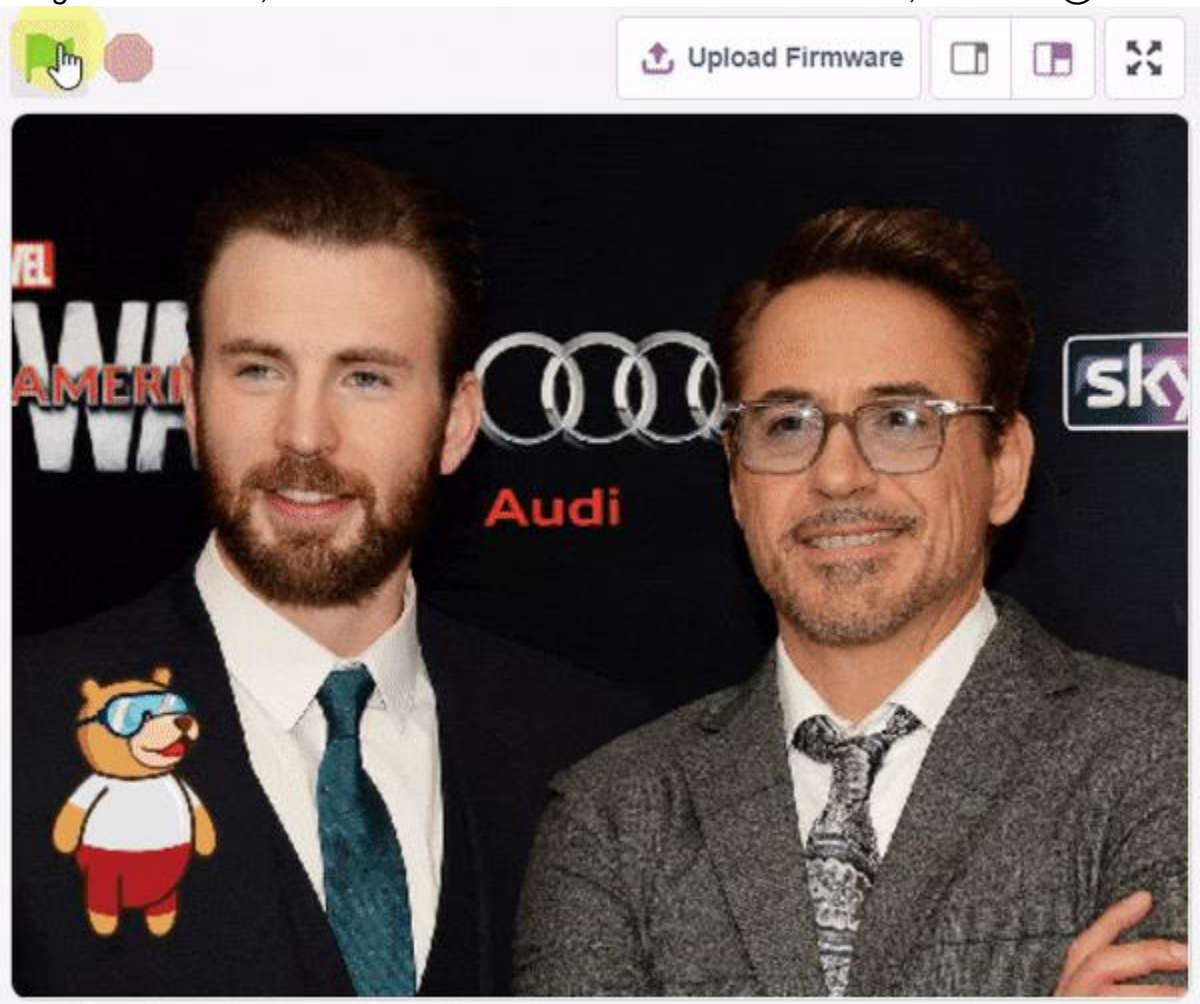
Activity 1: Identifying Celebrities from Images

