





Building a Custom Alexa Skill using Raspberry Pi for Voice TV Control

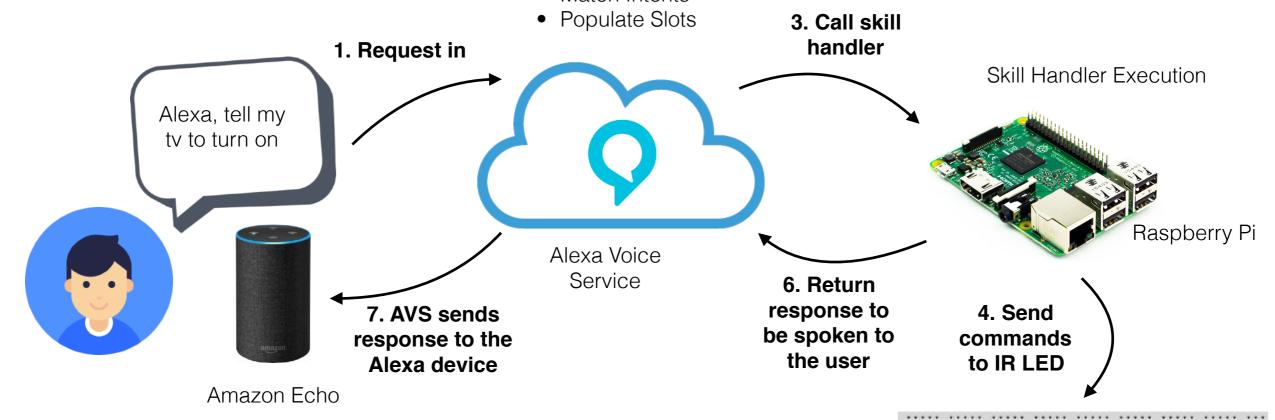


Control any TV using your voice and Alexa

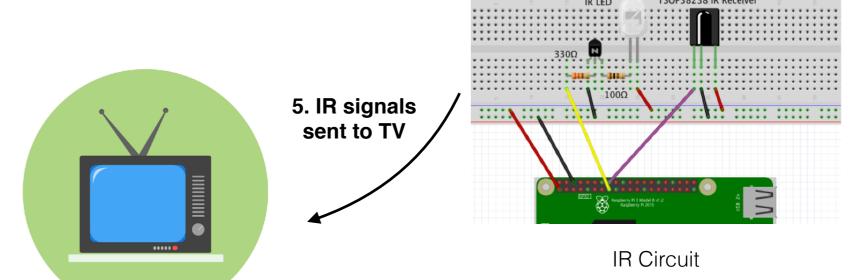
Project Overview

2. Match incoming request to an intent

- Natural Language Processing
- Speech to Text Conversion
- Match Intents



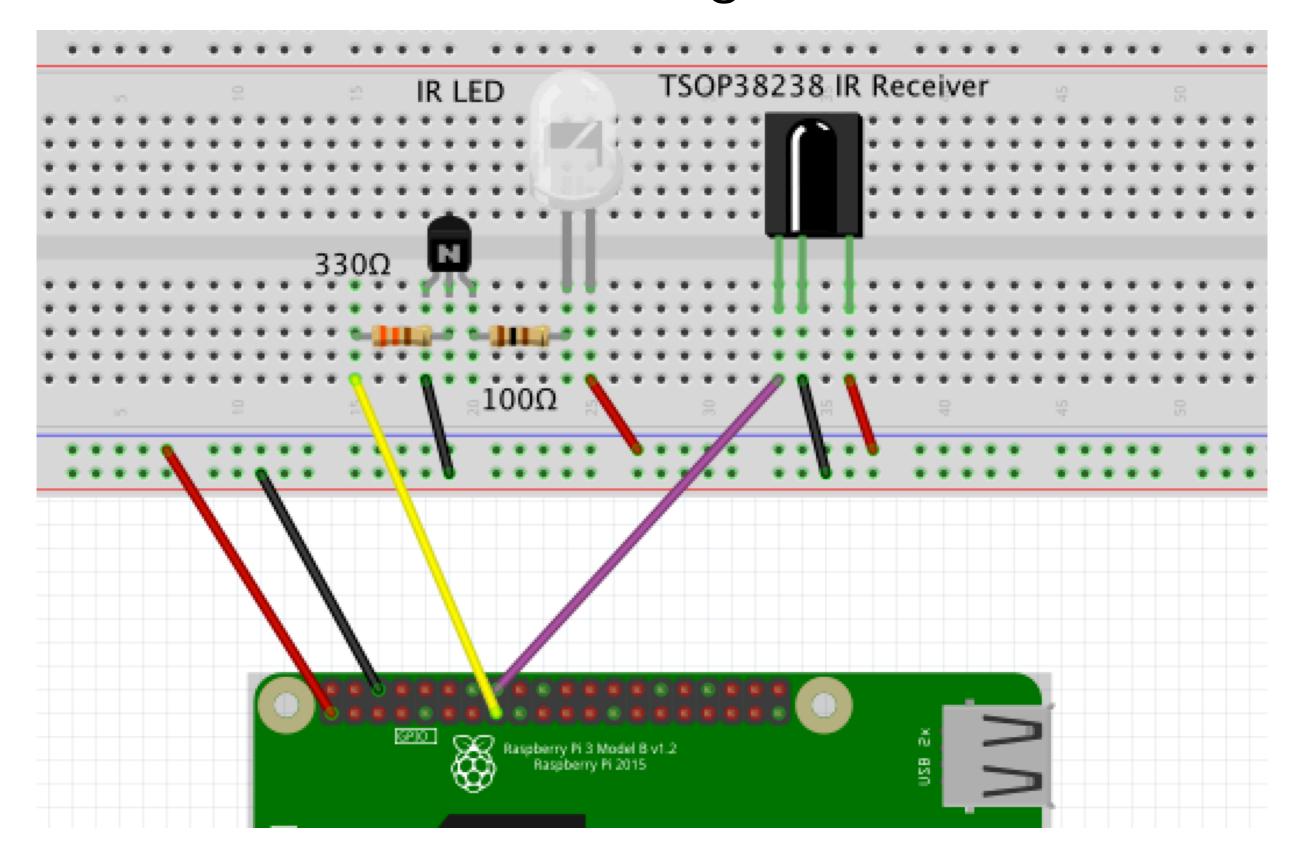
TV



Parts needed

- Raspberry Pi 3
 - DC Power Adapter
 - Micro SD Card
 - HDMI Cable and Monitor [Optional]
 - Keyboard / Mouse [Optional]
- IR Circuit Components
 - 330 Ω resistor
 - 100 Ω resistor
 - IR LED
 - TSOP38238 IR Receiver
 - NPN Transistor
 - Breadboard
 - Connecting wires
- Amazon Echo Device (optional)
- Any TV with that works with an IR remote

Circuit Diagram



Circuit Connections

NPN Transistor

Pin	Connection
Base	Resistor to GPIO22
Collector	Resistor to Cathode IR LED
Emitter	GND

IR Receiver

Pin	Connection
Vs	3.3V
GND	GND
OUT	GPIO23

Raspberry Pi

Pin#	GPIO#	Connection
1	3.3V	Power Rail
6	GND	Ground Rail
15	GPIO22	Resistor to NPN Base
16	GPIO23	OUT IR Receiver

IR LED

Pin	Connection
Anode	3.3V
Cathode	Resistor to NPN Collector