KPT Goo

KPT Goo allows artists to "finger paint" with images within Photoshop. Use KPT Goo's liquid distortion brushes to manipulate high quality images for print, or to quickly produce movies for the Web.

This chapter provides specific information about working with KPT Goo, including:

- Working with KPT Goo
- Choosing a Brush
- Making Movies
- Using Keyboard Commands

Refer to KPT 6 Basics for more information about using standard features of the KPT user interface.

To launch KPT Goo:

1   Open the image you want to modify in the host application.

2   If you want to apply the filter to the entire image, make sure nothing is selected.

    If you want to apply the filter to a specific area, make a selection in the host application.

    If you want to apply the filter to a specific layer, select it in the host application.

3   Choose **Filter menu> KPT6> KPT Goo**.

    KPT Goo launches and occupies the entire screen.

Working with KPT Goo

Navigation and Reset Tools

The Preview window is where you apply KPT Goo effects and the results are displayed. The bar across the bottom of the window contains navigation and resetting controls.

The navigation icons on the Preview window.

Pan lets you pan within the Preview window by clicking the crosshair. This can be used to access corners of the document at 2:1 or 4:1 zoom. Panning also works at 1:1 or when zoomed out, which is useful when working with a large image. Shortcut Key: Spacebar+Drag on Preview.

Zoom + zooms in the Preview window. Each click magnifies the image to the next preset percentage (by a factor of two, up to a maximum 4:1). At maximum magnification, the Zoom tool is grayed-out. Shortcut Key: Command/Ctrl + (plus sign).

Zoom – zooms out the Preview window. Each click reduces the image to the next preset percentage (by a factor of two, up to a maximum 1:8). At minimum magnification, the zoom tool appears grayed-out. Shortcut Key: Command/Ctrl – (minus sign).

Reset Image removes all goo effects from the document or selection. Click this icon to erase all the KPT Goo brush effects at once. Shortcut Key: Command/Ctrl+R.

Or, click and drag to use the slider, which erases the effect to the specified percentage. The slider shows the percentage of reset in real time.

Using Brushes and Tools

The Goo Brush panel displays all the available brushes and tools you can use with KPT Goo. As you switch between different brushes, you can set the Size and Flow, and in some cases, the Animation Speed.

The Goo Brush panel.

To select a KPT Goo tool:

• Move your cursor across the panel and click the tool you want to use. Tool names are displayed on the title bar.

Once selected, the active tool is displayed in color, while the other tools are grayed-out.

Setting Sliders

The Goo Brush panel includes standard KPT sliders. Sliders are the mechanism for adjusting a panel's settings. When you move a slider, the panel expands to give you additional slider controls.

Refer to "Setting Sliders" for more information about working with sliders.

Setting Brush Options

You can adjust Size, Flow, Animation Speed, and how a brush is displayed as you work with it. Once you've made changes to the brush options, you may wish to reset a brush or all brushes to their default state.

To reset a brush to its default state:

1 Select the brush you want to reset.

2 Click the Brush Options menu triangle in the top right corner of the Goo Brush panel.

3 Choose Reset Current Brush to Default.

To reset all brushes to their default states:

1 Click the Brush Options menu triangle in the top right corner of the Goo Brush panel.

2 Choose Reset All Brushes to Default.

Selecting a Cursor to Use

You can choose between different cursors or visual representations of the tool that you're using. You can set the cursor to be a small cross-hair (for fine detail work), a circle the size of the goo that will be applied (letting you see the image you're working with, while still being able to evaluate how large an area is affected), or use an image of the brush as your cursor.

To use a cross-hair cursor:

1 Click the Brush Options menu triangle in the top right corner of the Goo Brush panel.

Use the Brush Options menu to set the cursor for how you like to work.

