What is Snap4Arduino? http://snap4arduino.rocks/
Software based on *Snap!* that allows you to interact with an Arduino board.

Materials Needed or Included
- Snap4Arduino software installed on your computer. Works on Windows, Linux, MacOSX, and Chromebooks.
- Arduino Board, works on most devices.
- USB Cable

Price: Sofware: Free http://snap4arduino.rocks/
Arduino Board: $20 - $100 https://store.arduino.cc/usa/arduino
Note: Prices vary based on accessories and board.

Why You'd Want To Use It
- Snap4Arduino removes the text based programming barrier by allowing block based programming(Snap!) to work with an Arduino board.
- Provides a great way to practice programming and learn about robotics.

Complications
- Snap4Arduino documentation is not up to date. May have trouble finding tutorials or code to use.
- Snap4Arduino may appear as a white screen on Mac or Chromebook may fail. Solutions to these problems are solved here.
- Not many default blocks and blocks are very vague.
- Arduino components can be very fragile.

Activities or Examples
- Gives an introduction to Snap4Arduino with a project that uses an Arduino board to connect to a joystick. This project can be added on to create games with a joystick as its controller. https://www.youtube.com/watch?v=POfrSQInUNl
- Provides software and tutorial on how to use the ultrasound sensor using *Snap!* Can be added to create some interesting create tasks. http://blog.s4a.cat/2015/03/31/Ultrasound-Library-for-Snap4Arduino.html

- Introduction to using LCD with Arduino. A great starter point to using LCD screens in a project using *Snap!*
  http://blog.s4a.cat/2015/03/24/LCD-Library-for-Snap4Arduino.html

Still not Convinced? (Reviews / Articles)
- https://oomlout.co.uk/blogs/news/88701697-drag-and-drop-coding-with-snap4arduino-1-1-beta
- http://derbymakers.co.uk/articles/2015/initial-experiences-with-snap4arduino/

Additional Resources
- Official blog of Snap4Arduino that features many projects, updates and more.
  http://blog.s4a.cat/
- Official Arduino website to learn more. https://www.arduino.cc/
- Playlist of videos showcasing Snap4Arduino
  https://www.youtube.com/playlist?list=PL5OeDsbY1ElLa5FvQoejTFddsVZpp8Nah
- **Seven year** old girl giving a presentation on Snap4Arduino
  https://www.youtube.com/watch?v=l9bRg3reTzc
- Source code on Github https://github.com/bromagosa/Snap4Arduino
- Snap4Arduino wiki, features tutorials, troubleshooting and more.
  https://github.com/bromagosa/Snap4Arduino/wiki