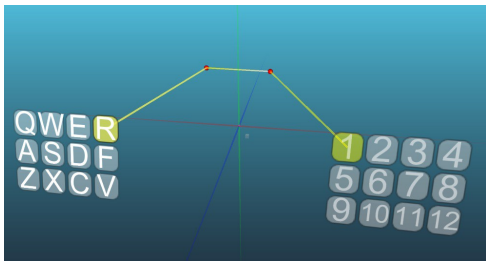
Saved files

System save run a series of buttons in the upper right corner of the program window:

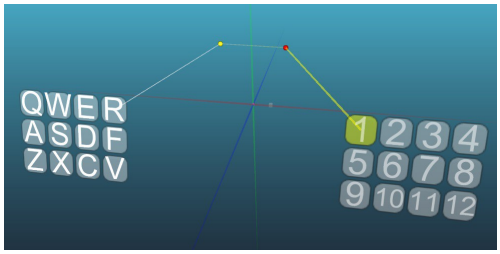
button “New” - clear the stage.
button “Open” - separates the file name specified in the input field, which is located in a particular directory. If a file with the specified name is not, then nothing happens.
Button “Save” - saves the scene to a file in a directory with the name specified in the input field. If the file with that name already exists, then it is going to be replaced.
All Saved files are located in a directory:
“Simulation of nervous system (ENG)\Simulation of nervous system_Data\Data\”
Saving a file does not have an extension, but are configured ini-file.

Part1_1



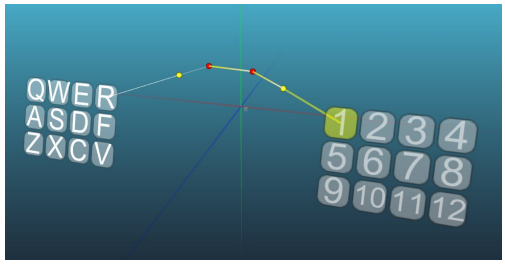
An example of a simple reflex, analogue may be a knee-jerk dvuhneyronny. Receptor «R» leads to "1" action.

Part1_2



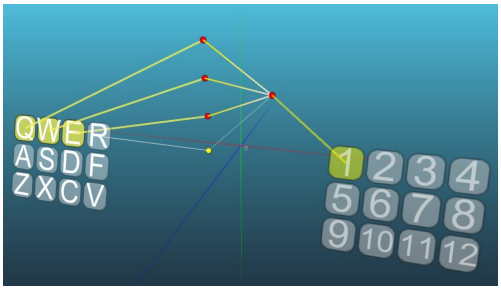
Example pulse frequency transformation. In a single signal from the «R» receptor obtained a series of "1" action.

Part1_3



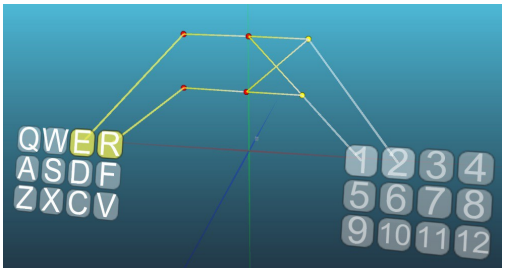
An example of the transformation frequency to decrease the pulse. The first part of the reflex: receptor stimulation on the single «R» is formed by a series of rapid activation. The second part of a series of frequent pulses converted into a rare purity.

Part1_4



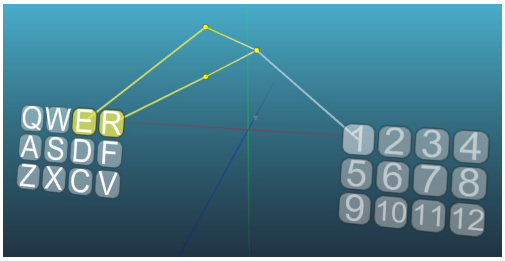
Example summation. The action of "1" will appear only in case of simultaneous activation of two receptors or the activation of a sufficiently frequent.

