

Using Transitions



Using Transitions

This chapter covers the following topics:

| Working With Transitions | 401 |
|--|-----|
| Adding and Editing Transitions | 401 |
| Adding Transitions When There's Not Enough Handles | 402 |
| Transition Properties in the Inspector | 403 |
| Using Transition Curves | 404 |
| DaVinci Resolve Transitions | 405 |
| OpenFX Transitions | 409 |
| Organizing Transitions | 409 |
| Changing the Standard Transition | 410 |

Working With Transitions

Transitions provide another way of bridging the change from one clip to another, and are often used to indicate a change in time or location when changing scenes. DaVinci Resolve supports a variety of transitions ranging from various forms of the traditional cross-dissolve to different types of wipes, allowing for great flexibility when finishing creative edits. In addition, Resolve supports third-party OpenFX transitions that you install on your system. Transitions are applied at edit points, and appear as editable objects in the Timeline.



Video and audio transitions in the Timeline

The default transitions that come with DaVinci Resolve appear within the Toolbox panel of the Effects Library, while OpenFX transitions appear within the OpenFX panel.

Adding and Editing Transitions

The following procedures describe how to work with transitions in the Timeline.

Methods of adding transitions:

- To add a transition by dragging it from the Effects Library: Drag a video transition from the Effects Library to an edit point in the Timeline so that it's centered at, ends at, or starts at the edit point. If there is no overlap between the heads and tails of the two clips, you may not be able to add a transition where you want.
- To add a transition using the Effects Library contextual menu: Select one or more edit points (one per track), then right-click a video transition in the Effects Library and choose Add to Selected Edit Points.
- To add a transition using the mouse: Right-click any edit point between clips with overlapping handles, and choose one of the four durations available for the Standard Transition; the available choices are quarter-second, half-second, one second, and two seconds, expressed in frames at whatever the current frame rate of the Timeline is.
- To add a video+audio transition using the keyboard: Select one or more edit points using the Selection tool, or move the playhead near an edit you want to select and press V to select it, then press Command-T (Timeline > Add Transition) to add the standard transition. Transitions are added using the "Standard transition duration" as specified in the Editing panel of the Project Settings, which defaults to one second, or however long the overlapping handles of the selected edit point allow.

- To add a video or audio-only transition using the keyboard: Select one or more edit points, and press Option-T (Timeline > Add Video Only Transition) to add only a video transition, or Shift-T (Timeline > Add Audio Only Transition) to add only an audio transition. Transitions are added using the "Standard transition duration" as specified in the Editing panel of the Project Settings, which defaults to one second, or however long the overlapping handles of the selected edit point allow.
- To add a transition with specific alignment using the keyboard: Select an edit, press the U key to choose the start, center, or end of the edit, then press Command-T. The standard transition will be added with its alignment based on the edit selection; selecting the start of the edit places a transition that ends on the edit; selecting the end of the edit places a transition that starts on the edit, and choosing the center of the edit places a transition that is similarly centered.

Methods of altering transitions in the Timeline:

- To change a transition's type: Drag a different transition from the Effects Library onto the current one in the Timeline.
- To change a transition's duration: Drag the beginning or end of the transition in the Timeline to be longer or shorter symmetrically about the current edit. Alternately, you can double-click any transition to open it in the Inspector, and set a new duration in seconds or frames.
- To change a transition's alignment: Right-click a transition in the Timeline and choose a new method of alignment from the contextual menu. Alternately, you can double-click any transition to open it in the Inspector, and choose a new option from the Alignment pop-up.
- To remove a transition: Select a transition in the Timeline and press the Delete key. Or, right-click a transition in the Timeline and choose Delete from the contextual menu.

Adding Transitions When There's Not Enough Handles

If the outgoing and incoming overlapping handles at a given edit point don't have enough frames to fit the standard transition duration, and you try to add a transition by selecting one or more edit points and pressing Command-T, or by right-clicking an edit point and using the transition options in the resulting contextual menu, then you'll be presented with a dialog that gives you three choices:

- Trim Clips: You can automatically trim the incoming and outgoing sides of each selected edit point to create the overlap needed for adding the standard transition.
- Skip Clips: Don't add transitions to the selected edit points that lack the appropriate overlap.
- Cancel: Cancel the operation entirely.

