DIY - Smart Light Switch with Sound Control - Arduino

By Noah Grennan

1. What you need:

| tools | Arduino Mega |
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| Arduino IDE Software | Download Arduino Software 🡪 Use My GitHub or servo |
| Deep learners | Arduino IDE Examples |
| Hardware | Ardunio(Mega 2560 or Uno) with Sound Sensor Module  Servo motor + LED  Breadboard, resistors, power supply |
| Sample offline data | Google Docs 🡪 Smart Light Switch with Sound Control |

1. Install Arduino libraries:

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| If you have an Ardunio, make sure you install the Servo from libraries so we can use that module. |

1. Retrain Your Model:

| Arduino Mega 2560 | Connect your Arduino to your computer -> Open Arduino IDE -> Go to Tools on to -> Down at board select your board and/or processor. |
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1. Connect & configure Sound sensor and Servo:

| The sound sensor digital pin  turns the light on and off with a clap  LED set to low or High  if statement to check if the light is on or off  allows the servo to run simultaneously | *Install #include <Servo.h>*  *Make sure you have #include*  *Servo.write(0) <- starts at*  *Define where starts and stops should be*  *Else Servo.write(180) <- ends at* |
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Code for this project by Noah Grennan: [*https://github.com/NoahGrennan/Project-Demo*](https://github.com/NoahGrennan/Project-Demo)