

**SEAN MCMANUS**

Sean McManus is a Code Club volunteer, and wrote the book *Scratch Programming in Easy Steps*. He co-wrote *Raspberry Pi For Dummies*.
sean.co.uk
twitter.com/musicandwords

ADD A TITLE SCREEN TO YOUR SCRATCH GAME

You'll Need

► One of your own Scratch games, or you can use our simple example here

To make a professional-looking game, follow these steps to add a title screen with instructions and a fun animation

A book has a cover, a film has its credits, and an album has its artwork. Only with the right presentation do these things feel professional and complete. In the same way, a great game starts with a title screen that draws players in and provides instructions. It's especially important if you want to share your game, as you won't be there to explain it when it's played. In this article, you'll see how you can add a title screen to a basic game. The same techniques will work for most simple games, so why not try adding a title screen to your own games, too?

Add an animated sprite to your title screen and use 'say' blocks to tell players how it works

Black text on hot pink: a timeless background design!



>STEP-01

Write your game

We recommend you try adding a title screen to our example game Cat Catcher before you add one to your own game. To make Cat Catcher, first bring in the sprite Gravity Marble from the Things folder. It comes with some scripts for controlling it with the cursor keys. Add **Listing 1** to your cat sprite. Together, these two sprites make a game where you're challenged to see how quickly you can catch the cat ten times with the marble. We've added the playing field background.

>STEP-02

Create your title screen background

Create a new background image that you will be using for your game's title screen. Ours is just a bright colour with the game title on it, but you could make something more elaborate if you like. On the background, add the scripts shown in **Listing 2**. They change the background between the title screen and the in-game background, and tell all the sprites to go into 'title screen' mode when the green flag is clicked. Ultimately, this should be the only time you use a **when green flag clicked** script.

>STEP-03

Create your title screen sprite

This is the sprite that will tell the player how to play, and it can be animated, too. For our game, we've brought in another cat sprite. Add **Listing 3** to it. There are three parts to this: one part displays the title animation and instructions; another part starts the game when the sprite is clicked; and a third part hides the sprite when the game begins. You'll need to make a variable called **game status**, which all sprites will use

to tell whether the game is running or the title screen is on. You can add more sprites to your title screen. Include the **when I receive play game** script from Listing 3 to hide them when the game begins. Use a **when I receive title screen** script to show them on the title screen.

>STEP-04

Replace your green flag scripts

Now, you need to go through your game sprites (the game cat and the marble in our example) and change their scripts so they don't start when the green flag is clicked any more. For each sprite and each of its scripts, replace the block **when green flag clicked** with the block **when I receive play game**. Add

“ A great game starts with a title screen that draws players in ”

Listing 4 to your game sprites to make them hide when the title screen is on, and appear when the game begins. If a sprite shouldn't be there at the start of the game, you can leave out the **show** script.

>STEP-05

Replace the forever loops

Some of your in-game sprites might have **forever** loops. These will keep running, even when the title screen is showing and the sprite is hidden. To avoid this causing unwanted results, replace the **forever** block on your in-game sprites with the **forever if** block. Give the block the condition **game status = game** (using your variable **game status** and the **= Operator** block). You might also have events that are triggered, such as when there is a key press. To stop these working on the title screen, wrap an **if** block around the entire script after the **when [space] key pressed** block and give it the condition **game status = game**, too.

>STEP-06

Start a new game

When your game finishes, you can show the title screen again by adding a Control block to broadcast **title screen**. For example, you could add it to the end of Listing 1 in our game. Players can once again start a new game from the title screen. That will keep them in the game and encourage them to keep playing until they've got a score they can brag about! You might need to make some other tweaks for your game (each one is different, after all), but following these steps should enable you to add a title screen to most simple games, to make them look more polished.

LISTING 1

```

when green flag clicked
  reset timer
  repeat (10)
    go to x: (pick random -200 to 200) y: (pick random -150 to 150)
    wait until touching gravity_marble ?
  set time to timer
  go to x: 0 y: 0
  say "It took you for 2 secs"
  say (join time seconds) for 2 secs

```

LISTING 2

```

when I receive play game
  switch to background playing-field

when I receive title screen
  switch to background title screen

when green flag clicked
  set game status to title
  broadcast title screen

```

LISTING 3

```

when I receive title screen
  point in direction 75
  go to x: -90 y: -90
  show
  set size to 350 %
  say "How fast can you catch me ten times?" for 2 secs
  say "Use the cursor keys to move the ball" for 2 secs
  say "Click me to play" for 2 secs
  repeat until not (game status = title)
    turn 15 degrees
    wait 0.15 secs
    turn 15 degrees
    wait 0.15 secs

```

```

when Sprite2 clicked
  set game status to game
  broadcast play game

```

```

when I receive play game
  hide

```

LISTING 4

```

when I receive play game
  show

when I receive title screen
  hide

```