Week 4: Experimental design, and collecting and managing data (II) – Analysis and presentation:

A discussion of how to recognize statistically significant trends in data and the importance of error analysis. A discussion of case studies will demonstrate the importance of critical reasoning in data analysis. A presentation and discussion will explore effective methods for visually presenting data.

Reading/Homework Assignment

Read Experimental Techniques and the Treatment of Data, page 4, in the booklet On Being A Scientist Responsible Conduct in Research

Also Read:

Method and Scenarios  (from The Responsible Collection, Retention, Sharing, and Interpretation of Data [http://www.onlineethics.org/reseth/mod/data.html](http://www.onlineethics.org/reseth/mod/data.html)

- Struggle over Data
- Data Reduction Techniques
- Confidentiality and Data Access
- Data in a Press Release
- Data Sharing and Intellectual Property
- A lie or Just "a Way of Speaking"?
- Data and Collaboration