

Hands-on: PyMOL Molecular Visualization

Getting Started

- Install PyMOL (open source available)
- Load PDB files: fetch 1AKE
- Basic navigation: mouse controls
- Command line interface

Visualization Options

- Cartoon: secondary structure
- Sticks: detailed bonds
- Surface: molecular surface
- Ribbon: protein backbone

Analysis Tools

- Distance measurements
- Hydrogen bond identification
- Surface area calculations
- Electrostatic potentials

Creating Figures

- Ray tracing for publication
- Color schemes
- Label atoms/residues
- Export high-resolution images