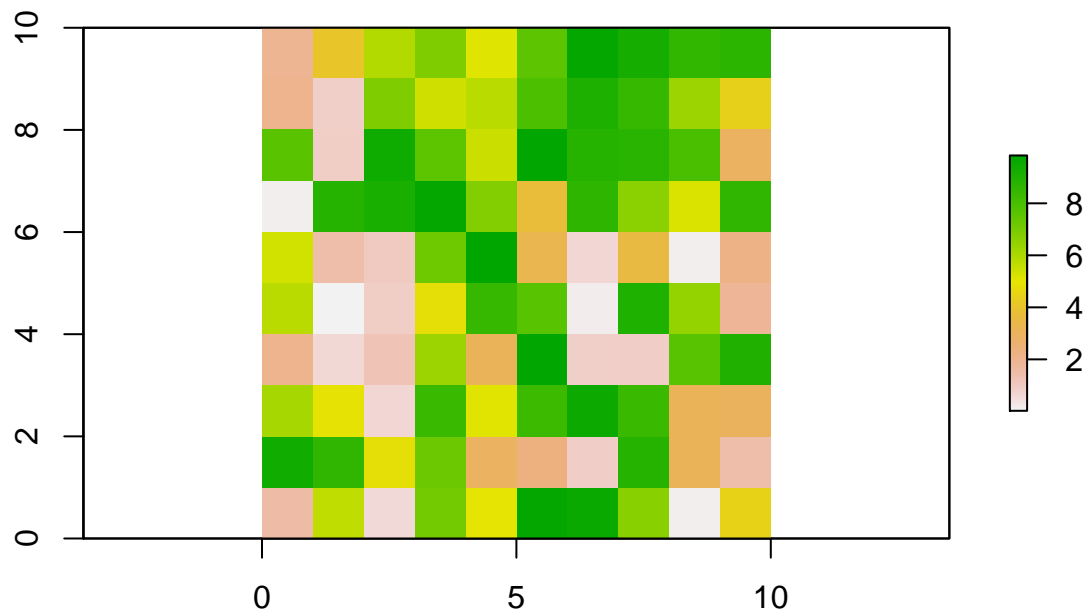
```
library(sf)
library(raster)
library(sp)
```

## Coding Examples

### Example 1

Here is code I used to answer question 4 from the Chapter 2.6 exercises

```
library(sp) #reloading libraries since eval= FALSE above
library(raster)
my_raster_2 = raster(nrows = 10, ncols = 10, res = 1, xmn = 0, xmx = 10, ymn = 0, ymx = 10, vals = runif(100))
plot(my_raster_2, axes = TRUE)
```



## Example 2

I was interested in getting the specific HEX color codes from the RColorBrewer collections, so here is the code I used to determine the colors from the PuRd collection which is adapted from the code provided on this web page.

```
library(RColorBrewer)
colors <- brewer.pal(n = 8, name = "PuRd")
colors

## [1] "#F7F4F9" "#E7E1EF" "#D4B9DA" "#C994C7" "#DF65B0" "#E7298A" "#CE1256"
## [8] "#91003F"
```