Tips, Tutorials, and More Fun Stuff

# Cozmo Guide for Campers

July 2018

# Table of Content

# Great Guides

Cozmo Features

- ❏ A camera with advanced vision system
- ❏ A robotic lifter
- ❏ Independent tank treads
- ❏ Pivotable head
- ❏ An array of LEDs
- ❏ An accelerometer
- ❏ A gyroscope
- ❏ Cliff detection
- ❏ Face recognition
- ❏ Path planning
- ❏ Animation and behavior systems
- ❏ Power cubes, with LEDs, an accelerometer and tap detection

Cozmo SDK

Guide: https://www.kinvert.com/cozmo-examples-tutorials-projects-stem-education-curriculum/
Guide: https://www.kinvert.com/anki-cozmo-sdk-python-programmable-robot-for-kids/
Documentation: http://cozmosdk.anki.com/docs/

Where to Play with Cozmo

Article: https://support.anki.com/hc/en-us/articles/115012406487-COZMO-Where-to-play-with-Cozmo

# HELP!! I Don't Know How to Code!

Python Overview
    Article: https://www.codecademy.com/articles/glossary-python

Coding with Cozmo
    Article: https://ericasadun.com/2016/12/12/programming-cozmo/

# Cool Projects

Guess the Number (Cozmo is psychic!)
>Article: https://developer.anki.com/blog/features/interview/guess-the-number/
>Video: https://www.youtube.com/watch?v=sZKbEgD-cGY

Integrating Twitter (Imagine the social impact Cozmo could make!!)
>Article: https://github.com/anki/cozmo-python-sdk/blob/master/docs/source/tutorial-advanced.rst

Integrating TensorFlow (Cozmo can identify more than just cubes!!!)
>Article: https://blog.floydhub.com/teaching-my-robot-with-tensorflow/

# Awesome Videos

My Youtube Playlist of Funny / Cool / Entertaining Cozmo Videos
>Channel: https://www.youtube.com/playlist?list=PLmu7nk26R68hDym4b2qoMjbnn7rDhXxU7

Life With Cozmo Youtube Playlist
>Channel: https://www.youtube.com/channel/UC7r_Rty9HwHdUfq869Ss_tQ

# Coding Cozmo in SDK Mode (Yay PyCharm!!!)

On Computer:

1) From the Start Window (bottom left-hand corner), type in "Command Prompt" and open.
   a) Type "pip3 install --user cozmo[screen]" and press "Enter"
   b) Type "python -m pip install --upgrade pip" and press "Enter"
2) From the Start Window (bottom left-hand corner), type in "PyCharm" and open.
   a) Select "File"
   b) Select "Open"
      i) Using the drop-down folders, find and open the following:
         (1) "Users"
         (2) "iD Student"
         (3) "Documents"
         (4) "cozmo_sdk_examples_1.2.1"
         (5) "tutorials"
         (6) "01_basics"

On Tablet:

3) Open "Settings"
   a) Open "Device Settings"
   b) Open "Developer Options"
      i) IF developer options is not available, click on the serial number 7 times and it will appear.
   c) Select "Enable ADB"
      i) The setting should be set to green if ADB is enabled!
      ii) IF a pop-up comes up asking "Allow ADB", select "Always remember this computer" and then "OK".

On Cozmo App:

4) Open "Settings"
   a) Select "Enable SDK"
   b) IF a pop-up comes up asking "Allow ADB", select "Always remember this computer" and then "OK".

Troubleshooting:

1) In Pycharm, go to "File"
2) Open "Settings"
3) Select the project you are trying to run
4) Open "Project Interpreter"
5) Select "Python 3.6"
6) Ensure "cozmo" and "cozmoclad" are installed!


1) In the tablet settings, ensure "Enable ADB" is selected, and if prompted to allow debugging from this computer, select "YES".