**Readme for Forward Flow Analysis Function**

**LSA Engine**

All metrics come from our custom LSA engine. For more details on this, see the follow links:

**Data Format Requirements**

Files must be in csv (comma separated value) format.

The first row of the csv file is a header, and should look like the example below. One each subsequent line, the first column is the subject number, followed by that subjects sequential thoughts.



**Get Similarity Matrices**

This function provides the semantic *similarity* of each word (0 = totally dissimilar; 1 = totally similar).

Word Count: Number of words in each list (given by the header file)

NAs: Number of invalid words in the list (the cell will be empty for these words)

*Example Similarity Matrix*



**Get Distance Matrices**

This function provides the semantic *distance* of each word. It is computed as 1 – similarity. This means that 1 = totally dissimilar thoughts; 0 = totally similar thoughts.

Word Count: Number of words in each list (given by the header file)

NAs: Number of invalid words in the list (the cell will be empty for these words)

*Example Distance Matrix*



**Get Flow Summary**

This function provides the average forward flow for each participant.

Word Count: Number of words in each list (given by the header file)

NAs: Number of invalid words in the list (the cell will be empty for these words)

*Example Flow Summary:*



**Get Serial Flow**

This function provides the forward flow for each word within a list (i.e., the semantic distance between that word and all previous words within the same list). It can be used to make a *Thought Plot*

Word Count: Number of words in each list (given by the header file)

Number of invalid words in the list (the cell will be empty for these words)

Example Serial Flow Matrix:

