Do Fruit Flies Have Free Will?

Björn Brembs¹, Chih-hao Hsieh², George Sugihara³ and Alexander Maye⁴

¹ Free University Berlin, Institut für Biologie - Neurobiologie, 14195 Berlin, Germany
² Scripps Institution of Oceanography, University of California, San Diego, La Jolla, California 92093-0022, USA
³ Universitätsklinikum Hamburg-Eppendorf, Institut für Neurophysiologie und Psychophysiology, 20246 Hamburg, Germany
⁴ bjoern@brembs.net, http://brembs.net/spontaneous

Is there spontaneous behavior?

Scientifically, the ability to explain phenomena (like fruit flies, for example) by deterministic laws is an important milestone. Considering that diverse phenomena are explained in this way, it may be assumed that the most complex and unpredictable events are the result of non-deterministic forces. However, non-deterministic forces produce complexity that is difficult to explain scientifically. This assumption is supported by a growing body of evidence, including computer simulations and empirical data from various fields. Nevertheless, there are still challenges in explaining the seemingly random behavior of living systems. One possibility is that there is a way to control or predict complex behavior, but this requires understanding the underlying mechanisms. An example is the use of computer simulations to investigate the behavior of a theoretical system. These simulations can help us understand how complex behavior arises and how it can be predicted or controlled. In this case, the simulation shows that a certain input leads to specific output, which is difficult to predict from the initial conditions. Therefore, understanding the underlying mechanisms is crucial for predicting complex behavior.

Fig. 3: A new type of model

A new type of model

The so-called "black box" model is a type of model that is not well understood. This model is designed to simulate the behavior of a complex system, but its exact function is unknown. As a result, it is difficult to explain the behavior of the system using deterministic laws. However, this model has been used to simulate the behavior of the nervous system, including the behavior of fruit flies. The model uses a combination of linear and non-linear equations to simulate the behavior of the system. The results show that the model can simulate the behavior of the nervous system with high accuracy. This suggests that the model can be used to predict the behavior of the nervous system, which is important for understanding complex behavior.

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