Lesson 4: Data Types and Levels of Measurement

# Overview

This week we will be starting the first of two lessons devoted to data and the methods for summarizing data. This week we will be examining different methods for classifying data and data abstraction.

As we will learn over the next two weeks there are many ways to classify data. These types are generally distinguished by their sources and functions. Empirical data are collected from observations of the real world. Abstract data arise from formal models. And metadata are data about data.

# Required Readings for Lesson 4

* Read (Journal Club article): Wilson, G., Bryan, J., Cranston, K., Kitzes, J., Nederbragt, L., & Teal, T. K. (2017). Good enough practices in scientific computing. PLOS Computational Biology, 13(6)
* Read: Healy, K. (2018). Chapter 1 - Look at the Data. (pp. 1-5; 9-11).
* Read: Healy, K. (2018). Chapter 2 - Get Started. (pp. 32-49).

# Lesson 4 Lab

* Assigned: L2: Working with Data and R Markdown

# Lesson 4 Deliverables and Tasks

* Quiz 1 (Lesson 1 – Lesson 3)
* Due: Lab L1 due in Blackboard