

#### 4. [Optional, Hard Challenge] Warhol Effect

Write an algorithm that takes in a square patch like this photo of Simba the Dog:



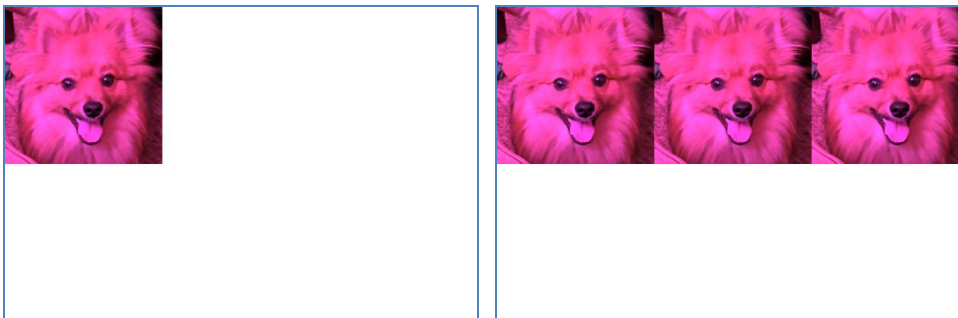
And creates an image which has the patch copied 6 times (in 2 rows and 3 columns) where each patch gets recolored. This effect is inspired by some of Andy Warhol's paintings.



We strongly recommend implementing a function:

```
def make_recolored_patch(red_scale, green_scale, blue_scale):
```

Which returns a new colored patch. See the starter code for details. A few milestones:



Don't try to match the colors in this example exactly. Experiment with different combinations of `red_amount`, `green_amount` and `blue_amount`. The pink Simba was generated by

```
make_recolored_patch(1.5, 0, 1.5)
```

Define other functions too! How about a function which adds a colored patch to the `final_image` at a given row, column?