

## Field of View

**Exploration: Hypothesize, test, and determine the field of view of the VEX AIM Coding Robot's AI Vision while detecting a barrel.**



### Set Up to View AI Vision Sensor Data

- Connect the robot to VEXcode AIM ([via USB](#) or [via Tablet](#))
- Choose your method of visualizing AI Vision data. [Watch this video to learn about your options.](#)
- Leave the AI Vision data visible throughout this exploration!

### Explore

1. **Write or draw your hypothesis about the field of view here.** Include details like the size, angle, and shape of the field of view in relation to the sensor. Be specific in your hypothesis!

2. **Find the AI Vision's field of view** by following the steps in the video shared by your teacher.
3. **Use your diagram to determine the angle of the field of view in degrees.**
  - Remove the robot from your field of view diagram.
  - Extend the left and right side lines until they intersect.
  - Measure the angle at the intersection, and record it.

**Angle Measurement:** \_\_\_\_\_

4. **Draw a conclusion based on your data.** How does the field of view you documented compare to your hypothesis? Discuss this conclusion with your group and come to a consensus together.