

CRX_{Lite} 2.0

This work comprises of ideas on creating a intelligent model, which was developed from Brain inspired theory – BrainX and Brain inspired architecture – CRX.



Summary

BrainX – Impulses from all the senses form a dynamic system inside the brain; this system coordinates thought generation by creating the necessary interaction with the brain regions.

CRX – CRX replicates everything in the BrainX theory, with some modifications that were suitable to make it a computer-suitable model. (The model is not finished, as more computation is needed. Because real-time neuron computation is so high, a CRX Lite was developed.)

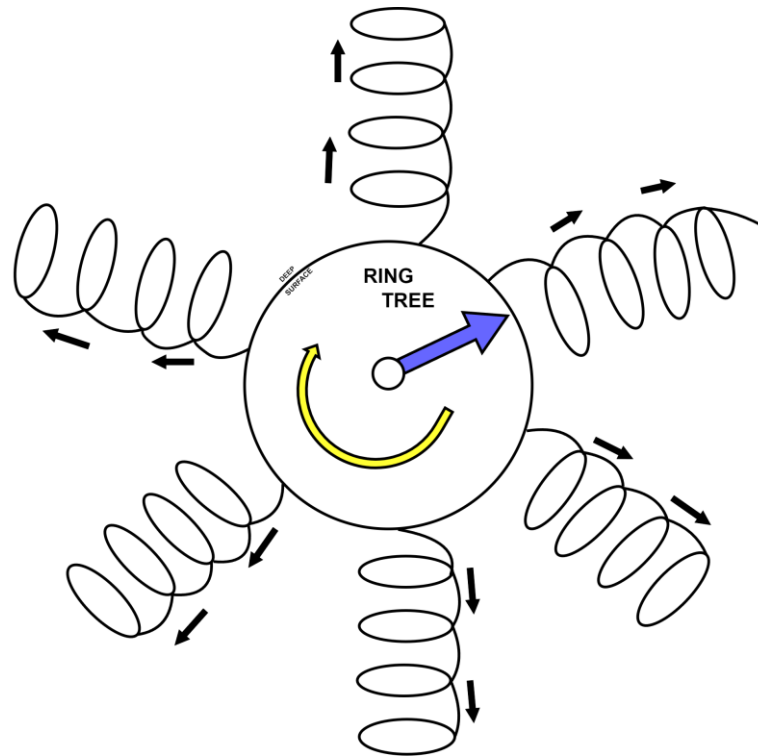
CRX Lite – This lite version will provide what CRX provides, but the functions are optimized for a machine type (changing from a biology type to a machine type).

Brain Region = Sensor's function

In the human body, sensors receive external inputs and pass them into their specialized regions within the brain. The same concept was replicated, but why a region? Why not send it straight to the processing unit of the brain? The reason lies in the responsibility of these brain regions; these regions have to report how the input was received when being asked by the processing unit. This means that when receiving an input, at that time the head was tilted to the left. When the same input is sent to that region again by the processing unit, it has to say that the head was tilted.

What is Ringtree?

It is like a dictionary that stores the encoded incoming information in correct order. This dictionary can re-organize the information based on the frequencies, and also create branches if needed. It is more like a tree structure.



Intelligence??

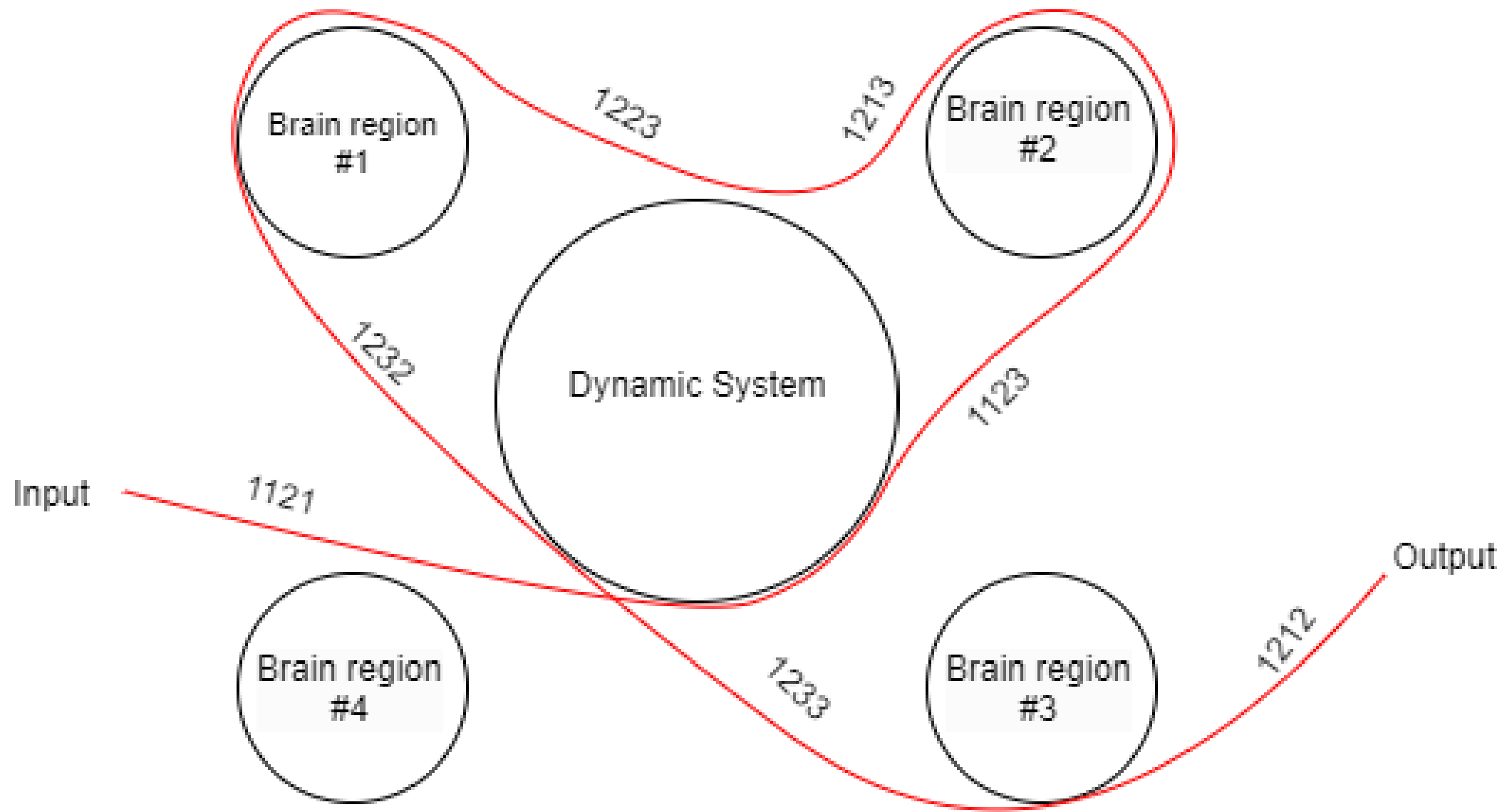
Intelligence is the use of correct information from the stored database. Database information storage is unique for each brain as it is based on the timing of incoming inputs with already in-place processing information, as this will form the associative memory which acts as a foundation. People get inputs at different timings, and a person's activity is not the same when receiving that input (as motor brain regions influence the incoming inputs).

