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mapview

<https://github.com/r-spatial/mapview>

interactive viewing
of spatial objects

Tim Appelhans, Florian Detsch, Chris Reudenbach, Stefan Wöllauer



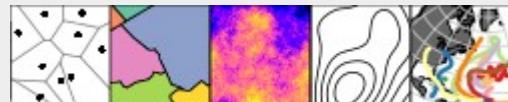
tim-salabim



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plot(breweries)

brewery

address

zipcode

village



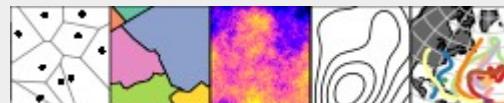
state

founded

number.of.types

number.seasonal.beers

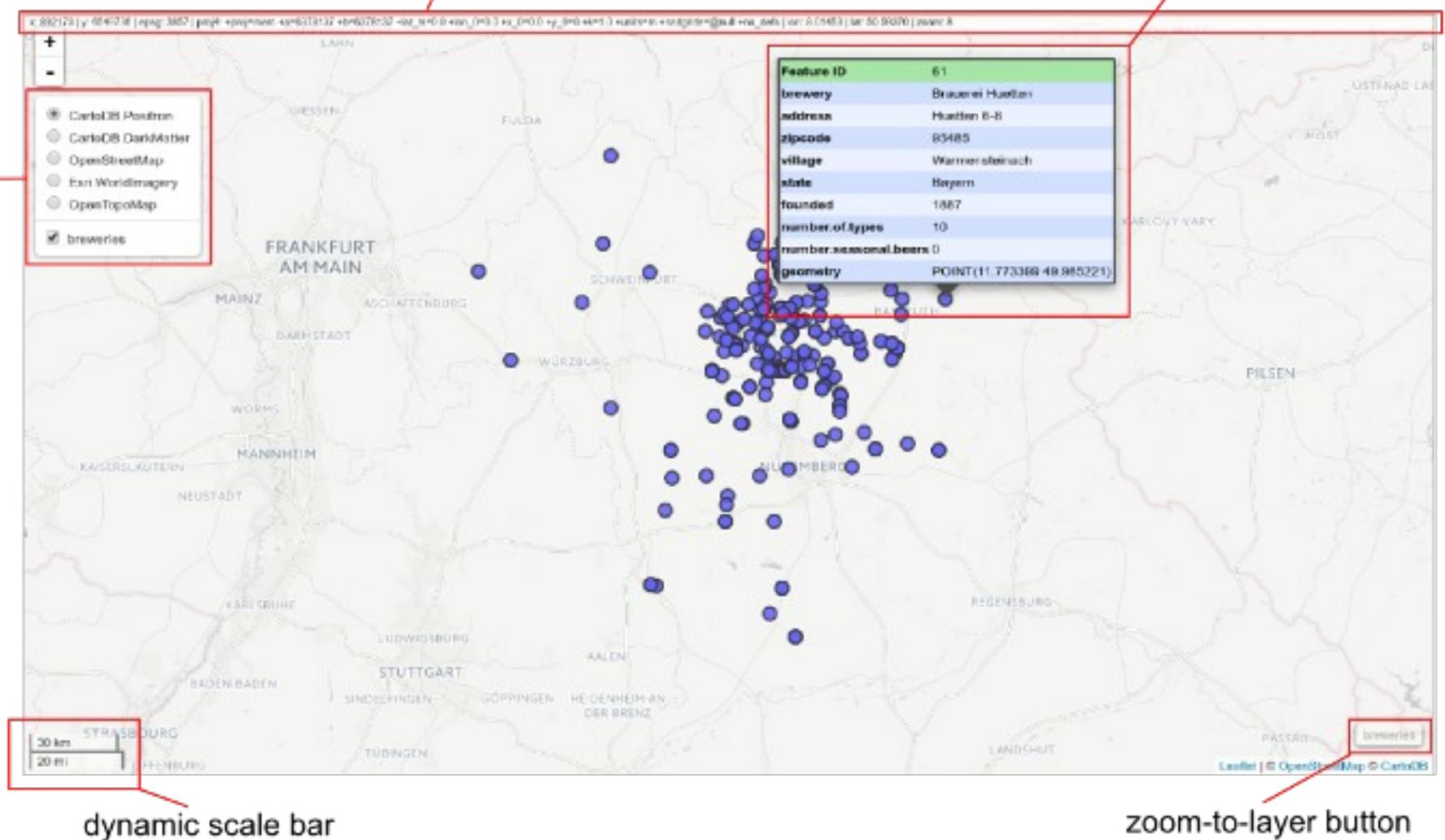


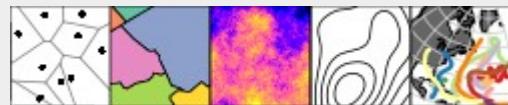


mapview(breweries)

