

# Temp

The Animation Tab is shown below. This provides the various adjustments and parameters to control animation of objects.

The screenshot shows the 'Animation' tab in a software interface. It contains several sections, each with a checked checkbox and a set of input fields. Each section has an 'add modifier' or 'add filter' button to its right.

- Pan (%)**: X: 0, Y: 0, Z: 0. Button: add modifier
- Zoom (%)**: X: 90, Y: 90, 100%. Button: add modifier
- Rotate**: C: 0, Y: 0, X: 0. Button: add modifier
- Center**: X: 0, Y: 0. Button: add modifier
- Framing**: S: 100, X: 100, Y: 0. Button: add modifier
- Opacity**: A: 100. Button: add modifier
- Blur**: R: 0. Button: add modifier
- Color correction**: Button: add filter

At the bottom, there is a 'Key frame time' field with the value 0 and a unit selector set to 'ms'.

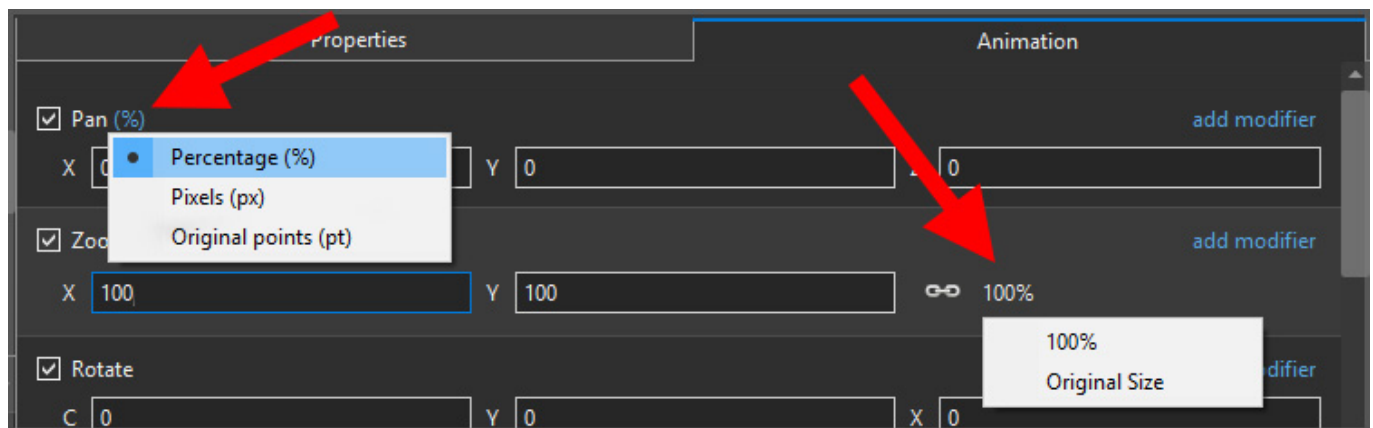
- For Pan and Rotate, adjustments can be made in three planes
  - X,Y and Z for Pan
  - C,Y and X for Rotate
- These adjustments replace the 3D parameters provided in Version 8.
- A new adjustment called Framing is provided (see [Framing](#))
- The Color Correction parameters have been expanded in Version 9 ([Color Correction](#))
- The “Key Frame Time” box shows the time (in milliseconds) of the selected Key Frame

## Parameter Controls

## Display Mode for Pan and Zoom

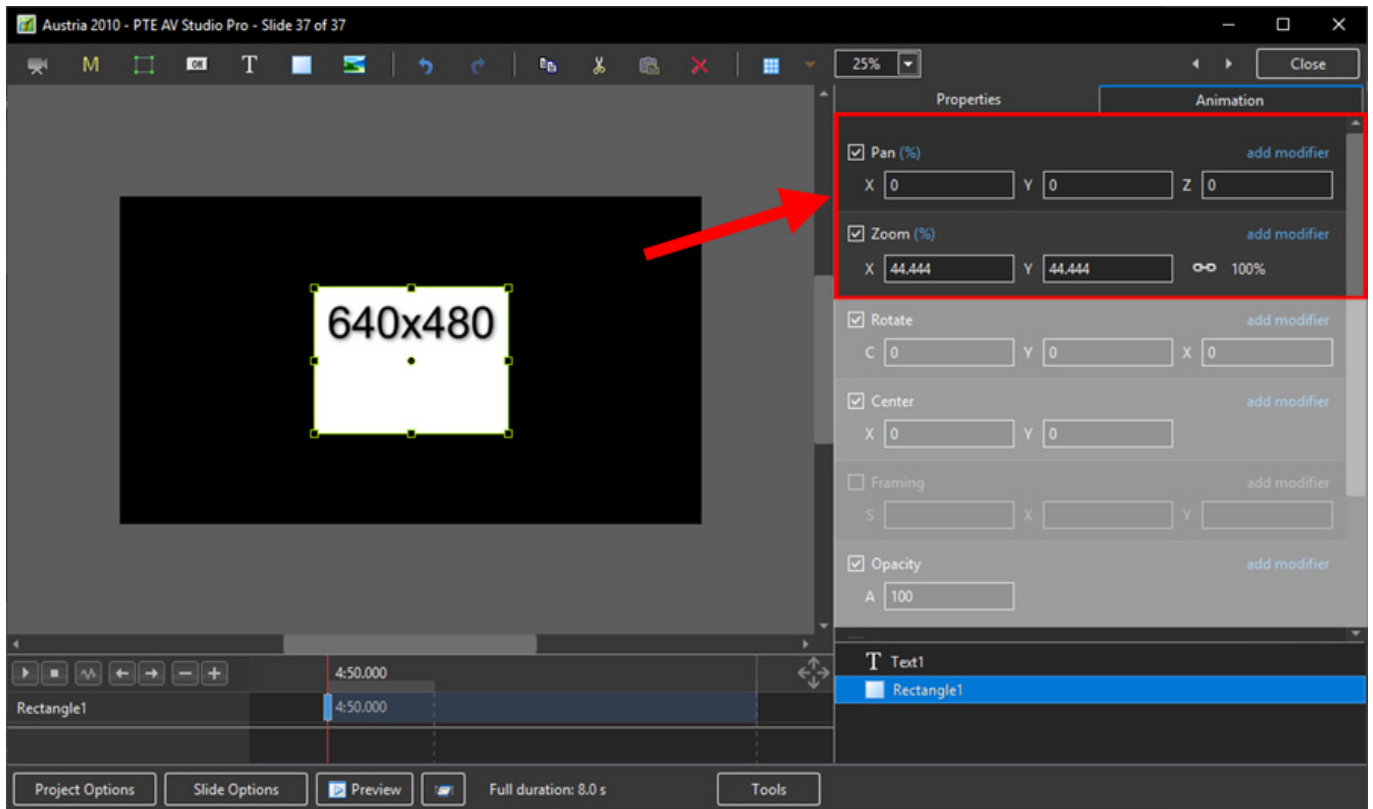
Click on the “%” sign or the “100%” sign:

- “%” = Percentage Mode
- “px” = Pixels Mode
- “pt” = Original Points Mode
- “100%” = Full Height of Project Screen
- “Original Pixels” = The Original Pixel Size of the Image

