Help for a given command help command name

Loading structures

Load from hard disk load /path/filename.pdb (optional: , name)

Retrieve from PDB **fetch 1UBQ** (or any other PDB ID)

Navigating

Orient (centers view): orient 1UBQ (or another selection)

Reset view to cover everything: reset

Selection

All selections can be combined with "and", "or", "not" logic. Parentheses give hierarchy.

Basic selection pattern: select name, what_to_select

molecule name 1UBQ (name as listed in the names panel)

residues by number resid 10,51

residue range resid 10-70,80-90

residues by type chain chain A atom name ca element elem O

secondary structure ss S (S selects strands; H helices; "" loops)

example: select helix, 1UBQ and (resid 10-60) and name ca and ss H

selects the α -carbons (name ca) of all residues that fall between

residues 10 and 60 and are part of an α -helix.

complex example: select link, 2JF5 and ((resid 68) and chain A and not (name

c+o+n)) or ((resid 76) and chain B and not (name n))

selects the side chain of residue 68 in chain A and everything but

the amino group of residue 76 in chain B.

Change name of selection: set name old name, new name

Changing representations

Show: show cartoon, 1UBQ and ss H
Hide: hide sticks, 1UBQ and (resid 48,63)

cartoon, ribbon, sticks, lines, surface, spheres, nonbonded, everything (and more)

Coloring

Background color: bg color white

Basic coloring: color yellow, (resid 40-60) and elem C
Color a certain representation: set cartoon color, yellow, 1UBQ and ss H

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