

# simon

speech model basically consists of two parts:

- Language model: Describes all existing words and what sentences are grammatically correct. It will be created from your active scenario
- Acoustic model: Describes how words sound. It will be either built solely through your voice recordings (training) or with the help of a base model

SPHINX backend“ uses:

- PocketSphinx recognizer
- SphinxTrain model generation backend

models:

- US English HUB4 WSJ SPHINX model. This model is part of pocketsphinx-extra where it is called `\"hub4_wsj_sc_3s_8k.cd_semi_5000\"`.

## install

```
sudo apt install simon
```

```
sudo apt install libsphinxbase3 python-sphinxbase sphinxbase-utils  
pocketsphinx sphinxtrain
```

edit

[/usr/lib/sphinxtrain/etc/sphinx\\_train.cfg](/usr/lib/sphinxtrain/etc/sphinx_train.cfg)

```
$CFG_CD_TRAIN = 'no';
```

## model

For small amount of data for training without context-dependent models use continuous model instead of semi-continuous one and this error will be solved.

This warning is caused by the fact you disabled context-dependent training and used semi-continuous model. You can ignore this error until you have more data and use context-dependent training.

training

```
mkdir /tmp/test  
cd /tmp/test
```

```
sphinxtrain -t test setup
```

now we have

```
.
├── etc
│   ├── feat.params
│   ├── sphinx_train.cfg
│   ├── test.dic
│   └── test.filler
```

adjust sphinx\_train.cfg TODO

From:

<https://wiki.csgalileo.org/> - Galileo Labs

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<https://wiki.csgalileo.org/tips/speech/simon?rev=1488798708>

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