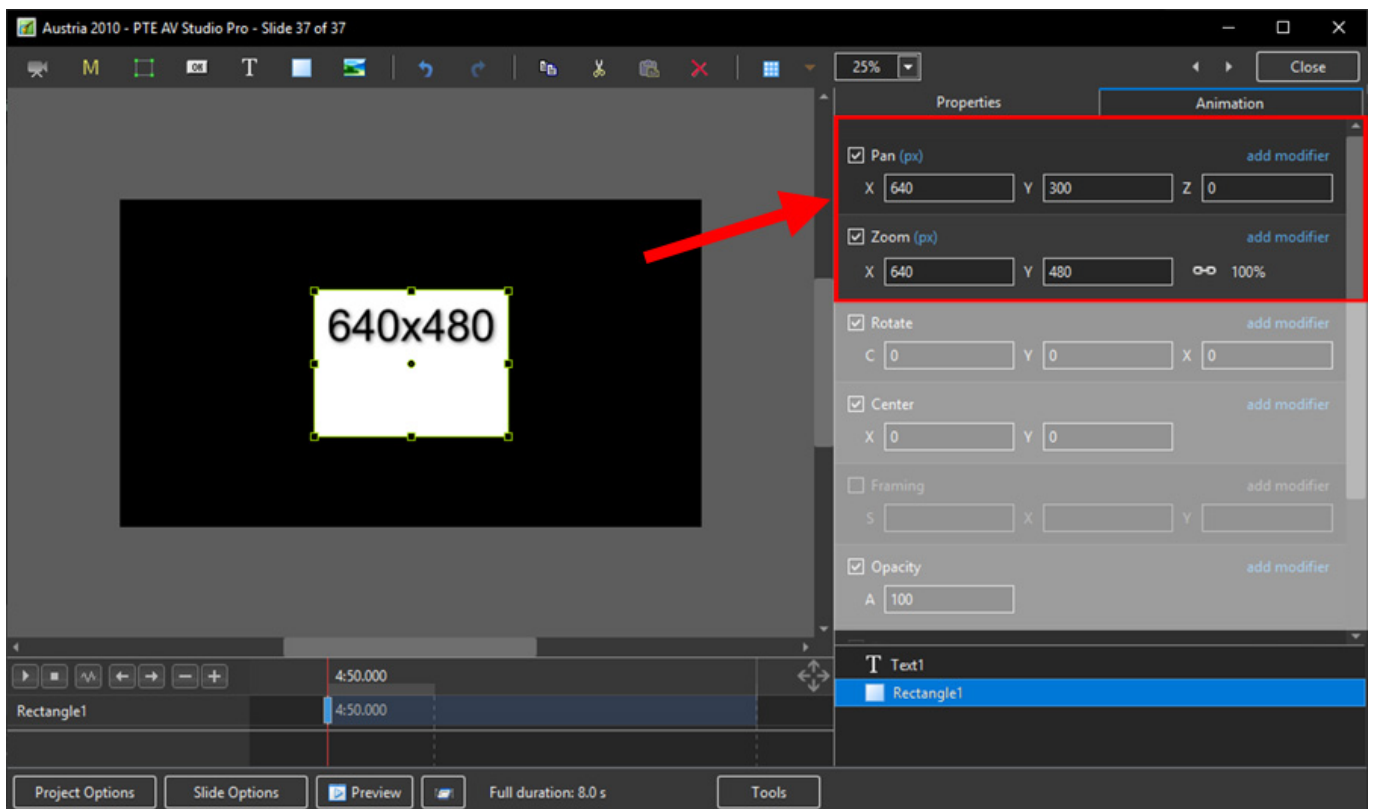


The Illustration below shows a 640×480 rectangle at Original Size in a 1920×1080 Project

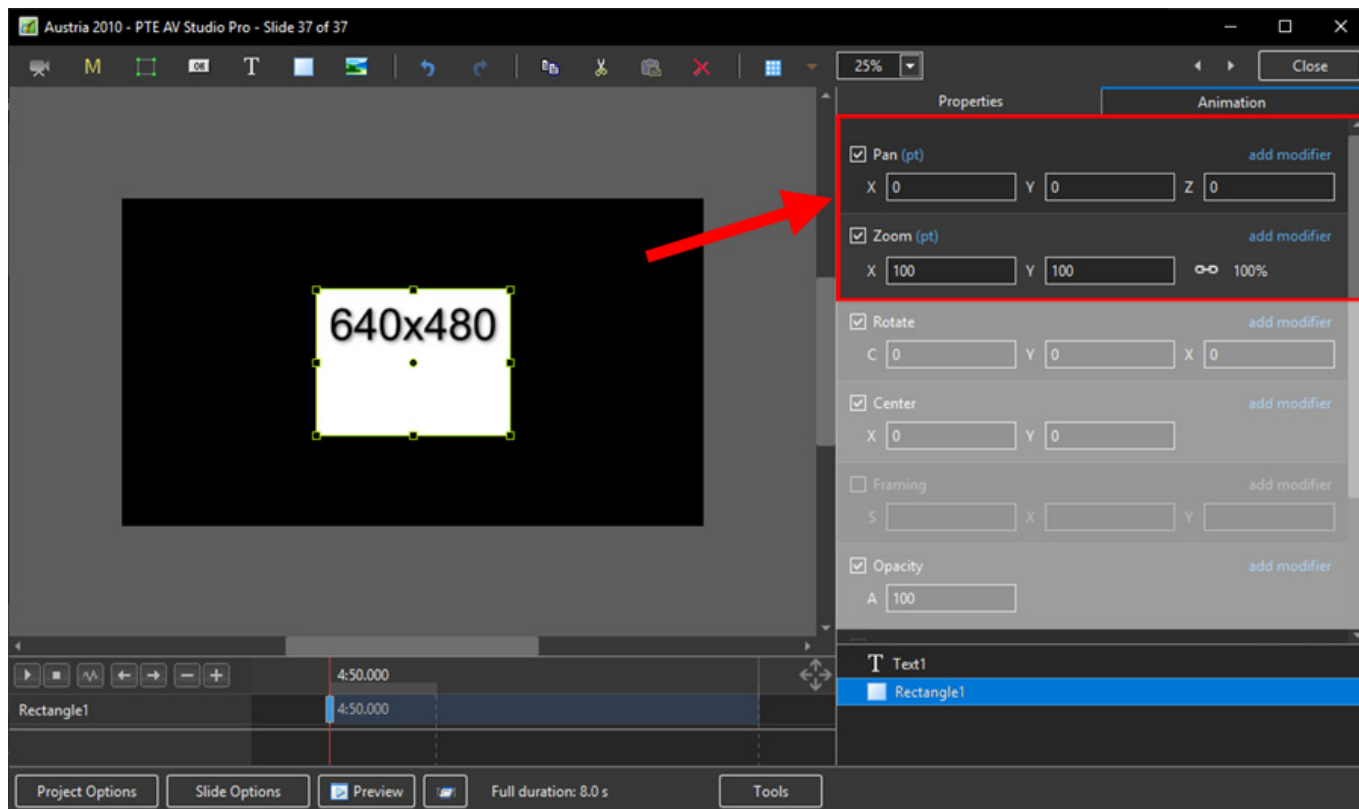
- In Percentage Mode:
- The values for “X” and “Y” Pan are calculated for the Centre of the Object/Rectangle with respect to the Centre of the Slide
- The value of the Zoom Parameter is the percentage of the Full Height of the Project Screen (in this case 1080 pixels)
- $480/1080 = 0.444444444444 = 44.44444444\%$



