Reproducing our Analysis w/ Gallup Cycle 1 Data

Running our R Notebook with Experiment 1 Data

- Differences between pilot dataset and experiment 1 dataset:

    - Network updating condition variable doesn't match

        1. Pilot data: four conditions (Fluid, Random, Static, Viscous)
        2. exp1_cooperation: two conditions (Fluid, Static)

        * this is mentioned in Gallup's Experiment 1 R Notebook - they're still doing data collection

    - Some re-naming (e.g. "decision..0.D.1.C" —> "playeraction")

    - Need to create a sessionnum variable (integer; 1:max) from the session variable (factor; "e1.1_2017-09-03",…)

    - "empanel_id" added (for alters and players)

- Small coding error in bootstrapping by session -"40" instead of need to use "length(unique(cooperation$sessionnum))"

- There are only 6 sessions (there were 40 sessions in the pilot data), so although all of our analyses will run, some of them make less sense than before (e.g.)

Examining Gallup's R Notebook

- I had to install packages ahead of running it - some might not even be used in the notebook

- Dataset is missing two of the network updating conditions from pilot data: "We are not able to test the effect of slowly updating strategic networks or randomly updating networks, as no experimental sessions have been completed to date in either of those conditions."

- R notebook (NGS2_WITNESS_Cycle1_Exp1_Notebook.Rmd) first loads in and runs an R script (NGS2_WITNESS_Cycle1_confirmatory_exp1.R)
    - All analysis (model running) is contained in this separate R script
    - The R notebook contains set up code and plots

- The analyses are based on non-Bayesian logistic regression models - there is an R script with the Bayesian version in their NGS2 repo, but it is not used or mentioned in the R notebook or in their repo which looks like a submission to DARPA (9/28)
    - This Bayesian version of the analysis uses Stan models

- Pieces of their R notebook that match ours:
    - 2.1 Experimental design (text)
    - 2.2 Experimental conditions (text)
    - 2.4.1, 2.4.2 names and preview of datasets
    - Some plots in Section Four
        - Plot #2: barplot of "Cooperative players by round and condition"
        - Other plots are not exact replicas, but similar
    - Outputting time to run/knit notebook