

Essentials

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| Undo | Ctrl + Z |
| Redo | Shift + Ctrl + Z |
| Show QuickMenu..... | Spacebar or right mouse click |
| Clear Canvas background - only clears pixels from Canvas—does not affect 3D model | Ctrl + N |
| Show/hide floating palettes | Tab |
| Show item description | Ctrl + cursor over UI item |

***** To enable sculpting, a mesh must be in 3D Edit mode *****

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|--------------------------|---------------------------------------|
| Enter 3D Edit mode | draw tool out on Canvas, then press T |
| Polyframe view | Shift + F |
| Floor Plane | Shift + P |
| Perspective mode | P |

Saving & Loading

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| Save a ZPR - Project file—saves all loaded Tools, scene, and Canvas | File > Save As or Ctrl+S |
| Save a ZTL - Tool file—saves active Tool only | Tool > Save As or Shift + Ctrl + T |
| Save a ZBR - Document file—only saves Canvas info | Document > Save As |
| Quicksave - saves numbered ZPR of current project to Quicksave folder | 9 |
| Lightbox - content browser—double click on file thumbnail to open | , |
| Import - make default PolyMesh3d Star active before import to avoid scale issues | Tool > Import |

Mesh Visibility & Selection

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| Choose active Selection brush | select brush while holding Shift + Ctrl |
| Begin drawing selection area by starting the stroke while holding down Shift + Ctrl | Shift + Ctrl + click, release keys & drag |
| Move the active selection area..... | Spacebar + drag |
| Hide mesh outside green selection area | Shift + Ctrl + click, release keys & drag |
| Hide mesh inside red selection area | Shift + Ctrl + click, release keys & drag + press Alt |
| Show entire mesh - reveals all hidden polygons | Shift + Ctrl + click background |
| Show only selected Polygroup - on fully visible mesh | Shift + Ctrl + click |
| Hide selected Polygroup - on fully visible mesh | Shift + Ctrl + click twice |
| Hide selected Polygroup - on partially visible mesh | Shift + Ctrl + click |
| Reverse visibility | Shift + Ctrl + click & drag background |
| Grow visible selection - on partially hidden mesh | Shift + Ctrl + X |
| Shrink visible selection - on partially hidden mesh | Shift + Ctrl + S |
| Grow all - reveals all connected polygons on partially visible mesh | Shift + Ctrl + A |
| Outer ring - on partially hidden mesh | Shift + Ctrl + O |
| Grow to Polygroups - on partially hidden mesh | Shift + Ctrl + Q |

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|---|---|
| Select active Subtool - in Canvas viewport | Alt + click, or Shift + Alt + click on Subtool |
| List Subtools | N |
| Toggle Subtool visibility - Subtool palette | click eyeball icon (Shift + click toggles all Subtools) |
| Toggle Subtool Polypaint - Subtool palette | click paintbrush icon (Shift + click toggles all Subtools) |

Navigation - 3D Edit Mode

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| Fit mesh to view - with Tool in 3D Edit mode | F |
| Constrain to 90-degree rotation | press Shift when dragging to rotate |
| Rotate around Z-axis | Shift, click, release Shift, drag |

Right-Click Navigation

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| Move - can be over the model | Alt + right-click & drag |
| Scale/Zoom - can be over the model | Ctrl + right-click & drag |
| Rotate - can be over the model | right-click & drag |

ZBrush Classic Navigation - drag outside of thin white line near Canvas border when zoomed in

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|-------------------|---|
| Free Rotate | click & drag background |
| Move | Alt + click & drag background |
| Scale/Zoom | Alt + click, release Alt, drag background |

Sculpting & Painting

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|---|--|
| Draw..... | Q |
| Move..... | W |
| Scale | E |
| Rotate | R |
| Select 3D brush | Brush Pop-up B + [first letter] + [orange letter] shown |
| Use / adjust active Masking brush | start stroke or adjust while holding Ctrl |
| Use / adjust active Selection brush | start stroke or adjust while holding Shift + Ctrl *Change stroke type, alpha, or texture for different effects* |
| Symmetry mode - toggle on/off | X |
| Sculptris Pro mode - toggle on/off | \ |
| Lazy Mouse - toggle on/off | L |
| Draw Size | S, or use the [] keys to adjust by set units |
| Focal Shift | O |
| RGB Intensity | I |
| Z Intensity | U |
| Toggle ZAdd and ZSub..... | Alt (hold down) |
| Select color under cursor..... | C |
| Switch color | V |
| Replay last stroke | 1 |
| Replay last stroke relative | Shift + 1 |
| Brushes with stroke type: Curve (ex: ClipCurve) - add soft direction change | tap Alt once |
| - add sharp direction change | tap Alt twice |
| - reverse direction of operation ... | Alt (hold down) |
| Xtractor brushes - capture detail | G |
| Spotlight | Texture > Add to Spotlight |
| Activate / deactivate Spotlight | Shift + Z |
| Show / hide Spotlight dial | Z |

