To set up the sr_data, use this code. Warning - it will delete the data in sr_data

setup

The speech recognition data is stored in this .mat file. The randomized condition order is also stored in this file.

sr_data

This graph is a little busy but it nicely displays how sr_data is arranged

sr_data is in the center. It is left most part of the structure. From sr_data you have a choice of:

- *unprocessed* - the stimuli, talker, and response for the unprocessed condition
- *hilbert* - the stimuli, talker, and response for the hilbert condition
- *coherent* - the stimuli, talker, and response for the coherent condition
- *order* - the processing/condition order for each subject
- *done* - which processing/conditions have been completed for each subject

From then on the choices are specific to each variable.

unprocessed, hilbert, coherent

each variable can be accessed as:

variable_name(blockID,trialD,subjectID).

for example: *sr_data.hilbert.stimuli.oct25.LPhalf(1,:,1)* gives the stimuli used for each trial in block 1 for subject 1.

notice that the low pass variables are missing from the oct5 and oct1 processing conditions for the hilbert condition. They are in the sr_data but were removed from the graph to save space. This is also true for the talker and response conditions of the coherent data.

oct25 = 1/4 octave filter bandwidths
oct5 = 1/2 octave filter bandwidths
oct1 = 1 octave filter bandwidths

LPhalf = 1/2 Hz low pass filter
LP1 = 1 Hz low pass filter
...LPinf = infinity Hz low pass filter

The responses and stimuli are coded as

1 = th	2 = b	3 = d	4 = f
5 = g	6 = k	7 = m	8 = n
9 = p	10 = s	11 = sh	12 = t
13 = TH	14 = v	15 = z	16 = zh

talker gives the talker that was used for each stimuli presentation and is coded as

```
1 = Ah    2 = Ct    3 = Lf    4 = Sy
```

done(orderID,setID,subjectID)

indicates whether each condition shown in sr_data.order has been completed. 0 indicates the condition has not been completed, 1 indicates it was completed. for example: sr_data.done(3,2,4) indicates if the processing condition for the third condition, 2nd set, and subject 4 was completed.

order(orderID,setID,subjectID)

gives the condition order for each subject. Each subject went through a random presentation of the 13 different conditions twice. for example: sr_data.done(3,2,4) gives the processing condition for the third condition that was presented in the 2nd set for subject 4.