toggle
background
maps and
overlay layers

mouse cursor and layer projection information





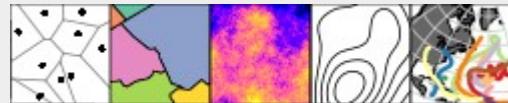
```
mapView(x, map = NULL,  
maxpixels = mapviewgetOption("mapview.maxpixels"),  
col.regions = mapviewgetOption("raster.palette")(256), at = NULL,  
na.color = mapviewgetOption("na.color"), use.layer.names = FALSE,  
values = NULL, map.types = mapviewgetOption("basemaps"),  
alpha.regions = 0.8, legend = mapviewgetOption("legend"),  
legend.opacity = 1, trim = TRUE,  
verbose = mapviewgetOption("verbose"), layer.name = NULL,  
homebutton = TRUE, native.crs = FALSE, method = c("bilinear",  
"ngb"), label = TRUE, query.type = c("mousemove", "click"),  
query.digits, query.position = "topright", query.prefix = "Layer",  
...)
```

```
mapView(x, map = NULL, pane = "auto",  
canvas = useCanvas(x), zcol = NULL, burst = FALSE,  
color = mapviewgetOption("vector.palette"),  
col.regions = mapviewgetOption("vector.palette"), at = NULL,  
na.color = mapviewgetOption("na.color"), cex = 6,  
lwd = lineWidth(x), alpha = 0.9, alpha.regions = regionOpacity(x),  
na.alpha = regionOpacity(x), map.types = NULL,  
verbose = mapviewgetOption("verbose"), popup = popupTable(x),  
layer.name = NULL, label = makeLabels(x, zcol),  
legend = mapviewgetOption("legend"), legend.opacity = 1,  
homebutton = TRUE, native.crs = FALSE,  
highlight = mapviewHighlightOptions(x, alpha.regions, alpha, lwd),  
maxpoints = getMaxFeatures(x), ...)
```

Most important:

- **x:** the object to visualise
- **zcol:** attribute color mapping
- **col.regions:** fill color (points, polygons)
- **color:** stroke/line color
- **burst:** all attribute columns at once

Mapview will (at least try to) **automatically re-project** your data to fit on the map (web-mercator)



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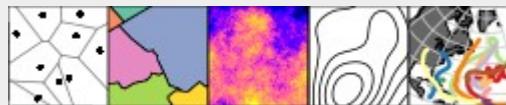


mapedit

interactive manipulation
of spatial objects

Kenton Russell & Tim Appelhans

Many thanks to the  **consortium** for funding this initiative!



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Motivation

**Which tool is best suited
for the task at hand?**

<https://upload.wikimedia.org/wikipedia/commons/thumb/1/12/6-Pack-Chicken-Eggs.jpg/640px-6-Pack-Chicken-Eggs.jpg>



“Buy some eggs in the supermarket around the corner.”

“Move a point from location A to location B.”

GIS system

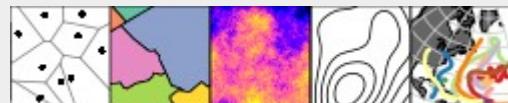


https://upload.wikimedia.org/wikipedia/commons/thumb/3/33/Green_pickup_truck.png/640px-Green_pickup_truck.png

