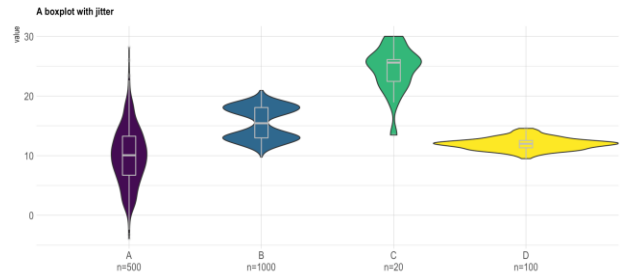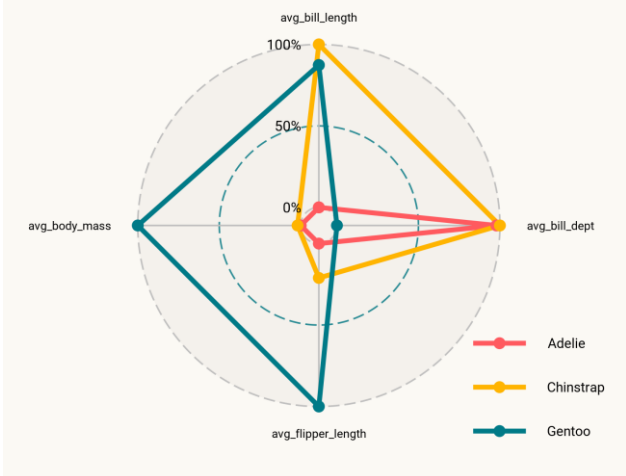# Data Analysis and Visualization in R

The open-source R programming language is widely used by environmental professionals and researchers at state agencies, NGO's, and colleges and universities. Students will learn how to use R to import, clean, and process data, as well as how to use various R packages such as `ggplot2`, `dplyr`, and `tidyr` to create meaningful visualizations. Students will also be able to choose specific statistical analyses (e.g. mixed models, machine learning, Bayesian inference) and/or data visualizations to explore as the basis for a final project. In-person activities will include lectures, workshops, and hands-on computer labs. The course is available on a hybrid (simultaneous in-person OR remote) footing.
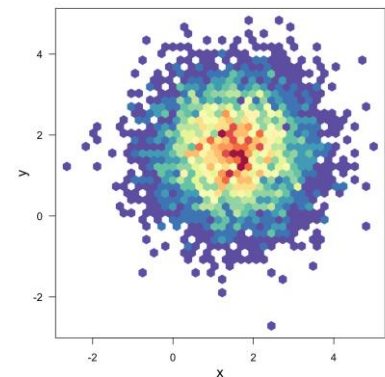

Radar plot of penguins species

Faculty Information

John Withey
Lab 1 2013 (office)
witheyj@evergreen.edu

jwithey.weebly.com

Evergreen Catalog URL

evergreen.edu/catalog/offering/data-analysis-and-visualization-in-r-44928

Why I teach this course: I started my scientific career as a field biologist studying birds. I learned R as a graduate student because I needed to use a 'resource utilization function' to analyze my field data on crows and there was a package available for it. Being able to use an open source program AFTER you're a student is invaluable. You can find a package for nearly any analysis you read about in the literature, and the options for plotting and mapping are endless. Rather than 'make' you an expert in a particular area, my goal for the course is to help you learn to find good options for data analysis and visualization in R.

All images from r-graph-gallery.com