- In Pixels Mode:
- The values for "X" and "Y" Pan are calculated for the Top Left Corner of the Object/Rectangle with respect to the Top Left Corner of the Slide
- The value of the Zoom Parameter is the Pixel Size of the Object/Rectangle

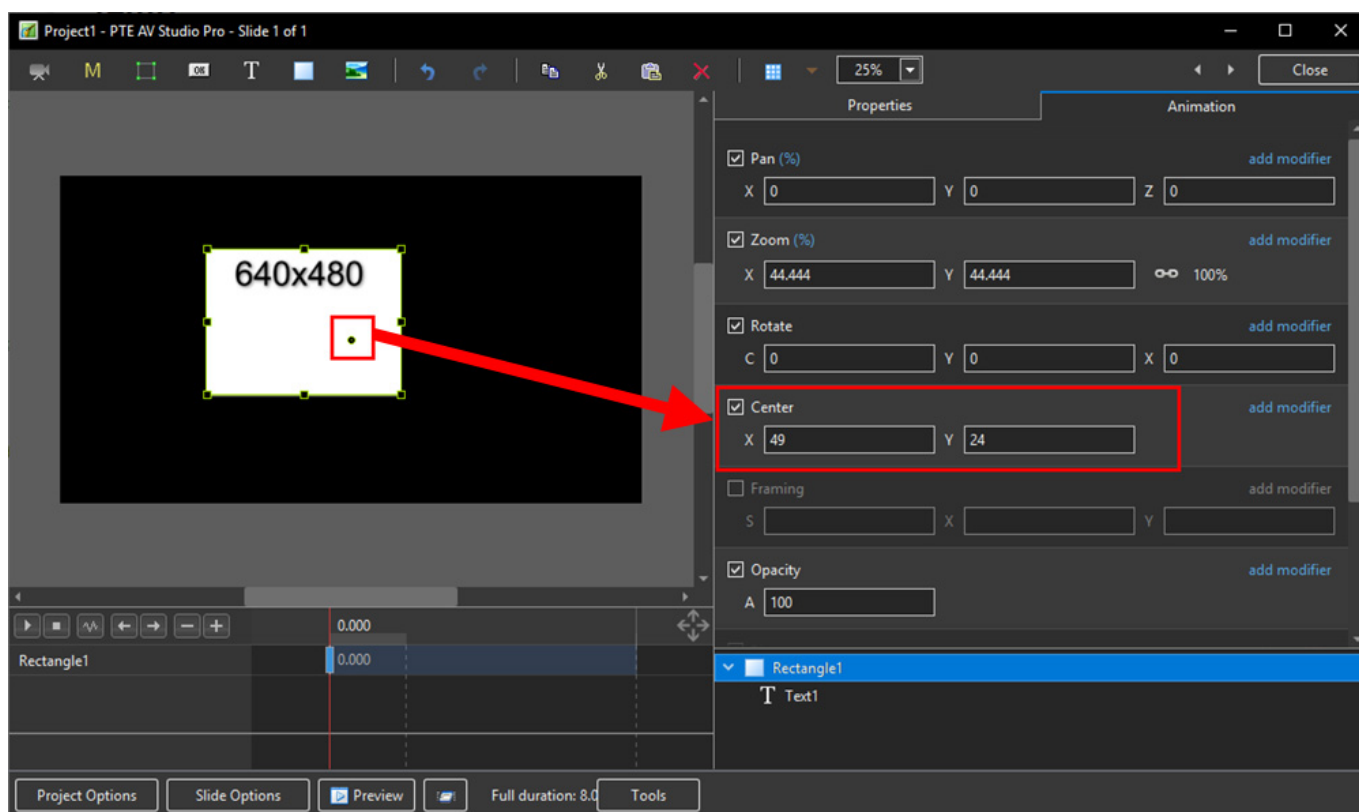


- In Points Mode



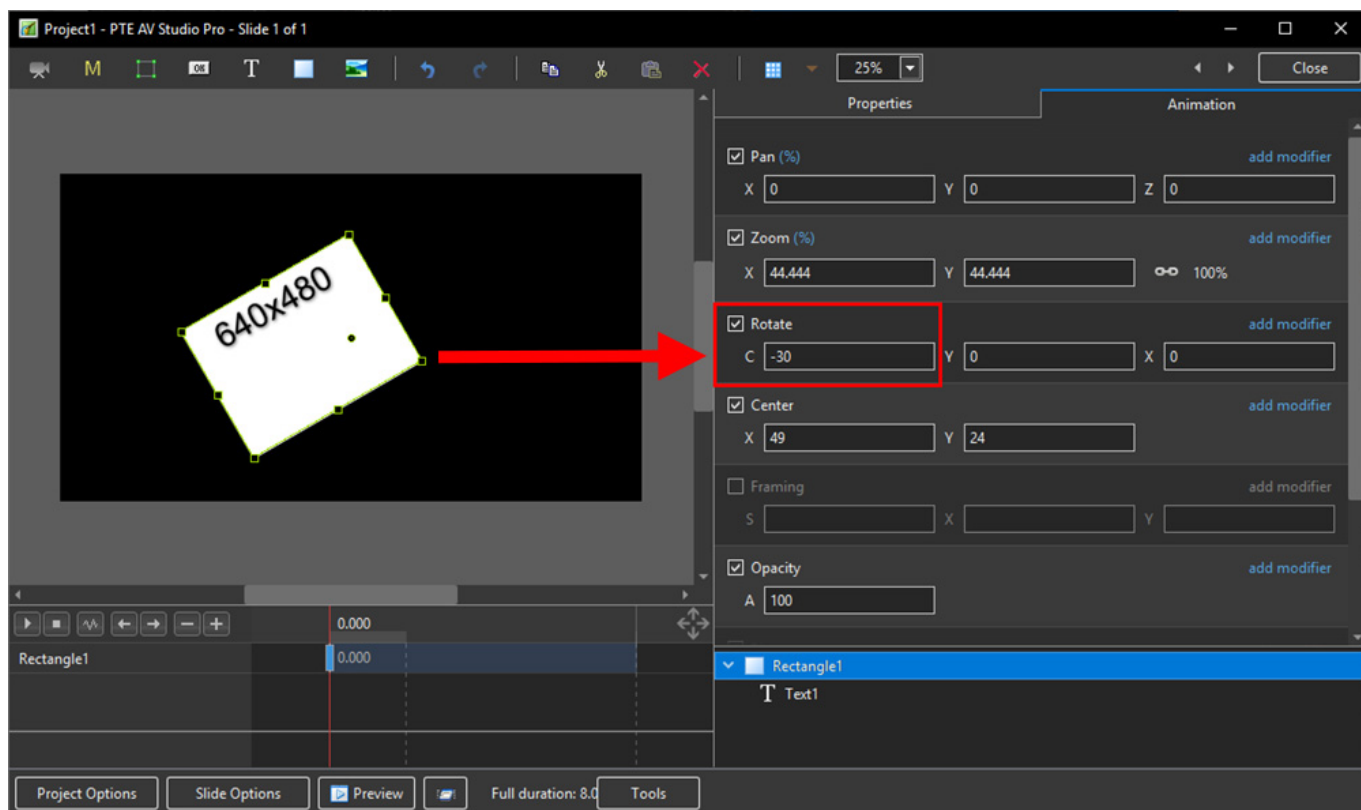
## The Centre Control

- The “CENTRE” Control can be used to move the CENTRE or “Point of Rotation” of an Object as shown below:

