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Introduction to VMD (Visual Molecular Dynamics)

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VMD

VMD web page: http://www.ks.uiuc.edu/Research/vmd/
Documentation: http://www.ks.uiuc.edu/Research/vmd/current/docs.html

VMD is designed for **modeling, visualization, and analysis** of biological systems such as proteins, nucleic acids, lipid bilayer assemblies, etc. It may be used to view more general molecules, as **VMD can read standard Protein Data Bank (PDB)** files and display the contained structure. VMD provides a wide variety of methods for rendering and coloring a molecule: simple points and lines, CPK spheres and cylinders, licorice bonds, backbone tubes and ribbons, cartoon drawings, and others. **VMD can be used to animate and analyze the trajectory of a molecular dynamics (MD) simulation**. In particular, VMD can act as a graphical front end for an external MD program by displaying and animating a molecule undergoing simulation on a remote computer.

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VMD

Now we will follow the manual and I'll demonstrate how to use VMD.