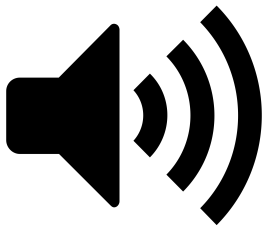
# User coding manual

| ***Addons*** | ***Description*** | ***Picture*** | ***How to code*** |
|---|---|---|---|
| LED | A light source that can be used for visual representation | | [led id status]<br><br>Turn a light on, off, or flashing.<br><br>Id = 1 or 2<br>1 = green, 2 = red<br><br>Status = on/off/flashing<br><br>Example: [led 1 flashing] |
| Distance | A sensor that detects how far an object is from the sensor | | [distance range timeout]<br><br>Blocks program until an object is detected within the range or timeout.<br><br>Range = An integer in cm<br><br>Timeout = An integer in seconds<br><br>Example: [distance 15 10] |
| Button | An on off push button | | [button timeout]<br><br>Blocks the program until the button is pressed or timeout<br><br>Timeout = An integer in seconds |

| | | | |
|---|---|---|---|
| | | | Example: [button 5] |
| Audio | Play an audio file |  | [audio path]<br><br>Plays the audio file using the path<br><br>Path = path for the audio file<br><br>Example: [audio example.mp3] |

**GUI link**

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**How to access the GUI**
Go to the link above!

**What can I program**
You can program the introduction and the Q&A

**How to program**
You write your introduction in the introduction section of the GUI and write you question and answers in the Q&A section

**How to save**
Press the save button on the GUI

**How to load**
Press the load button on the GUI and choose what file you want to load

**How deploy to the presenter**
You load the program you want to run and press the use button on the GUI. Then power on the Raspberry-pi

**Example code.**

INTRO:

[distance 10 15] Hi I am an AI presenter. I can present anything depending on what the user wants me to write.You can add addons. The add on includes a button,  a distance sensor and LEDs. Let's try it! First press the button. [button 5]. Now wave in front of the distance sensor. [distance 10 15]. Now I am going to make a light show. [led 1 on] Do you see the LED? [led 1 off] [led 2 flashing] [led 1 flashing] Isn't the l ight show cool?

**Q&A and Keywords:**

Q: Who created you?  A:Justin created me! K: created
Q: Are you an AI robot? A: No I am a living human K: AI, robot
Q: How can I code you to present a topic? A: Go to my website. K: code, present topic
Q: How are you different from others? A: I am programmable and I create a hands on presentation at a low price. K: different from others, competitor
Q: What are add ons? A: Add ons are features that can interact with your audience. K: Add ons, LED, Button, Distance sensor.

**GUI**
Link:TBD

# Intro

Hello [distance 50 10]I made a cool presenter robot that helps present ideas to people. [led 1 flashing][led 2 flashing]It uses add-ons like LEDs, buttons, distance sensors, microphones, and speakers to interact with the audience. [led 1 on][led 2 off]The robot can detect and engage with the audience, say introductions, and talk to them. [led 2 off]

I started with a basic version of the robot that only read scripts. But I wanted to make it more interactive, so I added a question and answer system, as well as AI engines like Wolfram Alpha and ChatGPT. I also developed a simple programming language that makes it easy to create powerful

# Question and Answer Pair

| | | |
|---|---|---|
| What is the importance of ha | The length is 5 inches and th | hands-on models, science le |
| Who can benefit from using a | Users such as teachers can | easy programmable presenta |
| What can you create with ad | answer_3 | keyword_3 |

Add Q & A

Save

Playmusic [distance] Welcome to jing jing and ding ding's home. What is your name? [microphone name] Hi [name]. American goldfinches….  This one is a male [light 1 on] this one is a female. [light 1 off] [light 2 on]