Introduction

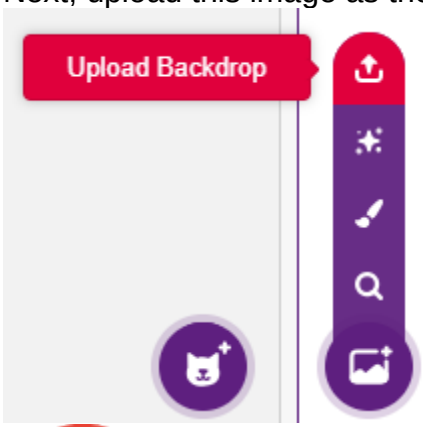
In this topic, we will make a PictoBlox project to identify the celebrities in a particular image. If there are, then Tobi will tell us their names. Smart bear, isn't he? 😉



Setting Up the Stage

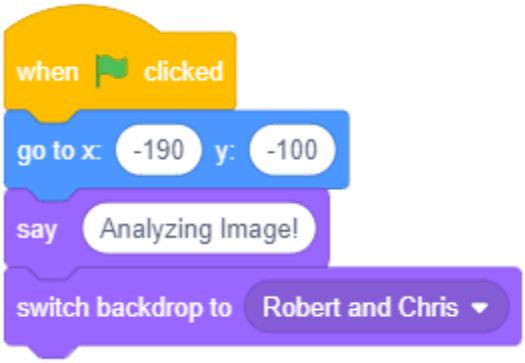
1. 

2. Next, upload this image as the backdrop.

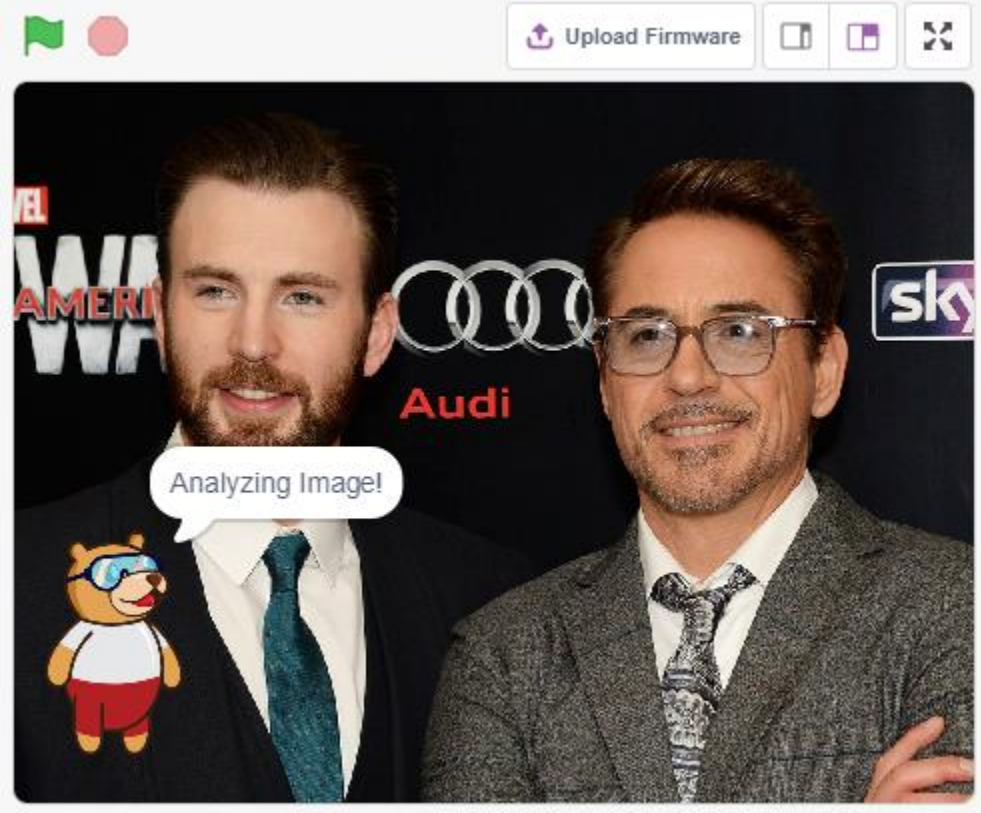


3. 
4. Alert: Make sure that Tobi is selected.
5. Switch to Code tab and drag and drop a when flag clicked block into the scripting area.

