

3D Animation

Animation Pro can create both anaglyph and side-by-side 3D animations.

Anaglyph 3D

Animation Pro creates two images for each frame, each at a slightly different angle. One image is created in cyan, the other in red. The images are then overlaid to produce a single anaglyph image (see top-right). When viewed using red and blue glasses, each eye sees one of the two original images. The brain interprets the angular difference between the two images as depth and thus the image appears to be 3 dimensional.

Side-by-side

Animation Pro creates two images for each frame, each at a slightly different angle. These images are rendered side-by-side (as shown bottom-right). These images will appear in 3D when played back on a device that supports the side-by-side format.

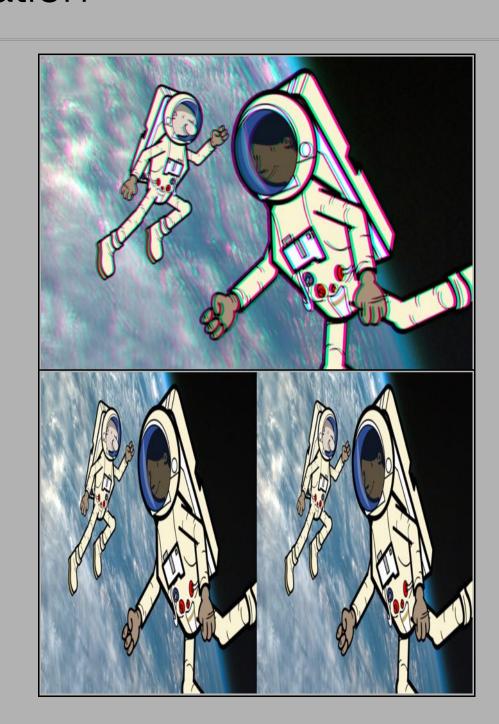
TOPICS

Animating in 3D

Changing the Z-Position of a Figure

Depth

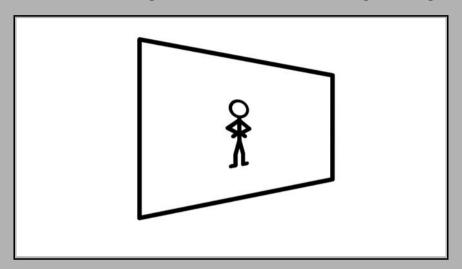
Previewing in 3D

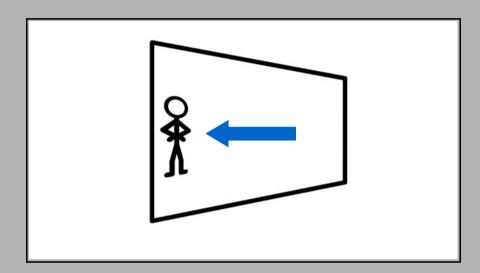


Animating in 3D

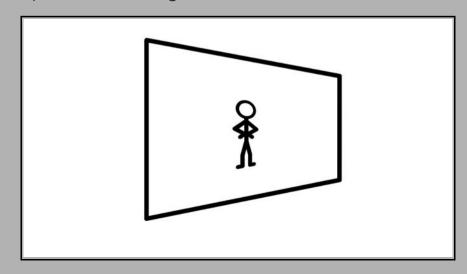
For the most part, creating a 3D animation is done in exactly the same way as creating a 2D animation. The only difference is that you need to tell Animation Pro where each figure is located in three dimensions instead of two.

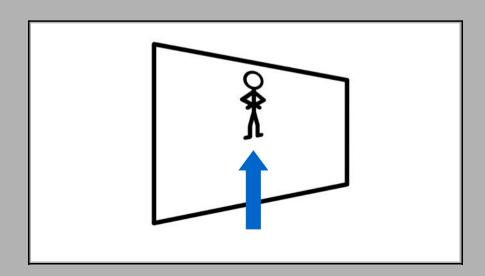
In 2D animations, figures are moved left and right along an X-Axis