Transition Properties in the Inspector

Double-clicking a transition in the Timeline opens that transition's properties in the inspector. Each transition has the following properties you can edit.

- Duration: The duration of the transition, shown in both seconds and frames.
- Alignment: A pop-up that lets you choose the transition's position relative to the edit point it's applied to. Your choices are "End on Edit," "Center on Edit," and "Begin on Edit."
- Transition style: A pop-up that lets you change the type of transition; you can choose from among all of the transitions that come with DaVinci Resolve by default.

Additional properties that are specific to each type of transition appear in another group below. Since the Cross Dissolve transition is the most common transition used, its properties will be shown as an example.

- Style: The different Dissolve transitions (Cross Dissolve, Additive Dissolve, etcetera) expose this pop-up that lets you choose different ways for the outgoing clip to blend into the incoming clip during the dissolve. There are six different options to choose from:
 - Video: A simple linear dissolve; the outgoing clip fades out as the incoming clip fades in.
 - Film: A logarithmic dissolve, simulating film dissolves as created by an optical printer.
 - Additive: The outgoing and incoming clips are cross faded using the Additive composite mode. As a result, the transition seems to brighten at the halfway point.
 - Subtractive: The outgoing and incoming clips are cross faded using the Subtractive composite mode. As a result, the transition seems to darken at the halfway point.
 - Highlights: The outgoing and incoming clips are cross faded using the Lighten composite mode. The lightest parts of each clip are emphasized during this transition.
 - Shadows: The outgoing and incoming clips are cross faded using the Darken composite mode. The darkest parts of each clip are emphasized during this transition.
- Start Ratio: Defines the percentage of completion for the transition at its first frame, from 0 to 100 percent. Setting the Start Ratio to anything but 0 results in the transition immediately appearing at a more fully cross-dissolved state from the very first frame.
- End Ratio: Defines the percentage of completion for the transition at its last frame. Setting the End Ratio to anything but 0 results in the transition never fully dissolving to the incoming shot at its last frame.
- Reverse: Reverses the transition. This parameter is disabled for Dissolve transitions.
- Ease: A pop-up that lets you apply non-linear acceleration to the beginning, ending, or overall duration of a transition. The result is to add inertia to the transition from the outgoing clip to the incoming clip, and providing a gentler change from each clip into and out of the transition.
 - In: The outgoing clip lingers as the beginning of the transition dissolves more slowly than the end.
 - Out: The outgoing clip fades away more quickly, as the beginning of the transition dissolves more quickly than the end.
 - In & Out: Both the outgoing and incoming clips make slower transitions at the beginning and end of the dissolve, but the very center of the transition is faster as a result.

Other types of transitions display other properties, which are described at length in the following section.

Using Transition Curves

You can create even more highly customized transition effects using the transition curve associated with each transition you add to the Timeline. Clicking the button at the bottom-right corner of a transition in the Timeline reveals a Keyframe Editor, and clicking the Curve Editor button in the Keyframe Editor track for the transition reveals the Transition Curve Editor.



A Transition Curve opened underneath a Cross Dissolve transition

The Transition Curve Editor works identically to the Curve Editor you can access from any clip, except instead of using the curve to animate image transforms, you use the curve to retime the transition. Combined with eased or bezier keyframes at the beginning and end of a transition curve, you can create transitions that slowly start and quickly end, quickly start and slowly end, or any variation your project requires.

Methods of editing a Transition Curve:

- To change the interpolation of a control point: Click the control point you want to edit, and then click one of the four bezier interpolation buttons in the Curve Editor title bar. Adding bezier handles to a transition control point lets you create an eased transition. If you chose an option from the Ease pop-up of the Transition Properties in the Inspector, one or both of the transition curve keyframes may already be set to bezier.
- To adjust a bezier handle: Drag the bezier handle in any direction to alter the curve.
 Whenever you customize bezier handles on a Transition curve, the Ease pop-up of the Transition Properties in the Inspector changes to Custom.
- To add a new control point to a curve: Option-click anywhere on a curve to add a new control point.
- To drag a control point on a curve: Click any control point and drag left or right to retime it, and up or down to change the value of the control point. Once you begin to move the pointer, the control point is constrained in that direction.
- To delete a control point from a curve: Right-click a keyframe and choose Delete Selected from the contextual menu. You cannot delete the last two control points of a transition curve.
- To turn a curve on and off: Clicking the green dot at the upper left-hand corner of the Keyframe Editor lets you turn a transition curve's effect on and off, without disabling the transition. When you turn the keyframes off, the transition defaults to a linear transition with no easing.