6. Add a go-to x () y () block from the *Motion* palette below the when flag clicked block. Change the x position to -190 and y position to -100.
7. Snap a say () block from the *Costume* palette below go to x: () y: () block and write “Analyzing Image!“.
8. Add a switch backdrop to () block below the say () block and change the backdrop to Robert and Chris. The script will look like this:

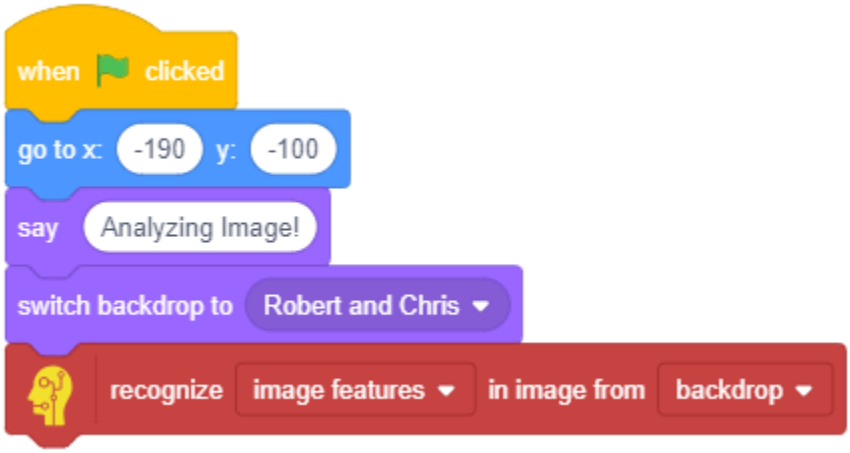


Click the green flag. The stage will look like this:



Reporting the Number of Celebrities

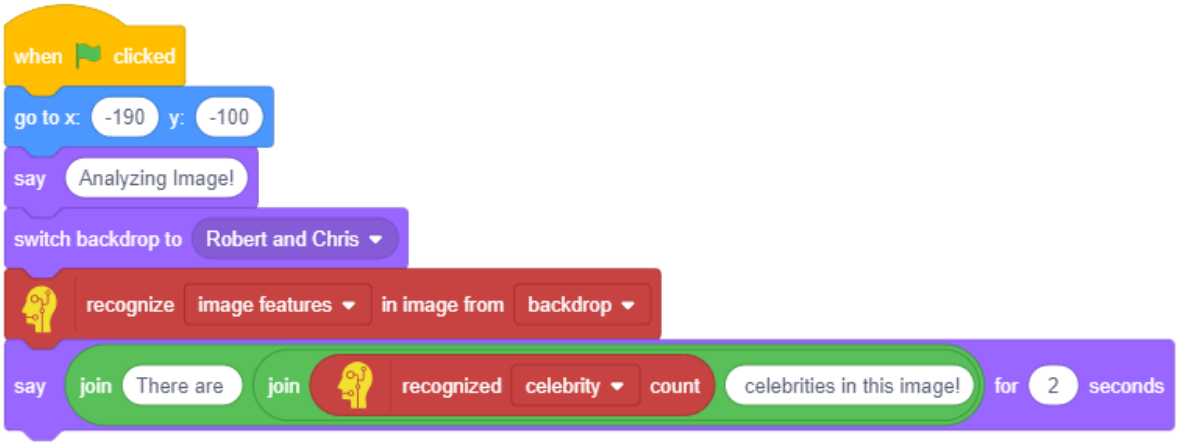
1. Let's continue with the same script. Add a recognize () in the image from () block below the switch costume to () block. Select *image features* from the first drop-down and *backdrop* from the second.



