# Day 4

# Exercise

# 4 Feb 2020

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# Load libraries

library(tidyverse)

library(ggplot2)

library(ggpubr)

library(SDMTools)

# Load data

gebco\_sa\_asc <- read.table("data/gebco\_sa.asc") # load adventurous data

gebco\_sa\_R <- load("data/gebco\_sa.Rdata")

# Tidy data

gebco\_sa\_tidy <- gather(bathy\_wide, longi, elevation, -lat)

# create new dataframe called gebco\_sa\_tidy

# gather columns into key-value pairs

# select bathy\_wide dataframe

# tranpose 1st row into a col called longi

# create new elevations for the lat and longi

# "-lat" is selecting the 1st row to create the new col but excluding the first row name called "lat"

# convert to numeric to fix scale issues with continuous/discrete data i.e. elev s continuous

bathy\_new <- as.data.frame(apply(gebco\_sa\_tidy, 2, as.numeric)) # save as new dataframe

# create palette