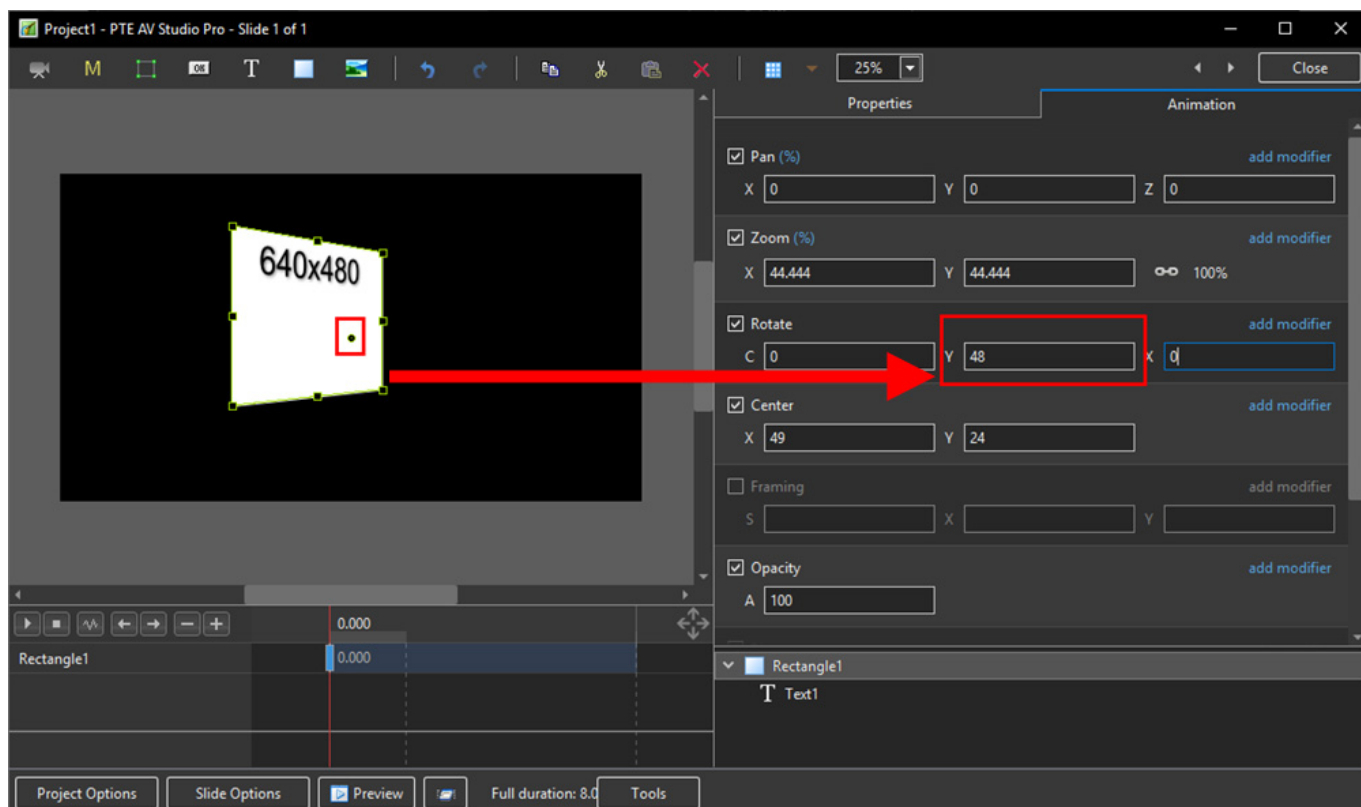


## The Rotate Control

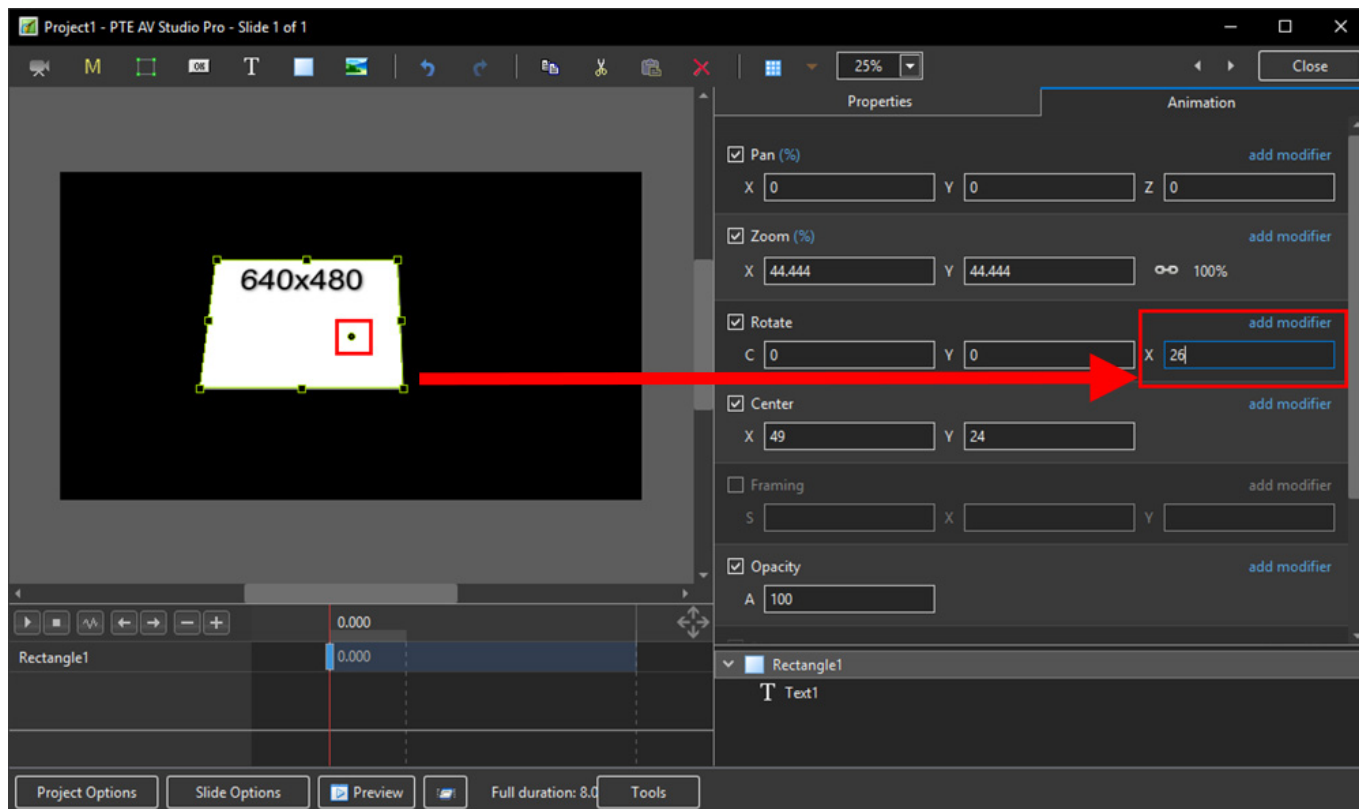
- The “Rotate C” Control will rotate an Object about its Centre Point in the same plane as the screen:



