Conceptual Issues

Bayesian Psychometric Models, Lecture 2

25 January 2019

Today's Class

1. Git (and how to access the course GitHub repo)
2. RStudio (and how to use Git within RStudio)
3. Chapters from Levy and Mislevy (2017):

▶ Chapter 1: Overview of Assessment and Psychometric Modeling
▶ Chapter 2

4. JAGS
5. If there is time: More from Levy and Mislevy (2017):

▶ Chapter 3

Git Clients

- If you use a Mac/Linux machine, you already have a client as part of the OS.
- If you use Windows, you will have to download and install a client to use Git
    - A good client to use with RStudio is https://git-scm.com/download/win

The Basics of Git

- ▶ Git is a version control system that helps to keep track of changes to files across the lifespan of a project
  - ▶ It is also great for using in collaboration with others
- ▶ An overview of Git is given in many places here are a few:
  - ▶ http://rogerdudler.github.io/git-guide/ (thank you, Dr. LeBeau)
  - ▶ https://git-scm.com/book/en/v2/Getting-Started-Git-Basics
- ▶ I will use these websites to help introduce you to Git concepts

Using Git with R Studio

- Git makes our life easy when used with RStudio as we can use it to keep a current copy of our course notes available
- Example time....

Chapter 1: Overview of Assessment and Psychometric Modeling

- ▶ Chapter provides overview of challenges of assessment
- ▶ Assessment as Evidentiary Reasoning
  - ▶ Purpose of assessment → Inferring traits of people based on their behaviors
  - ▶ Making predictions/conclusions about what is unknown from what is known
- ▶ Another way to summarize chapter: Logic underlying assessment

Toulmin Diagrams

Need graph from book