Motivation

Contents

Intro

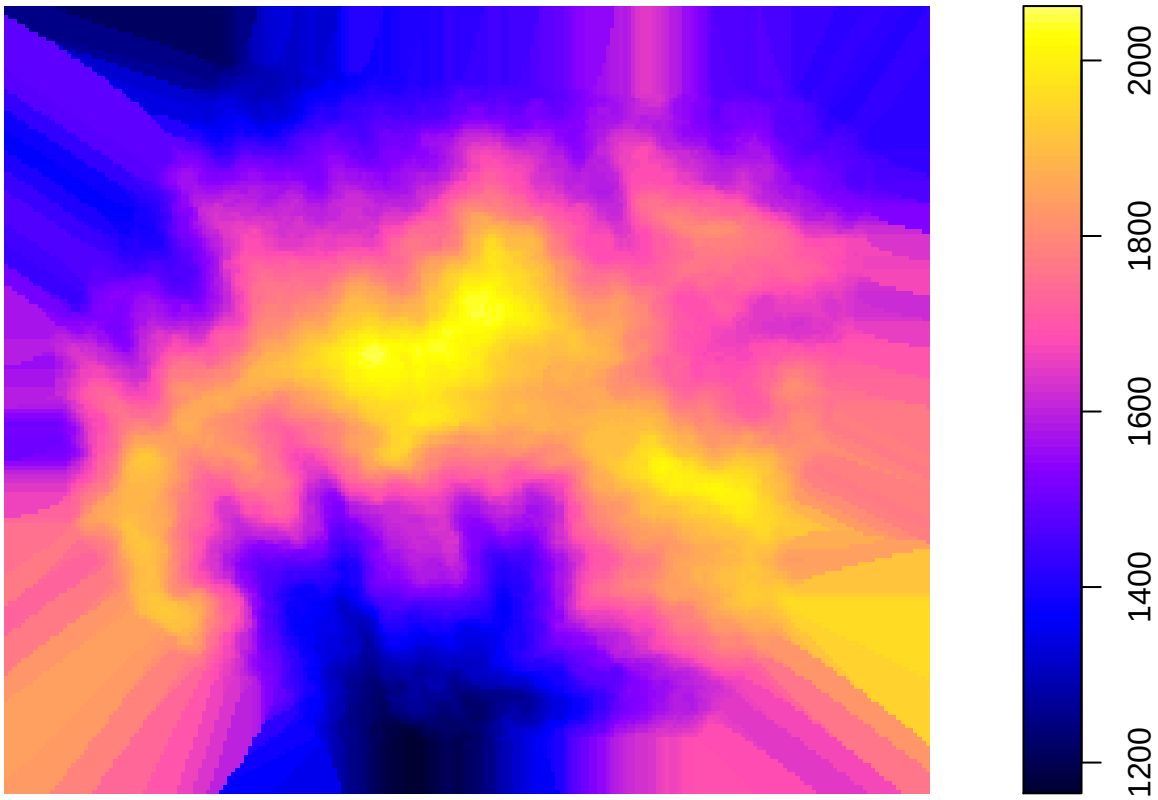
Many data sets with data structures that seem to be different initially.

Examples

Spatially continuous data

```
data(gorillas) # get the data
 gcov = gorillas$gcov

 # Plot the elevation covariate
 plot(gcov$elevation)
```