DaVinci Resolve Transitions

The following are transitions that are available within Resolve by default, along with the parameters that are available for each of them from the Inspector:

Audio Transitions:

 Cross Fade +3/-3/0 dB: An audio-only transition that lets you fade from one audio clip to another. Three different crossfades let you choose the power of the actual transition from one level to the other.

Video Transitions:

- Additive Dissolve: Style lets you choose what type of cross dissolve you want; choices include Video, Film, Additive, Subtractive, Highlights, Shadows. Start Ratio lets you adjust how far along the transition is when it first begins. End Ratio lets you adjust how far the transition gets at the very end. The Reverse checkbox reverses the direction of the transition.
- Arrow Iris: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Offset to center lets you alter the center point at which this transition is positioned. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition. Box mode lets you choose one of the following presets:
 - Arrow Head Up
 - Arrow Head Bottom
 - Arrow Head Left
 - Arrow Head Right
- Band Wipe: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition. Preset lets you choose one of the following presets:
 - Horizontal
 - Vertical
 - Horizontal Bilinear
 - Vertical Bilinear
- Barn Door: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition. Box mode lets you choose one of the following presets:
 - Barn Door Vertical
 - Barn Door Horizontal

- Box: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition. Box mode lets you choose one of the following options:
 - Upper Left
 - Upper Right
 - Lower Left
 - Lower Right
 - Left Center
 - Top Center
 - Right Center
 - Bottom Center
- Center Wipe: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Angle specifies the angle of the wipe as it emerges from the middle of the screen. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition.
- Clock Wipe: Color sets the color of the border, if there is one. Border sets the width
 of the border, in pixels, with 0 creating no border. Angle specifies the starting angle
 of the wipe as it spins around the center of the screen. The Clockwise checkbox sets
 the direction of the clock wipe. Feather is a checkbox that, when turned on, uses the
 Border slider to determine the amount of feathering at the edge of the transition.
- Cross Dissolve: Style lets you choose what type of cross dissolve you want; choices include: Video, Film, Additive, Subtractive, Highlights, Shadows. Start Ratio lets you adjust how far along the transition is when it first begins. End Ratio lets you adjust how far the transition gets at the very end. The Reverse checkbox reverses the direction of the transition.
- Cross Iris: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Offset to Center identifies the center point at which the cross wipe begins, as X and Y coordinates on the screen. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition.
- Diamond Iris: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Offset to Center identifies the center point at which the diamond-shaped wipe begins, as X and Y coordinates on the screen. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition.
- Dip to Color Dissolve: Start Ratio lets you adjust how far along the transition is when it first begins. End Ratio lets you adjust how far the transition gets at the very end. The Reverse checkbox reverses the direction of the transition. Color lets you choose what color the dissolve dips to at the midpoint.
- Edge Wipe: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Angle specifies the angle of the wipe as it moves across the screen. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition.
- Eye Iris: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition.

- Heart: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Offset to Center identifies the center point at which this circular wipe begins, as X and Y coordinates on the screen. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition.
- Hexagon Iris: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Offset to center lets you alter the center point at which this transition is positioned. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition. Box mode lets you choose one of the following presets:
 - Hexagon
 - Hexagon Rotate
- Non-Additive Dissolve: Start Ratio lets you adjust how far along the transition is when it first begins. End Ratio lets you adjust how far the transition gets at the very end. The Reverse checkbox reverses the direction of the transition.
- Oval Iris: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Offset to Center identifies the center point at which this circular wipe begins, as X and Y coordinates on the screen. Oval Ratio changes the aspect ratio of the oval, making it either wider or taller. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition.
- Pentagon Iris: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Offset to center lets you alter the center point at which this transition is positioned. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition. Box mode lets you choose one of the following presets:
 - Pentagon Up
 - Pentagon Down
- Push: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition. Box mode lets you choose one of the following presets:
 - Push Left
 - Push Right
 - Push Up
 - Push Down
- Radial Wipe: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition.
- Slide: Direction determines whether or not the incoming clip slides in or the outgoing clip slides out. Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition. Box mode lets you choose one of the following presets:
 - Slide, Left-Right
 - Slide, Right-Left
 - Slide, Bottom-Up
 - Slide, Top-Down
 - Slide, Top-Left
 - Slide, Bottom-Right