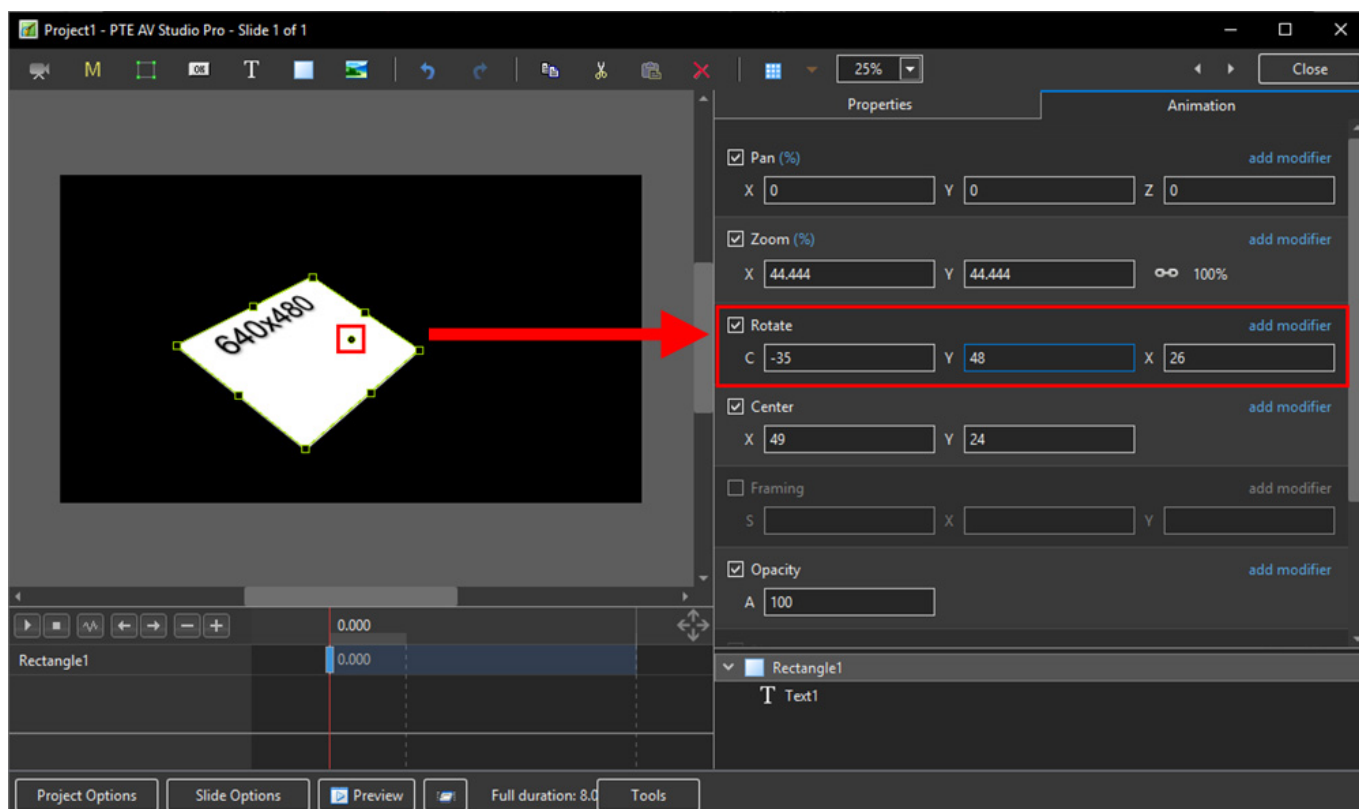
- The “Rotate Y” Control will rotate an Object about its Centre Point in 3 Dimensions Horizontally:



- The “Rotate X” Control will rotate an Object about its Centre Point in 3 Dimensions Vertically:



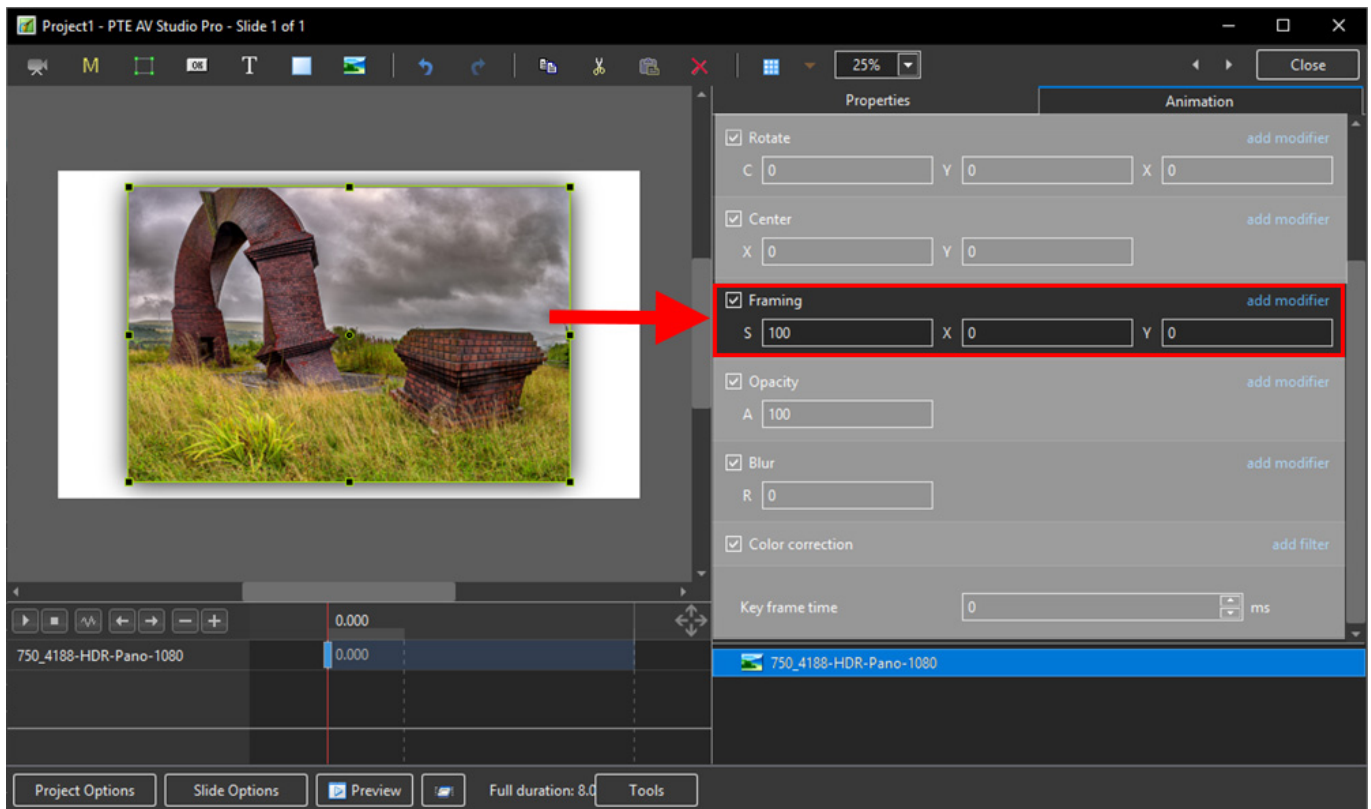
- The "C", "Y" and "X" Rotate Controls can be used simultaneously:



