Cheatography

Pymol_Basic Cheat Sheet by leilaP via cheatography.com/36664/cs/11524/

Set up						
Set working directory	cd C:\Use	rs\				
Load pdb file from pdb website	fetch lub	q				
Load pdb file from local disk	load lubq	.pdb				
new log file	log_open file_n	ame.pml				
save and quit log file	log_close					
comment	#					
record the view coordinate	get_view					
run a log as a script	@file_name.pml					
resume log file = run then edit at append log file = edit at the end v	the end without running					
Selection						
Selection						
select selection_name, se	elect carbon _bet	ta, n. cb)			
select selection_name=- se	elect carbon _bet	ta = (n;	cb			
(selection expression)						
logical operator: and (/), not, or. !order of precedence> use ()						
Selection - single word						
All atoms	all	*				
No atoms	none	none				
All hydrogen atoms	hydro	h.				
All atoms from HETATM record	het	hetatm				
Porperty selector identifiers						
Atom by chemical symbol ex: Oxygen = O		symbol	e.			
Atom/nucleic acid by code ex: $C\alpha$ = ca, $C\beta$ = cb		name	n			
Aa/nucleic acid by code ex: Asparagine = asp / adenosine	e = a	resn	r			
residue identifier (1-9999)		resi	i			
PDB chain identifier (check in PE number ID)	DB file if letter or	chain	С			
Secondary structure: α helix = 'H', β strand = "S", Loop) = 'L'	SS	SS			

carbon α : first carbon bond to the side chain carbon β : second carbon bond to the side chain

By leilaP

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election macros

/object-name/segi-identifier/chain-identifier/resi-identifier/name-identifier

start by "/": start from the top of the hierarchie (object-name)

end by "/": start from the bottom of the hierarchie (name-id)

// :skip one level of hierarchie

ex: select lys, /helix _al pha ///lys
select all the residue of lysine from the object "helix_alpha"

Diplay

show the selection as this diplay type	<pre>show_as lines, select ion _name cmd.sh ow_ as(" lin es", " sel ect io n _na me")</pre>			
add this display type of the selection	<pre>show lines, select ion _name cmd.sh ow(" lin es", " sel ect ion _n a me")</pre>			
hide this display type of the selection	<pre>hide lines, select ion _name cmd.hi de(" lin es", " sel ect ion _n a me")</pre>			
color the selection	coloc color_ name, select ion _name			
zoom on the selection	zoom selection_name			
Show (S button) - Hide (H button) - Color (C button) display type: lines, ribbon, cartoon, stick, label, nonbonded, mainchain, sidechain				
Charlos and diffe				
Structure modification				
adds hydrogens in the appropriate places h_add				
get information				

adds hydrogens in the appropriate places				h_add	
get information					
count the number of atome of	count_	atoms	select	ion _n	
the selection	ame				
selection algebra					
Selects atoms that are not includ	led in s1	not s	51	! s1	

Selects atoms included in both s1 and s2 s1 and s2 s1 & s2 Selects atoms included in either s1 or s2 s1 or s2 s1 | s2

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selection algebra (cont)				
Selects atoms in s1 whose identifiers name, resi, resn, chain and segi all match atoms in s2	s1	in s2	s1	in s2
Selects atoms in s1 whose identifiers name and resi match atoms in s2	s1	like s2	s1	l. s2
Selects all atoms whose van der Waals radii are separated from the van der Waals radii of s1 by a minimum of X Angstroms.	s1	gap X	s1	gap X
Selects atoms with centers within X Angstroms of the center of any atom in s1	s1	around X	s1	a. X
Expands s1 by all atoms within X Angstroms of the center of any atom in s1	s1	expand X	s1	e. X
Selects atoms in s1 that are within X Angstroms of the s2	s1	within X of s2	s1	w. X of s2
Expands selection to complete residues	byı	res sl	br.	s1
Expands selection to complete objects	byc	bbject sl	bo.	s1
Selects atoms directly bonded to s1	nei	ighbor sl	nbı	r. sl



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