

It records a spoken request from the I2S microphones, send it to the Google Assistant API and plays back Assistant's spoken response on the speaker connected to the I2S DAC.

Pre-requisites

- Android Studio 2.2+
- Raspberry Pi 3
- Assembled AIY Projects Voice Kit
- Android Things Raspberry Pi Dev Preview 3.1 image with I2S enabled.
 - mount the sdcard image

```
# replace sdb1 with the sdcard reader device.
mount /dev/sdb1 /mnt/disk
```

o edit config.txt

```
# comment or remove this line:
# dtoverlay=pwm-2chan-with-clk,pin=18,func=2,pin2=13,func2=4
# uncomment or add this line:
dtoverlay=generic-i2s
```

1 of 3 2017年05月05日 14:04

o umount the sdcard image

```
sync
umount /mnt/disk
```

- Google API Console Project with Google Assistant API enabled.
- OAuth client ID with application type Other
- Google Account with the following activity controls enabled
 - Web & App Activity
 - Location History
 - Device Information
 - Voice & Audio Activity

Run the sample

- Get the client_secret_NNNN.json OAuth client ID JSON file for the application from Google Developer Console credentials section
- Using the oauth21 command line tool generate a REFRESH_TOKEN

```
oauth2l --json client_secret_NNNN.json token \
   https://www.googleapis.com/auth/assistant-sdk-prototype
```

- Edit Credentials.java:
 - From the client_secret_NNNN.json file copy:
 - CLIENT_ID
 - CLIENT_SECRET
 - From the oauth21 token command line tool output copy:
 - REFRESH_TOKEN
- On Android Studio, click on the "Run" button or on the command line, type:

```
./gradlew installDebug adb shell am start com.example.androidthings.assistant/.AssistantActivity
```

- Press the button: recording starts.
- Ask a question in the microphone.
- Release the button: recording stops.
- The Google Assistant answer should playback on the speaker.

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2 of 3 2017年05月05日 14:04

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3 of 3 2017年05月05日 14:04