1. **a\_G and a\_S**

*# Set a\_S to be the hidden layer activation from the layer we have selected, by running the session on out*

*a\_S = sess.run(out)*

*# Set a\_G to be the hidden layer activation from same layer. Here, a\_G references model[layer\_name]*

*# and isn't evaluated yet. Later in the code, we'll assign the image G as the model input, so that*

*# when we run the session, this will be the activations drawn from the appropriate layer, with G as input.*

*a\_G = out*

1. **structure of loaded model**