|  |  |  |
| --- | --- | --- |
| spoken command | ChimeraX alias command | spoken command macro |

**ChimeraX operations**

|  |  |  |
| --- | --- | --- |
| open |  | open .{BACKSPACE} |
| pdb |  | pdb: |
| emdb |  | emdb: |
| close model |  | close{ENTER} |
| enter |  | {ENTER} |
| space |  | .{BACKSPACE} |
| dash |  | - |
| Backspace |  | {BACKSPACE} |
| vr on | alias vr\_on vr on | vr\_on{ENTER} |
| vr off | alias vr\_off vr off | vr\_off{ENTER} |

**Atomic Representation Display**

|  |  |  |
| --- | --- | --- |
| display surface | alias display\_surface hide selAtoms atoms;hide selAtoms ribbon;surface selAtoms probeRadius 1.4 gridspacing 1 | display\_surface {ENTER} |
| show surface | alias show\_surface show sel surface | show\_surface {ENTER} |
| hide surface | alias hide\_surface hide sel surface | hide\_surface {ENTER} |
| display ribbon | alias display\_ribbon hide selAtoms atoms; show selAtoms ribbon;hide selAtoms surface;cartoon style width 2.5 thick 1.5 xsection oval sides 6 | display\_ribbon {ENTER} |
| show ribbon | alias show\_ribbon show sel ribbon; cartoon style width 2.5 thick 1.5 xsection oval sides 6 | show\_ribbon {ENTER} |
| hide ribbon | alias hide\_ribbon hide sel ribbon | hide\_ribbon {ENTER} |
| display atoms | alias display\_atoms show selAtoms atoms;hide selAtoms ribbon;hide selAtoms surface | display\_atoms {ENTER} |
| show atoms | alias show\_atoms show sel atoms | show\_atoms {ENTER} |
| hide atoms | alias hide\_atoms hide sel atoms | hide atoms {ENTER} |
| show ball | alias show\_atoms\_ball style selAtoms ball | show\_atoms\_ball {ENTER} |
| show ball atoms |  |  |
| show sphere | alias show\_atoms\_sphere style selAtoms sphere | show\_atoms\_sphere {ENTER} |
| show sphere atoms |  |  |
| show stick | alias show\_atoms\_stick style selAtoms stick | show\_atoms\_stick {ENTER} |
| show stick Aatoms |  |  |
| hide selection | alias hide\_selection hide sel atoms;hide sel ribbon;hide sel surface | hide\_selection{ENTER} |
| hide all | alias hide\_all hide atoms;hide ribbon; hide surface | hide\_all{ENTER} |

**Volumetric Representation Display**

|  |  |  |
| --- | --- | --- |
| show volume | alias show\_volume volume #1 show | show\_volume{ENTER} |
| hide volume | alias hide\_volume volume #1 hide | hide\_volume{ENTER} |
| mesh volume | alias mesh\_volume volume #1 mesh | mesh\_volume{ENTER} |
| surface volume | alias surface\_volume volume #1 solid | surface\_volume{ENTER} |
| solid volume | alias solid\_volume volume #1 surface | solid\_volume{ENTER} |
| volume level | alias volume\_level volume #1 level $1 | volume\_level .{BACKSPACE} |
| make volume transparent | alias volume\_transparent volume #1 transparency 0.5 | volume\_transparent{ENTER} |
| make volume opaque | alias volume\_opaque volume #1 transparency 0 | volume\_opaque{ENTER} |
| step size 1 | alias step\_1 volume #1 step 1 | step\_1{ENTER} |
| set step size to 1 |  |  |
| step size 2 | alias step\_2 volume #1 step 2 | step\_2{ENTER} |
| set step size to 2 |  |  |
| step size 4 | alias step\_4 volume #1 step 4 | step\_4{ENTER} |
| set step size to 4 |  |  |
| step size 8 | alias step\_8 volume #1 step 8 | step\_8{ENTER} |
| set step size to 8 |  |  |