2 Enable (check) Show Brush Size Cursor.

3 Disable (uncheck) Show Cursor While Brushing.

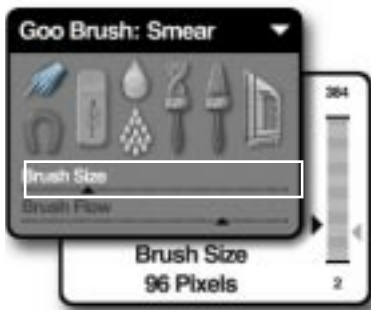### To use a circle the size of the brush as the cursor:

1 Click the Brush Options menu triangle in the top right corner of the Goo Brush panel.

2 Enable (check) Show Brush Size Cursor.

3 Set the Brush Size to greater than 14 pixels.

To use an image of the brush as the cursor:

1 Click the Brush Options menu triangle in the top right corner of the Goo Brush panel.

2 Disable (uncheck) Show Brush Size Cursor.

Brush Size

The Brush Size option lets you control how many pixels are covered by the brush as you use it to apply a KPT Goo effect. The greater the number of pixels, the larger the area in the image or selection that's effected. You can make brushes as small as 2 pixels (for detailed work) or up to 384 pixels (when one grand sweep is what's called for).

Set Brush Size by dragging the slider or entering a numeric value.

To adjust Brush Size:

- Click the Brush Size setting and drag the slider right for a larger brush, or left for a smaller brush. Or, drag the marker on the ruler up (larger) or down (smaller).

  The ticks on the ruler show you the adjustment increments. The small ghosted arrow (on the right) indicates the last value entered.

To enter a numerical value:

1 Click the number displayed on the extended panel.

2 Type in the desired value.

Brush Flow

Brush Flow controls the flow of media being applied by a brush. The higher the flow, the more liquid the image appears (that is, colors streak and distort more easily).

Set Brush Flow by dragging the slider or entering a numerical value.

To Set Brush Flow:

- Click the Brush Flow setting and drag the slider right (heavy flow) or left (light flow), or drag the marker on the ruler up (heavy) or down (light).

  The ticks on the ruler show you the adjustment increments. The small ghosted arrow (on the right) indicates the last value entered.
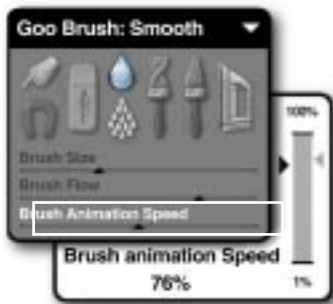
To enter a numerical value:

1 Click the number displayed on the panel.

2 Type in the desired value.

Note Brush Size and Brush Flow can be set for each of the KPT Goo brushes. If you do not set them, the default settings are used.

Brush Animation Speed

Brush Animation Speed controls how fast an effect is applied. For example, you can set how fast the image is twirled when using the Twirl Brush. Set Brush Animation as low as 0% (the slowest speed possible) to 100% (maximum speed). When you set Brush Animation Speed at 0%, you can physically move the brush, controlling completely the effect you are applying. The greater the speed, the more animated the brush effect becomes, without requiring you to move the tool. This allows effects like Twirl or Pinch to be performed in-place. With Speed set low, an effect acts more like a paintbrush, with it set high, it acts more like a continuous-flow airbrush.

Set Brush Speed by dragging the slider or entering a numerical value.

Note Brush Speed is used with the Smooth, Noise, Twirl+/–, Pinch/Bulge, and Iron tools.

To adjust Brush Animation Speed:

- Click the Brush Animation Speed setting and drag the slider right (maximum speed) or left (minimum speed) or drag the marker on the ruler up (more) or down (less).

The ticks on the ruler show you the adjustment increments. The small ghosted arrow (on the right) indicates the last value entered.

