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# Compu Chemi

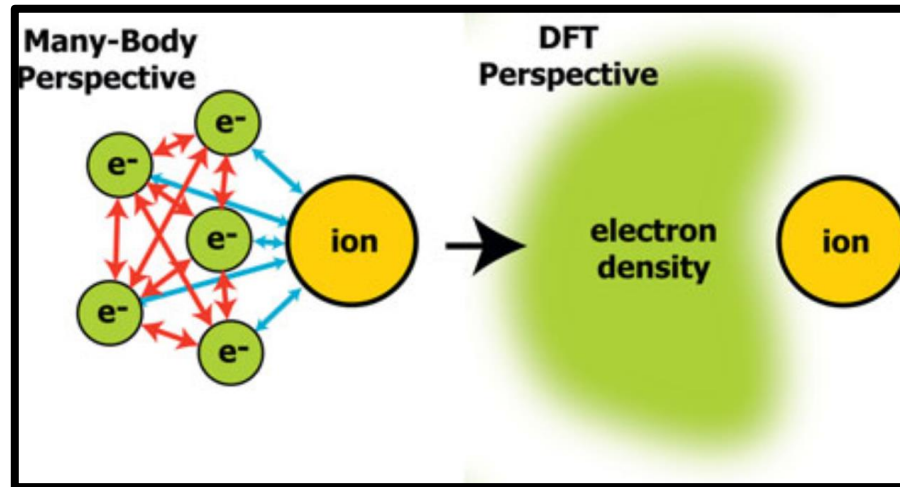


Figure from Internet

# Compu Bio

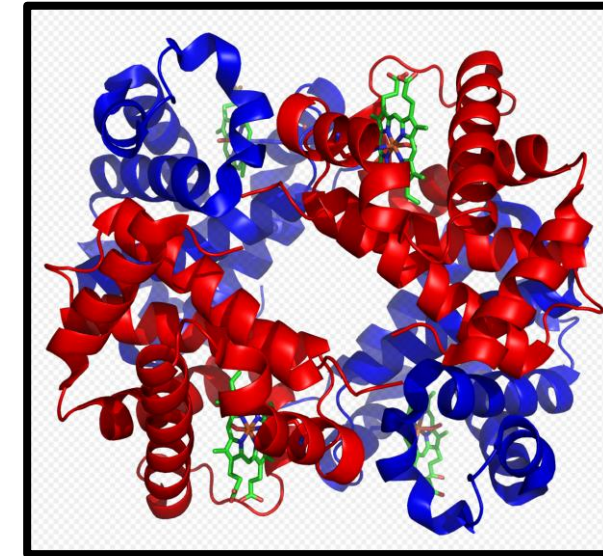


Figure from Internet

# Compu Graphics

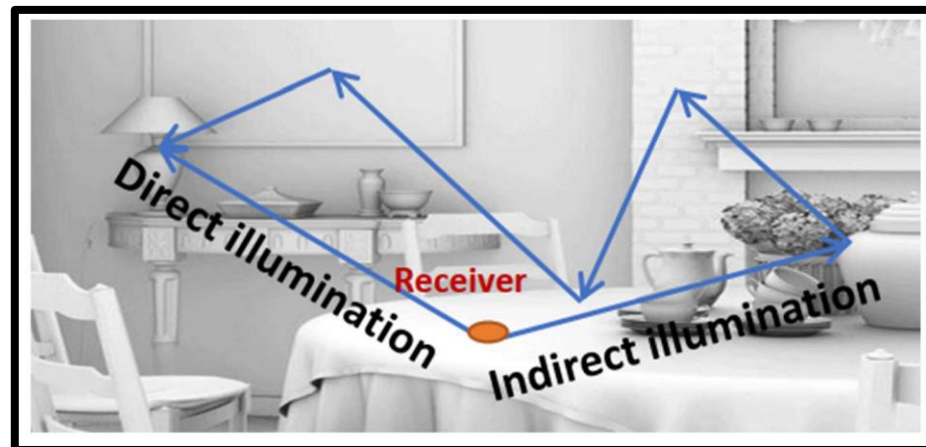
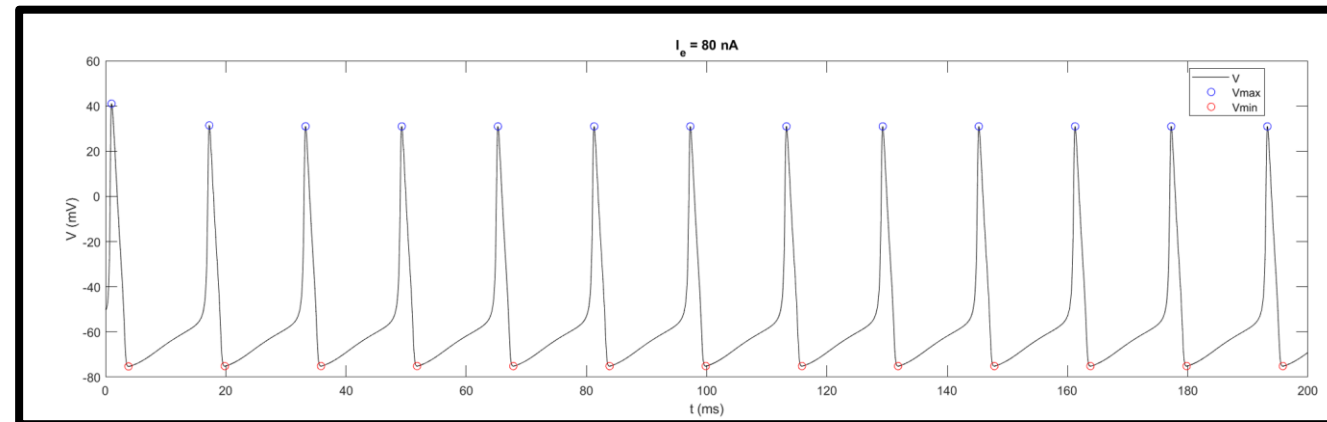