Part1_5



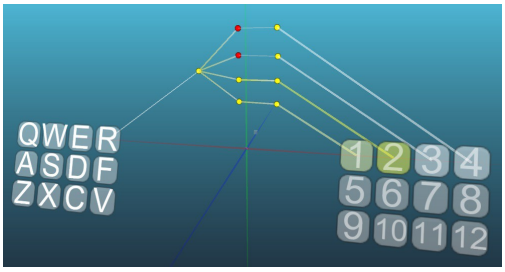
Example competitive reflexes. Reflexes headers «E» and «R» works well alone, but the activation of these receptors leads to simultaneously responses.

Part1_6



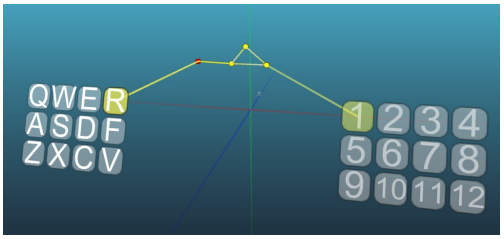
Example braking. When activated receptor «E» is braked actions that occur during the activation of the receptor «R».

Part1_7



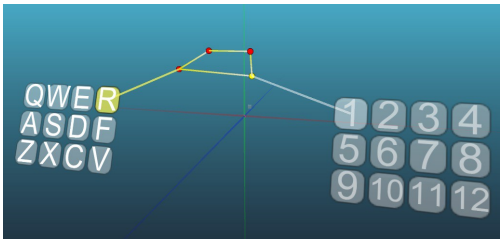
Various response times.

Part1_8



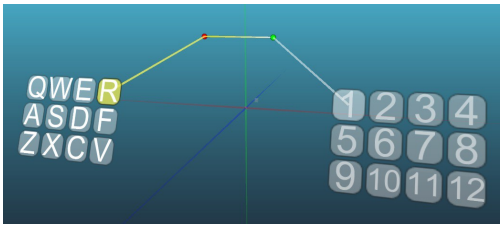
Inhibition of cell Renshaw

Part1_9



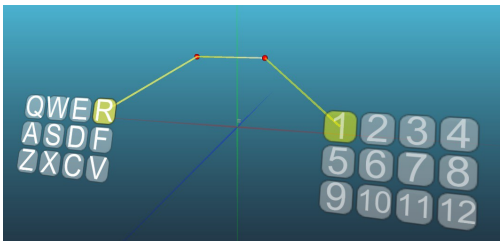
Driving innovation audio signals. Active receptor «R» leads to only one short answer.

Part2_1



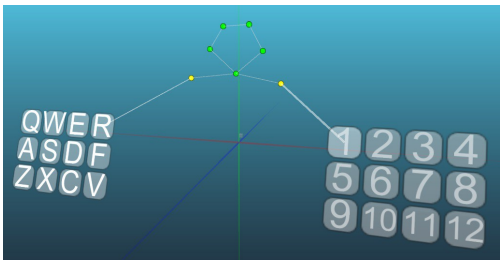
Example addiction. At sufficiently frequent activation is interrupted responses to this irritation.

Part2_2



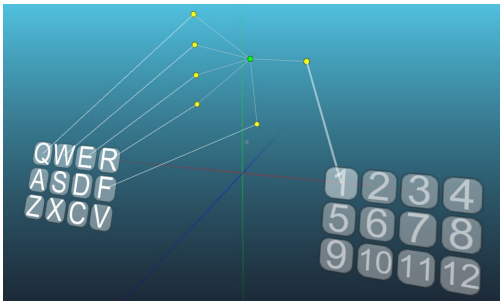
An example of adaptation and addictive. Over time, after getting used to a gradual recovery of the threshold to the previous level.

Part2_3



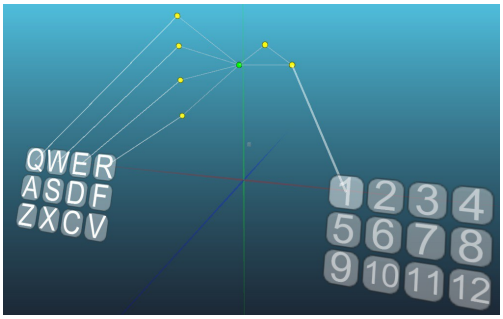
Addictive and adaptation. No infinite loop.

