



**Toon Boom Studio 8
New Features Guide**

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Introduction

Toon Boom Studio 8 has a series of shining new features! If you are already familiar with Studio, you can simply read this document to learn all about the new features.

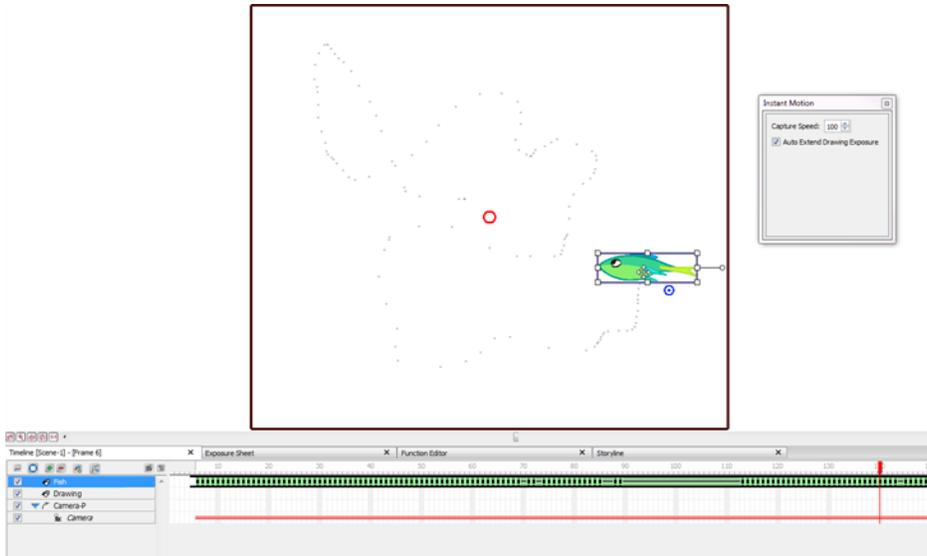
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Instant Motion

With Instant Motion, creating animation could not be easier. First, you create a drawing and then you translate, scale, or rotate it. As you manipulate your drawing, small dots are created, representing keyframes. The slower the movement, the more dots are created.

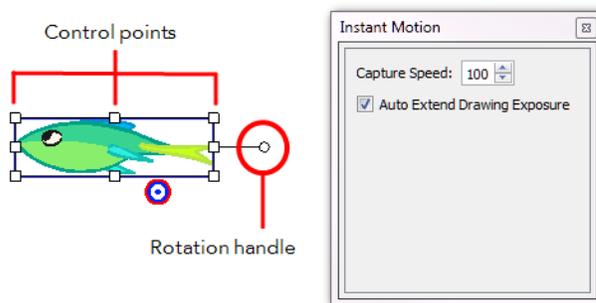
Once you release the pointer, your animation is created. It is represented on the Timeline view as a path. Your animation can be as long or as short as you like. As you continue to move your drawing, by default, the path is automatically extended. You can create more motion paths, one after the other. Each one is automatically added to the end of the last one.



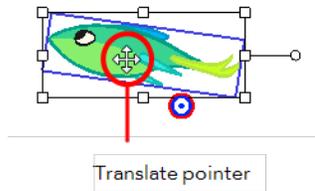
To create instant motion:

1. Create a drawing.
2. In the Animation toolbar, click the Instant Motion  button.

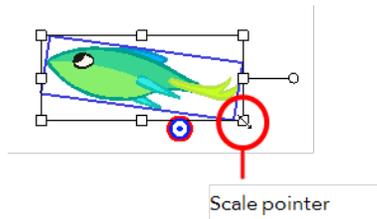
A bounding box with control points and a rotation handle appear around your drawing, and the Instant Motion box opens.



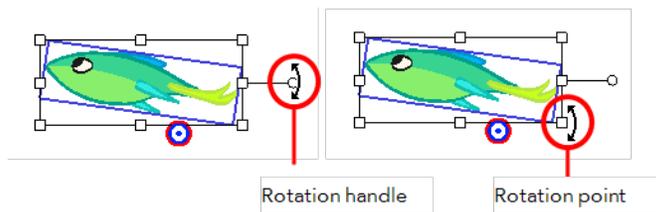
3. Do one of the following to animate your drawing (only one single transformation type is possible per motion recording):
 - ▶ **Translate:** To move the drawing, position the pointer over your drawing and drag it to a new location on the screen.



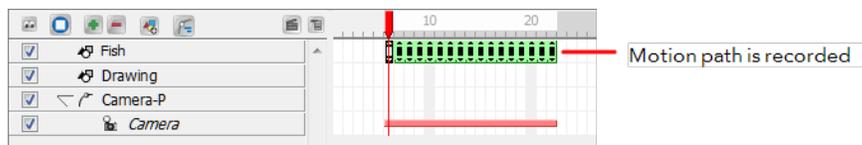
- ▶ **Scale:** Position the pointer at one of the bounding box points, and drag to scale your drawing.



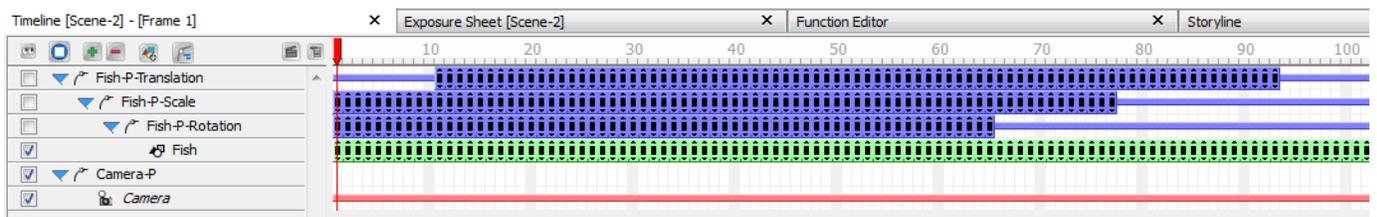
- ▶ **Rotate:** Position the pointer on the rotation handle or rotation point at a corner of your drawing. Drag to rotate the drawing.



As you translate, scale, or rotate your drawing, small dots are created to represent the keyframes of your animation. When you release the pointer, the speed path of your animation is recorded.



4. Click the **Play** button to view your animation.
5. If you want to combine different motions such as a rotation and a scale, you can record the motions separately using parented pegs. The first peg can be used for the rotation and the second one for the scale. In the Timeline view, select your drawing layer and click on the Add Parent Peg button to attach a peg to it. Select that peg and move it around with the Instant Motion tool like you did previously for your drawing layer. You can add as many parented pegs as you want to decompose your motions. It is always better to have the main translation (trajectory) as the top parent peg to avoid a conflict with rotation and scaling motion that you affect your entire trajectory rather than the drawing only.

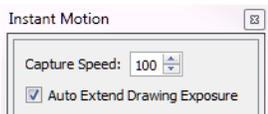




If you want to change a section of your animation once it is recorded, you can move the Timeline playhead to the frame where you want to start overriding the existing keyframes with a new recording and move your drawing again using the Instant Motion tool.

