

# CFS, 2AFC, Short Study Lists

*pss*

*February 10, 2016*

summary of results for cfs study

Version: presentation in lists of 16. Items studied x3 times Note that second/third presentation was in the same order as first presentations all items studied for total of .5 seconds (including ramping up and down)

```
cutoff = 3 # only look at CFS with PAS 2 or 1
nPresent = 3 # presented 3 times
nStudy = nTrials * nPresent
```

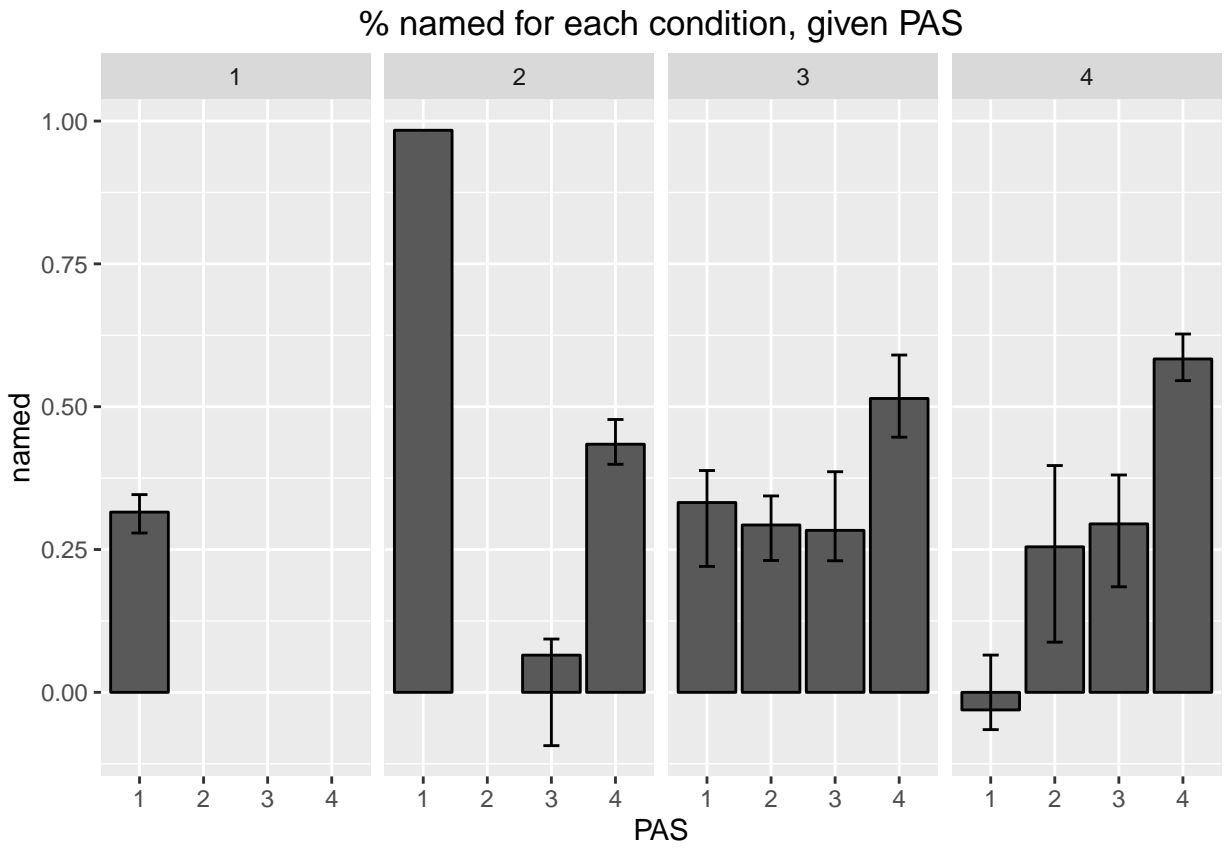
The following is a graph of the proportion of times that an item was named, conditioned on a given PAS response.

