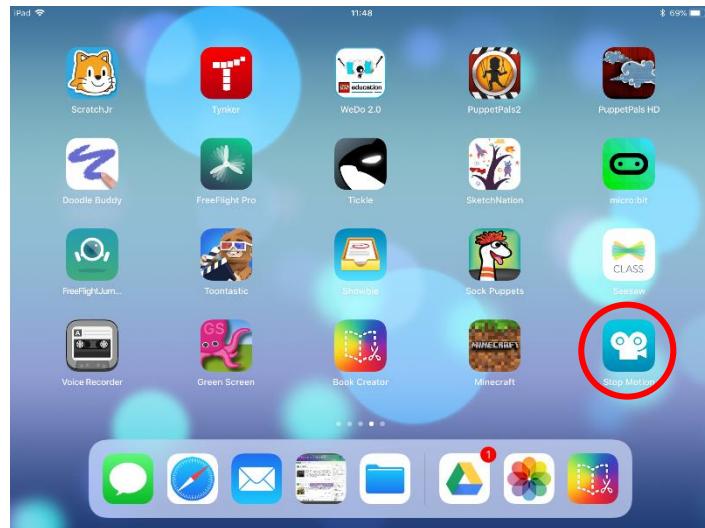


Stop Motion Workshop

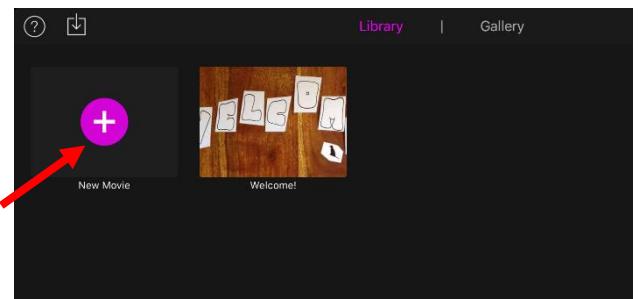
Let's make a movie!

Stop motion animation is a technique where you take lots of photos, and in each photo, your characters and objects move very slightly, so when you put all the photos together you can play them as a movie! So, let's get started...

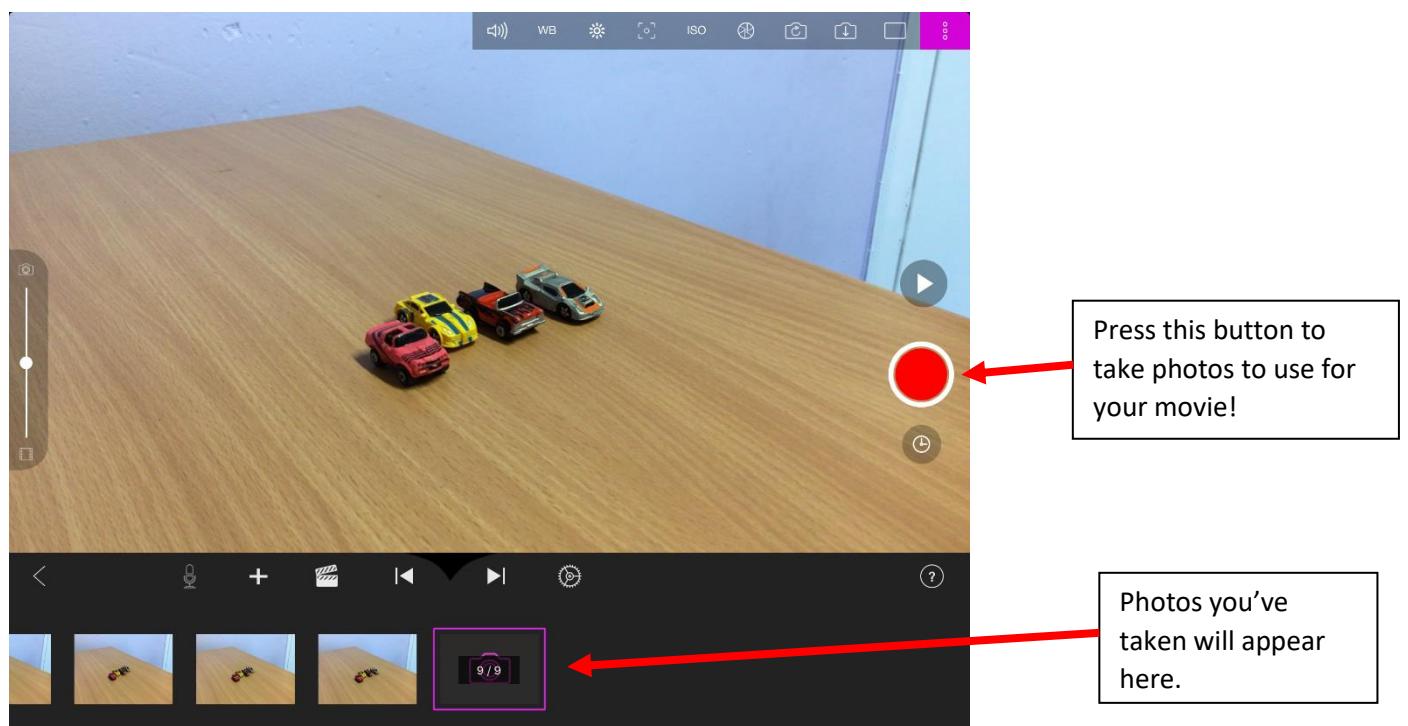
Find the "Stop Motion" app on your iPad, then tap it to open it:



