



Key:

A -> B – indicates flow of data from A to B.

Purple – GUI input/output

Red – analytical and synthetic reasoning for classification/organisation purposes.

Blue – analytical deep learning algorithm with overlaid Bayesian reasoning using Boolean logic.

Green – Core module which represents human episodic memory – critical for advanced learning. This module represents a constant log of all computations (including the metacognitive module) with its own deep learning algorithm, Bayesian reasoning and Boolean logic. Capable of combining/modifying algorithms.

Orange – Metacognitive module – critical for the creative process. At its heart has a random seed which allows it to mutate different adapted algorithms. Selects algorithms based on their ‘fitness’ and evolves solutions to knowledge problems using deep learning, Bayesian reasoning and Boolean logic as applied to the core driver and processing module either directly or through the core module. When faced with an intractable problem it employs recursion to analyse itself until it finds a possible method for solving the problem at hand which it then send to processing until a solution is found.