Part2_4



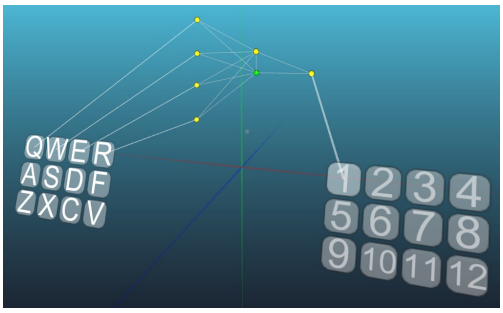
Example sensitization. The scheme of the mollusk Aplysia nervous system of experiments Eric Kandel.

Part2_5



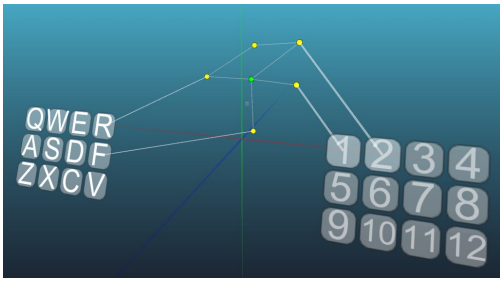
Example sensitization. First, a single stimulus does not lead to the answer. But after a strong impact and a single stimulus is the answer.

Part2_6



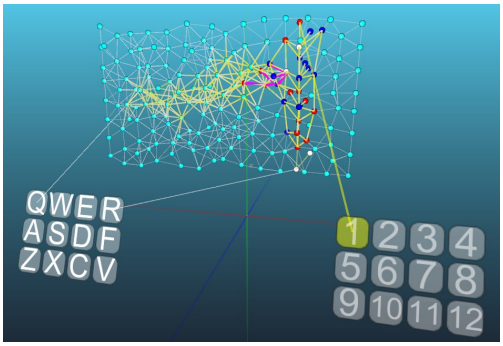
Example sensitization. First, a single stimulus does not lead to the answer. But after a strong impact and a single stimulus is the answer.

Part2_7



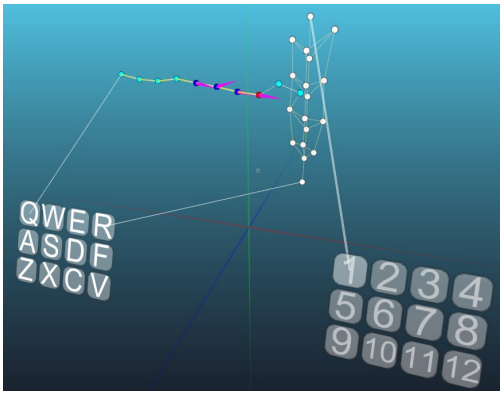
"Switch" example. There reflex «R» => «1». After a short activation of the receptor modulation «F» for some time during stimulation of «R» will appear the answer is "2".

Part3_1



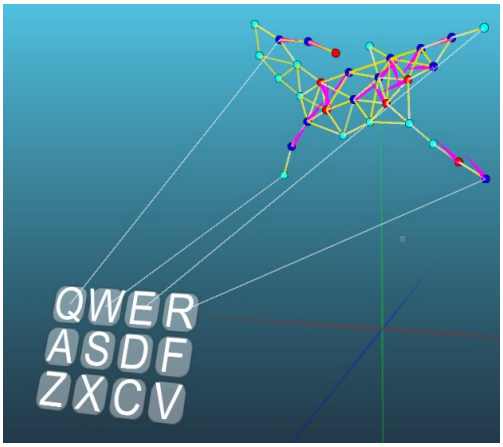
An example of the formation of a conditioned reflex. There is the unconditioned reflex «R» => «1» and the indifferent stimulus «Q». When combined «R» and «Q» may reflex «Q» => «1».

Part3_2



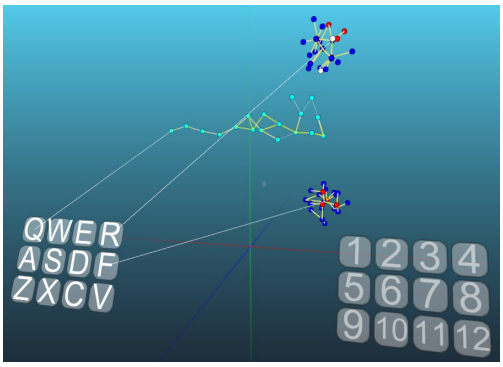
An example of the formation of a conditioned reflex to the dynamics. The dynamics of the creation of neurons only for convenience and clarity of formation of reflex.

Part3_3



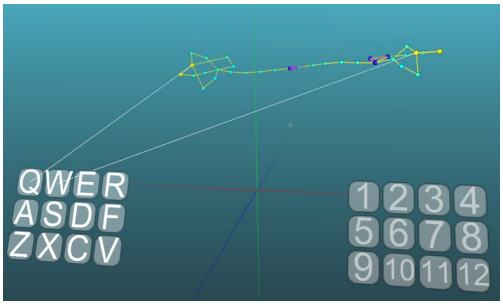
An example of the interaction of equivalent centers of excitation.

Part3_4



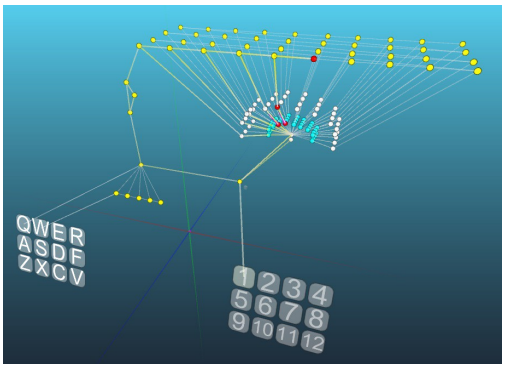
Influence of strong centers of excitation weaker.

Part4_1; Part4_2; Part4_3; Part4_4; Part4_5; Part4_6



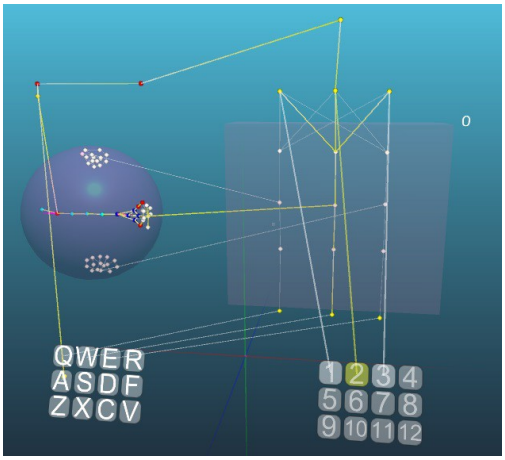
Model for various tinctures change action potential. Press the "1-Area brain", then "<" at the bottom of the window. Sixteen vertical sliders define the variation of the charge.

Part5_1



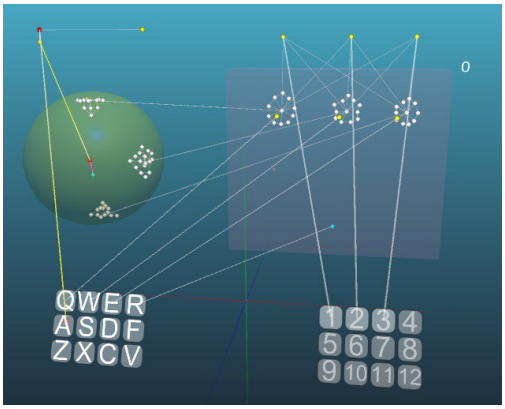
An example of the cerebellum.
https://youtu.be/wephagCGpvs