Masking

Choose active Masking brush select brush while pressing **Ctrl**
Effects can vary when different stroke types or alphas are applied

MaskPen (default) paint mask directly on mesh by starting stroke over the mesh while pressing **Ctrl**
..... draw out area mask by starting stroke over empty space while pressing **Ctrl**

Masking brushes (other) draw out masking area by starting stroke while pressing **Ctrl**

Invert mask - reverses current masking status of active points **Ctrl + click** background

Erase mask **Ctrl + Alt** (hold down)

Clear mask **Ctrl + click + drag** background

Blur mask **Ctrl + click** on mesh

Sharpen mask **Ctrl + Alt + click** on mesh

Topological Masking - in Move, Scale, or Rotate mode **Ctrl + click + drag** on mesh

MeshFromMask

MeshBalloon, MeshExtrude, MeshExtrudePro, MeshProject, or MeshSplat brushes

Create mesh - begin stroke **over mesh** while pressing **Ctrl**, draw shape, **release**

Create mask - begin stroke **in empty space** while pressing **Ctrl**, draw shape, **release**

Add to shape - camera must be unchanged hold **Shift** before releasing stroke

Subtract from shape - camera must be unchanged hold **Alt** before releasing stroke

Intersection from shape - camera must be unchanged ... hold **Shift + Alt** before releasing stroke

With **Live Boolean** mode active:

Create additive Subtool hold **Shift** before releasing stroke

Create subtractive Subtool hold **Alt** before releasing stroke

Create intersection Subtool hold **Shift + Alt** before releasing stroke

Canvas

Actual size 0

Antialiased half size **Ctrl + 0**

Snapshot model to Canvas **Shift + S**

Fill Layer **Shift + F**

Crop and fill **Shift + Ctrl + F**

Clear Canvas background - only clears pixels from Canvas-does not affect 3D model **Ctrl + N**

Zoom in/out + / -

Best Preview Render (BPR) - requires active Tool in 3D Edit mode.

Render Canvas with BPR **Shift + R**

Render area under cursor **Ctrl + R**

Geometry

Subdivide **Ctrl + D**

Switch to higher subdivision level **D**

Switch to lower subdivision level **Shift + D**

Dynamesh

Set resolution and enable in Tool > Geometry > Dynamesh

Remesh Dynamesh mesh - masking must be cleared first **Ctrl + drag** background

HD Geometry

Toggle HD Sculpting mode cursor over mesh, **A**

Render all HD Geometry cursor over background, **A**

IMM - InsertMultiMesh

Show pop-up - with IMM brush active **M**

Insert IMM as negative mesh hold **Alt** while inserting

Insert IMM at fixed size based on DrawSize hold **Ctrl** while inserting

Curves draw curve, then **click** on mesh to confirm

Smooth curve 6

Snapshot curve 5

Delete **Alt + draw across curve**

ShadowBox - convert to ShadowBox - turn off Solo mode, then Tool> Geometry> ShadowBox

Transpose

Gizmo 3D Mode

Move - along axis **click + drag** on X, Y, or Z arrows
- along screen plane **click + drag** on grey screen plane arrows

Scale - along single axis **click + drag** on the red X, green Y, or blue Z rectangles
- uniform **click + drag** on the yellow center square

Rotate - around selected axis **click + drag** on the red X, green Y, or blue Z circles
- around screen axis **click + drag** on the grey circle

Inflate **Ctrl + click + drag** on yellow center square

Clip - flattens along selected axis **Ctrl + click + drag** on X, Y, or Z arrows

Duplicate unmasked mesh hold **Ctrl + drag** arrow

Repeat duplicate hold **Ctrl + drag** arrow for first copy, release **Ctrl** & continue **drag**

Duplicate as negative mesh - for Dynamesh subtraction **drag** arrow while holding **Ctrl + Alt**

Extrude unmasked polygons - on partially masked mesh **drag** arrow while holding **Ctrl**

Place Gizmo manipulator - in Move, Scale, or Rotate mode **Alt + click** on mesh

Reposition Gizmo manipulator - unlock, position manipulator with Move, Scale, and Rotate functions

Unlock Gizmo manipulator - with cursor over manipulator hold **Alt**