Instant Motion Properties

The Instant Motion box lets you set the speed at which keyframes are created (the capture speed) and decide if you want to automatically extend the drawing exposure. By default, drawing movements are always recorded.

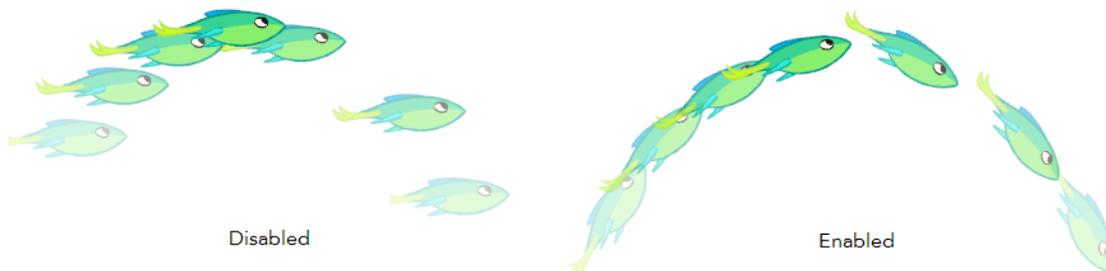


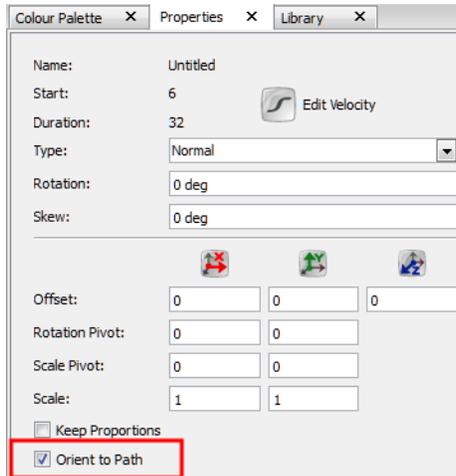
- **Capture Speed:** The speed at which keyframes are created as you manipulate your drawing. The default value is 100. The higher the number, the faster movement recording occurs in the viewer, as indicated by the numbers of dots in the viewer.
- **Auto Extend Drawing Exposure:** By default, this option is on. This option automatically extends the drawing exposure. This means you do not have to extend your existing drawings once the motion is created.

Orienting Animation on a Path

Once you have created your animation, you can orient the drawing to the motion path. The Orient to Path option is available in the Properties view.

In this example, the default setting shows the fish keeping its original orientation throughout the motion path. However, when the Orient to Path option is enabled, the fish follows the motion path.





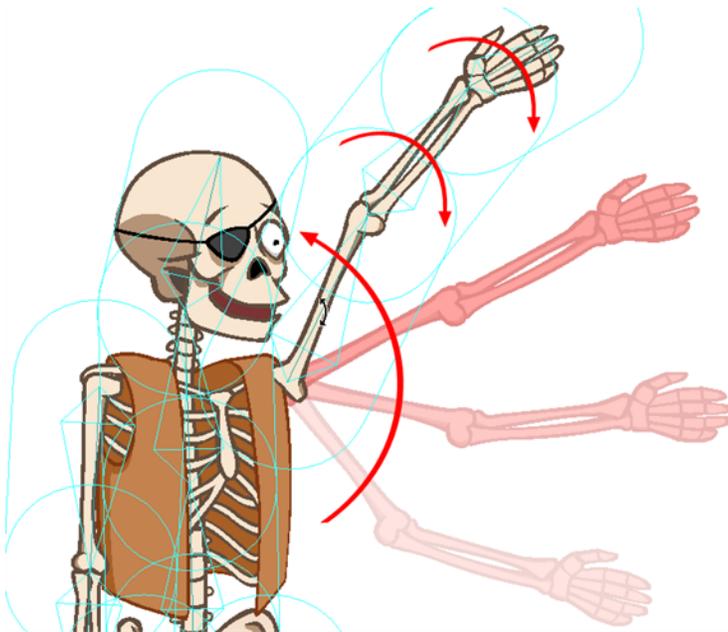
To orient your animation on a path:

1. Create a drawing.
2. Use Instant Motion to create the motion path.
3. In the Properties view, select the **Orient to Path** option.



Make sure to create your animation using Instant Motion before selecting the Orient to Path option.

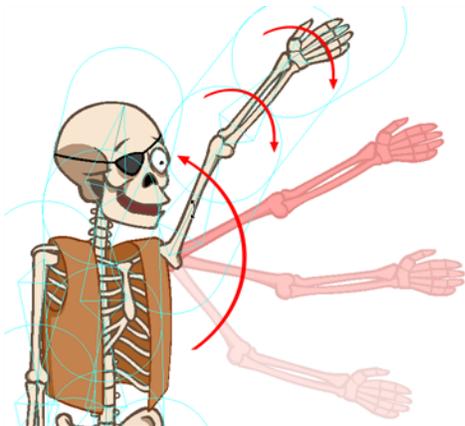
Natural Movement



Using the Natural Movement tools, you can easily animate smooth and natural actions. The Natural Movement Forward and Natural Movement Inverse tools let you to rotate the parent bone and the rest of the children in the chain will follow the main movement and also rotate on their own to create fluid motions. Without these little additional rotations, the movement can be stiff and you will have to rotate the children bones on your own to smooth out the movement and make it flow naturally.

There are two natural movement tools:

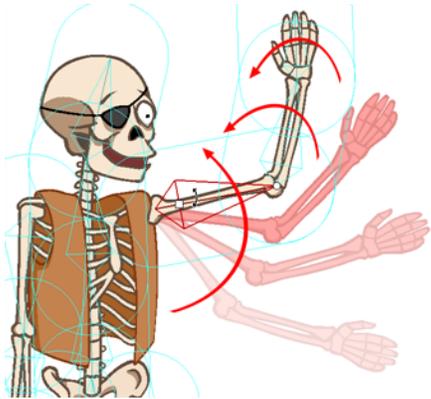
- **Natural Movement Inverse**



The Natural Movement Inverse  tool rotates the children bones in the opposite direction from the

parent. Therefore, if you rotate the upper arm of a character upward, the forearm and hand also rotate downward. This provides an illusion resistance in the motion as if gravity or air pressure were delaying the rotation of the limbs. This animation principle is called *follow through*. If you animate a flower bending in the wind, you will use the Natural Movement Inverse tool.

- **Natural Movement Forward**



The Natural Movement Forward  tool rotates the children bones in the same direction as the parent.

Therefore, if you rotate the upper arm of a character upward, the forearm and hand also rotate upward. There is no illusion of resistance in this motion. The arm is deliberately bending.

To use the Natural Movement Inverse and Forward:

1. In the Bones Tools toolbar, select the Natural Movement Forward  or Natural Movement Inverse  tool. You can also access these tools by selecting **Tools > Bone Tools > Natural Movement Forward** or **Natural Movement Inverse**.
2. In the Camera view, click the bone you want to animate and rotate it.
3. To toggle between the Natural Movement Forward and Natural Movement Inverse, hold down [Alt] before you start the motion to select the opposite tool.