Emotions are a booster to the brain that speeds up the process of thought generation and also strengthens the pathways. The strengthening of pathways leads to a preference in getting selective external inputs, which leads to the storage of unique associative memory in the database.

The play

The brain, as it gets input, forms a dynamic system (imagine for easier understanding) like an impulse force that goes to all the connected brain regions. This impulse force again creates a dynamic circuit in those brain regions; this circuitry changes the impulse type. This impulse type changes with each brain region, and the dynamic system is the processing of that information within the brain. This system retrieves essential information from brain regions and dynamic systems. In other words, brain regions and dynamic systems engage in a deep Q/A conversation about the input.

We will not be aware of these conversations, with the exception of eyes and tongue movement (maybe other senses too, like auditory, but it requires experimental research).



Eye & tongue = Self awareness

These regional senses will activate those specialized organs in accordance with the information processing in those brain regions. Imagination and inner speech mostly contribute to self-awareness.

That activation of specialized organs leads to movement of the tongue and re-activation of images in the visual system, which now acts as an input to the brain region and finally to the processing unit (dynamic system), because it was a result of brain region activation. In this way, the activation of those sensor organs mimics reality and gives us self-awareness (which will only happen if the sensor organ's self-activation input is processed and activates another related thought) of what we are doing.

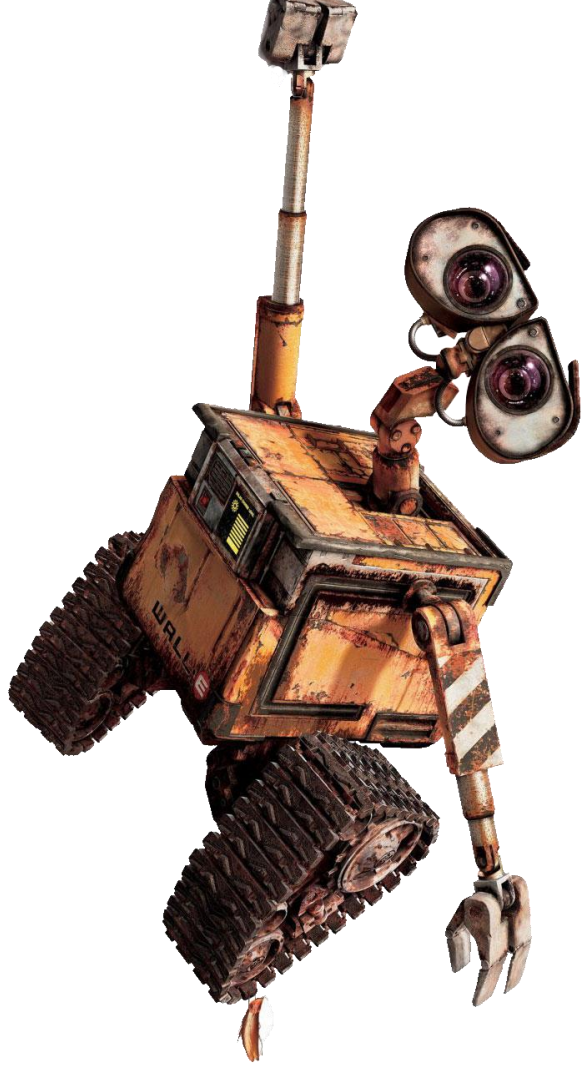
Why it was possible in this way?

Forget about this concept? If we think in general, any information that is stored in a database, and retrieved at a required time, can be said to solve remembering and generating thoughts.

And for creativity, it is a replacement of one event with another with the help of similarity. A brain region (like a source of randomness) runs another event that, with timing and chance, may be a good replacement. This is also the reason for a slightly different answer to the same question every day, if we don't remember the answer from yesterday.

Consciousness is the real-time awareness of your thoughts and sensory feelings. I have a solid theory, but it is not required in this file.

Thought generation (reasoning is a byproduct) plus creativity (new thought formation every day) equals intelligence.



Thank you

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