# Tools

# Model and Image Windows



| Object Selection •<br>Click on the object you<br>want to detail.                         |          |   |
|--|----------|---|
| Magnifier •  |          | <ul> <li>Virtual Irackball<br/>Drag the model to rotate<br/>the view.</li> </ul>  |
| Click in image or on<br>model to view closer.<br>Option-click to shrink.                 | 3 2      | Grabber     Drag in image or on model     to widfforent acces   |
| Dropper •<br>Click in image or<br>on model to sample                                     |          | to view uncernit aleas.   |
| color.   |          | <ul> <li>Brush<br/>Paint in an image or on the<br/>model by applying strokes.<br/>Double-click Brush icon to<br/>open Brusbee related.</li> </ul> |
| Paint Bucket •<br>Choose tool, choose<br>material in Controls<br>palette, click in image | <b>A</b> | Text  |
| Light •  | A        | Choose tool, set font/size ir<br>Controls palette, click in im<br>or on model and type text.  |
| Click on model to<br>add light. Use<br>Controls palette<br>to set brightness.            |          | Selection<br>Hold down to pop<br>up icon and choose   |
| Lasso •<br>Drag to enclose   |          | between Rectangula<br>and Oval Selection.<br>Drag in image to<br>select an area.<br>Use Shift key to  |
| a freehand<br>selection area.  |          | constrain proportion  |
| Floater Adjuster •   | -        |   |

Click a selection to

float a copy. Drag

floaters in image or

across model surface.

float it. Option-click to

### Model Window



- Choose Edit menu► **Preferences**► Model to change background color and tracking display.
  - To resize window. choose Window menu⊳ Set 3D View Size.



DETAIL

When the Virtual Trackball tool is selected, drag the sliders to rotate the model view around the separate axes.

### Image Window



FOR MACINTOSH

# Brushes



## Color

# Gradation

Other palette displays.

Materials

Color Texture Object Pattern Light



A brush stroke with high

color variability.





Color Texture Object Pattern Light

Capture Texture.,

Make Texture...

Texture Mover..

to library.

Manage texture libraries.

Preview shows results of

pattern type.

Repeating Texture

Pattern: Triangle 🕶 🔻

[Cancel] OK

Choose repeating •

vour settings.

XX

Change size

and angle.

Name the texture.

current library.

It will be added to the

tool.

Select rectangle

of image, then

Capture Texture

Open texture design

Select an object in the model by clicking on it with the Object Selection tool.

Object

The Materials: Object palette shows the maps and settings for the selected object.

The map control features of the Object palette are also available on the Map menu.

Load a map for the selected (highlighted) type. You may also double-click the listing.





 Change the amount of color the object shows.
 Change the object's tendency to show highlights.
 Change object's tendency to reflect environment.
 In the thermal off, the

Invert the bump effect.

Change level of bump effect.

# Floaters



Floater is hidden. Click groups. Click name to select floater. Press Enter key to open selected floater's Deca Attributes dialog. ★ @ Floater 2 Cabel (Text Group) \* €L \* €E \*⊗B \*⊗A - CEL Group 1 . Show Selection Marquee Merge all Drop With Mask floaters/ aroups Show/Hide with the floater's canvas. selection Merge selected marquee. Enable to place with the canvas. floater's mask in canvas mask when dropping. rectangle to minimum. rectangle. collapse into single floater. floater's mask.

Floaters higher in list cover lower floaters.

Drag floater/group names to change their level (display order) and to move them in and out of



Revert changes to selected

Floater Mask Modes







Masked Outside

Floater and Canvas Mask Interaction Modes









# Pattern









Load...

Saue....

Delete

Set Color

# Keyboard Shortcuts

| Palettes                            | Edit                              |
|-------------------------------------|-----------------------------------|
| Talentee                            | $Undo.\ldots. \divideontimes -Z$  |
| 100ls                               | Redo                              |
| Brushes                             | Cut                               |
| Materials                           | Сору ж-С                          |
| Controls                            | Paste # -V                        |
| Hide/Display Palettes               | Paste in Register Shift-# -V      |
|                                     | Drop Current Floater Shift - # -D |
| Choosing lools                      | Select All                        |
| Object Selection*                   | Deselect/Reselect                 |
| Virtual Trackball** v               | Auto Mask Shift - # - M           |
| Magnifierm                          | Clear Mask #-U                    |
| Dropperd                            | Invert Mask Shift - 36 - I        |
| Brush b                             | Effects                           |
| Paint Bucket c                      | Last Effect 🕱 - /                 |
| Text                                | Second-To-Last Effect # - ;       |
| Light*                              | Fill                              |
| Selectionr                          | Edit Gradation Shift- # - B       |
| Lasso                               | Equalize ** - E                   |
| Floater Adjuster f                  | Adjust Colors Shift- # -A         |
|                                     | Super Soften Shift- # - S         |
| *Model Window must be in front.     | Quick Warp Shift- # - F           |
| **In an image window, the Virtual   | Canvas                            |
| Trackball functions as Rotate Page. | Resize Image Shift- 92-R          |