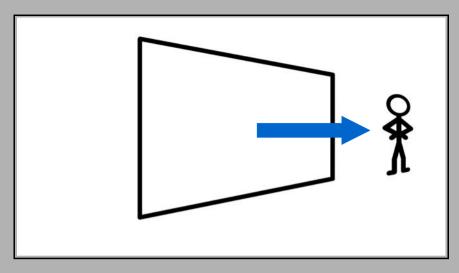


or up and down along a Y-Axis





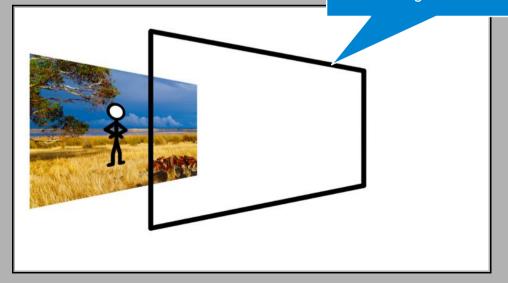
In 3D animations, figures can also be moved along a Z-Axis i.e. into, or out from, the iPad's screen:



In Animation Pro, a figure may be moved along the Z-Axis by adjusting its Z-Position where the Z-Position may have a value between 0.0 and 1.0:

The iPad's screen has a Z-Position of 0.5 i.e. when figures are given a Z-Position of 0.5 they will appear to be sitting on the iPad's screen.

Background images have a Z-Position of 0.0 i.e. they will always appear to be sitting behind the iPad's screen.





0.0 – The figure appears behind the screen (with the background).

1.0 – The figure appears in front of the screen.

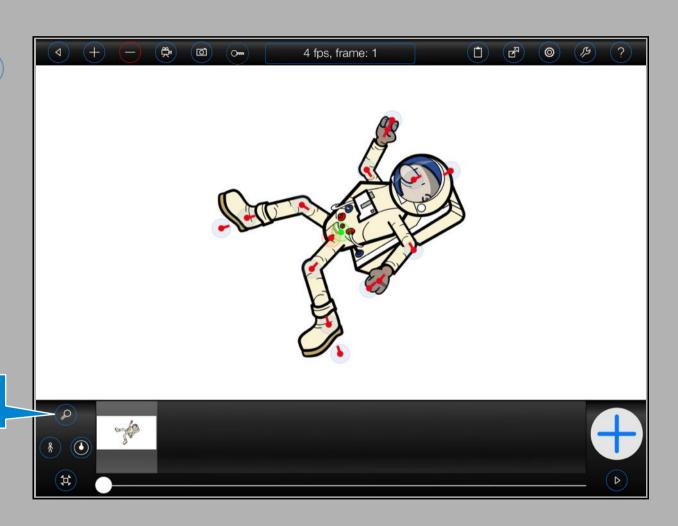
Changing the Z-Position of a Figure

1.

If the 'Figure Inspector' is not visible, tap the button.



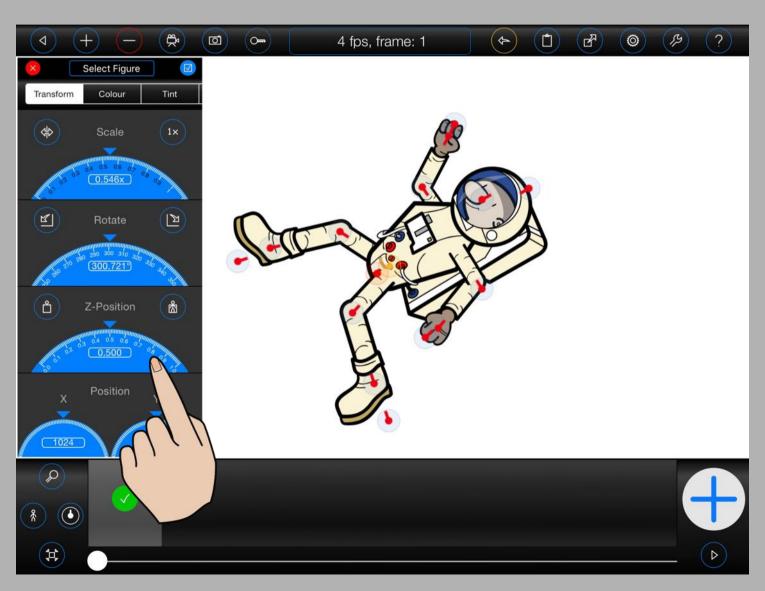
Tap here to open the 'Figure Inspector'



