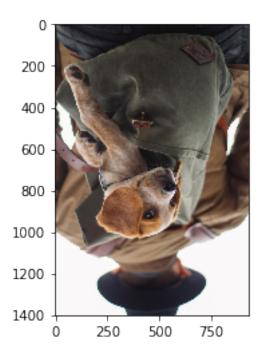
EXERCICIOS

August 28, 2025

1 EXERCICIOS

	1.1 Complete the Tasks in bold below. Keep in mind, you may need to run some of these tasks as Python scripts.
[]:	TASK: Open the dog_backpack.jpg image from the DATA folder and display it in the notebook. Make sure to correct for the RGB order.
	TASK: Print the matrix of pixels out. Then, you should print the dimension of this matrix. Play around with the colours and size.
[]:	TASK: Flip the image upside down and display it in the notebook.
[15]:	TASK: Fip the image upside down and display it in the notebook.
[15]:	<pre><matplotlib.image.axesimage 0x29c79c9ef60="" at=""></matplotlib.image.axesimage></pre>



TASK: Draw an empty RED rectangle around the dogs face and display the image in the notebook.

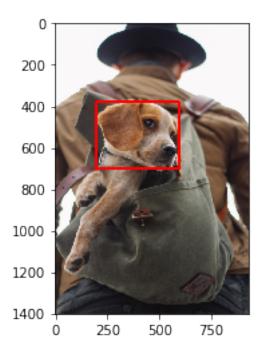
[16]:

[16]: <matplotlib.image.AxesImage at 0x29c79cf8d68>



[17]:

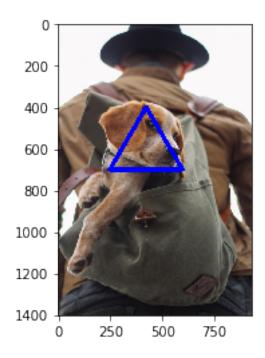
[17]: <matplotlib.image.AxesImage at 0x29c79d48ac8>



TASK: Draw a BLUE TRIANGLE in the middle of the image. The size and angle is up to you, but it should be a triangle (three sides) in any orientation.

[30]:

[30]: <matplotlib.image.AxesImage at 0x29c79f7d780>

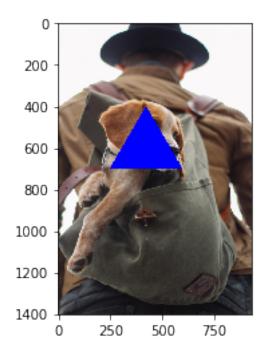


1.1.1 BONUS TASK. Can you figure our how to fill in this triangle? It requires a different function that we didn't show in the lecture! See if you can use google search to find it.

CLICK ME FOR A DIRECT LINK TO THE HINT

[31]:

[31]: <matplotlib.image.AxesImage at 0x29c7be436d8>



TASK: (NOTE: YOU WILL NEED TO RUN THIS AS A SCRIPT). Create a script that opens the picture and allows you to draw empty red circles whever you click the RIGHT MOUSE BUTTON DOWN.

[]: