p_03_buffer_example.R

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```r
library(sp)
library(rgeos)
```

```
## rgeos version: 0.3-20, (SVN revision 535)
##  GEOS runtime version: 3.5.0-CAPI-1.9.0 r4084
##  Linking to sp version: 1.2-3
##  Polygon checking: TRUE
```

```r
# Load grid
setwd("/home/michael/Dropbox/BGU/Itai/p_15_new_mexico_grid")
load("aod_basegrid_2016-10-17.RData")
dat = as.data.frame(basegrid)
coordinates(dat) = ~ lon + lat
proj4string(dat) = "+proj=longlat +datum=WGS84 +no_defs +ellps=WGS84 +towgs84=0,0,0"
dat = spTransform(dat, "+proj=utm +zone=14 +datum=WGS84 +units=m +no_defs")

# Buffer
b = gBuffer(dat[1:5, ], byid = TRUE, width = 1000, capStyle = "SQUARE")
plot(b, border = rainbow(5))
```