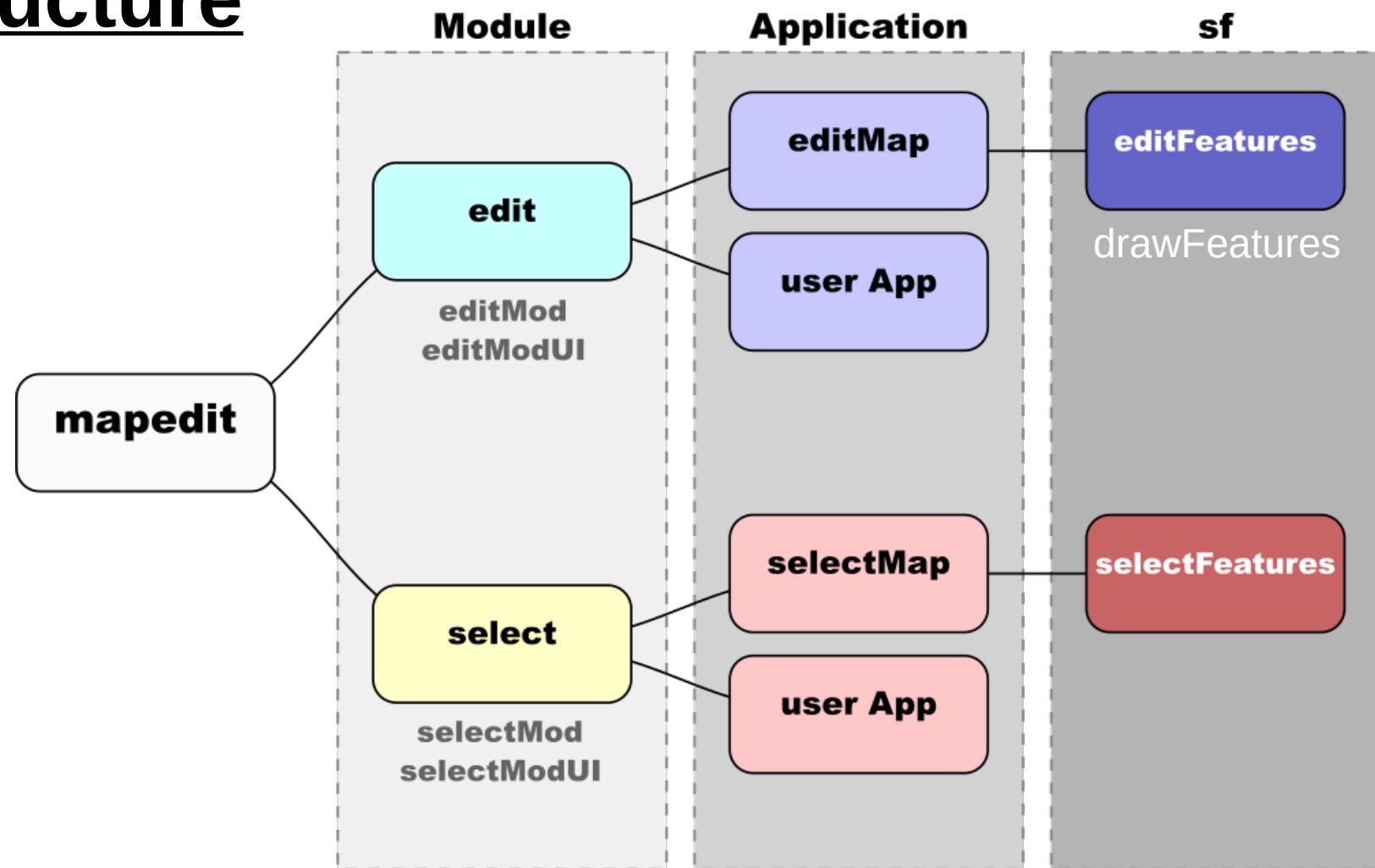
mapedit

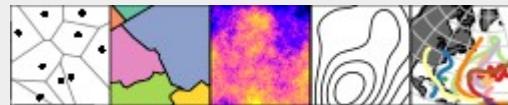


<http://www.publicdomainpictures.net/view-image.php?image=39736&picture=39736>



Structure





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To do:

- edit attributes
- ... you tell us (github issues)

