Capacity Building Initiative: Workshop in Geospatial Methods

The following is a list of worked examples and exercises for building skills in the materials covered at the Workshop in Geospatial Methods. More challenging exercises can be found at the end of each chapter in *Geocomputation with R* by Lovelace et al., with solutions at <https://geocompr.github.io/vignettes/>

# General examples

* Pebesma, E., Bivand, R. *Spatial Data Science.* <https://keen-swartz-3146c4.netlify.com/intro.html>
* Jolly, K. Geographic Data Science in R. <http://www.katiejolly.io/rnorth-19/#1>
* Brunsdon, C, Comber, L. *An Introduction to Spatial Analysis and Mapping in R 2nd edition.* <https://bookdown.org/lexcomber/brunsdoncomber2e/Ch3.html>

# Specific examples

## Importing spatial data

* Soltoff, B. *Computing for the Social Sciences.* University of Chicago. <https://cfss.uchicago.edu/notes/simple-features/>
* Wasser LA et al. *Data Carpentry: Introduction to Geospatial Raster and Vector Data with R.* <https://datacarpentry.org/r-raster-vector-geospatial/06-vector-open-shapefile-in-r/>

## Coordinate reference systems (CRS)

* Pebesma, E., Bivand, R. *Spatial Data Science.* <https://keen-swartz-3146c4.netlify.com/rs.html#crs>

## Projections and transformations

* <https://geocompr.github.io/post/2019/crs-projections-transformations/>
* Pebesma, E., Bivand, R. *Spatial Data Science.* <https://keen-swartz-3146c4.netlify.com/plotting.html#transform>

## Mapping

* Overviews of the tmap package <https://mtennekes.github.io/downloads/presentations/tmap_opengeo_muenster.pdf>

<http://www.seascapemodels.org/rstats/2019/10/03/study-site-map-tmap.html>

<https://workshop.mhermans.net/thematic-maps-r/04_plot.html>

* Map colour: <https://geocompr.github.io/post/2019/tmap-color-scales/>