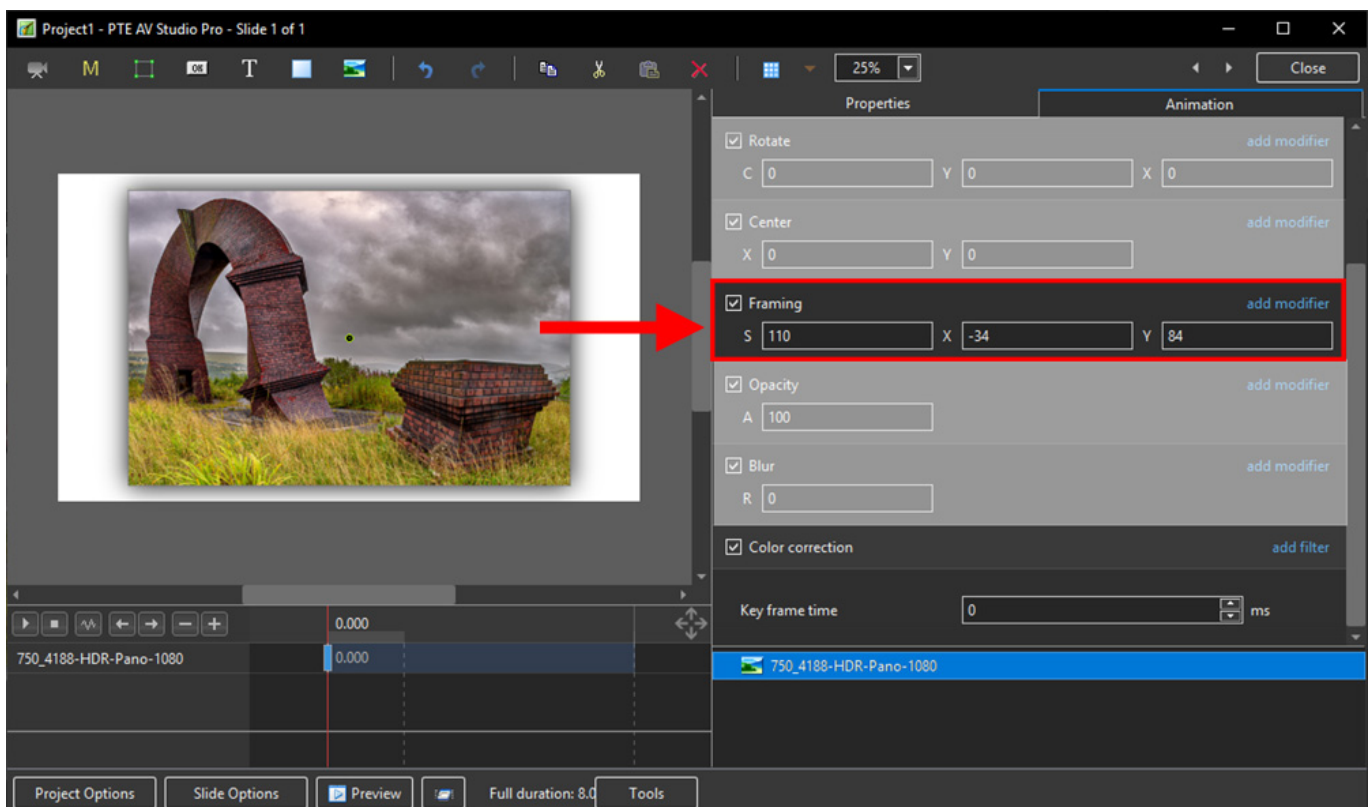
## Framing

- Framing can be used to Pan and/or Zoom an Image within a Frame without modifying the frame itself
- Framing can also be used to adjust an Aspect Ratio mismatch

- In the example below a 4:3 image is shown within a 3:2 frame at 90% of full screen in a 16:9 Project.
- In the default 100% Scaling (S) the 4:3 Image has been “cut off” at the top and bottom of the Image and “Fits” the Width of the 3:2 Frame.



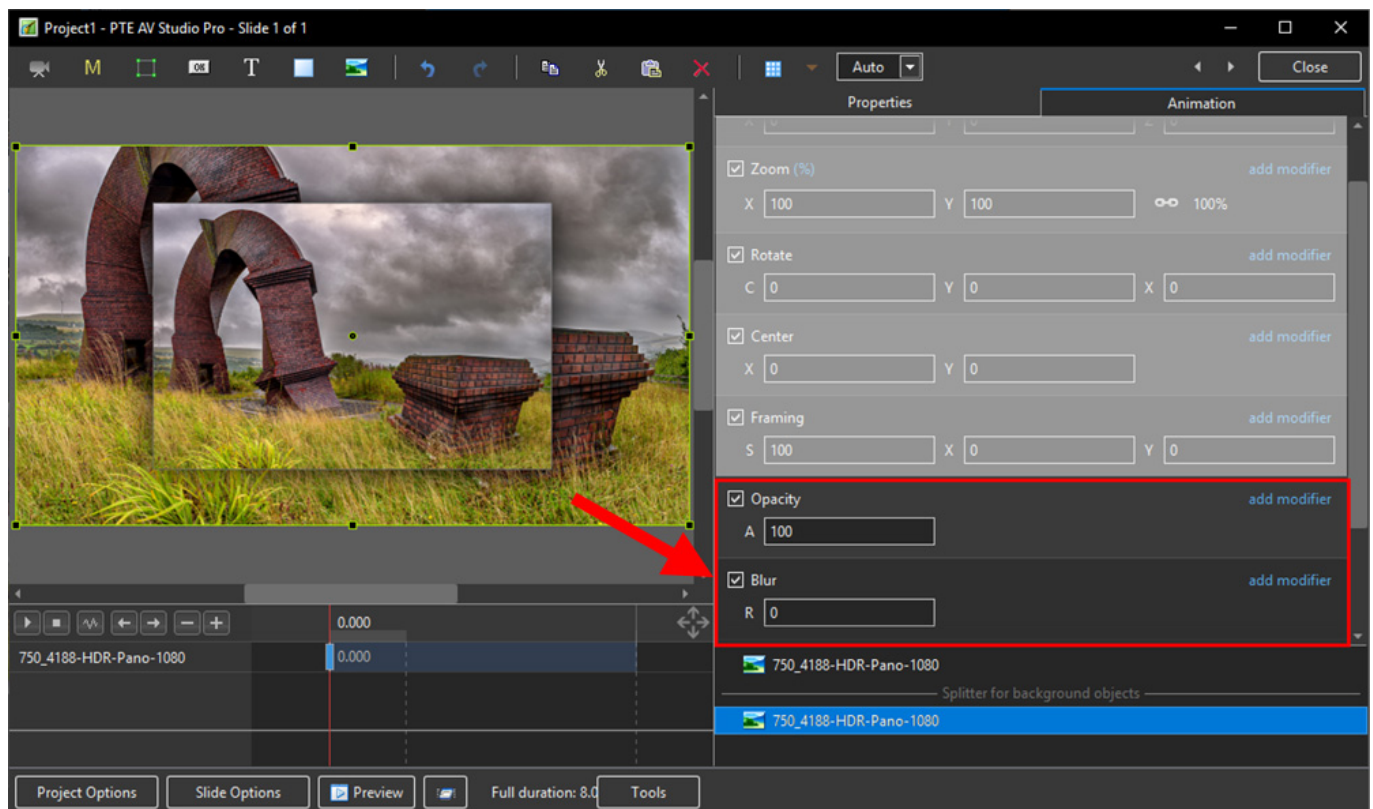
- By adjusting the “S”, “X” and “Y” Controls a “Best Fit” composition can be achieved
- Further Panning and Zooming is possible



