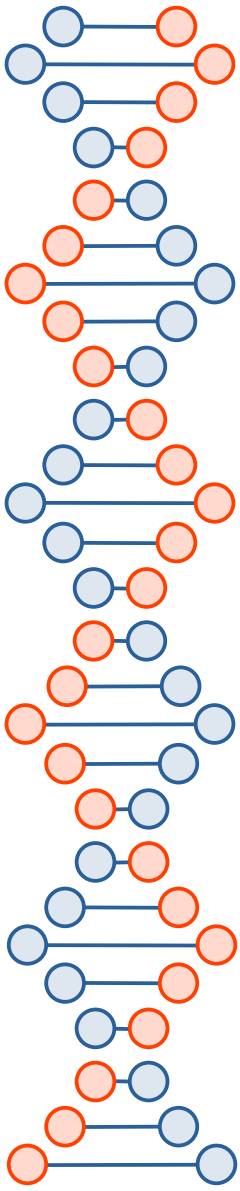


What Are Complex Systems?

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General Features of Complex Systems

- Contain many constituents interacting nonlinearly (e.g. brain)
- Constituents of a complex system are interdependent (e.g. gas vs human body)
- Possess a structure spanning several scales (head..., muscles..., cells, chromosomes, DNA...)
- Capable of emerging behaviour
- Lead to self-organisation and adaptive systems

How to Study Complex Systems?

- Historically people “felt” the dynamics
- Today a combination of tools, traditionally “belonging” to (statistical) physics
- Rediscovery on a solid mathematical foundation!
- “Hot” research area