Github

<https://github.com/r-spatial/mapedit>

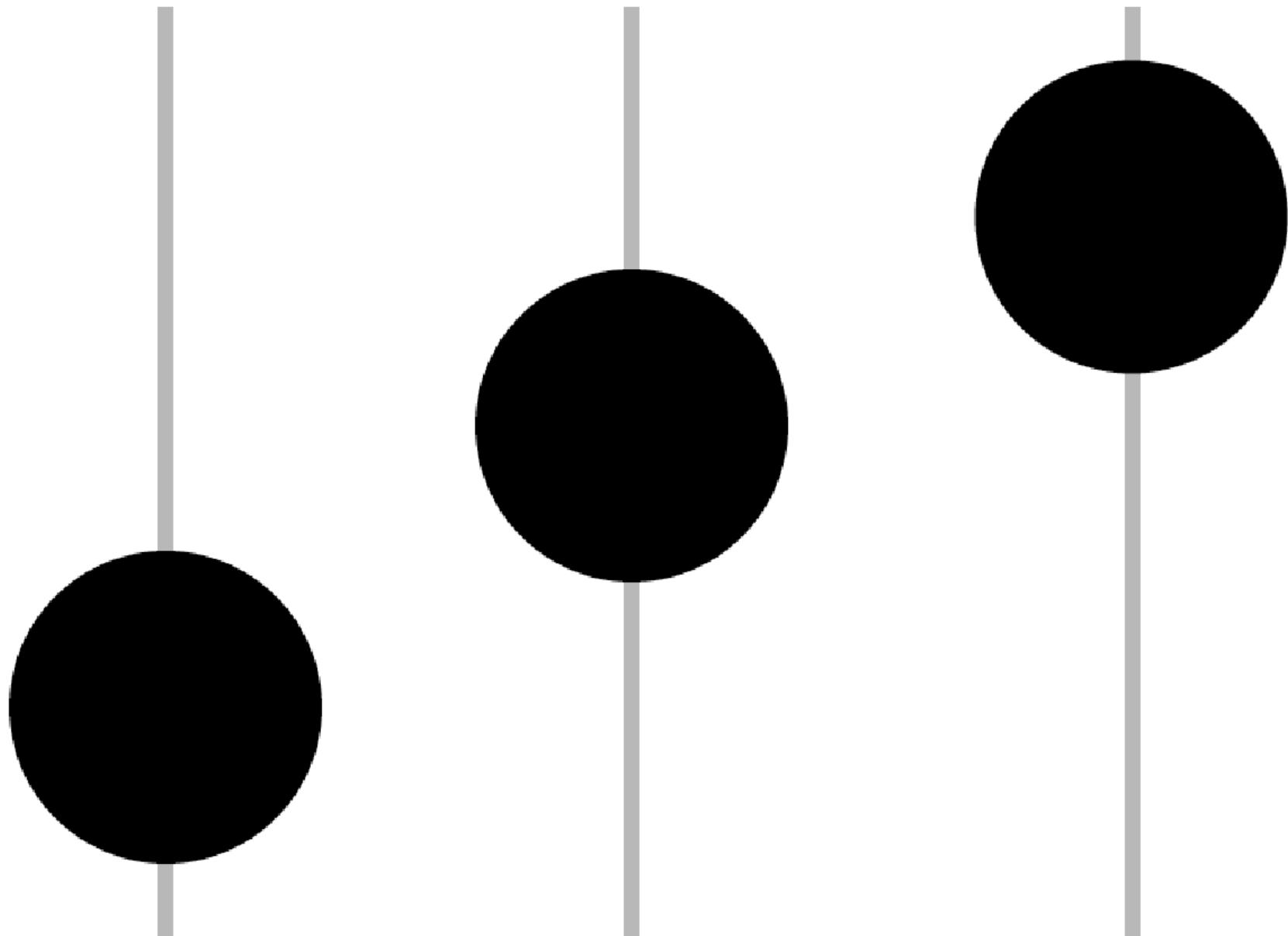
Blog-posts

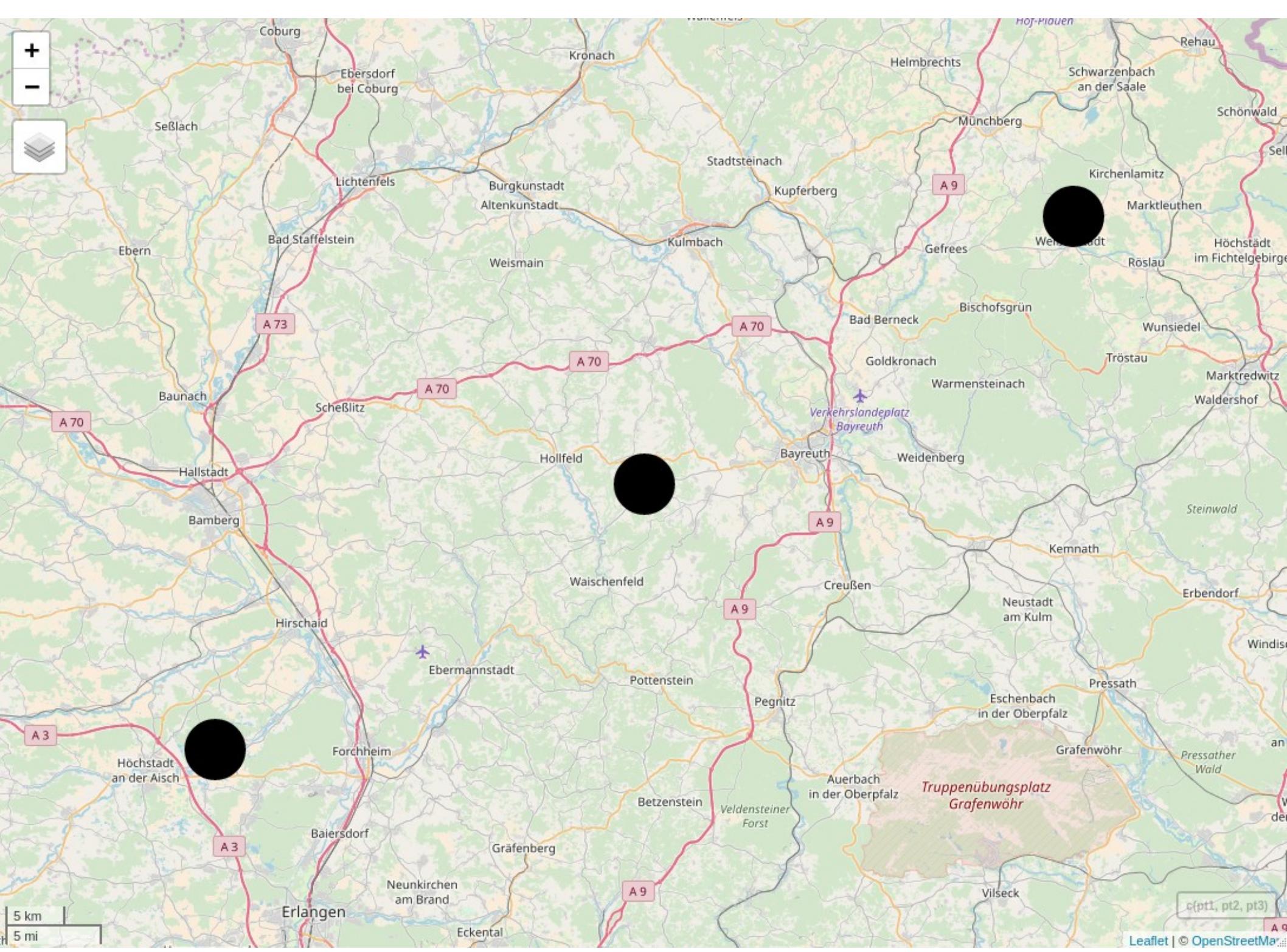
http://r-spatial.org/r/2017/01/30/mapedit_intro.html