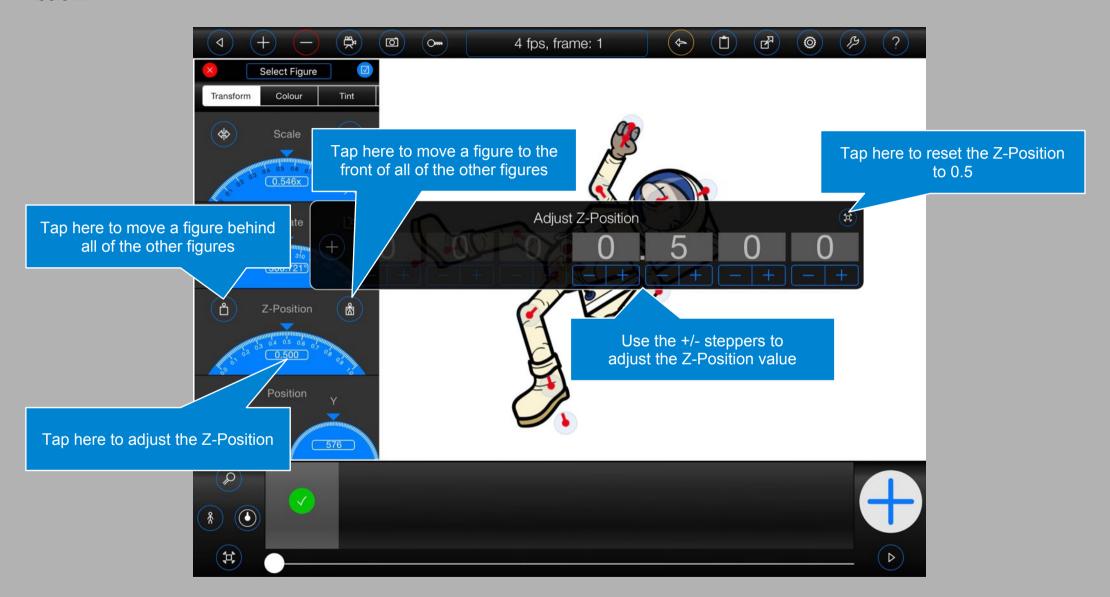
Animation Pro will display the 'Figure Inspector':

2.

Select the 'Transform' category at the top of the 'Figure Inspector' and rotate the 'Z-Position' dial left to increase the figure's Z-Position or right to decrease it:

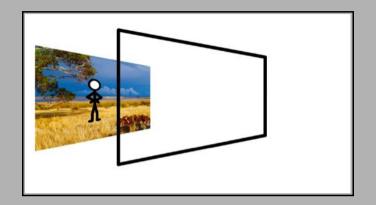


You can also 'fine tune' the Z-Position of the figure, or quickly move the figure all the way to the front or the back, as shown below:



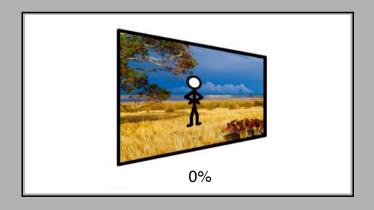
Depth

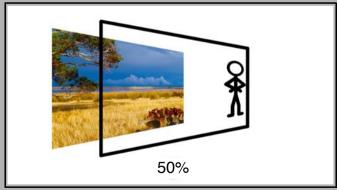
So the Z-Position of a figure determines how far behind, or in front of, the iPad's screen a figure appears when an animation is rendered in 3D.

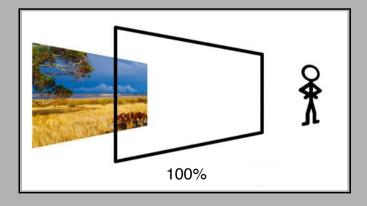




But how far is 'how far'??? Well, the total distance is known as the 3D depth (aka the 'strength' of the 3D effect) and Animation Pro provides a '3D Depth' dial that allows the 3D depth to be easily adjusted when previewing a frame or exporting an animation:







With the '3D Depth' dial set 0% (above left), animations will be rendered flat (effectively in 2D). With the '3D Depth' dial set to 100% (above right), the strength of the 3D effect may actually make you go cross-eyed and/or give you a head-ache. So please experiment with the dial and choose the setting that produces the best results for your situation.

Previewing in 3D

To see a quick preview of your current animation frame in 3D:

1.

Tap on the Dutton and select 'Preview Current Frame'

2.

Select either or depending upon the type of anaglyph 3D glasses that you own.

Drag the '3D Depth' dial to increase or decrease the strength of the 3D effect.