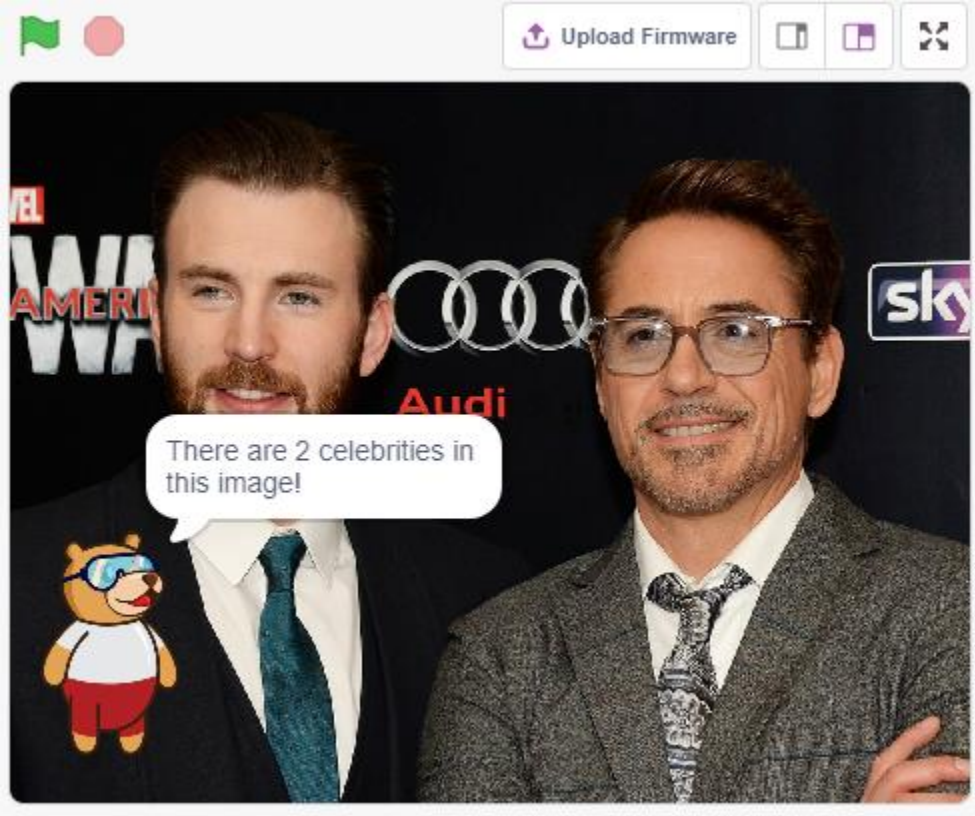
2. Snap a say () for () seconds block below the recognize () in the image from the () block. In its space, add a join () () block from the *Operators* palette.
3. Add another join () () block in the second input of the *first* join () () block. In the first input, write "There are ".

4. Now, in the first input of the *second* join () () block add a recognized () count block and select the recognition as a celebrity. In the second input, write " celebrities in this image! ".

5. Note: Make sure to add a *space* before and after the text in the join () () blocks to ensure proper spacing between words in the sentence.



