

# Condensed Quick Reference Card to RasMol

.....for .....

## Science Olympiad Protein Modeling Teams

### Mouse Buttons

Clicking on an atom identifies that atom in the Command window. Moving the mouse while holding mouse buttons and/or control keys manipulates the molecule. The default bindings are described below.

Mac	Windows	RasMol Action
---	Left	Rotate X-Y
Command	Right	Translate X-Y
Shift	Shift Left	Zoom
Shift-Cmnd	Shift Right	Rotate Z
Control	Control	Left Z -Clipping (Slab)

### General Commands

**select** <expression> Update part of molecule  
**restrict** <expression> Display only part of mol.  
**save script** <filename>.spt Save a script file  
**script** <filename> Execute file of commands

### Display Commands

**wireframe** [boolean] Display wireframe  
**wireframe** <value> Display stick bonds  
**spacefill** [Boolean] Display spacefill  
**spacefill** <value> Specify atom sphere radius  
**backbone** [boolean] Display alpha backbone  
**backbone** <value> Specify backbone radius  
**ssbonds** [boolean] Display disulphide bonds  
**ssbonds** <value> Specify ssbond radius  
**set ssbonds backbone** SSBonds between alphas

### Color Commands

**color** [object] <color> Color representation

#### Predefined Colors:

<b>Blue</b>	<b>Cyan</b>	<b>Green</b>
<b>GreenBlue</b>	<b>Magenta</b>	<b>Red</b>
<b>Orange</b>	<b>Purple</b>	<b>RedOrange</b>
<b>Violet</b>	<b>White</b>	<b>Yellow</b>
<b>CPK</b>		

### Manipulation Commands

**slab** [boolean] Enable/disable slabbing  
**slab** <value> Move Z-clipping plane

**center** [expression] Set center of rotation

### Predefined Sets

<b>Alpha</b>	<b>Backbone</b>	<b>Charged</b>
<b>Hydrophobic</b>	<b>Hetero</b>	<b>Sheet</b>
<b>Helices</b>	<b>Sidechain</b>	<b>Water</b>