Once you've opened the app, press the big + button to start making your movie.



You'll then see the main screen of Stop Motion, which looks like this:





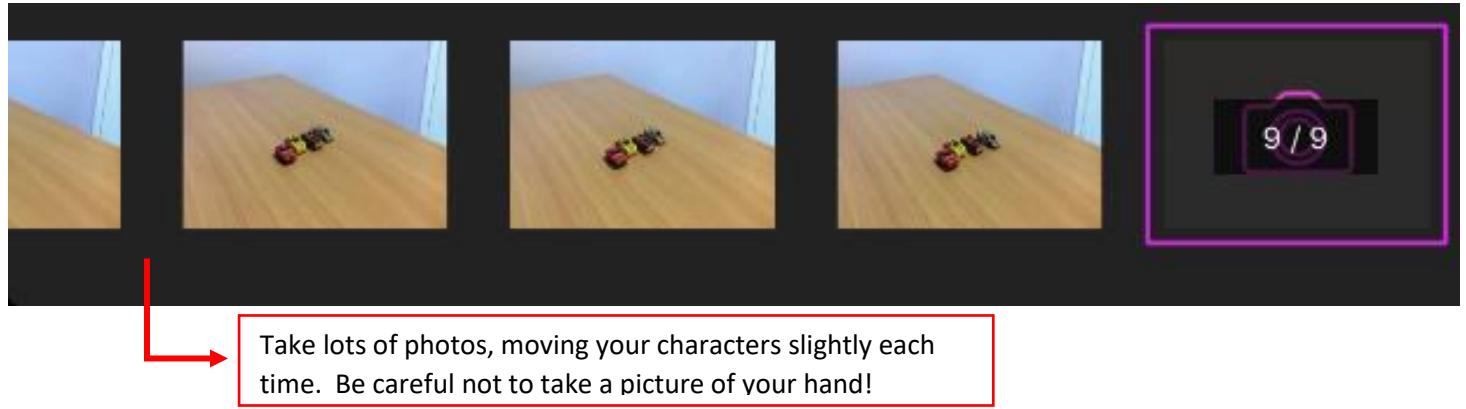
Before we get started, there's one very important thing to remember when making your movie: make sure you **use the stand on the iPad to keep it in one place** – if you move the iPad, the movie might not work quite so well. (If you have any trouble setting up the stand, you can ask for help.)

Note: If you want to change camera angle later, you can still move the iPad, but try to keep it steady and in the same place (unless you want to move the iPad, such as when you want the camera to follow characters).

First, we'll need to add some pictures. Press the large red button to take a photo, which you'll see appear at the bottom of the screen.

Once you've taken a photo, move a character, or several characters, **very slightly** away from where you took the last photo. (For example, if you're using a car, move it as though it has driven forward very slightly)

Then take another photo, move your characters again, take another photo, and keep going until you've got a few photos.



Once you've taken a few photos, click the play button to see what your movie looks like so far!