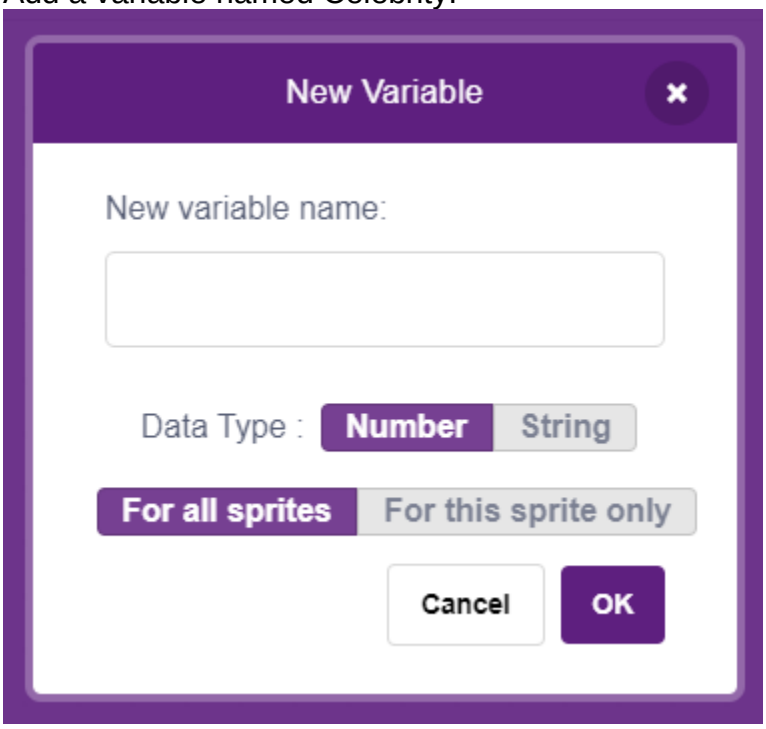
6. Click on the green flag.



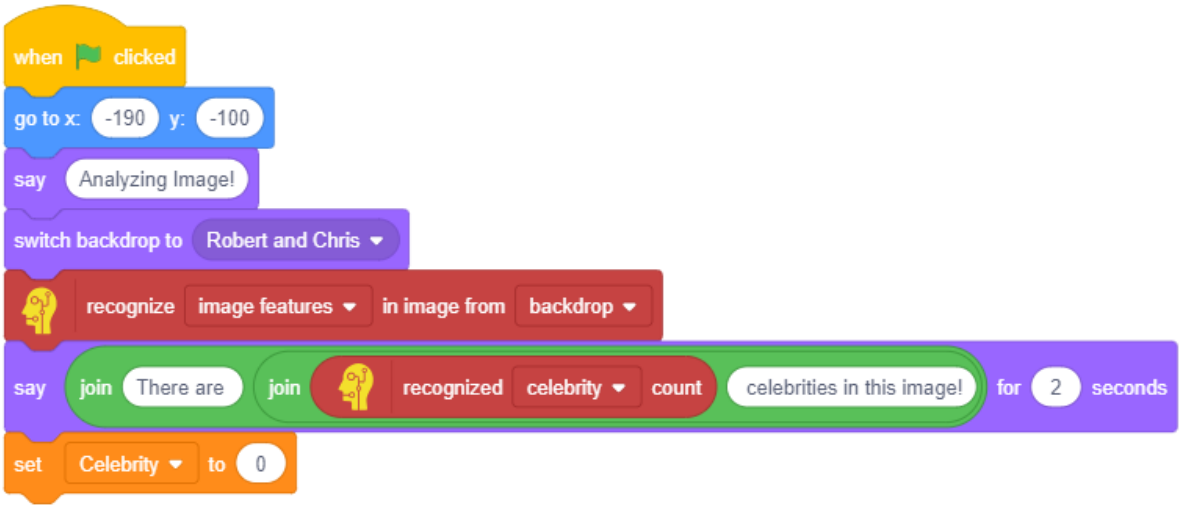
Naming Each Celebrity

We'll use loops and variables to name the celebrities in our image. Follow the steps below:

1. Add a variable named Celebrity.

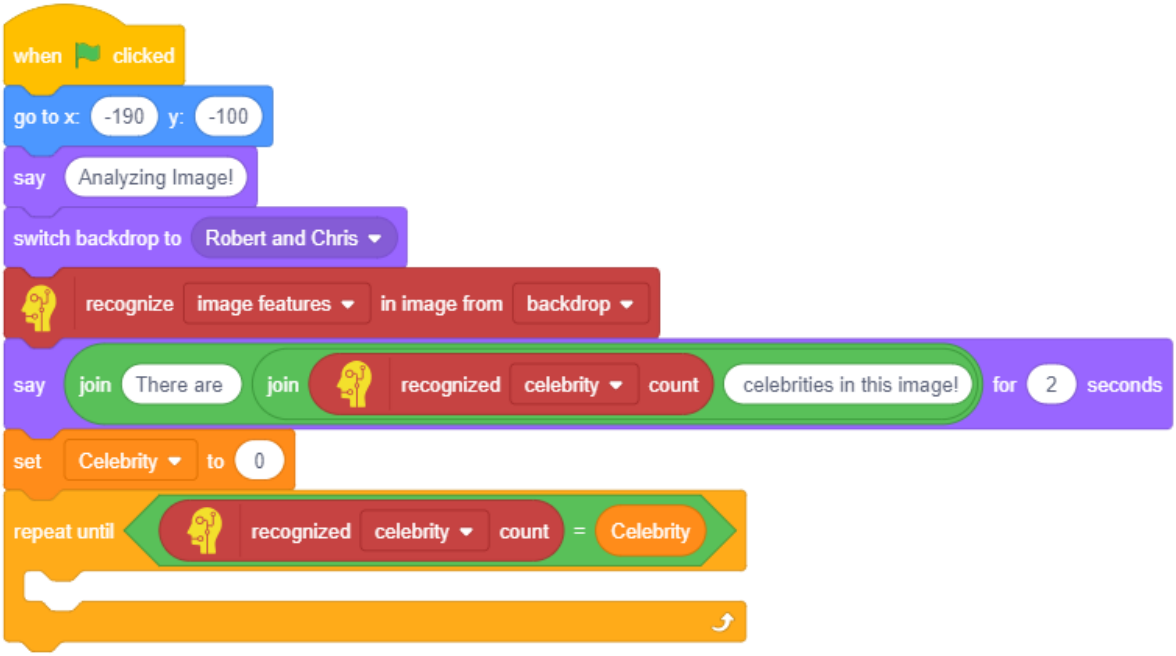


2. Add a set () to () block from the *Variables* palette and change the variable to Celebrity. Set the value as 0.



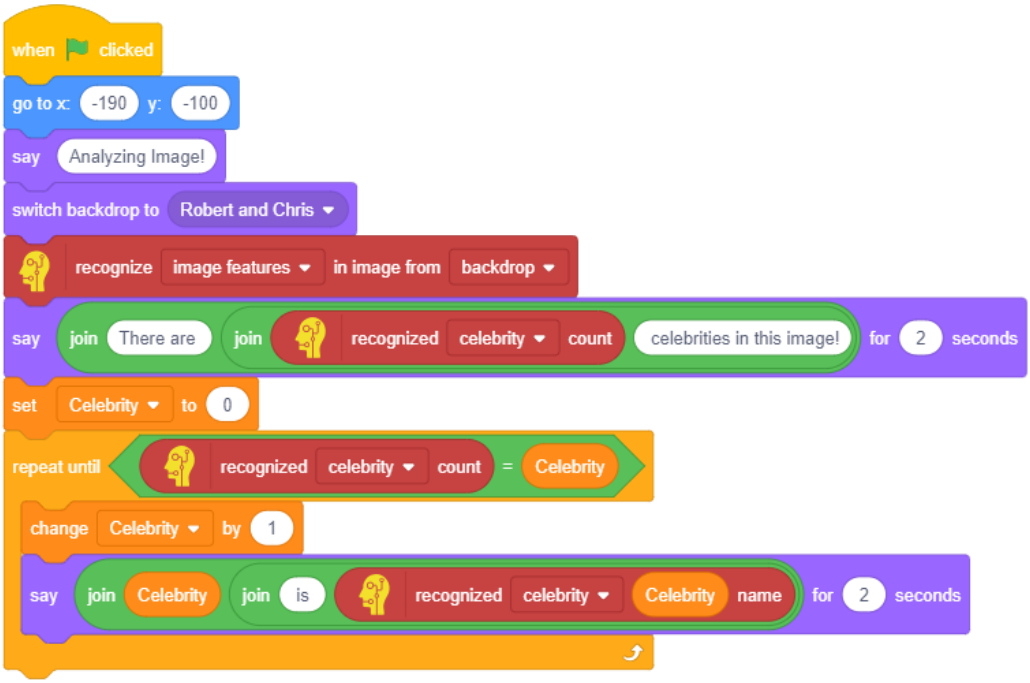
3. Add a repeat until () block below the set () to () block. Add an () = () block from the *Operators* palette in the space for writing the condition.