**Selections**

|  |  |  |
| --- | --- | --- |
| select all | alias select\_all select all | select\_all {ENTER} |
| clear selection | alias clear\_selection select clear | select\_clear {ENTER} |
| Add to selection | alias add\_to\_selection select add $1 | add\_to\_selection .{BACKSPACE} |
| Subtract from selection | alias subtract\_from\_selection select subtract $1 | subtract\_from\_selection .{BACKSPACE} |
| intersect with selection | alias intersect\_with\_selection select intersect $1 | intersect\_with\_selection .{BACKSPACE} |
| Select solvent | alias select\_solvent select solvent | select\_solvent {ENTER} |
| Select ions | alias select\_ions | select\_ions {ENTER} |
| select ligand | alias select\_ligand select ligand | select\_ligand {ENTER} |
| select protein | alias select\_protein select protein | select\_protein {ENTER} |
| select nucleotides | alias select\_nucleotides select nucleic | select\_nucleotides {ENTER} |
| select nucleic |  | select\_nucleotides {ENTER} |
| select DNA |  | select\_nucleotides {ENTER} |
| Select Helix | alias select\_helix select helix | select\_helix {ENTER} |
| Select strand | alias select\_strand select strand | select\_strand{ENTER} |
| select coil | alias select\_coil select coil | select\_coil{ENTER} |
| select backbone | alias select\_backbone | select\_backbone{ENTER} |
| Select residue | alias select\_residue select :$1 | select\_residue . |
| select chain | alias select\_chain select /$1 | select\_chain . |
| select model | alias select\_model select #$1 | select\_model . |

**Animation, camera and scene**

|  |  |  |
| --- | --- | --- |
| fast render | alias fast\_render set subdivision 0.2 | fast\_render {ENTER} |
| simple lighting | alias simple\_lighting lighting simple | simple\_lighting{ENTER} |
| full lighting | alias full\_lighting lighting full | full\_lighting{ENTER} |
| rotate center | alias roll\_center roll y 0.5 | roll\_center {ENTER} |
| rotate |  |  |
| stand still | alias stand\_still stop | stop {ENTER} |
| stop rotating |  |  |
| set center to selection | alias set\_center\_selection cofr sel | set\_center\_selection {ENTER} |
| set center to model | alias set\_center\_model ~cofr | set\_center\_model {ENTER} |
| set center to view | alias set\_center\_view cofr centerOfView | set\_center\_view {ENTER} |
| zoom in | alias zoom\_in zoom 1.5 10 | zoom\_in {ENTER} |
| zoom out | alias zoom\_out zoom 0.75 10 | zoom\_out {ENTER} |
| zoom to selection | alias zoom\_to\_selection view sel pad 0.15 | zoom\_to\_selection {ENTER} |
| reset scene | alias reset\_scene view orient true; view initial | reset\_scene{ENTER} |
| turn on clipping | alias clip\_on clip near 5 | clip\_on{ENTER} |
| clip on |  |  |
| clipping on |  |  |
| extend clipping |  | clip\_on{ENTER} |
| extend clipping plane |  |  |
| retract clipping | alias clip\_retract clip near -5 | clip\_retract{ENTER} |
| retract clipping plane |  |  |
| turn off clipping | alias clip\_off clip off | clip\_off{ENTER} |
| clipping off |  |  |
| clip off |  |  |

**Color**

|  |  |  |
| --- | --- | --- |
| color selection | alias color\_selection color selAtoms $1 | color\_selection .{BACKSPACE} |
| color surface | alias color\_surface color $1 target s | color\_surface .{BACKSPACE} |
| color atoms | alias color\_atoms color $1 target a | color\_atoms .{BACKSPACE} |
| color ribbons | alias color\_ribbons color $1 target r | color\_ribbons .{BACKSPACE} |
| rainbow | alias rainbow\_residues rainbow selAtoms | rainbow\_residues{ENTER} |
| rainbow residues |  |  |
| color rainbow |  |  |
| rainbow chains | alias rainbow\_chains rainbow selAtoms chain | rainbow\_chains{ENTER} |
| rainbow models | alias rainbow\_models rainbow selAtoms allmodels | rainbow\_models{ENTER} |
| color by element | alias color\_byelement color sel byelement | color\_byelement{ENTER} |
| color by atom |  |  |
| color surface from atoms | alias color\_surface\_from\_atoms color fromatoms target s | color\_surface\_from\_atoms{ENTER} |
| make transparent | alias make\_transparent\_surface transparency selAtoms 70 target s | make\_transparent\_surface {ENTER} |
| make solid | alias make\_solid\_surface transparency selAtoms 0 target s | make\_solid\_surface {ENTER} |

Multiple argument operations

|  |  |  |
| --- | --- | --- |
| select |  | select .{BACKSPACE} |
| residue |  | : |
| chain |  | / |
| model |  | # |
| one |  | 1 |
| A |  | A |
| blue |  | blue{ENTER} |