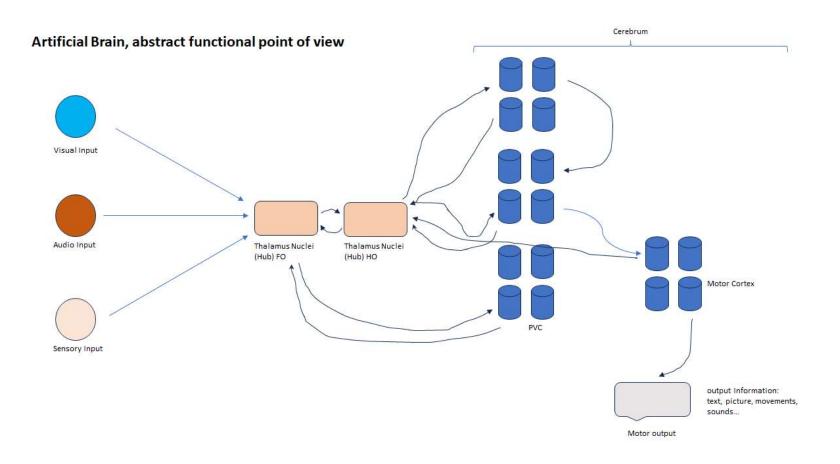
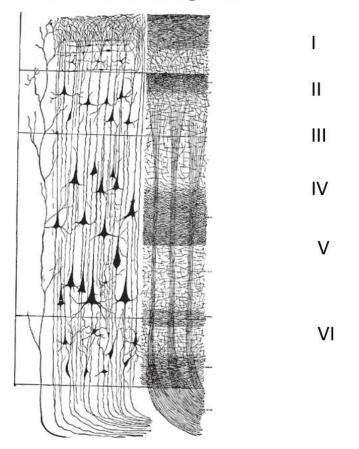


Xephor Artificial
AGI realized by Stochastic Fibred Category Theory

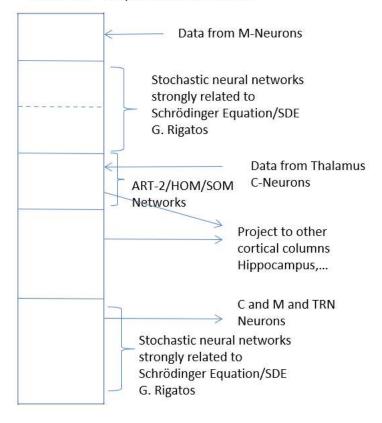




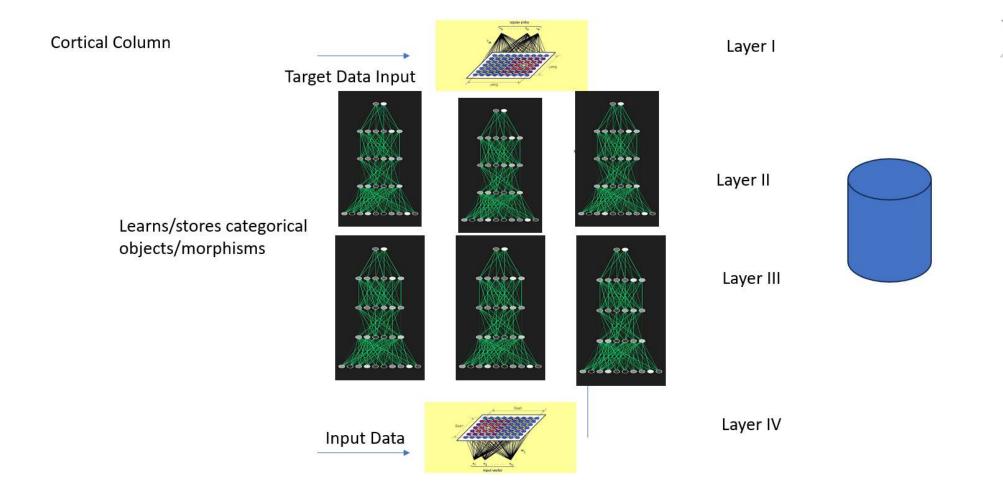
## Machine learning new-> QNN

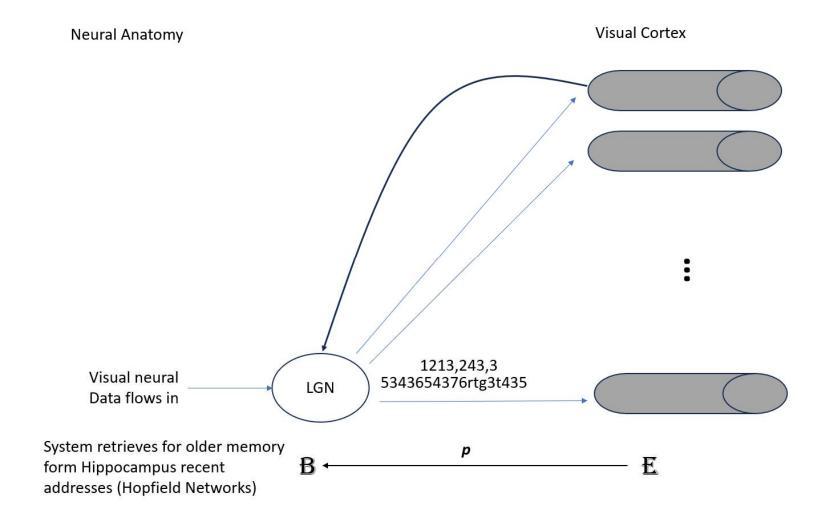


There are 3 – 6 layers columns in the HB

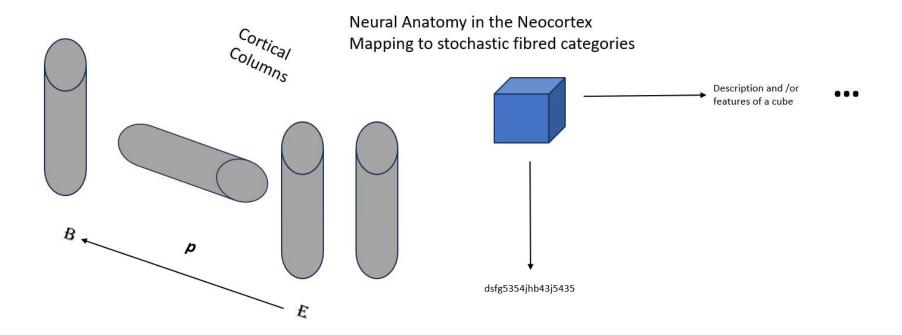








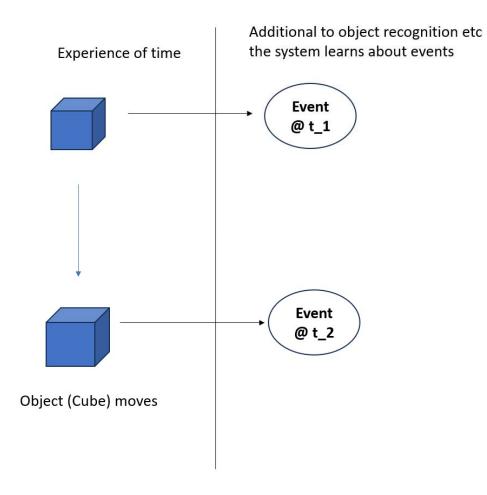


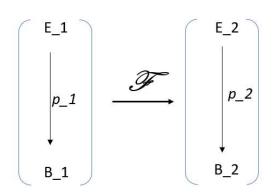


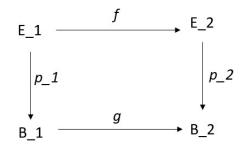
Address (Index Object)

Objects, Functors, Natural Transformation like cubes, humans, rotation, walking...



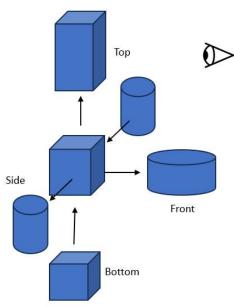






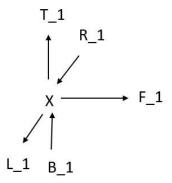


# Spatial Imagination I



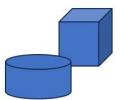
System is able to identify the different objects on an image/sensor data from real world





System is creating/revoking a model from original trained information

### Spatial Imagination II

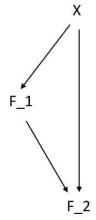






Morphism/Functors are cortical columns

- -thalamus nuclei
- e.g. input X signals -> output F\_1 signals
- → reverse order: output only one direction

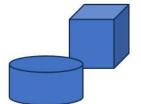


Objects and arrows are trained/learned information



### Spatial Imagination III

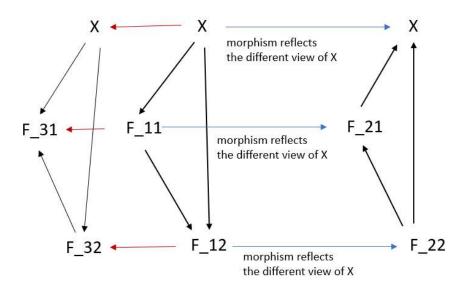








## Functor/natural transformation





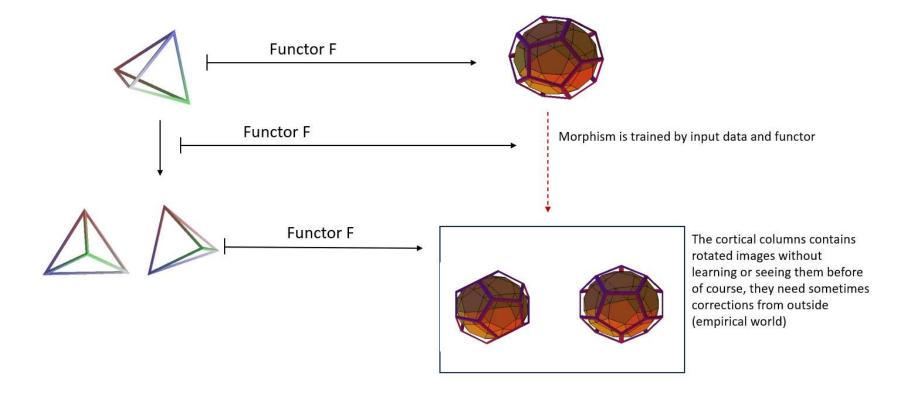
#### Spatial imagination Use Case I



Input: Word Tetrahedron and the command to show them and different views Input: More complex body (e.g. a Functor F octahedron and its dual the cube) Cortical columns which find the Functor F (autonomous learned) correct other cortical Cortical Column automatically columns trained to learn from Input and containing the different output information, different rotated views of the tetrahedron Functor F Cortical Column Cortical Columns Bundle Cortical Columns containing the learned containing the different learned different rotated complex body rotates views of a tetrahedron maybe associated with angle or more rough information

### Spatial imagination Use Case II







# Thank you!

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