

Try again once you are ready

TO PASS 80% or higher

Try again

GRADE 75%

Style Transfer

LATEST SUBMISSION GRADE 75%

1.	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.	0.75 / 1 point
	Initially the <i>style loss</i> will be equal or close to zero because both, the <i>content</i> and <i>generated</i> , images are the same.	
	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 the same image.	
	✓ Correct Correct!	
	Your goal for the <i>generated image</i> is to increase the <i>content loss</i> and decrease the <i>style loss</i> , while keeping the overall <i>accumulated loss</i> low.	
	Your goal for the <i>generated image</i> is to increase the <i>style loss</i> and decrease the <i>content loss</i> while keeping the overall <i>accumulated loss</i> low.	
	You didn't select all the correct answers	
2.	What does tf.keras.applications.vgg19.preprocess_input do?	0 / 1 point
	The function sets the pixel values of an image between 0 and 1.	
	The function centers the distribution of pixel values of an image around zero.	
	Incorrect Incorrect! This is called normalizing an image, and <i>preprocess_input</i> does not perform normalization.	
3.	From which part of a CNN architecture can you extract the "content" of an image?	1 / 1 point
	From the deeper layers of the architecture.	
	The initial layers of the architecture.	
	Correct Correct! If you recall the lecture we used only the deeper layer of the CNN for computing <i>content loss</i> because that layer holds the information of the <i>content</i> of an image.	
4.	Consider the values given in the image below and calculate the <i>content loss</i> value.	1/1 point

Generated image

5	2
1	7

Content image

3	5
5	4

5. Fill in the missing code below:

Correct!

0.75 / 1 point

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, ${\bf x}+{\bf y}({\bf z})$, considering python's spacing convention)