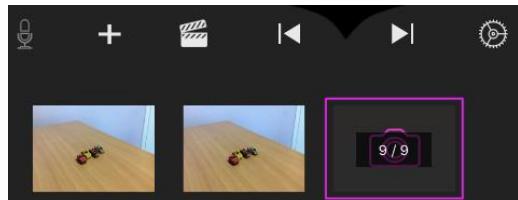
Press the same button again when you're ready to return to making your movie.

How to make your movie faster or slower

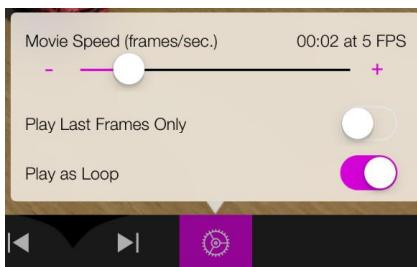
You can change the speed of your movie by changing the FPS (Frames Per Second). This means how many “frames”, or images, are shown each second.

Slowing down your movie with a lower FPS can make it longer, but having a higher FPS can make the animation look smoother – so experiment with different numbers and try to find what looks best for you.

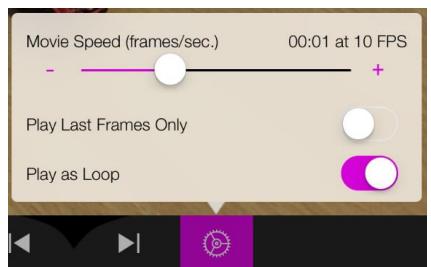
Here's how to change the FPS:



Press the “gear” icon to show some of the settings for your movie, including the FPS.

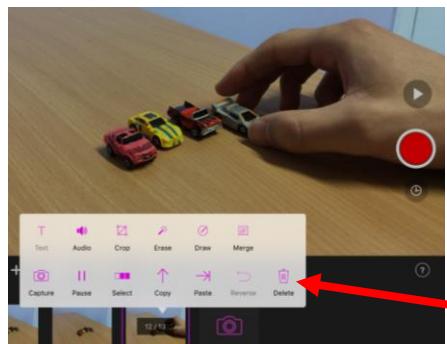


You'll see how long your movie is, and how many FPS it is. In this example, it's 2 seconds long and plays at 5 FPS.



Move the slider to change the FPS. You may notice that changing the FPS changes the length of the movie.

Try some different numbers for FPS and see how it changes your movie!



How to delete pictures

Oh no! I've taken a picture of my hand!

Don't worry if this happens – we can delete pictures we don't want. Just tap the image you want to delete (at the bottom of the screen), and you'll see several options appear.

Select “Delete” to delete the image.

“Onion skinning”

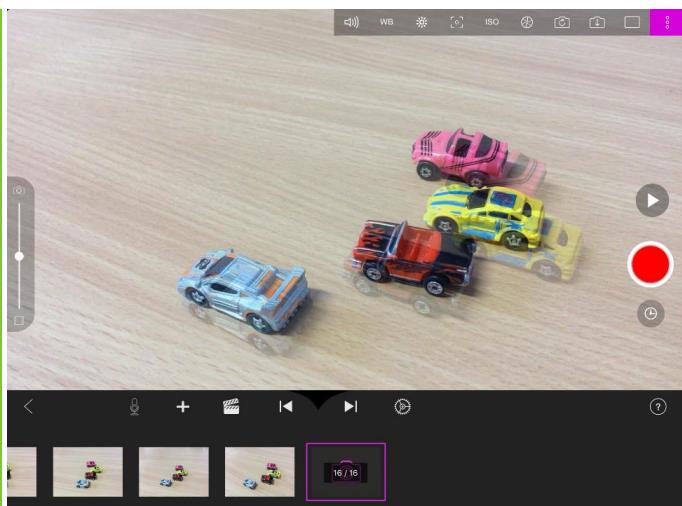
“Onion skinning” is a technique that lets you see your previous picture while you are taking the next one. This helps you to see the animation will look between the two pictures. It's also useful if you accidentally move the iPad, as you can line your current photo back up with the previous one. **Here's how to use this technique in the app:**

Move the dot along this slider to use “onion skinning”.

Move the dot to the **top** to show just the **photo you're currently taking**.

Move the dot to the **bottom** to show just the **last photo you took**.

Move the dot somewhere in the **middle** and you can see **both**!



Use this technique to help you plan your next photo.

Try moving the slider up and down to find what works best for you.

Now you're ready to make a great stop motion movie – good luck, and have fun!