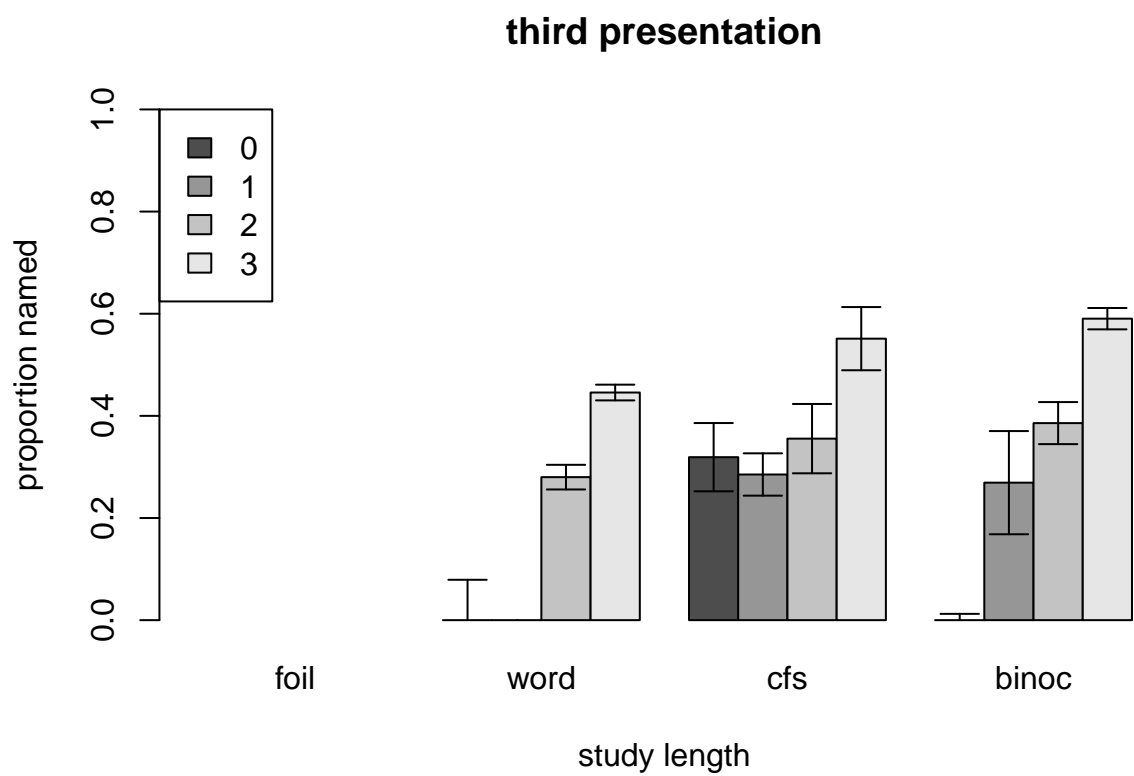
Note that error bars are weird because they're just simple SEMs. Currently unclear about the best ways to make error bars for variables bounded between 1 and 0.

Additionally, it is somewhat misleading to include error bars across a within-subjects factor. They could be higher than depicted, and do not accurately reflect whatever statistics will eventually be performed.

dfwc

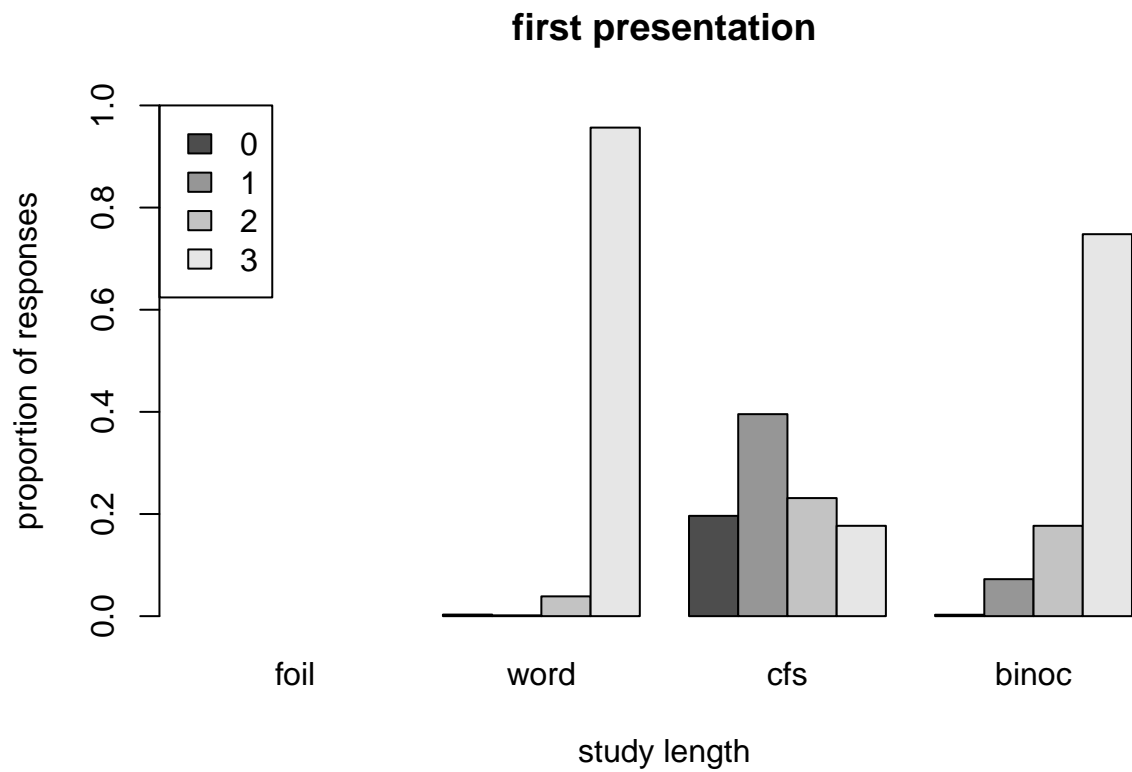
##	condition	studyResp3	N	named	named_norm	sd	se
## 1	1	1	768	0.3125000	0.31551367	0.47452672	0.01712301
## 2	2	1	1	1.0000000	0.98388518	NA	NA
## 3	2	3	3	0.0000000	0.06511450	0.03755326	0.02168138
## 4	2	4	641	0.4383775	0.43433866	0.50581482	0.01997848
## 5	3	1	115	0.3043478	0.33227269	0.45440086	0.04237310
## 6	3	2	268	0.2873134	0.29296892	0.46947787	0.02867793
## 7	3	3	146	0.3082192	0.28357830	0.47640709	0.03942773
## 8	3	4	189	0.5185185	0.51440693	0.50123398	0.03645941
## 9	4	1	3	0.0000000	-0.03080479	0.02627822	0.01517174
## 10	4	2	33	0.2424242	0.25471428	0.43596585	0.07589191
## 11	4	3	92	0.2826087	0.29487569	0.47260838	0.04927283
## 12	4	4	590	0.5864407	0.58356118	0.50437182	0.02076466
##	ci						
## 1	0.03361352						
## 2	NA						
## 3	0.09328746						
## 4	0.03923130						
## 5	0.08394078						
## 6	0.05646364						
## 7	0.07792732						
## 8	0.07192211						
## 9	0.06527871						
## 10	0.15458677						
## 11	0.09787442						
## 12	0.04078179						