To enter a numerical value:

1 Click the number displayed on the extended panel.

2 Type in the desired value.

Note Tablet users: KPT Goo supports pressure-sensitivity, and some of the tools are specialized to work better with tablets. The Smear tool varies its size as the pressure changes, but keeps a constant level of flow. The Magnet tool varies its flow as the pressure changes, but keeps a constant physical size. Similarly, the UnGoo tool varies its flow with pressure. This behavior attempts to approximate how physical versions of these tools would behave, and adds an extra degree of realism for tablet users.

Choosing a Brush

Smear

The Smear tool applies distortion pressure for creating quick, dramatic distortions. If you are using a pressure-sensitive tablet, greater pressure with the Smear tool results in wider lines.

To use the Smear tool:

1 Click the Smear icon on the Goo Brush panel.

2 Set the Brush Size and Flow to desired settings.

3 Drag across the selection you want to distort.

Magnet

The Magnet tool applies a larger amount of distortion to the image or selection. If you are using a pressure-sensitive tablet, greater pressure with the Magnet results in more flow.

To use the Magnet tool:

1 Click the Magnet icon on the Goo Brush panel.

2 Set the Brush Size and Flow to desired settings.

3 Drag across the selection you want to distort.

UnGoo

The UnGoo tool works like a standard eraser, taking away goo effects. If you are using a pressure-sensitive tablet, greater pressure with the UnGoo tool results in more flow.

To use the UnGoo tool:

1 Click the UnGoo icon on the Goo Brush panel.

2 Set the Brush Size and Flow to desired settings.

3 Drag across the selection you want erase.

Smooth

The Smooth tool lets you flatten, "buff," or "melt" goo into a desired effect. It softens hard edges. Brush Animation Speed controls how fast the brush smooths goo.

To use the Smooth tool:

1 Click the Smooth tool on the Goo Brush panel.

2 Set the Brush Size, Flow, and Animation Speed to desired settings.

3 Drag across the area you want to smooth, or click and hold.

Using the Smooth tool.

Noise

The Noise tool sprays a shower of random droplets onto an area. Brush Animation Speed controls how fast the brush spreads the noise.

Tip A low Brush Flow creates a gradual "melting" effect for finely-detailed areas. If the setting is 0, nothing happens.

To use the Noise tool:

1 Click the Noise tool on the Goo Brush panel.

2 Set the Brush Size, Flow, and Animation Speed to desired settings.

3 Drag across the selection you want to apply the noise, or click and hold.

Using the Noise tool.

Twirl +/–

The Twirl + tool applies a twirling distortion to an area of the image. You can toggle between Twirl + and Twirl –.

The Twirl + KPT Goo Brush applies a clockwise twirling distortion to an area of your image. The result is an effect that contains clockwise twirl patterns. Brush Animation Speed controls how fast the brush twirls the image.

The Twirl – KPT Goo Brush applies a counter-clockwise twirling distortion to an area of your image. Brush Animation Speed controls how fast the brush twirls the image.

To use Twirl +/–:

1 Click the Twirl icon once for clockwise. This is the default.

Click the Twirl icon again for counter-clockwise.

2 Set the Brush Size, Flow, and Animation Speed to desired settings.

3 Drag across the area you want to twirl, or click and hold.

Using Twirl.

Pinch/Bulge

The Pinch icon is a toggle switch that allows you to switch between Pinch and Bulge.

 The Pinch brush creates a pinching effect toward the center of the brush. Brush Animation Speed controls how fast the brush pinches the image.

 The Bulge brush creates a bulging distortion outward from the center of the brush. Brush Animation Speed controls how fast the brush bulges the image.

To use Pinch/Bulge:

1 Click the Pinch icon once for Pinch. This is the default.

Click the Pinch icon again for Bulge.

2 Set the Brush Size, Flow, and Animation Speed to desired settings.

3 Drag across the area you want to Pinch or Bulge. Or click and hold.

Using Pinch and Bulge.

Iron

 The Iron tool duplicates, or "irons out" the original image in a different area of your image.