Previewing Effects

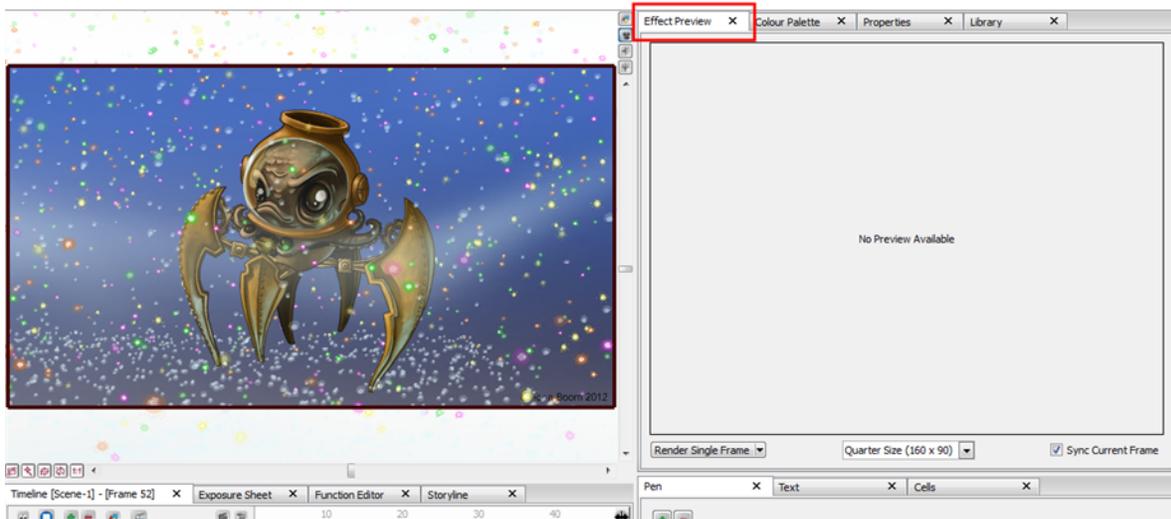
To see the final look of some of your effects such as the blur, the system needs to calculate and render them. The Camera view shows a simple version of your effects so you can play back your animation quickly. Therefore, to see your final effects as you adjust them, you need the Effect Preview view which gives you the ability to render the current frame and display it in a window.



Toon Boom Studio will keep in memory 200MB of rendered images. (~25 frames in HD, ~100 is half HD and ~400 in quarter HD).

To open the Effect Preview view:

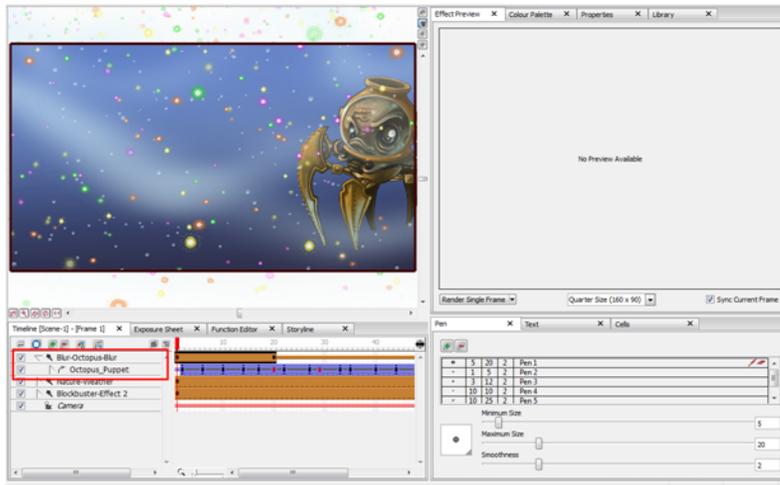
1. Select **Window > Effect Preview**.
2. Grab the floating view and dock it beside your Camera view.



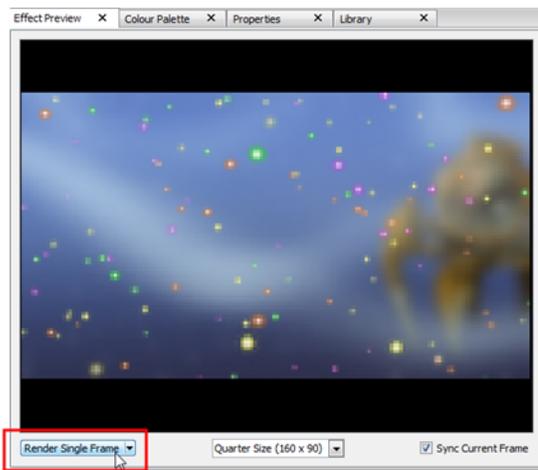
The Effect Preview view allows you to render a single frame, a frame range or your whole scene to see your effects. You can render the images to a quarter, half or full size of your project depending on how much memory you want to use.

To preview a blur effect:

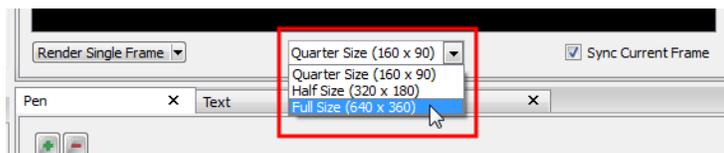
1. In the Special Effects toolbar, click the Blur Effect  button.
2. In the Timeline view, parent the drawing layers that you want to blur to the Blur effect.



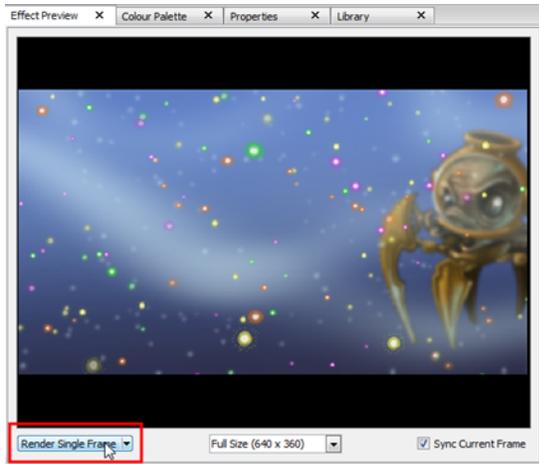
3. In the Effect Preview view, click **Render Single Frame**.
The current frame preview appears at a quarter of the project's size.



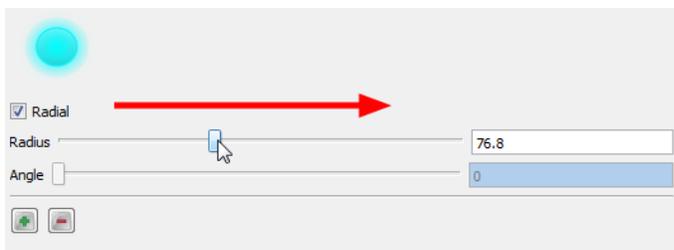
4. For a better quality render, in the Size list, select **Half Size** or **Full Size**.