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# Compu Neuro



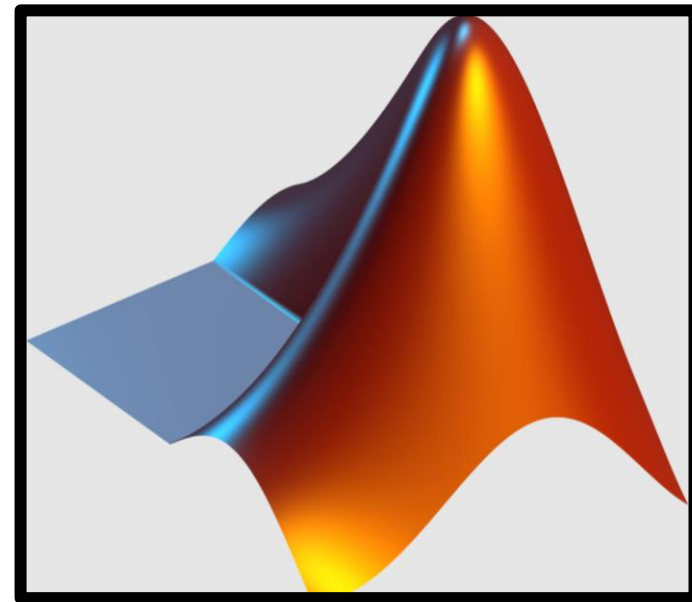
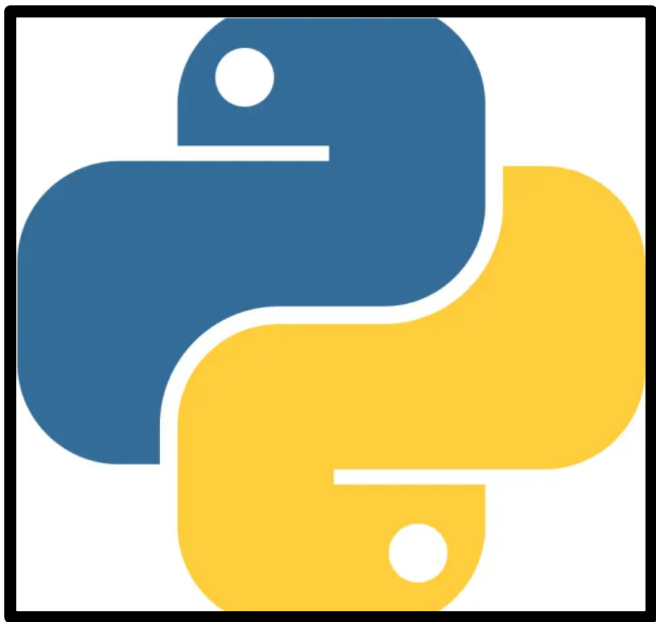
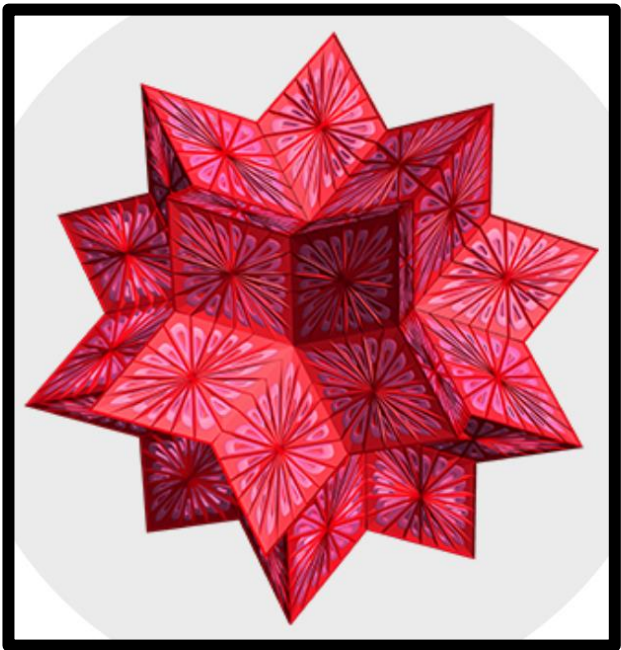


Figure from Internet



# Take Home Message

1. Monte Carlo: `np.random.uniform`.
2. Finite Diff: Replace Differential With Difference.
3. Finite Elem: DE  $\rightarrow$  Functional  $\rightarrow$  Linear Algebra Eqs.
4. Molecular Dynamics: Newton.
5. Machine Learning: To Resolve Complex System.
6. Neuro & DL: 50 Years Entangled.
7. Neuroscience: Blocked by Complex System.
8. DL: Technology Revolution For Sure, Science Revolution Maybe.
9. More Is Different: Respect Other Disciplines.

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