4. In the first input of the () = () block, add a recognized () count block and in the second add the variable Celebrity.

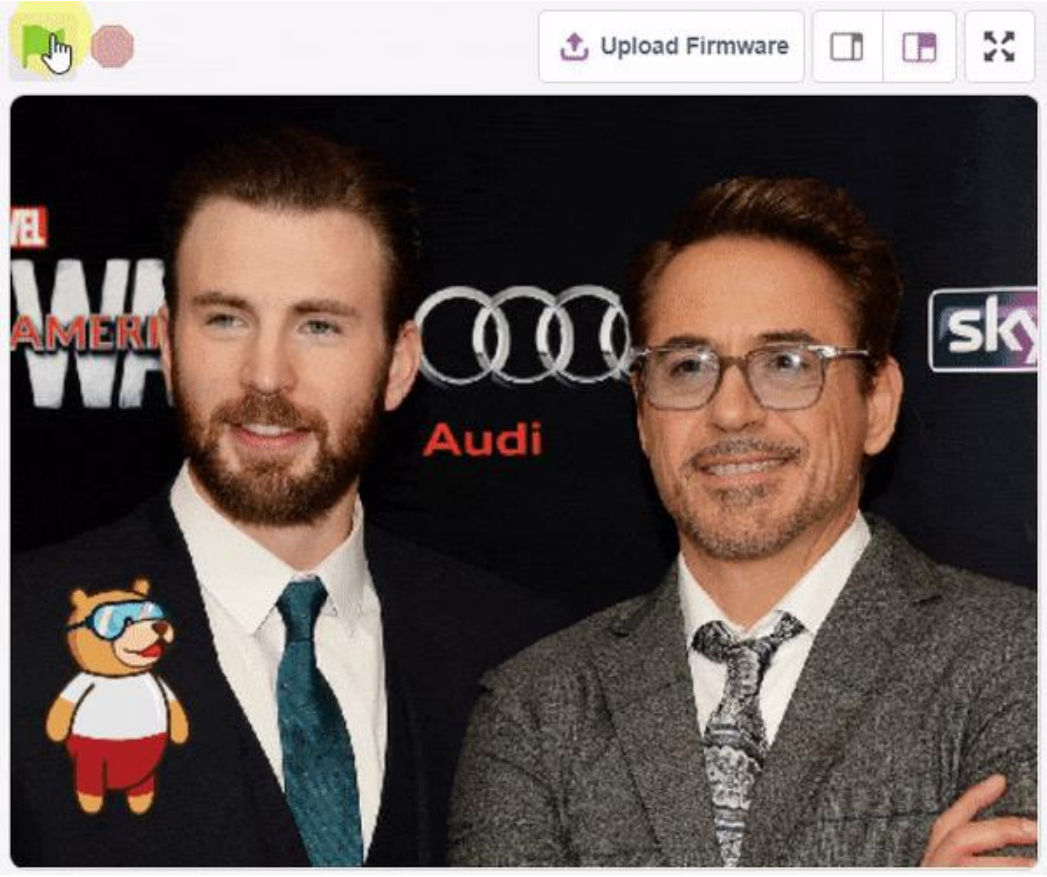


5. Add a change () by () block from the *Variables*palette inside the repeat until () block. Select Celebrity from the drop-down.
6. Snap a say () for () seconds block below the change () by () block.
7. Add two join () () blocks in the input space of the say block as shown. In the first input of the *first* join () () block add the Celebrity variable.
8. In the first input of the *second* join () () block, write " is ". In the second input, add a recognized () () name block.
9. In the number field of the recognized () () name block, drop the Celebrity variable.

Here is the final script:



Click the green flag to run the script.



(END)