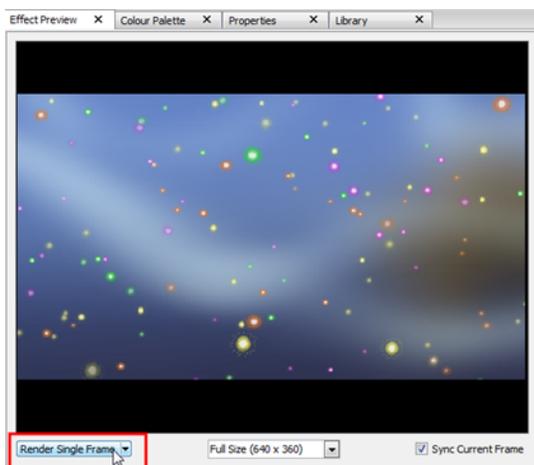
5. Click **Render Single Frame** to update the preview.



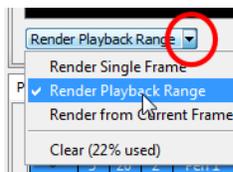
- In the Properties view, increase the Radius value.



- In the Effect Preview view, click **Render Single Frame**.



- In the Render drop-down menu, select **Render Playback Range** to render your whole scene or the playback range section, if you customized it. Select **Render from Current Frame** if you want to render all the frames starting from the current frame.



- Once you have rendered a range of images, you can play them back by pressing the Play button in the Interactive Playback toolbar (Top toolbar on Mac OS X). If you want to play back your scene without

playing back the rendered frames, deselect the **Sync Current Frame** option. This will allow you to play back only the Camera view and leave the Effect Preview window at the current frame. To play back your rendered frames, select the **Sync Current Frame** option.

10. Once you have rendered a range of images, you can play them back by pressing the Play  button in the

Interactive Playback toolbar (Top toolbar on Mac OS X). If you want to play back your scene without playing back the rendered frames, deselect the **Sync Current Frame** option. This will allow you to play back only the Camera view and leave the Effect Preview window at the current frame. To play back your rendered frames, select the **Sync Current Frame** option.

11. From the Render drop-down menu, select **Clear** if you want to delete the previously rendered frames to clear some memory. Toon Boom Studio will keep up to 200MB of images in memory. If the rendering buffer is full, select this option to empty it.

Blockbuster Effects

The Toon Boom Studio Blockbuster effects allow you to add some glamour and bang to your animation!

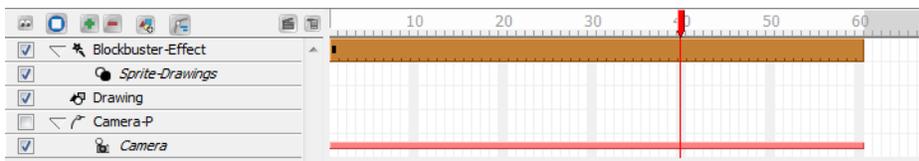
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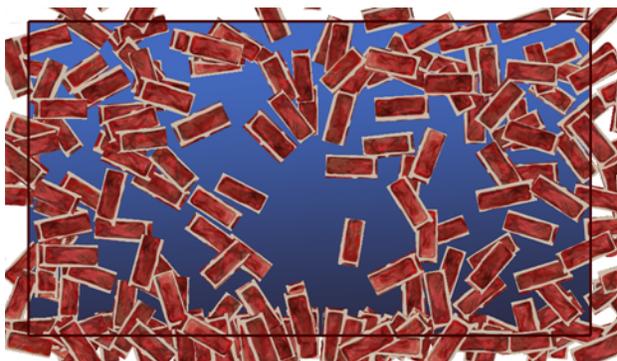
To add a Blockbuster effect:

1. In the Special Effect toolbar, click the Blockbuster Effect  button.

A Blockbuster effect layer, as well as its child, a Sprite-Drawings layer, is added to the Timeline view. A sprite is the particle multiplied and generated by the Blockbuster effect. In the example below, a drawing of a brick is used as the sprite.



By default, the brick wall shatter effect is selected and visible in the Camera view.



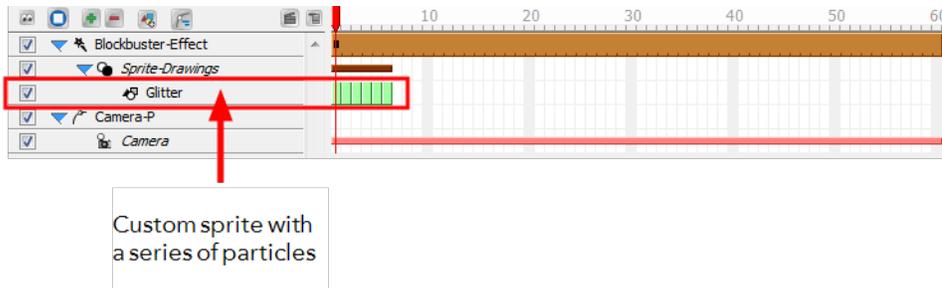
2. You have the possibility to create your own effect and customize it as you want. Create your own particle on a drawing layer, or import an image to use as a sprite (particle to multiply in the effect). Then you can attach that drawing to the existing Blockbuster effect and it will override the default content.

In the case of the Blockbuster Shatter effects, the first image will be used as the image to break to pieces and the second drawing will be used as the pieces and area to break in the first drawing—

For the Magic and other Blockbuster effects, traditionally animated drawings will be treated as multiple versions of the same particle type. For example, a traditionally drawn walk cycle appears as a series of frames on the same layer. Each frame contains a slightly modified version of a character's legs and arms moving. If this layer were to be used as a sprite, all those different drawings would be randomized and appear as non-sequential, static, singular particles in the effect. Therefore, if you draw a glitter particle in the first cell, a different colour glitter particle in the second cell and a different one of another colour in the third frame, you will obtain a multicolour glitter effect.

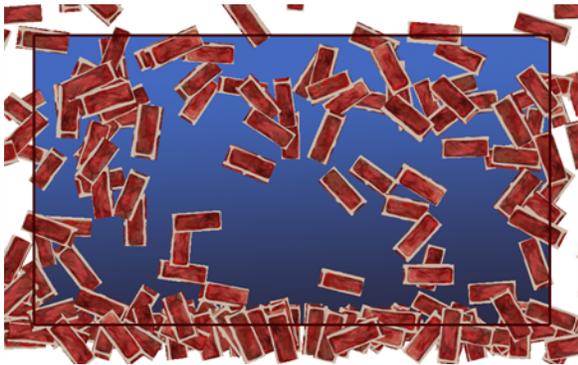
You can use this behaviour to your advantage; for example, in the event that you want to create five types of stars to be multiplied and generated. Simply create five different drawings on the same layer, but drawing each on their own frame.

3. Drag your newly created Sprite layer onto the Sprite-Drawings layer to parent it. The Blockbuster effect Sprite (unseen in the Timeline view) is automatically overridden by your custom Sprite.



If no sprite is created for a Blockbuster effect, the default sprite will be visible.

