Explanation of data for "Network Centralization and Collective Adaptability to a Shifting Environment"

File trialData contains trial-level data.

Explanation of fields:

trial_id : a unique id assigned in increasing order of trial execution. Missing numbers represent trials that did not start due to too few participants clicking the button to start.

network : the name of the network treatment

numCorrectAtFinish : the number of participants with the correct answer registered at the end of the trial

numDropped : the number of participants who started but did not complete the trial. It is not known when they dropped out.

numFailingAttnCheck : the number of participants that did not enter the correct answer to a simple attention check (specifically: who is the murder victim? The answer to this question is given in the first clue, broadcast to everybody in the first moment of the trial)

trialTextMessages : total number of new messages sent that contain free text (includes sharesPlusText, but does not include trialReplies or trialShares)

trialReplies : total number of replies to a different message (could be one's own message)

trialShares : total number of shares of clues to neighbors that did not include free text (i.e., they only passed on a clue that they found via search without their own commentary)

tialSharesPlusText : a subset of trialTextMessages consisting of the combination of a shared clue and a free text message

File individualData contains individual-level data.

Explanation of fields:

trial_id : a unique id assigned in increasing order of trial execution. Missing numbers represent trials that did not start due to too few participants clicking the button to start.

Earnings : amount earned by registering correct answers (in addition to base payment for entering the trial)

completed_trial : 1 if the person completed the trial, 0 otherwise

trial_passed : 1 if the person “passed” by entering the attention check question, 0 otherwise.

correctAtEnd : 1 if the person finished the trial with the correct answer (to the non-attention-check question) registered, 0 otherwise

network : the name of the network treatment

node : node/position number of the participant (see paper for explanation of network structures)

AttnCheckSolnTime : the time, in seconds after the trial’s beginning, at which the person entered the correct answer to the attention check. If they never entered it, this takes the value “Inf” (for Infinity).

totalMessages : sum of all messages (including text or not) and replies

textMessages : number of new messages including text (not including shares plus text)

shares : number of shares without an associated free text message

sharesPlusText : number of shares with a free text message

replies : number of replies to a different message (possibly one’s own)

File solutions1 contains data on solutions registered over time. Each row represents a new solution being entered by a participant

Explanation of fields:

seconds : the number of seconds (after the trial starts) that the solution was registered

trial_id : see trial_id above

solution : three possible values. “correct” if the solution is correct, “RH” if the solution is the main red herring, “OA” if one of four other possible answers.

matchingAlters : the number of visible alters (peers) whose answer matches the solution given by this person

totalAlters : the number of total visible alters

altersWAnswer : the number of visible alters who have entered an answer

correctAlters : the number of visible alters who have entered the correct answer

RHalters : the number of visible alters who have entered the red herring answer

OAalters : the number of visible alters who have entered another answer than the above

unqSolsVisible : the number of unique solutions visible at this time

node : see “node” above

network : see “network” above

File solutions2 contains data on solutions registered over time in a different format. Each row represents a snapshot of a single participant, taken at 30 second intervals (rather than when a new solution is entered)

Explanation of fields:

All the same as solutions1, with the exception of the following:

seconds : the number of seconds at which this snapshot of solutions was taken.

solution : four possible values. “none” if no solution has been entered, “correct” if the solution is correct, “RH” if the solution is the main red herring, “OA” if one of four other possible answers