http://r-spatial.org/r/2017/06/09/mapedit_0-2-0.html

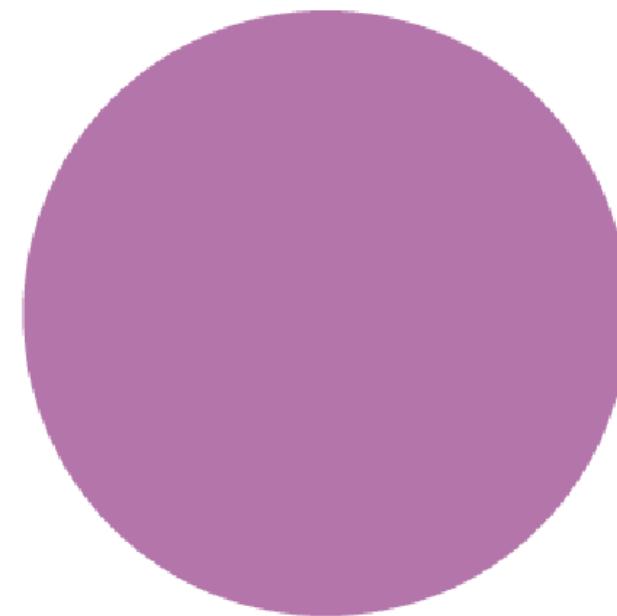
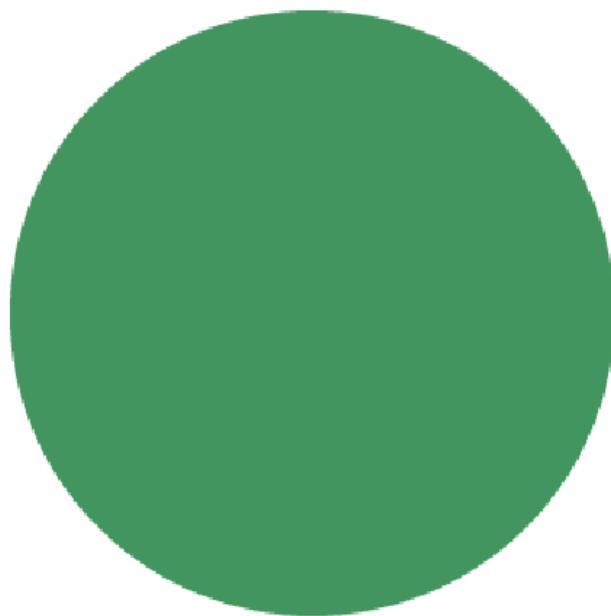
http://r-spatial.org/r/2018/07/15/mapedit_newleaflet.html

Which represents the larger value?

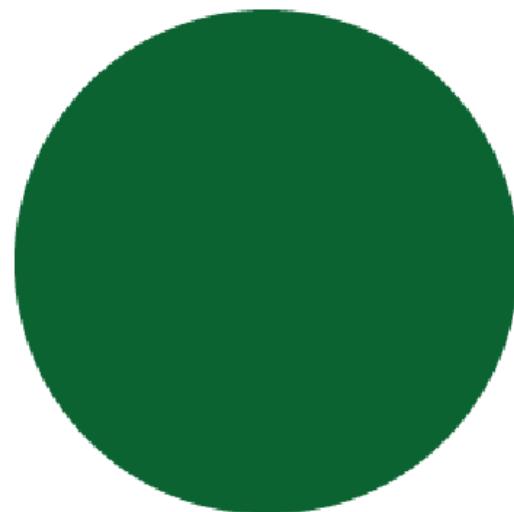
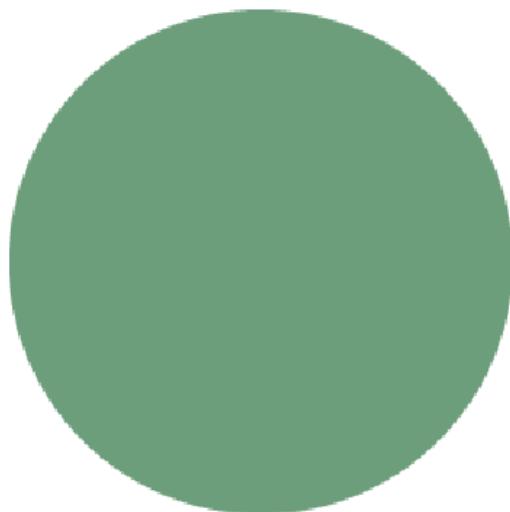
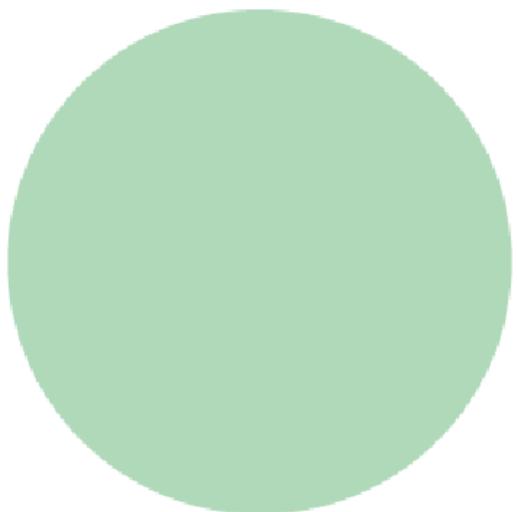