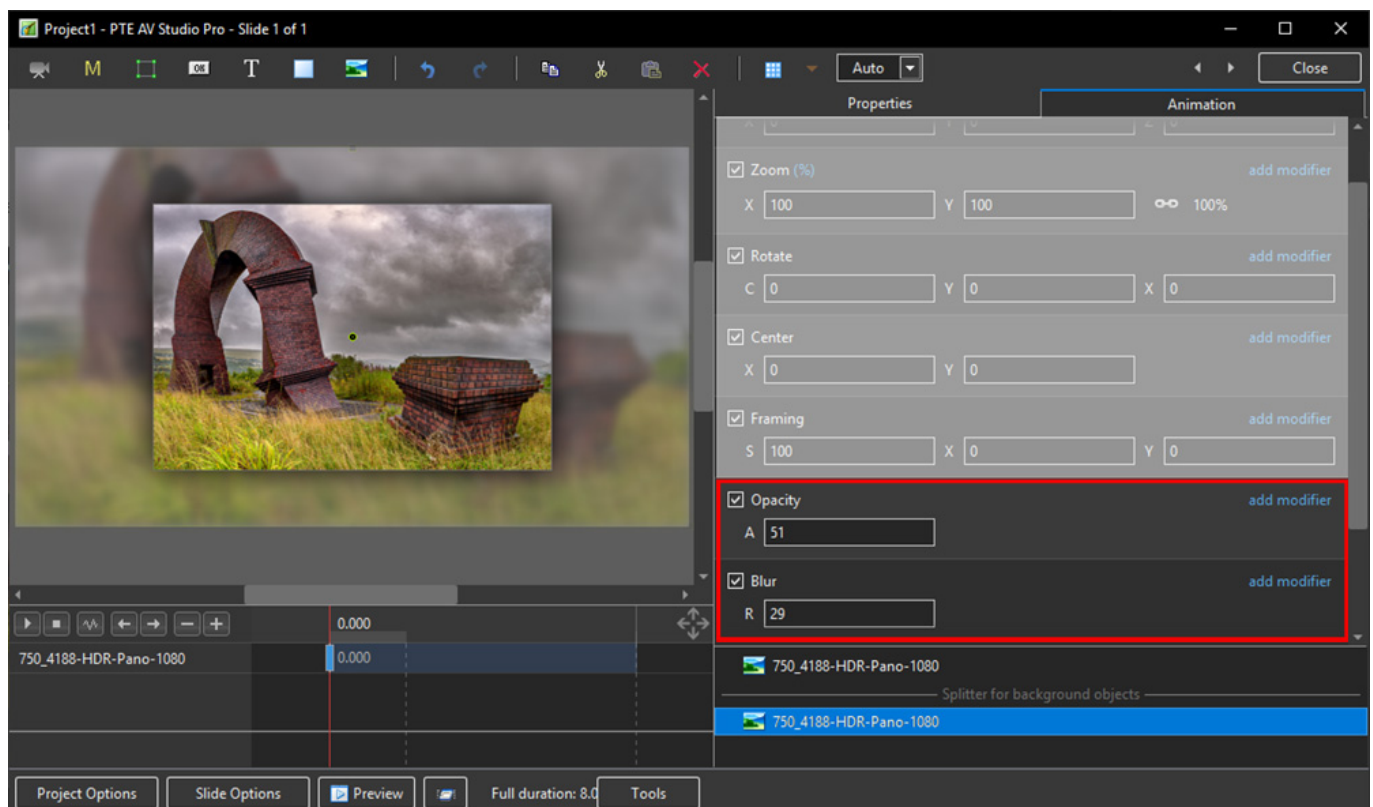


## Opacity and Blur

- The Illustration shows Main Image used as a Background Image at 100% Opacity and Zero Blur



- The following Illustration shows the same Background Image with reduced Opacity and a little Blur





## Modifiers

- Modifiers can be applied to an Animation of an Object / Image between two Key Frames
- The Modifier is applied to the first Key Frame of a pair of Key Frames defining the animation
- Click on “Modifier”

The screenshot shows the Modifiers panel with the following settings:

- Pan (%)**: X: 0, Y: 0, Z: 0. The 'add modifier' button is highlighted with a red box.
- Zoom (%)**: X: 100, Y: 100, Link icon, 100%. 'add modifier' button.
- Rotate**: C: 0, Y: 0, X: 0. 'add modifier' button.
- Center**: X: 0, Y: 0. 'add modifier' button.
- Framing**: S: 100, X: 0, Y: 0. 'add modifier' button.
- Opacity**: A: 100. 'add modifier' button.
- Blur**: R: 0. 'add modifier' button.

- The drop-down shows a number of options, the first being Animation Speed

The dropdown menu for Animation speed shows the following options:

- Animation speed (selected)
- Pan.X
- Pan.Y
- Pan.Z
- Accelerate
- Slow down
- Smooth
- Custom

- Acceleration - the animation starts “slowly” and builds up to a maximum
- Slow Down - the animation starts at maximum speed and finishes smoothly
- Smooth - Starts and ends smoothly, with the maximum speed in the middle
- Custom - Linear Acceleration to the Middle of the animation and Linear Deceleration to the finish - a starting point for a Custom Setting

