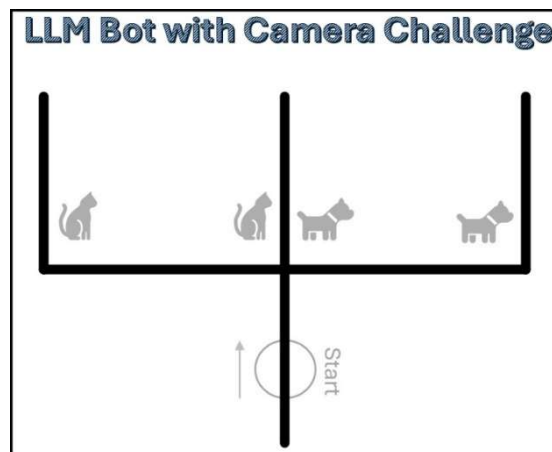


OzoBlockly Editor—**LLM Bot with Camera Challenge**—Student Guide

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People love their pets, with dogs and cats being the most popular worldwide. They provide us with unconditional love, emotional support, companionship, and benefits including reduced stress from petting and better physical health from walking them. Did you know that there is even a national “Love Your Pet Day” on February 20th of each year?

You probably wondering what pets have to do with a challenge involving an LLM Bot that includes a camera! This challenge, in a nutshell, is to design an Ozobot Editor program that will make Ari or Evo respond to pictures of dogs and cats. You will make use of a larger version of the Ozomap shown in the figure below.



Ozobot is initially placed on the gray circle labeled *Start*, facing the direction shown by the arrow. With the LLM Bot connected and the camera turned on, a picture with dogs and/or cats (or neither dogs nor cats!) is displayed so that the camera can see the picture. Several pictures are included with this lesson as a pdf file. Alternatively, you can focus the camera on you and/or your pet. If the camera sees a cat then Ozobot should follow the path shown on the left displaying a red top light. If the camera sees a dog, then Ozobot should follow the path shown on the right displaying a green top light. If the camera sees both a dog and a cat, then Ozobot should move straight ahead displaying a blue top light. If the camera sees neither a cat nor a dog, then Ozobot should display a yellow light and turn around, doing a military-like “about face.”

Depending on your level of knowledge of blocks available in the Ozobot Editor, your teacher may turn you loose on this challenge with the Ozomap and some pictures. Alternatively, your teacher may walk you through a code review of a prepared program solution to the challenge and then have you see how accurately the program responds to the pictures. In either case, you will learn much about LLM (Large Language Model) bots and how AI (artificial intelligence) can be used to enhance learning. Enjoy the journey!