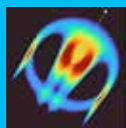


System design

Cellular automata

Continuous



Discrete

1 dimensional



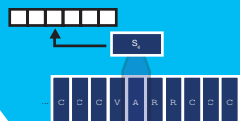
2 dimensional



L-Systems



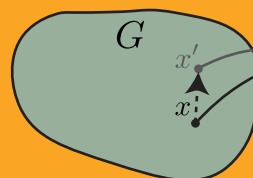
Turing machines



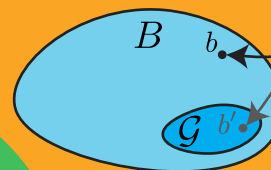
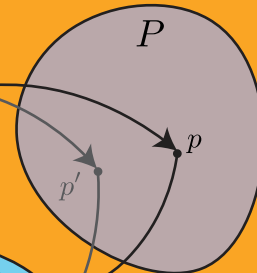
(...)

System control

Genotypes



Phenotypes



Behavior

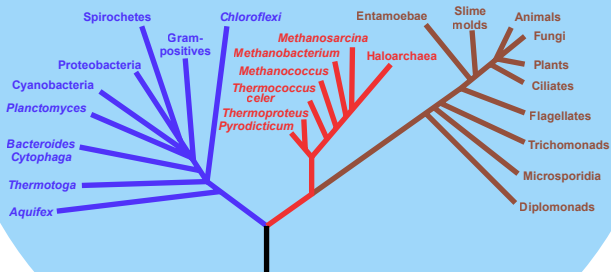
Challenges with complex systems

Open-ended evolution

Bacteria

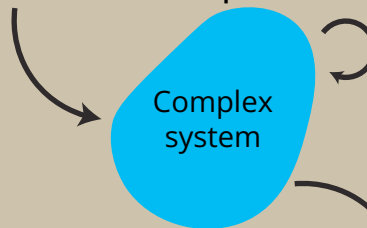
Archaea

Eukaryota



Communicate with the system

How to send inputs?



Read back outputs?