Your grade: 100%

Your latest: 100% • Your highest: 100% • To pass you need at least 80%. We keep your highest score.

1. In Neural Style Transfer when initializing the *generated image* from the *content image*, which of the following

Next item →

1/1 point

	is true? Check all that apply.	
	✓ 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.	
	Correct Correct! Since the generated image is initialized from the content image, you want it to inherit attributes from the style image (reduce style loss), but also not lose all of its attributes inherited from the content image (increase content loss).	
	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.	
	☐ 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.	
2.	What does tf.keras.applications.vgg19.preprocess_input do?	1/1 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.	
	○ Correct Correct! This is called standardization.	
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 content loss because that layer holds the information of the content 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 3 5 1 7 5 4	
	19	

5. Fill in the missing code below:

1/1 point