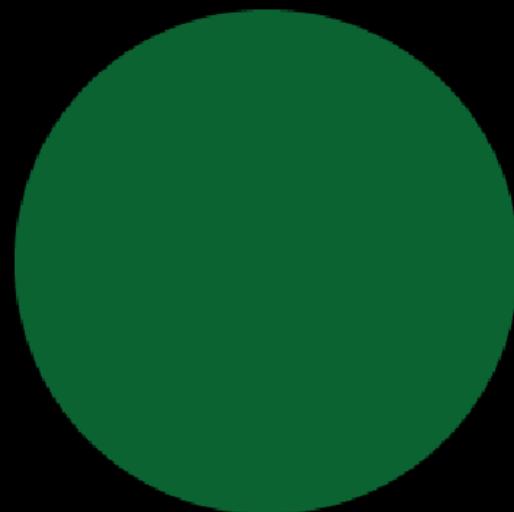
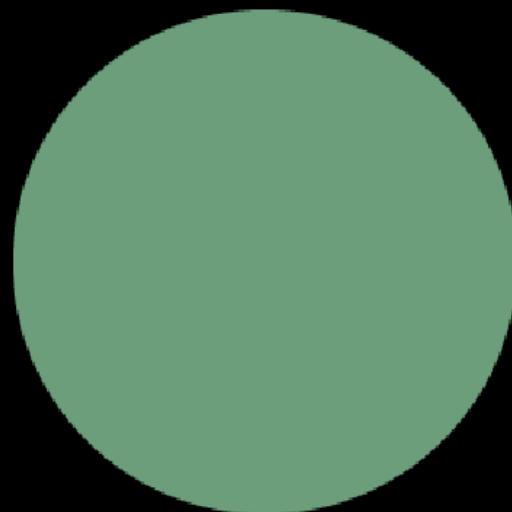
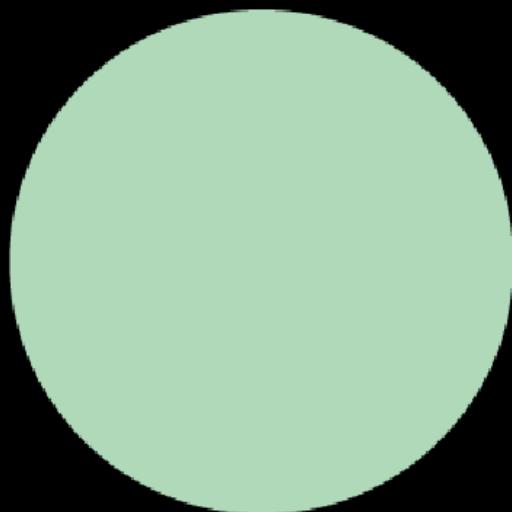
Which represents the larger value?



Which represents the larger value?



Which represents the larger value?



Sequential:

ordinal / differential / rational

Diverging:

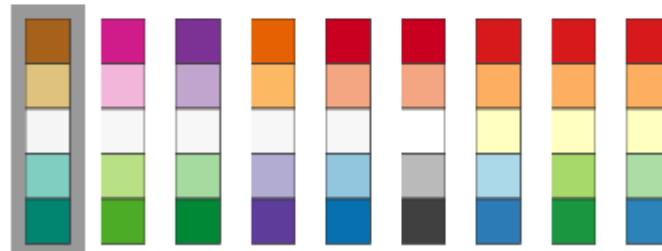
ordinal / differential / rational

Nature of your data:

sequential diverging qualitative



Pick a color scheme:



Qualitative:

nominal

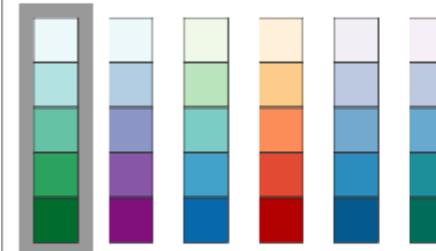
Nature of your data:

sequential diverging qualitative

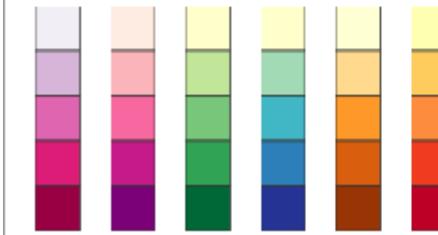
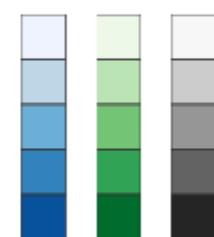


Pick a color scheme:

Multi-hue:



Single hue:

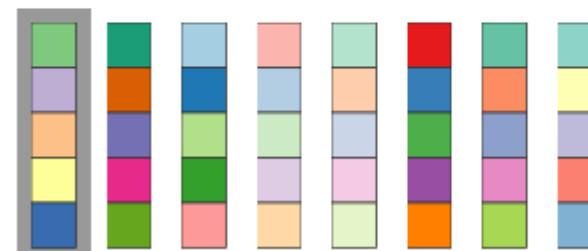


Nature of your data:

