[READ ME]

The Anaconda environment to run the scripts is in the folder (environment.yml).

The notebooks and the scripts to replicate the images and the analysis of the paper are in the folder DATA\_AND\_CODE. Images (related to analysis) are also stored in the IMAGES folder.

The files dfLogit.csv, dfBacktrack.csv and dfTime.csv contains the data to produce Figures 2,3,4 of the paper. The (general) mixed-effects models are run via the r script regression.R and the significances assessed via chi square tests for each factor. The script in regressionLmerTest.R runs the same models but assess significance of the effects via the library lmertest.

The SynopticDataframe.csv file contains all the information needed to run the analysis and produce the figures of the paper.

Analysis for the model comparison (forward and forward + “obvious ending”) are done in ANALYSIS\_LOGLIKELIHOOD\_RANK.ipynb, as well as some supplementary figures.

In ANALYSIS\_FIGURES4.ipynb it is produced only the image for the S4.

In the fold PD\_V18 there are two sets of files. Those starting with PD\_ARGMAX\_BACKWARD\_ +str(*n*) contain the distributions of rewards collected by the forward + “obvious ending” model with planning depth *n* for each problem; those starting with PD\_NO\_BACKWARD\_ +str(*n*) contain the distributions of rewards collected by the forward model with planning depth *n* in each problem.

Scripts: AgentForServerNO\_BACKWARD.py and AgentForServerBACKWARD.py contain the search algorithms (for forward and forward + “obvious ending” models respectively).

Rdf.csv is a synoptic dataframe containing info about rewards collected by participants before the first backtrack.

minAgentDict.json is a dictionary that associates to each problem the DepthID used for the analysis plotted in Figure 2,3,4.