Spatial point patterns

Data collected on transects

Distance sampling data

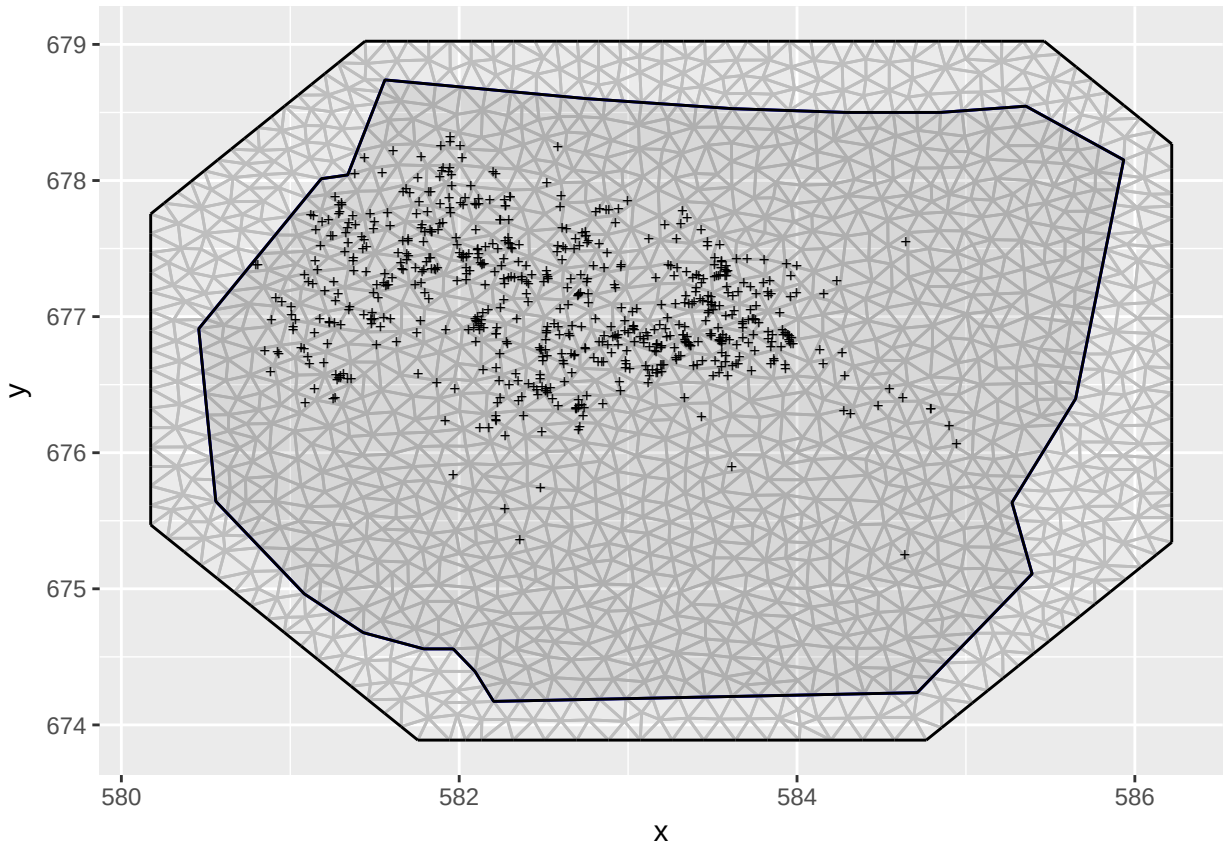
People with spatial data

$\sum \mathbb{R}\boldsymbol{x} \times 4$

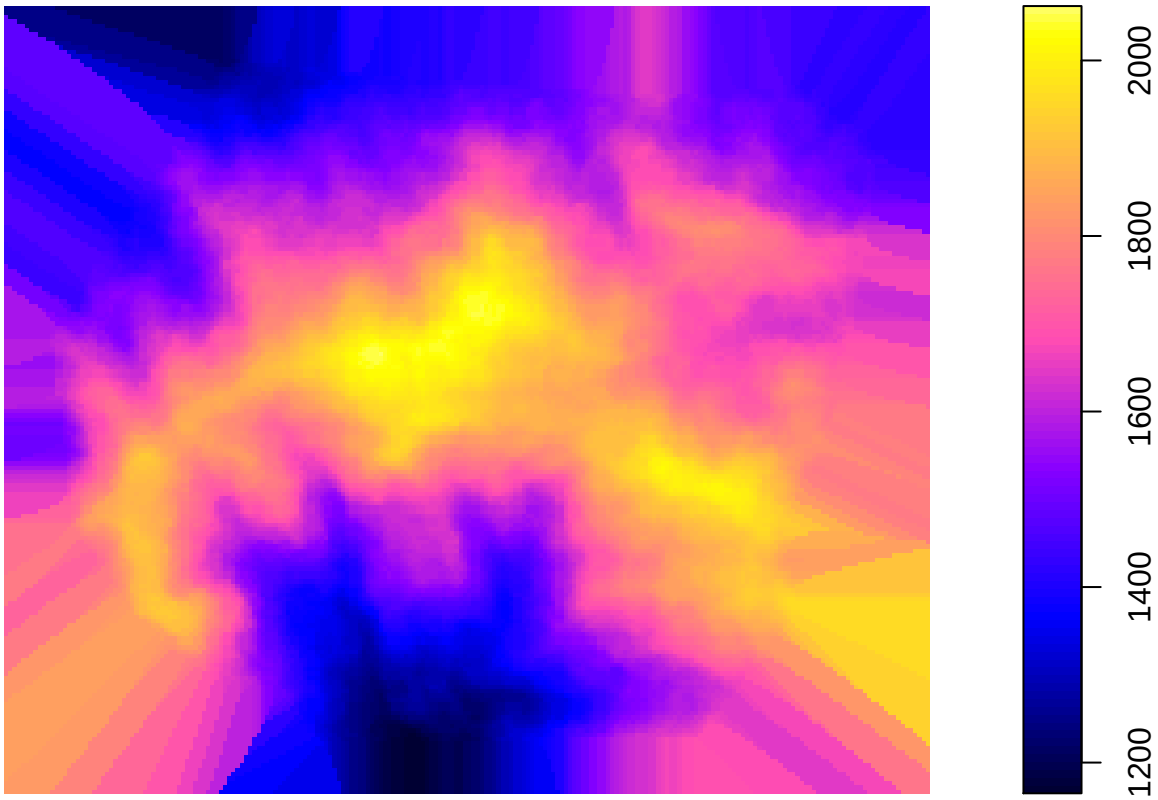
```
data(gorillas) # get the data
 # extract all the objects, for convenience:
 nests = gorillas$nests
 mesh = gorillas$mesh
 boundary = gorillas$boundary
 gcov = gorillas$gcov
 gnestsamples = gorillas$plotsample

 # plot all the nests, mesh and boundary
 ggplot() + gg(mesh,lwd=0.1) + gg(boundary) + gg(nests, pch="+",cex=2)
```

```
## Regions defined for each Polygons
```

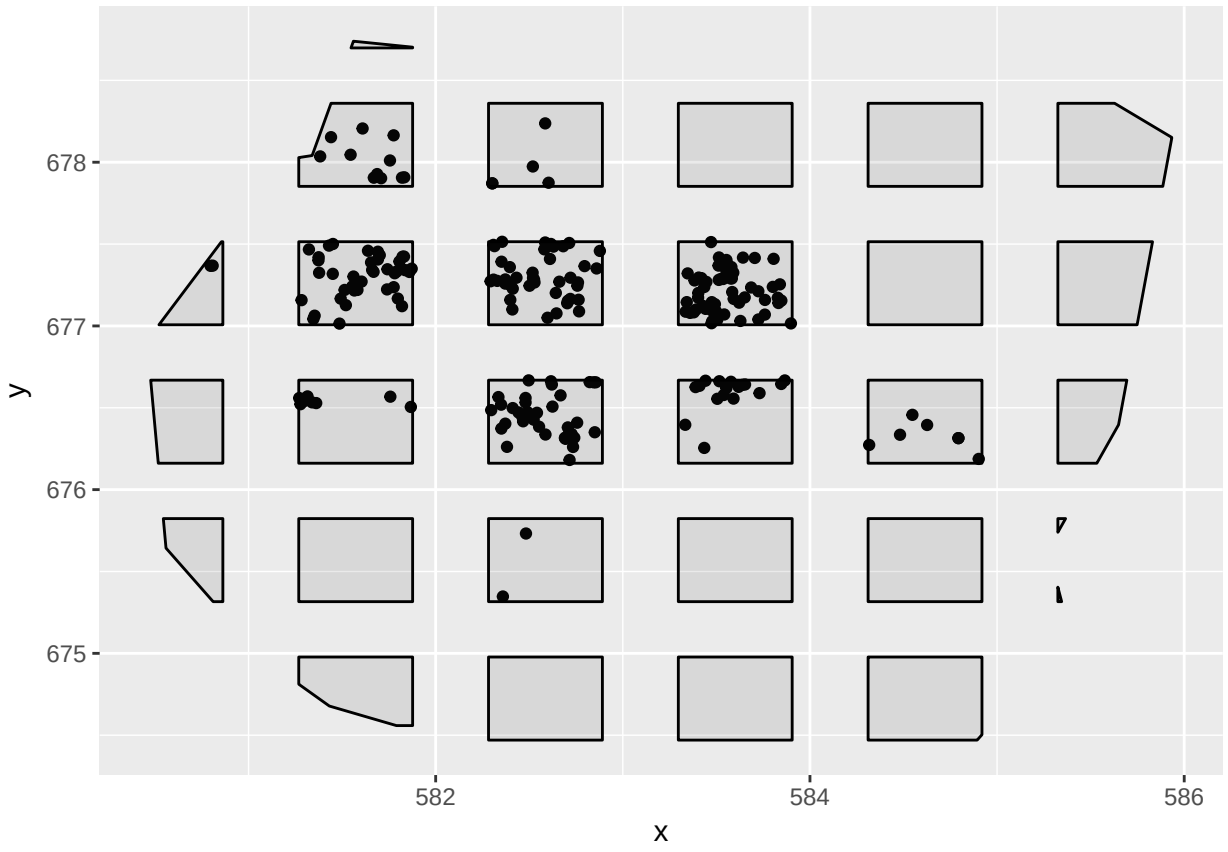



```
# Plot the elevation covariate
plot(gcov$elevation)
```




```
# Plot the plot sample
ggplot() + gg(gnestsamples$nests) + gg(gnestsamples$plots)
```

```
## Regions defined for each Polygons
```


678
677
676
675
y
582
584
586
x