# Evo Demonstrates Social Distancing

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Grades: **6—12**

Coding Methods: **OzoBlockly**

Subjects: **Social Studies, Computer Science**

Robots: **Evo**

## Brief Summary

With the coronavirus pandemic spreading worldwide, what better way is there to demonstrate social distancing than by using Evo?

Pre-Reader/ESL: **No**

## Required Materials

- 2 Evos per group
- 1 printed copy of the document "Evo Demonstrates Social Distancing.pdf" per student
- 1 printed copy of the Ozomap "Social Distancing Ozomap.pdf" per group

## Lesson Objectives

- Construct a social distancing program for Evo, upload it to Evo, and observe how Evo demonstrates social distancing when the program is run.
- Explain the purpose of the OzoBlockly blocks making up the social distancing program as well as the steps in the algorithm used.

# Preparation

## Background Knowledge

(None)

## Lesson Tips

- Another similar lesson is available on "Adaptive Cruise Control".  It can be found at https://classroom.ozobot.com/lessons/lnKhE0KVJYRKy0zMB8vCGb2AiE

# Direct Instruction (Teacher Facing Instructions):

**Lesson Closure (Optional)**

(None)

# Student Practice (Student Facing Instructions):

1    Read and study the "Introducton" secton of the handout from your teacher.
     **Goals:** Explain what social distancing is, and why it is important to practice during the coronavirus pandemic.
     Explain how a pair of Evo's can be used in an OzoBlockly program to demonstrate social distancing.

2    Construct the "Evo Social Distancing" program in OzoBlockly and load the program into Evo. Construct the
     "Slowpoke" program and load it into another Evo. Then place the two Evos on the Ozomap facing the same directon
     on the circle, run the programs, and observe the social distancing behavior exhibited.
     **Goals:** Explain the purpose of the OzoBlockly blocks making up the social distancing program as well as the steps in
     the algorithm
     used.

# Supplements

## Additional Attachments

- Evo Demonstrates Social Distancing.pdf
- Social Distancing Ozomap.pdf
- Social Distancing.ozocode
- Slowpoke.ozocode
- https://youtu.be/_cqY9_eYg0s

## Academic Standards

- CSTA.3A-AP-13
- CSTA.1B-CS-02
- CSTA.2-AP-19
- CSTA.2-AP-12
- CSTA.3B-CS-02
- CSTA.2-CS-02