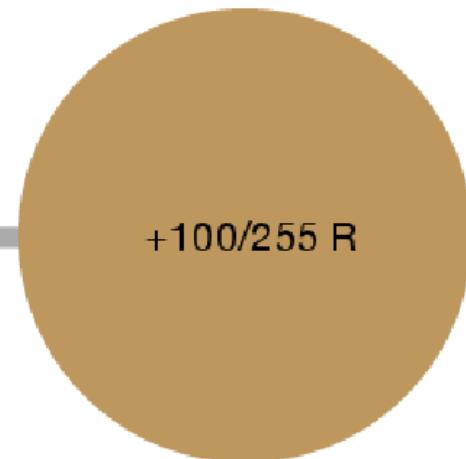
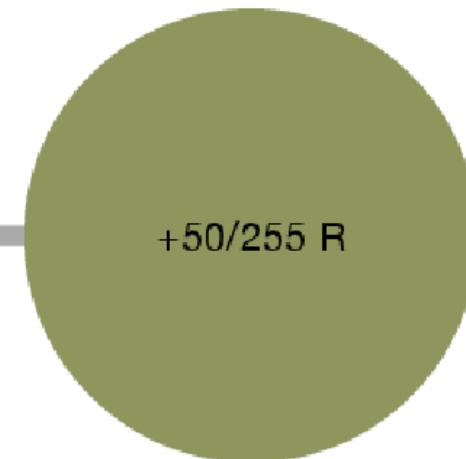
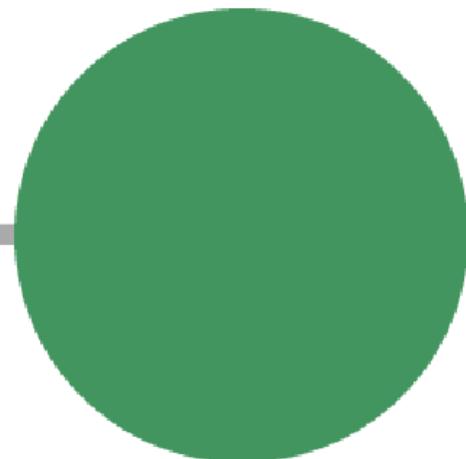
sequential diverging qualitative



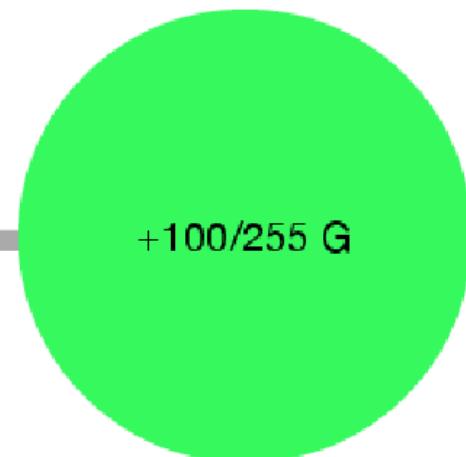
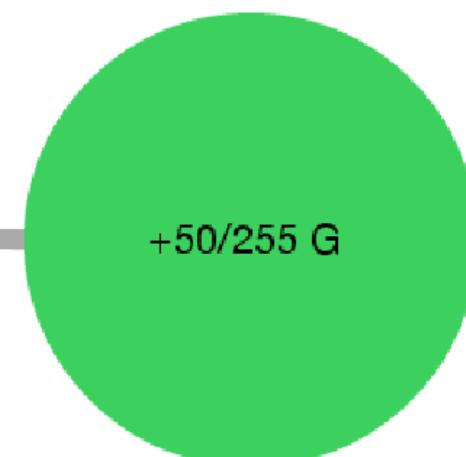
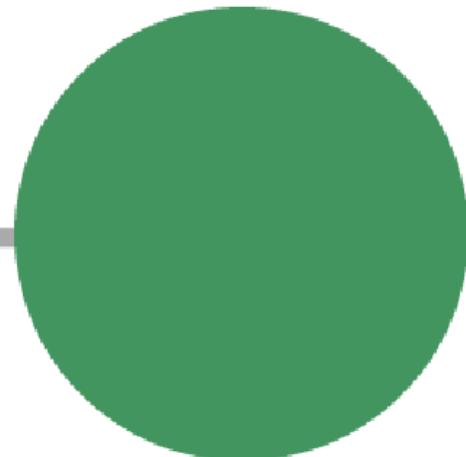
Pick a color scheme:



r



g



b