To use the Iron tool:

1 Click the Iron icon on the Goo Brush panel.

2 Set the Brush Size and Flow to desired settings.

3 Move your cursor across the selection you want to iron.
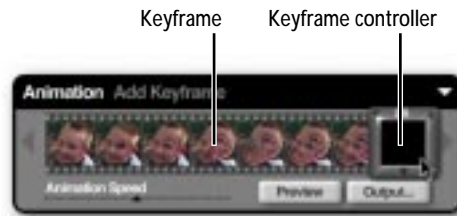

Using the Iron tool.

Making Movies

Making movies of your KPT Goo distortions is so easy that you'll undoubtedly export many movies. This section contains all of the information you'll need to create interesting and amusing movies.

A movie is created by saving different images, or *keyframes*, to the filmstrip in the Animation control panel. When you play the movie, KPT Goo moves between the images stored in the Animation control panel. The Animation control panel displays all the images in your movie and lets you add or remove frames from the movie.

You can create a maximum of 64 keyframes per movie.

The Animation control panel.

To save the current image into a keyframe:

• Click an empty keyframe.

To remove a keyframe image:

1 In the Animation control panel, click the keyframe you want to remove.

A controller appears around the keyframe.

2 Click the Remove Keyframe icon (the down arrow in the bottom-center of the keyframe controller).

To insert the current image between keyframes:

1 Move the cursor over the keyframe where you want to insert your image.

2 Click the Insert Keyframe icon (the down arrow in the top-left corner of the Keyframe controller).

All the remaining keyframes move over to the next keyframe space.

To rearrange keyframes:

1 Click and drag the keyframe you want to move.

A ghosted keyframe appears as you drag.

2 Release the mouse button over the new keyframe location.

To create duplicate keyframes:

1 Click the keyframe for the image you want to duplicate.

The image appears in the Preview window.

2 Click an empty keyframe. Or, to insert the duplicate keyframe, click the Insert Keyframe icon in the keyframe where you want to insert your image.

To review movie frames in the Preview window:

• Click the keyframe for the image you want to review.

Note You can also use the Animation control panel to quickly store various stages of goo effects as keyframes. Then when you want to recall an effect, click the Get Preview icon (the up arrow in the top-right corner of the keyframe controller) on the appropriate keyframe, or the keyframe itself. The image is loaded in the Preview window.

To scroll the keyframes in the Animation control panel:

• Click the left or right arrows on either side of the filmstrip.

To go to the first keyframe in the Animation control panel:

• Option/Alt-click the left arrow on the left side of the filmstrip.

To go to the last keyframe in the Animation control panel:

• Option/Alt-click the right arrow on the right side of the filmstrip.

Previewing Your Movies

Once you have saved images into at least two keyframes, you can preview your movie. You can make the movie automatically loop from the last keyframe to the first for an unending movie.

To play a movie:

• In the Animation control panel, click Preview.

To stop a movie:

• Click anywhere on the screen.

Controlling Movie Speed

The Animation Speed slider sets the speed at which your movie plays. Drag the Playback slider right to increase the speed of your movie, or left to decrease the speed.

Saving Movies

You can save movies on the Macintosh as QuickTime and Sequenced PICT format files. On Windows, you can save movies as AVI, Sequenced BMP, or QuickTime versions 3 or 4 format files. Once you've saved your movie, it can be used in other multi-media applications.

To save a movie:

1 Make sure you have at least two keyframes in the Keyframe control panel.

2 Click the Output button. The Make Movie dialog appears.

3 If your image includes a transparency, click the Transparency Options menu triangle in the top right corner of the Make Movie dialog, Then choose one of the following options:

- Current Preview Compositing: the transparency is saved with the "Preview Against" value selected under Preview Options. For details on Preview Options, refer to "Setting Preview Window Options".

- Bluescreen Compositing: the transparency appears as a blue background, and can be composited in another program.

4 Choose an Output Format from the popup menu.

5 Click the Settings popup to display compression options for your movie.

6 Set the desired Compression options. The options available depend on the Compressor you select. Refer to your Macintosh or Windows system documentation for more on these compressors.