Part6_1



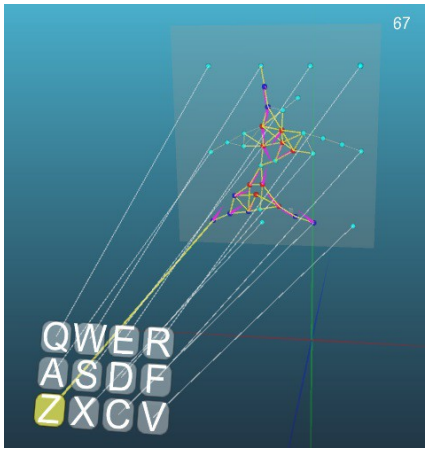
An example of the formation of behavior under the influence of the emotional mechanism to meet the needs.

Part6_2



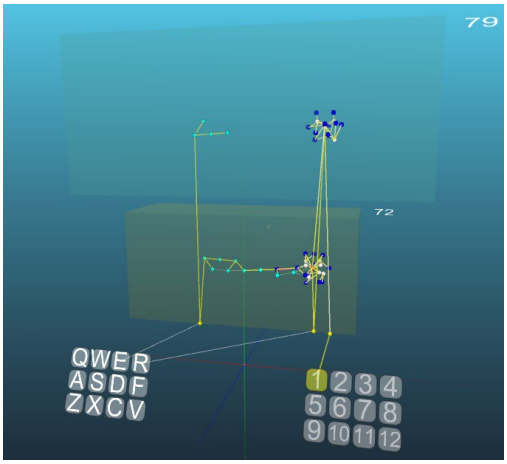
An example of the formation of behavior under the influence of the emotional mechanism to meet the novelty requirement.

Part6_3



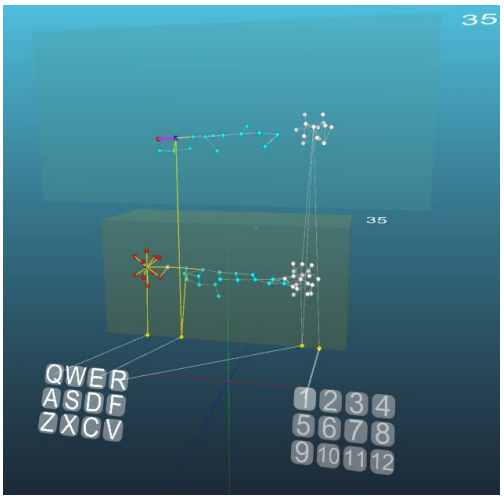
Evaluation of information novelty. The indicator at the top right of the rectangular area.

Part7_1



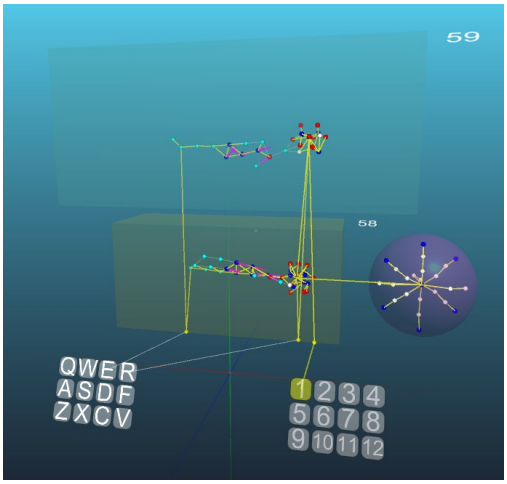
Formation of the reflex arc in the regions with different ductility. An example of temporary and long-term memory, memory consolidation.

Part7_2



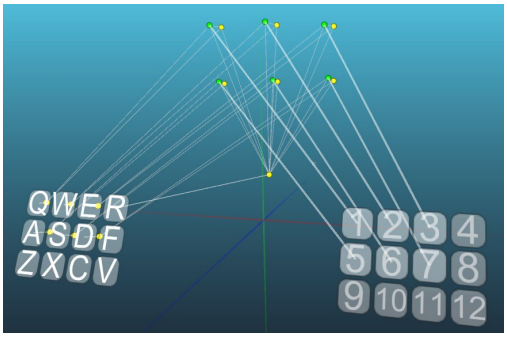
Example **Part7_1** but irritant «Q» which aims to prevent assimilate the information in long-term memory.