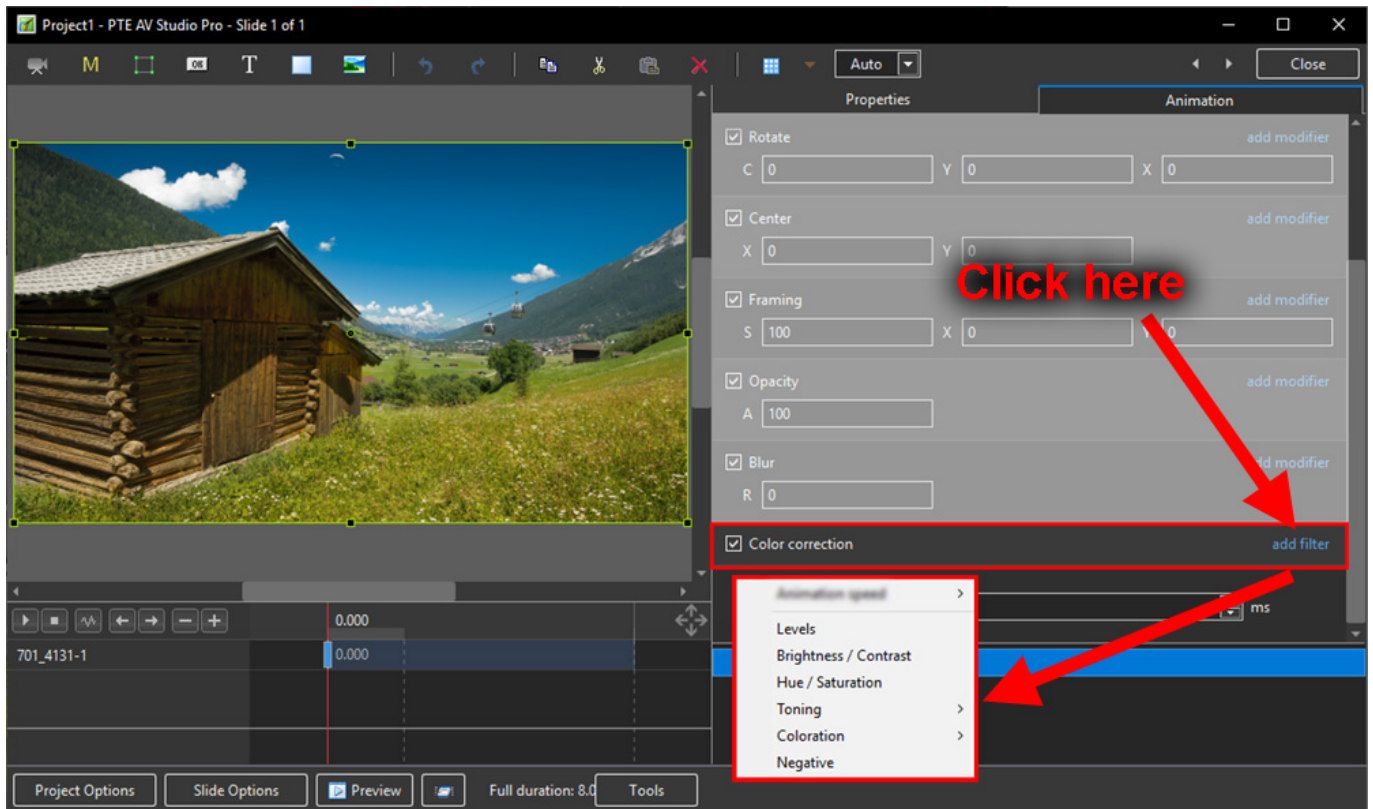
Section	Accel. time (%)	Decel. time (%)	Start speed	Final speed
Animation speed: Accelerate	56	1	0	0
Animation speed: Slow down	1	56	0	0
Animation speed: Smooth	26	26	0	0
Animation speed	50	50	0	0

- Pan, Zoom, Rotate etc all have a set of modifiers labelled:
  - Oscillation
  - Jumping
  - Ping Pong
  - Shift

Animation speed	>	
Pan.X	>	Oscillation
Pan.Y	>	Jumping
Pan.Z	>	Ping pong
		Shift

## Colour Correction

- Click on “Add Filter” to display a list of available Colour Correction Adjustments:

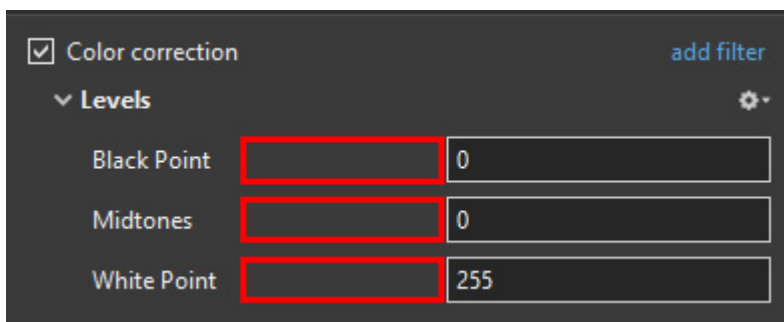


The available Adjustments are:

- Levels
- Brightness / Contrast
- Hue / Saturation
- Toning
- Colouration
- Negative

## Levels

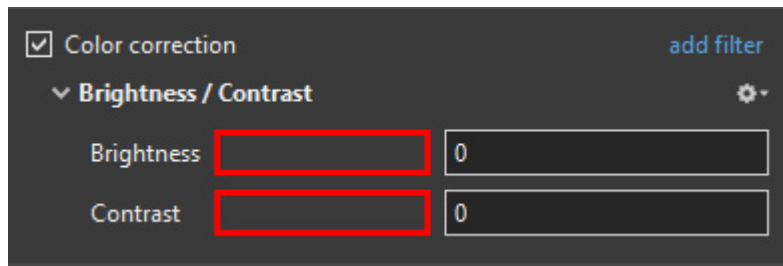
- The Adjustments:



- Click and drag within the area outlined to the Left and / or Right to change the value of the adjustment
- Values can be entered directly via the keyboard
- Increasing the Black Point and decreasing the White Point will apply Contrast to the Object / Image
- Increasing / Decreasing the Midtones will Lighten / Darken the Object / Image

## Brightness / Contrast

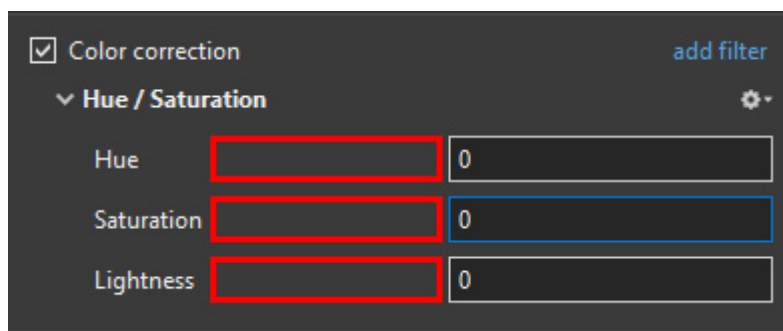
- The Adjustments:



- Click and drag within the area outlined to the Left and / or Right to change the value of the adjustment
- Values can be entered directly via the keyboard
- Drag to the Left / Right to Decrease / Increase Brightness
- Drag to the Left / Right to Decrease / Increase Contrast

## Hue / Saturation

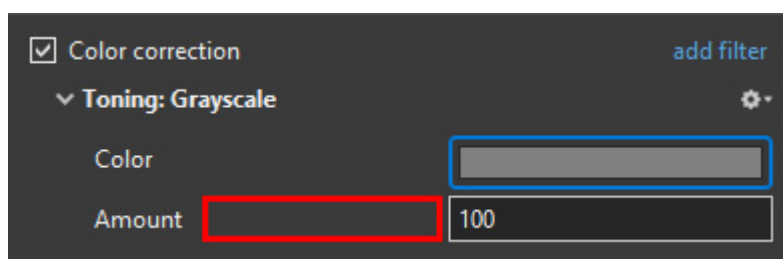
- The Adjustments:



- Click and drag within the area outlined to the Left and / or Right to change the value of the adjustment
- Values can be entered directly via the keyboard
- Drag to the Left / Right to change the Hue
- Drag to the Left / Right to Desaturate / Saturate the Object / Image
- Drag to the Left / Right to Darken / Lighten the Object / Image

## Toning

- The Adjustments:
- Choose from Grayscale, Sepia or Cyan



- Click and drag within the area outlined to the Left and / or Right to change the value of the adjustment
- Values can be entered directly via the keyboard
- Click on the Colour /Grayscale to open the Choose Colour Box and change the Tone
- Drag the Amount Slider to the Left to Decrease the Effect

## Colouration

- The Adjustments:
- Choose from Red, Green or Blue



- Click and drag within the area outlined to the Left and / or Right to change the value of the adjustment
- Values can be entered directly via the keyboard
- Click on the Colour to open the Choose Colour Box and change the Tone
- Drag the Amount Slider to the Left to Decrease the Effect

## Negative

- No Adjustments
- Creates a Negative version of the Object / Image
- Combine with Grayscale Toning or Desaturation to make a Black and White Negative from a Colour Image



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