Shatter Effects



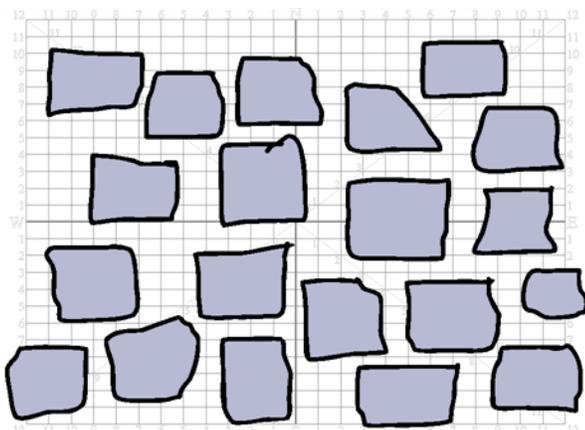
The Shatter effect produces a simulation of a solid pane breaking to pieces in nine various presets:

- **Wall Destruction:** This is the default setting.
- **Wall Breach:** Only a portion of the wall breaks apart.
- **Wall Breakthrough:** A character shape breaks away from the wall giving the illusion a character ran through.
- **Bottle Explosion:** A bottle explodes completely breaks apart .
- **Bottle Break:** A bottle breaks apart.
- **Bottle Fragment:** A bottle cracks and breaks.
- **Shattered Glass:** A glass pane is shattered to pieces.
- **Broken Glass:** A portion of a glass pane is broken to pieces.
- **Peak-a-glass:** A character shape breaks away from the glass pane giving the illusion a character ran through

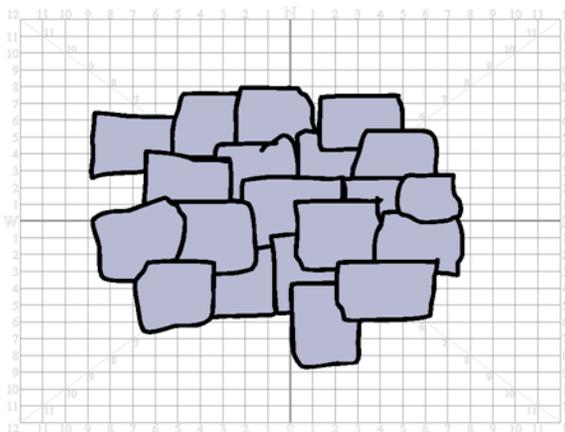
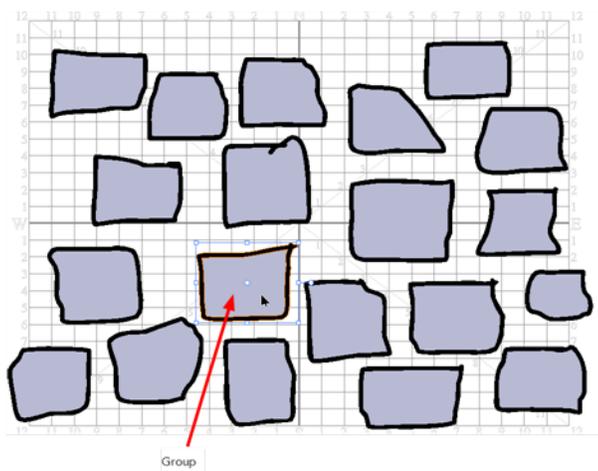
To create your own shatter sprite, draw your pane in the first cell of a drawing layer.



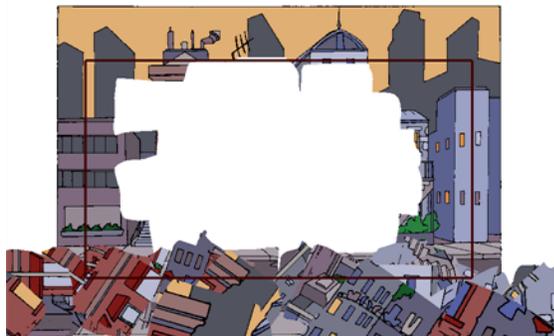
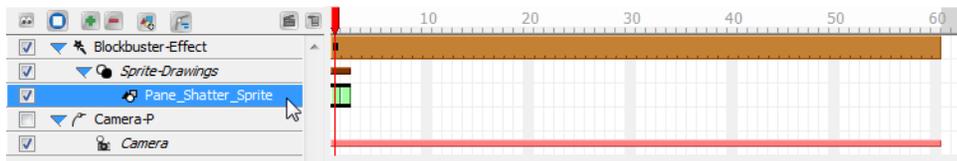
In the second cell, draw the pieces in which you want the pane to break apart. The areas where there will not be any drawing will remain untouched. If you want your pane to break in pieces without leaving a gap between the pieces, draw your pieces separately.



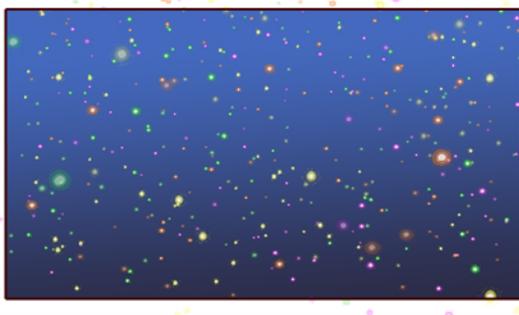
With the Select tool, move them together so that they overlap. If you want to make sure that the outline remains with the painted zone and that your pieces do not get mixed up, you should group them (outline and colour fill) together before overlapping your pieces.



Once your sprite is ready, you can drag your sprite drawing layer onto the Sprite-Drawings layer of your Shatter Blockbuster effect.



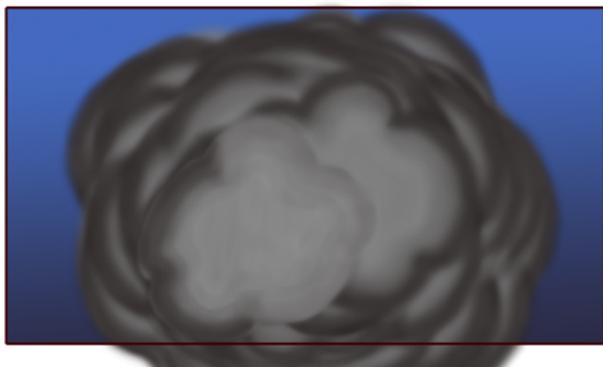
Magic Effects



The Magic effect produces a simulation of shiny sparkles and particles in nine various presets:

- **Glitter Shower:** This is the default setting.
- **Glitter Mist:** A light glitter rain falls down.
- **Glitter Fall:** A string of glitter falls down as from a fairy or magic wand.
- **Ocean Bubbles:** A large amount of bubbles float up.
- **Sea Bubbles:** A series of bubbles float up.
- **Aquarium Bubbles:** A few little bubbles float up.
- **Omni Star Storm:** A series of multicolour stars rush toward the screen.
- **Omni Star Mist:** A few multicolour stars float toward the screen.
- **Omni Star Spin:** Stars spin in the scene to simulate dizziness.