#### Keyboard Commands

| File             |     |
|------------------|-----|
| New Model        |     |
| Open Model/Image | e   |
| Close            | æ-V |
| Save             |     |
| Print            | æ-F |
| Quit             | ж-( |
|                  |     |

### ₩-D -ж-M **ж**-U - # - 1 **ж**-/ ж-; ж-F - ж-B ж-F - **ж** - A - ж - S - ж - F Resize Image ..... Shift- #-R Model Window Navigation Rotate Model View

..... Space Bar-Option-Drag Rotate Model (lights remain fixed) ..... Space Bar-Option-Shift-Drag Pan View . . . . . . . . . . . . Space Bar-Drag Zoom in . . . . . Space Bar-# -Click Zoom out ..... Space Bar-#-Option-Click Define Magnification Area ..... Space Bar-se - Drag

| 5 5                          |       |
|------------------------------|-------|
| Zoom in                      | E     |
| Zoom Out                     | F     |
| Zoom in Space Bar-æ-Click    | E     |
| Zoom out                     | (     |
| Space Bar-#-Option-Click     |       |
| Pan image Space Bar-Drag     | A     |
| Center Image Space Bar-Click |       |
| Rotate Page Space Bar-Option | I     |
| Constrain rotate to 90°      |       |
| Shift-Option-Space Bar       | (     |
| Un-rotate Page               | 2     |
| Space Bar-Option -Click      | 1     |
| Define magnification Area    | [     |
| Space Bar-# - Drag           | [     |
| View Selection Shift 6       | (     |
| Shift Dattorn                | (     |
| Shint Falletit               | ŀ     |
|                              |       |
| Drawing and Visibility Modes | F     |
| Drawing Modes                |       |
| Mask DisabledShift-1         | (<br> |
| Masked InsideShift-2         |       |
| Masked OutsideShift-3        | ŀ     |
| Visibility Modes             |       |
| Clear ViewShift-4            | 1     |
| View Red Mask Shift-5        |       |

View Selection ......Shift-6

Image Window Navigation

| Painting and Materials     |
|----------------------------|
| Brush Controls             |
| esize Brush ⊯- Option-Drag |
| uild Brush                 |
| onstrain to 45°            |
| (straight-line mode) Shift |

Adjust opacity in 10% increments Cloners Brushes

Set Clone Source . . . Control-Click Water Color Brushes Diffuse Wet Layer . . . . . . Shift -D Dry the Wet Layer ..... #-S Save the image) Color Set Add current color to color set

.....Shift- # - K Replace current color in set . . . . . . . Option- Dropper Tool

### Gradations

Edit Gradation . . . . . . Shift - ж - B Adjust spirality for spiral gradations ..... 🕱 - Drag in angle ring

### Paint Bucket Tool

Limit fill extent ... Click-and-drag Paint Bucket

### Virtual Trackball Tool

Rotate model (lights remain fixed) Shift-drag in the Model Window

### Dropper Tool

### Dropper access

Object Selection Tool . . . . . # Rectangular Selection Tool . . # Floater Adjuster Tool . . . . . # Measure mask density . . Shift-Click Replace current color in set ..... Option-Click Set Object Color . Option-Click on Object

### Selection Tools

Selection Tools Constrain to square/circle . . . Shift Adjust current selection rectangle ..... Control-Click/Drag Edit rectangular selection ..... Shift-# -E

### Floaters

Group selected floaters ..... #-G Ungroup..... Shift - # - G .....Shift - # -U Floater Adjuster Duplicate . . . . . Option-Click/Drag Move floater by

one screen pixel. . . Arrow Keys Hide/Display marguee . . Shift-# -H Delete selected floaters . . . . Delete Adjust opacity in 10% increments .....1-0 Keys

### Select floater in image

..... Click on Floater De-select all floaters in image . . . . . . . Click outside Floaters Set Transform (selected floater) . . X Floater List Attribute dialog box for selected floater . . . . Double-Click Item Floater laver order . . . . . . . . . . . . . . . Drag Item Select/Deselect . . . Shift-Click Item Attribute dialog for current floater . . . . . . . Return/Enter

### Apply Lighting (2D Effect)

Lighting Mover . . . . . Shift - #-L

### Magic Wand

| Add color to selection     |  |  |
|----------------------------|--|--|
| Shift-Wand                 |  |  |
| Find all instances in area |  |  |
| Selection+Wand             |  |  |

### Imported Model Adjustments

| Invert Normals | Shift - ⊯ - J |
|----------------|---------------|
| Repair Normals | Shift - ₩ -K  |
| Smooth Normals | Shift- ⊯-N    |