Part7_3



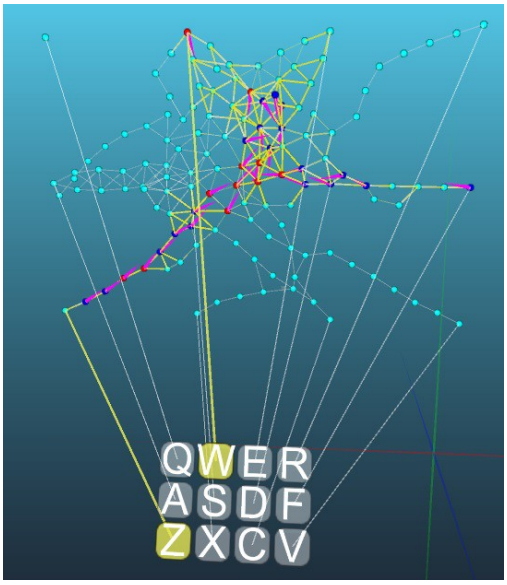
An example of emotional memory. The activity area «amygdala» leads to lower plasticity in the upper region.

Part7_4



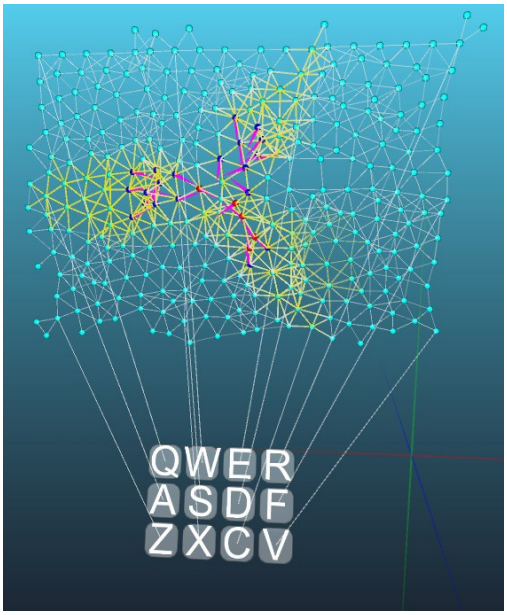
Example LTP.

Part8_1



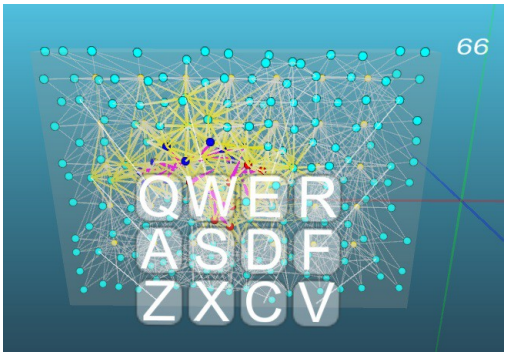
An example of the interaction of equivalent centers of excitation.

Part8_2



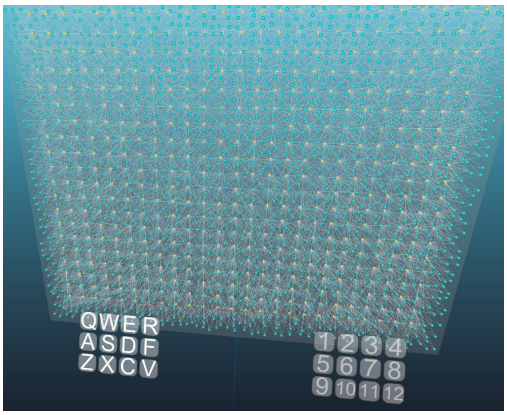
An example of the interaction of equivalent centers of excitation. Formation of images.

Part8_3; Part8_4



Examples of the separation images.

Part8_5



System Test. Optimization model one of the problems I'm working on.