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Documentation Status

Package Links

- Code API (http://docs.ros.org/indigo/api/pocketsphinx/html)
- FAQ (http://answers.ros.org/questions/scope:all/sort:activitydesc/tags:pocketsphinx/page:1/)
- Changelog (http://docs.ros.org/indigo/changelogs/pocketsphinx/changelog.html)
- Change List (/pocketsphinx/ChangeList)
- Reviews (/pocketsphinx/Reviews)

Dependencies (5)

Jenkins jobs (9)

Package Summary

✓ Released
✓ Continuous Integration
✓ Documented

This package is a simple wrapper around the pocketsphinx speech recognizer, using gstreamer and a Python-based interface.

- · Maintainer status: maintained
- Maintainer: Michael Ferguson <mike AT vanadiumlabs DOT com>
- · Author: Michael Ferguson
- · License: BSD
- Source: git https://github.com/mikeferguson/pocketsphinx.git (https://github.com/mikeferguson/pocketsphinx) (branch: indigo-devel)

Contents

- 1. Overview
- 2. Installing
 - 1. Ubuntu Users
 - 2. Non-Ubuntu Users
- 3. Nodes
 - 1. recognizer.py
 - 1. Published Topics
 - 2. Services
 - 3. Parameters

1. Overview

This package provides access to the • CMU Pocket Sphinx (http://cmusphinx.sourceforge.net/) speech recognizer. It uses gstreamer to automatically split the incoming audio into utterances to be recognized, and offers services to start and stop recognition.

Currently, the recognizer requires a language model and dictionary file. These can be automatically built from a corpus of sentances using the Online Sphinx Knowledge Base Tool (http://www.speech.cs.cmu.edu/tools/Imtool.html). Example launch files, language models, and dictionary files can be found in the demo directory of the package. The voice_cmd example controls a mobile base using commands such as "move forward" or "stop". The robocup example uses some of the standard items and names from the RoboCup (/RoboCup)@Home contest, for instance, it should recognize "hello, my name is Michael" or "Bring me the Original Pringles".

2. Installing

2.1 Ubuntu Users

sudo apt-get install ros-indigo-pocketsphinx

2.2 Non-Ubuntu Users

There is nothing to build, however, to install pocketsphinx itself we will need to run rosdep. In a directory under your ROS package path, do the following:

```
git clone https://github.com/mikeferguson/pocketsphinx
sudo apt-get install gstreamer0.10-pocketsphinx
```

3. Nodes

3.1 recognizer.py

Interface to pocket sphinx.

3.1.1 Published Topics

~output (std_msgs/String (http://docs.ros.org/api/std_msgs/html/msg/String.html)) Complete utterance as heard by pocket sphinx.

3.1.2 Services

- ~start (std_srvs/Empty (http://docs.ros.org/api/std_srvs/html/srv/Empty.html))
 Connect the audio stream to the speech recognizer and start listening.
- ~stop (std_srvs/Empty (http://docs.ros.org/api/std_srvs/html/srv/Empty.html))
 Disconnect audio stream from speech recognizer.

3.1.3 Parameters

~lm (str, default: required)

Location of language model file.

~dict (str, default: required)

Location of dictionary file.

Except where otherwise

noted, the ROS wiki is

Wiki: pocketsphinx (last edited 2016-03-06 09:11:29 by AustinHendrix (/AustinHendrix))

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