**Programming Needs**

**Lobo Lab**

**January 2016**

1. Install Datavyu coding software on one lab computer (desktop) - <http://www.datavyu.org/> (This site has information about the program and links to examples of scripts that are useful.)
2. Test if Datavyu works with ikeys and be sure ikeys is installed on the lab computer - https://itunes.apple.com/us/app/ikey/id427092681?mt=12
3. Write a program for error checking after coding
   1. The program should be easily modifiable so that we can adapt it to work regardless of the assessment, number of coding columns, names of coding columns, behaviors, etc.
      1. Use lots of comments with instructions for any changes we need to make and set all changes at top of script
   2. Throughout the script, use comments to describe sections so we know what they are doing
   3. Needs to error check for:
      1. Missing data? What do you think about this, Iryna?
      2. Spell check the behaviors in each column
      3. Check for any negative durations (end time for behavior is less than start time for behavior in any cell)
      4. Check to ensure start time for assessment is greater than or equal to start time for ID cell and to ensure end time for assessment is less than or equal to end time for ID cell
      5. Check to ensure start time for each period is greater than or equal to start time for the assessment cell and to ensure end time for each period is less than or equal to end time for assessment cell
      6. Anything else to check?
4. Write a program for outputting raw and normalized data for each coding file
   1. This could be a separate data output script or could be added to the current data output script
   2. Not sure of the best way to do this (datavyu does have a data summarizing feature) but we want:
      1. Assessment duration(s) in seconds
      2. Period duration(s) in seconds
      3. Duration of each behavior in seconds (if a behavior was not performed, we still want to output it as 0 seconds so that we can easily copy and paste the data output to a larger file). See example file for data output.
5. Write a program for reliability checking after the same visit is coded twice by different people?
6. Write a program for combining data across columns?
7. Install Datavyu coding software on all lab computers (desktops and 1 laptop) - <http://www.datavyu.org/> (This site has information about the program and links to examples of scripts that are useful.)
8. Be sure ikeys is installed on all lab computers - <https://itunes.apple.com/us/app/ikey/id427092681?mt=12>
9. Make sure there is a copy of all programs accessible on each computer.
10. Provide written instructions on how to adapt and run the programs.
11. Have a meeting to review the steps of the programs with Iryna, Naimisha, and Michele.