Explosion Effects



The Explosion effect produces a simulation of smoke and fire explosions in nine various presets:

- **Blast:** This is the default setting.
- **Blowup:** A big smoke cloud explosion.
- **Bang:** A small cloud explosion.
- **Long Electrical Circuit:** A long lightning bolt between two electrodes.
- **Medium Electrical Circuit:** A medium lightning bolt between two electrodes.
- **Short Electrical Circuit:** A short lightning bolt between two electrodes.
- **Dazzling Fireworks:** A series of multicolour fireworks.
- **Brilliant Fireworks:** A few multicolour fireworks.
- **Glittery Fireworks:** One multicolour firework.

Splash Effects



The Splash effect produces a splash of water, goop or mud in nine various presets:

- **Water Splash:** This is the default setting.
- **Water Spray:** A medium water splash.
- **Water Squirt:** A small water splash.
- **Goop Splatter:** A big goopy splash.

- **Goop Blob:** A medium goopy splash.
- **Goop Dab:** A small goopy splash.
- **Mud Splatter:** A big muddy splash.
- **Mud Blob:** A medium muddy splash.
- **Mud Dab:** A small muddy splash.



The Splash effect custom sprite does not work like other Blockbuster effects. The sprite must be a traditional splash animation.

Fire Effects



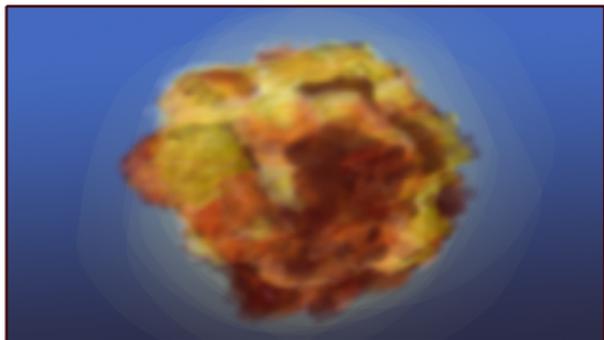
The Fire effect produces a simulation of fire and smoke in nine various presets:

- **Inferno:** This is the default setting.
- **Fire:** A medium size fire.
- **Flame:** A small size fire.
- **Smoke Screen:** A big smoke chimney.
- **Smoke Fog:** A medium smoke chimney.
- **Smoke Cloud:** A small smoke chimney.
- **Blaze:** A huge spark.
- **Ignite:** A medium spark.
- **Spark:** A small spark.



The Fire effect custom sprite does not work like other Blockbuster effects. The sprite must be a traditional fire animation.

Celestial Effects

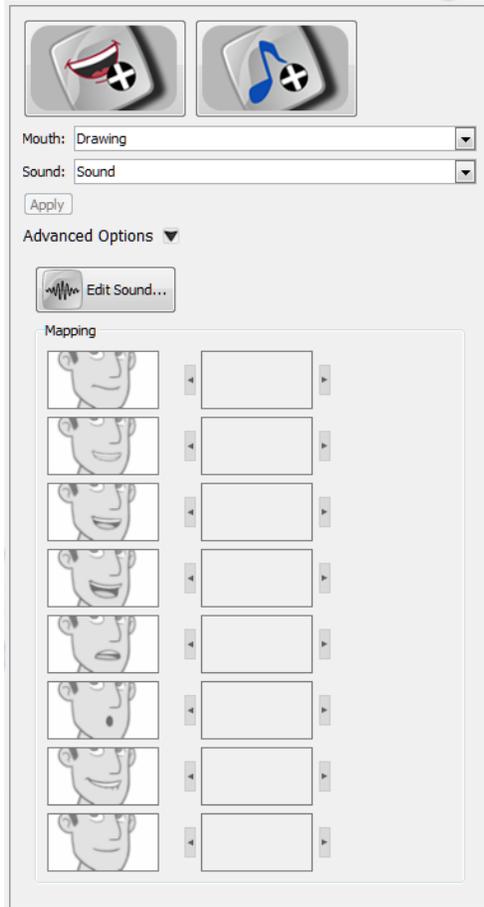


The Celestial effect produces a simulation of space explosions in nine various presets:

- **Brilliant Supernova:** This is the default setting.
- **Bright Supernova:** A big and bright supernova explosion.
- **Glimmer Supernova:** A small and faraway supernova explosion.
- **Intense White Nova:** A gigantic white nova explosion and its large smoke ring.
- **Luminous White Nova:** A big white nova explosion and its smoke ring.
- **Light White Nova:** A small white nova explosion and its smoke ring.
- **Meteor Storm:** An intense and large meteor shower.
- **Meteor Shower:** An medium meteor shower.
- **Meteor Mist:** An small meteor shower.

Lip-sync View

The Lip-sync view is where you can create and map mouth charts, as well as import mouth templates for your characters.



To open the Lip-sync view:

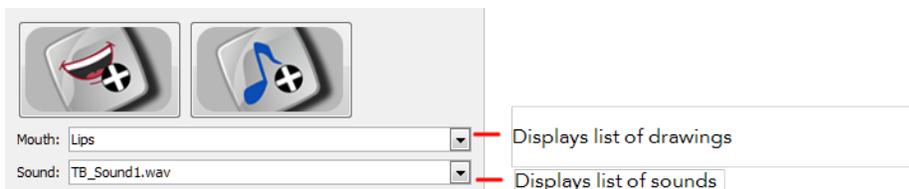
1. Select a sound layer from the Timeline view or a cell in the Exposure Sheet view.
2. Do one of the following:
 - From the Sound toolbar (Top toolbar on Mac OS X), click the Lip-sync  button.
 - In the Properties panel, click the Lip-sync  button.

Creating a Lip-sync Using a Mouth Template

Studio comes with a variety of mouth templates that you can play and experiment with on your characters. You can create a lip-sync and use an existing sound layer or create the lip-sync and then import the sound.

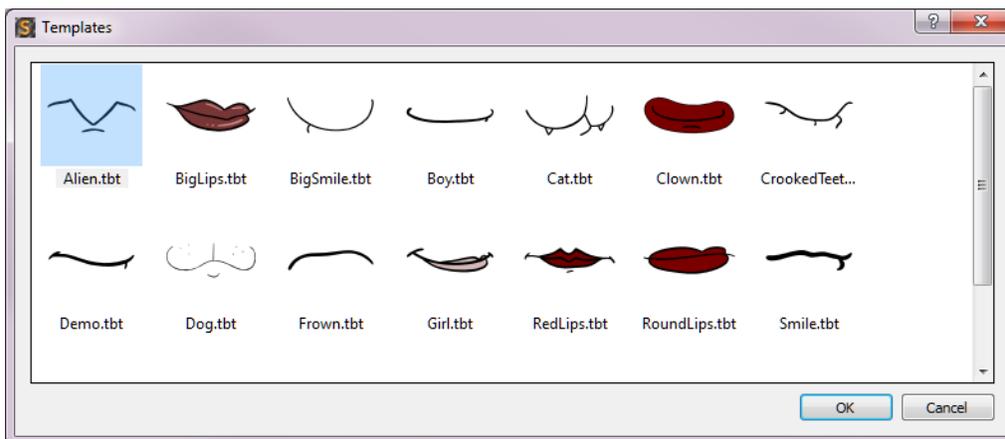
To create a lip-sync using a mouth template:

1. From the Sound toolbar, click the Lip-sync  button (Top toolbar on Mac OS X).

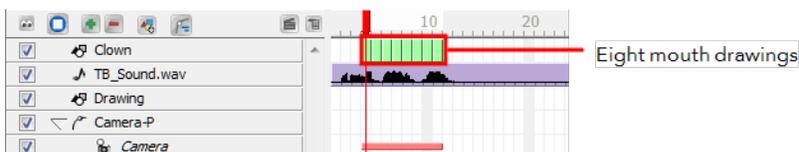


2. Do one of the following to add sound:
 - ▶ Click the Import Sound  button. From the Open dialog box, select a sound file and click **Open**.
 - ▶ From the Sound list, select a sound file you have already imported.
3. If needed, edit the sound by clicking the Edit Sound  button and making any adjustments in the Sound Element Editor.
4. Click the Import Template  button.

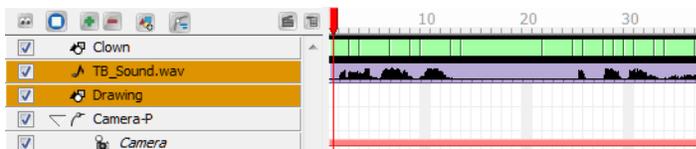
The template dialog box opens to display the mouth templates.



5. Select a mouth template and click OK.
In the Timeline view, a Drawing layer is created containing eight mouth drawings.



6. In the Lip-Sync view, click **Apply** to generate the lip-sync with the sound file.
The mouth shapes are synced with the sound file.



7. In the Drawing view, use the Select tool  in the Animation Tools toolbar to scale the mouth drawings on the layer.
8. In the Camera view, place the mouth at the correct location on your character.

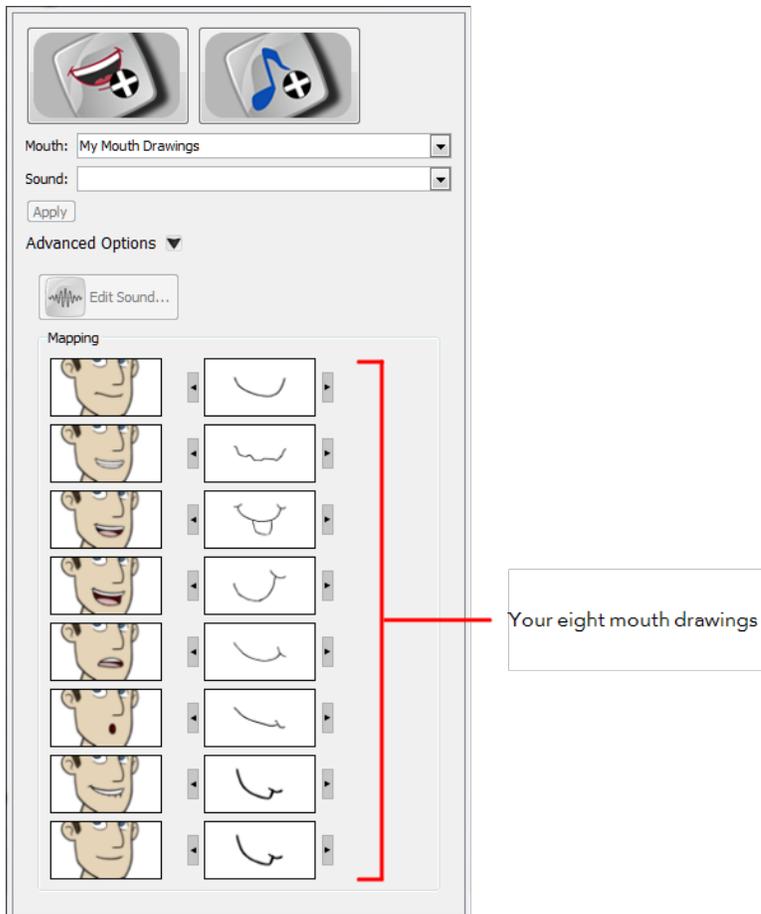
Creating a Lip-Sync Using Your Own Drawings

You can use your own drawings to generate a lip-sync.

To create a lip-sync using your own drawings:

1. In the Timeline view, select the drawing layer that contains your eight mouth drawings.
2. From the Sound toolbar (Top toolbar on Mac OS X), click the **Lip-sync**  button.

The Lip-sync view displays. Your eight mouth drawings are automatically mapped with the animation phonemes.

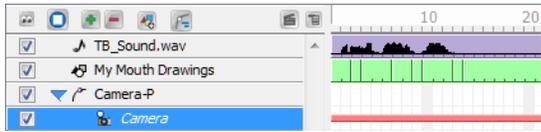


3. Do one of the following to add sound:
 - ▶ Click the Import Sound  button. From the Open dialog box, select a sound file and click **Open**.
 - ▶ From the Sound list, select a sound file you have previously imported.
4. If needed, edit the sound by clicking the Edit Sound  button and making any adjustments in the Sound Element Editor.
5. If needed, you can adjust the mouth mapping by clicking the Previous Drawing and Next Drawing arrows beside any of the mouths.



6. Click **Apply** to generate the lip-sync with the sound file.

The mouth shapes are synced with the sound file.



Working with Scenes and Transitions

In animation, a scene is the action happening in front of the camera while the camera does not change angle. As long as the camera does not stop "filming", you are in the same scene. To create scenes in a Studio project, you will use the Scene Manager where you can select scenes, create and delete scenes, as well as reorder scenes. When you are satisfied with your scenes, you can add transitions to them.

A transition is a change, like a fade, wipe, or cross dissolve, that you can apply between scenes on the Storyline view. You can apply transitions to the beginning or end of a single scene, or between two scenes.

About the Storyline View

The Storyline view is where you can manage your scenes, view scenes in a sequence, and add transitions between scenes.

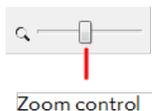


To access the Storyline view:

- Do one of the following:
 - At the bottom of the Studio screen, click on the Storyline view tab.
 - Select **Window > Storyline**.
 - Press [Ctrl] + [Shift] + [M] (Windows) or [⌘] + [Shift] + [M] (Mac OS X)
 The Storyline view is displayed.

To zoom the Storyline view:

- In the upper-left corner of the scene area, drag the zoom control right to zoom in on the scene area. Drag right to zoom out.



Playing a Sequence

A group of scenes occurring in the same location about the same action or event is called a *sequence*. Once you have constructed your scenes into a sequences and inserted transitions, you can preview your sequence to see the result.

To play a sequence:

- In the Storyline view, click the Play Storyline  button.

Applying Transitions

A transition is a change, like a fade, wipe, or cross dissolve, that you can apply between scenes on the Storyline view. You can apply transitions to the beginning or end of a single scene, or between two scenes.