7 Click the arrow icon next to the File Location text label.

The Save As dialog appears.

8 Choose a location and filename for your movie and click Save.

9 Use the Size slider to set the dimensions of your movie. Drag right for a larger screen resolution, or left for a smaller screen resolution.

10 Click the checkmark icon to create a movie file.

Setting Movie Options

The Animation control panel menu includes options for preview and application quality, and for saving and loading movie keyframes.

The Animation Options menu.

To set movie options:

1 Click the triangle icon at the top of the Animation window.

2 Enable (check) any of the following options:

- Interpolate to First Frame: when enabled, the movie interpolates from

the last keyframe to the first, creating a continuous loop movie.

• Loop Preview: when enabled, the movie continuously loops to the first frame after the last frame. When disabled, the movie only plays once.

• Fast Animation Preview: when enabled, the movie is optimized for a smoother and faster preview. This option is more noticeable in more complex movies, where greater complexity may slow down the preview time. When this option is enabled, the quality of the keyframes is lowered.

To quickly clear all the keyframes in the Animation control panel.

• Choose **Animation Options menu> Clear Animation Preview**.

Loading and Saving KPT Goo Keyframes

You can save the keyframes you've made in a movie and use them again in a new—or the same—image. Saved files can be opened in KPT Goo.

To save keyframes of KPT Goo effects:

1 Make the movie that you want to save.

2 Click the triangle icon at the top of the Animation window.

3 Choose **Animation Options menu> Save Goo Animation**.

A Save As dialog appears.

4 Choose a location and filename and click Save.

To load keyframes of KPT Goo effects:

1 Click the triangle icon at the top of the Animation window.

2 Choose **Animation Options menu> Load Goo Animation**. A Load dialog appears.

3 Choose the location and filename of the movie file and click Open.

Note   When you load a movie file, only the KPT Goo effects are loaded, not the image associated with the file.

Using Keyboard Commands

Shortcut commands are especially useful for operations that you perform frequently. This section lists KPT Goo-specific commands. Refer to "Using Keyboard Commands" for information about general KPT keyboard commands.

Global Commands:

What you press:	The results you get:
Command/Ctrl+	Zoom In
Command/Ctrl-	Zoom Out
Spacebar+Drag Preview	Pan
Command/Ctrl+ R	Reset Image
Command/Ctrl+ Left Arrow	Select Previous Brush
Command/Ctrl+ Right Arrow	Select Next Brush
Command/Ctrl+ Up Arrow	Increase Brush Size in small increments
Command/Ctrl+ Down Arrow	Decrease Brush Size in small increments
Command/Ctrl+ Shift+Up Arrow	Increase Brush Flow
Command/Ctrl+ Shift+Down Arrow	Decrease Brush Flow
Command/Ctrl+A	Toggle Preview AntiAliasing On/Off
Command/Ctrl+I	Invert Goo
Command/Ctrl+ M	Create a movie file
Option/Alt+click keyframe in Animation control panel	Clear a keyframe
Option/Alt+click left arrow in Animation control panel	Jump to first keyframe

What you press:	The results you get:
Option/Alt+click right arrow in Animation control panel	Jump to last keyframe
Command/Ctrl+ H	Toggle horizontal mirror brushing On/ Off
Command/Ctrl+V	Toggle vertical mirror brushing On/Off

While Using the KPT Goo Brushes:

The Brush you use also determines how the shortcut key responds to different commands. The brush modifier keys are:

Current Brush	Option/ Alt	Shift	Ctrl/ Ctrl
UnGoo	Smear	Smooth	Iron
All Others	UnGoo	Smooth	Iron

Note You must hold down the shortcut key while clicking the mouse button.

You can always Undo your last action using Command/Ctrl+Z. If you return to the host application and do not like the effect of KPT Goo, use Edit menu> Undo.