- Smooth Cut: A special-purpose transition designed to make short jump cuts in the middle of a clip less noticeable. This is done by using optical flow processing to match the same features on either side of a cut in order to automatically morph a subject from one position to another over the duration of the transition. This effect works best on clips such as sit-down interviews and close-up head shots with a minimum of background and subject motion, and where the subject's position on either side of the cut is not significantly different. A good example of when Smooth Cut is effective is when you're cutting pauses, partial repeats, filler sounds such as "um" or "you know," or other speech disfluencies out of an interview clip to tighten the dialog, and you want to eliminate the little "jump" that occurs at the cut without having to cut away to b-roll. Applying a short two or four frame Smooth Cut transition to the edit can make this kind of edit invisible, as long as the speaker doesn't change position significantly during the cut. The more motion there is in the background of the shot, and the more the speaker changes position, the harder it will be to get a useful result using Smooth Cut. Although the default duration for any transition is one second, you'll find that Smooth Cut transitions work much better when they're short; 2-6 frame Smooth Cut transitions often work best to disguise jump cuts.
- Spiral Wipe: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition.
- Split: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition.
- Star: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Offset to Center identifies the center point at which this circular wipe begins, as X and Y coordinates on the screen. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition.
- Triangle Iris: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Offset to center lets you alter the center point at which this transition is positioned. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition. Box mode lets you choose one of the following presets:
 - Triangle Up
 - Triangle Bottom
 - Triangle Left
 - Triangle Right
- Triangle Left: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition.
- Triangle Right: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition.

- Venetian Blind Wipe: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Repeat specifies how many "blinds" appear within the wipe effect. Angle specifies the angle of this multi-wipe effect. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition.
- X Wipe: Color sets the color of the border, if there is one. Border sets the width of the border, in pixels, with 0 creating no border. Feather is a checkbox that, when turned on, uses the Border slider to determine the amount of feathering at the edge of the transition.

OpenFX Transitions

If you've installed one or more sets of OpenFX plugins on your DaVinci Resolve workstation, any transitions within those sets will appear in the OpenFX panel of the Effects Library.

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OpenFX Transitions in the Toolbox

Organizing Transitions

While DaVinci Resolve provides 31 transitions by default, most editors typically only use a subset of these in their day-to-day work. Also, it's typical to save customized versions of a particular transition in order to reuse that specific set of transition settings over and over again.

Methods of setting and filtering favorites in the Effects Library:

- To set a transition or other effect as a favorite in the Effects Library: Move the pointer over any transition, and click the star button when it appears to set that transition as a favorite. Click any transition's star to "un-favorite" it.
- To display only your favorites in the Effects Library: Click the options menu at the upper right-hand corner of the Effects Library, and choose Favorites.
- To display all effects in the Effects Library: Click the options menu at the upper righthand corner of the Effects Library, and choose Show All.

To save a Transition Preset for future use:

- 1 Add a transition to the Timeline, then double-click it to open it in the Inspector to adjust its settings to be the way you need it to be.
- 2 (optional) if necessary, open the transition's Curve Editor and set the type of curve you want the transition to have. A customized transition curve will be saved inside of that transition's preset.
- 3 Right-click on the transition you want to save, and choose "Create Transition Preset."
- 4 Type a name for the Transition Preset in the dialog that appears, and click OK. That transition is saved to the bottom of the Toolbox Video Transitions area, where you can apply it just like any other transition.

Changing the Standard Transition

To change the Standard Transition:

Different projects may require different transitions be used as the Standard Transition. Resolve gives you several tools for dealing with this.

Right-click any transition or effect and choose "Set as Standard Transition." The standard transition appears with an orange indicator to the left of its name in the Effects Library.



The Effects Library open, showing starred transitions that have been favorited, and the standard transition with an orange indicator to the left of its name