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1. Python scripts

1.1. Overview

Several tasks around Willy are done through Python scripts. In this chapter the scripts with their purposes are shown. The Python scripts are self-documented.

1.2. Scripts

Table 1. Scripts for Willy

Name	Location	Purpose	Remarks
Willy_Speech_Regocnition_0.py	Willy	Fetch speech from microphone. If text is “hallo willy” put topic /interaction/is_active on 1. Publish recognized on topic /interaction/clear_text	Uses packages rospy, Speechrecognition and subprocess. Uses Google speech recognition
Skylab_topic_listen_0.py	Skylab	Receive many topics from ROS environment and store them in several tables in Postgres	Uses packages rospy, pandas, datetime, configparser, sqlalchemy, psycopg2. Retrieves Postgres password from willy.ini. Postgres server on 10.10.1.34
Skylab_app_get_status_0.py	Skylab	Fetch every 10 seconds the location that was called by a user from the App site	Coop with Radeffect
Skylab_app_post_status_0.py	Skylab	Post status from Willy activity topic and classroom location to App website every 10 seconds	Coop with Radeffect