grade 100%

## Style Transfer

LATEST SUBMISSION GRADE

1 (	00%	
	In Neural Style Transfer when initializing the <i>generated image</i> from the <i>content image</i> which of the following is true Check all that apply.	? 1/1 point
	Your goal for the generated image is to increase the content loss and decrease the style loss, while keeping the overall accumulated loss low.	
	Correct Correct! Since the generated image is initialized from the content image, you want it to inherit attributes fro the style image (reduce style loss), but also not lose all of its attributes inherited from the content image (increase content loss).	m
	Your goal for the generated image is to increase the style loss and decrease the content loss while keeping the overall accumulated loss low.	
	☑ Initially the <i>content loss</i> will be equal or close to zero because both the <i>content image</i> and <i>generated</i> image are same image.	: the
	Correct Correct!	
	initially the style loss will be equal or close to zero because both, the content and generated, images are the sar	ne.
2.	What does tf.keras.applications.vgg19,preprocess_input do?	1/1 point
	The function centers the distribution of pixel values of an image around zero.  The function sets the pixel values of an image between 0 and 1.	
	Correct Correct This is called standardization.	
	From which part of a CNN architecture can you extract the "content" of an image?  (a) From the deeper layers of the architecture.	1/1 point
	The initial layers of the architecture.	
	✓ Correct	
	Correct! If you recall the lecture we used only the deeper layer of the CNN for computing content lossbecau that layer holds the information of the content of an image.	se
l.	Consider the values given in the image below and calculate the <i>content loss</i> value.	1/1 point
	Generated image  5 2 Content image 3 5	
	1 7 5 4	
	19	
	✓ Correct Correct!	
j.	Fill in the missing code below:	1/1 point
	<pre>def get_content_loss(generated_image, content_image     return # YOUR CODE HERE</pre>	):
	tf.reduce_sum(tf.square(content_image - generated_image))	_
	0.5 * tf.reduce_sum(tf.square(generated_image - content_image))	
	✓ Correct Correct!	
	0.5 * tf.reduce_sum(tf.square(content_image - generated_image))	
	Correct Correct! Even though the original formula is generated_image - content_image, since you are squaring the difference it doesn't matter what you subtract out of what.	

tf.reduce\_sum(tf.square(generated\_image - content\_image))

6. Consider the following code snippet. How will you include Total Loss Variation in it? Use TensorFlow as tf.

1/1 point

(Answer in the format, x + y(z), considering python's spacing convention