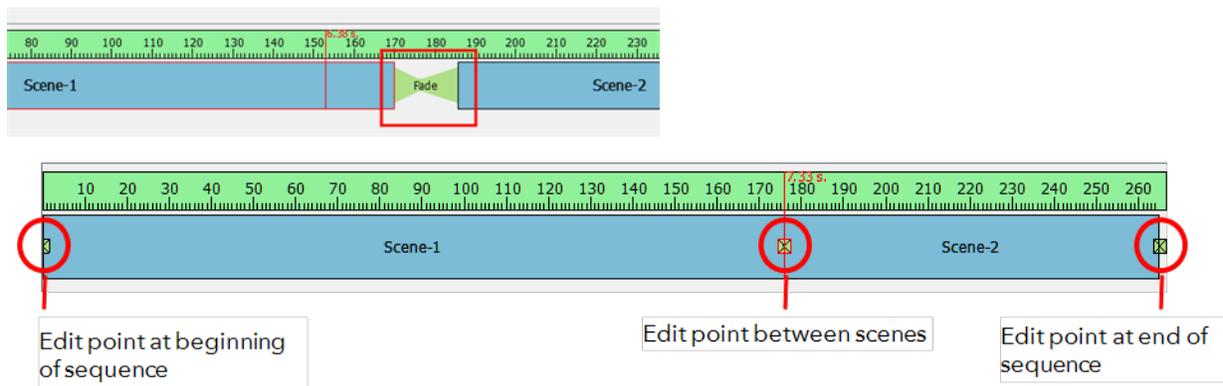
For example, you can use a one-sided transition to fade into a scene at the beginning of your sequence. You can then apply wipes, slides, and cross dissolves between other clips in the Storyline view to move smoothly from one scene to the next.



The default transition between scenes is fade in and out.

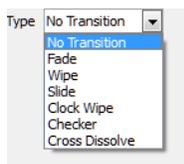
To apply a transition:

1. In the Storyline view, select the transition to modify between the scenes. If you removed the existing transition, select the edit point at the beginning or end of the scene, or between two scenes.

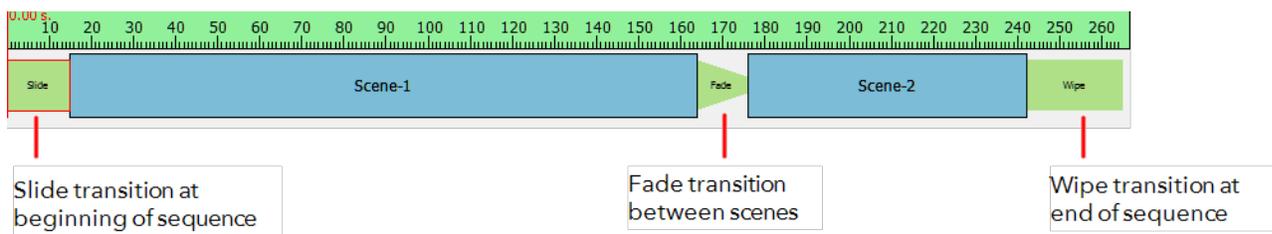


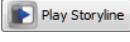
The edit point is highlighted and red playhead snaps to the location you clicked.

2. In the Properties panel, select a transition from the Type list. By default, Fade is the default setting.



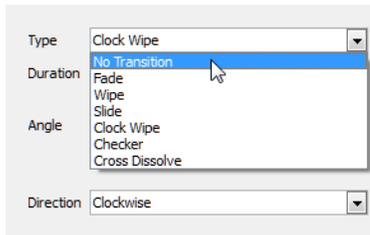
3. In the Properties panel, edit the transition properties.
4. Enter the Duration (in frames) for the transition. If you select the Fade transition, you must enter the **Left Duration**, **Blank Duration**, and **Duration Right**.
5. The transition appears in the Storyline view.



6. In the Storyline view, click the Play Storyline  button.

To remove a transition:

1. Select a transition.
The transition's properties are displayed in the Properties panel.
2. From the Type list, select **No Transition**.



Transitions

There are six different transitions to choose from in Studio. Once you apply a transition, you can edit its properties to get just the right look for your project.

- [Fade](#) below
- [Wipe on the facing page](#)
- [Slide on the facing page](#)
- [Clock Wipe on the facing page](#)
- [Checker](#) on page 30
- [Cross Dissolve](#) on page 30

Fade

The Fade transition lets you adjust the video levels to fade in or fade out a clip. You can also specify the colour from which the scene fades in or to which it fades out.



Left Duration: The number of frames at the beginning of the transition.

Colour: Opens the colour picker so you can select the colour of the transition.

Blank Duration: The number of blank frames at the end of the transition.

Wipe

The Wipe effect transition lets you create a transition between two scenes, such that the second clip is revealed according to a specified pattern.

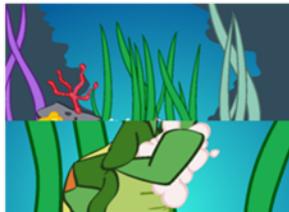
Wipe transition set to various angles



Wipe set at 0°, Direction = In. The wipe starts at the top of the frame and moves downwards.



Wipe set at 90°, Direction = In. The wipe starts at the right of the frame and moves to the left.



Wipe set at 180°, Direction = In. The wipe starts at the bottom of the frame and moves upwards.

Duration: The number of frames the transition lasts.

Colour: Opens the colour picker so you can select the colour of the transition.

Angle: Let you set the angle at which the transition starts, from 0° to 359°.

Direction: The direction the transition is moving towards: In or Out. In the In direction, the transition moves towards the left. In the Out direction, the transition moves towards the right.

Slide

The Slide transition lets you show the outgoing scene moving upwards to reveal the incoming scene.



Angle = 45°

Angle = 130°

Angle = 234°

Duration: The number of frames the transition lasts.

Colour: Opens the colour picker so you can select the colour of the transition.

Angle: Let you set the angle at which the transition starts, from 0° to 359°.

Clock Wipe

The Clock Wipe transition lets you create a wipe transition that moves clockwise or counterclockwise.

Clock Wipe starts at 180°



Clock Wipe moves in clockwise direction.



Clock Wipe moves in counterclockwise direction.

Duration: The number of frames the transition lasts.

Colour: Opens the colour picker so you can select the colour of the transition.

Angle: Let you set the angle at which the transition starts, from 0° to 359°.

Direction: The direction the transition is moving: Clockwise or Counterclockwise.

Checker

The Checker transition lets you create a transition that resembles a checkerboard. You can change the size and colour of the checkerboard tiles.

Checker transition with various size tiles



Small tiles



Medium size tiles



Large tiles

Duration: The number of frames the transition lasts.

Colour: Opens the colour picker so you can select the colour of the transition.

Size: Lets you adjust the size of the checkerboard tiles. Drag left for smaller tiles and drag right for larger ones.

Cross Dissolve

The Cross Dissolve transition lets you between scenes in which the image from one scene gradually becomes less distinct as the image from the other scene replaces it.



Duration: The number of frames the transition lasts.