!!

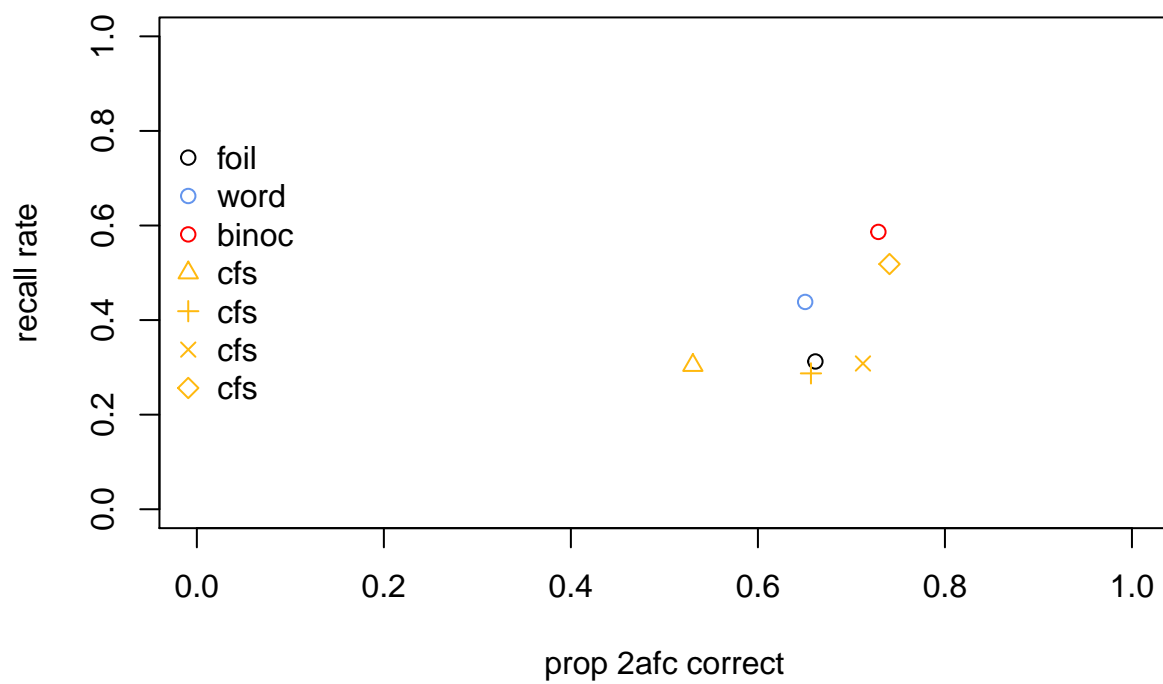
Next up is a plot of the proportion of times that an item was given a particular PAS rating



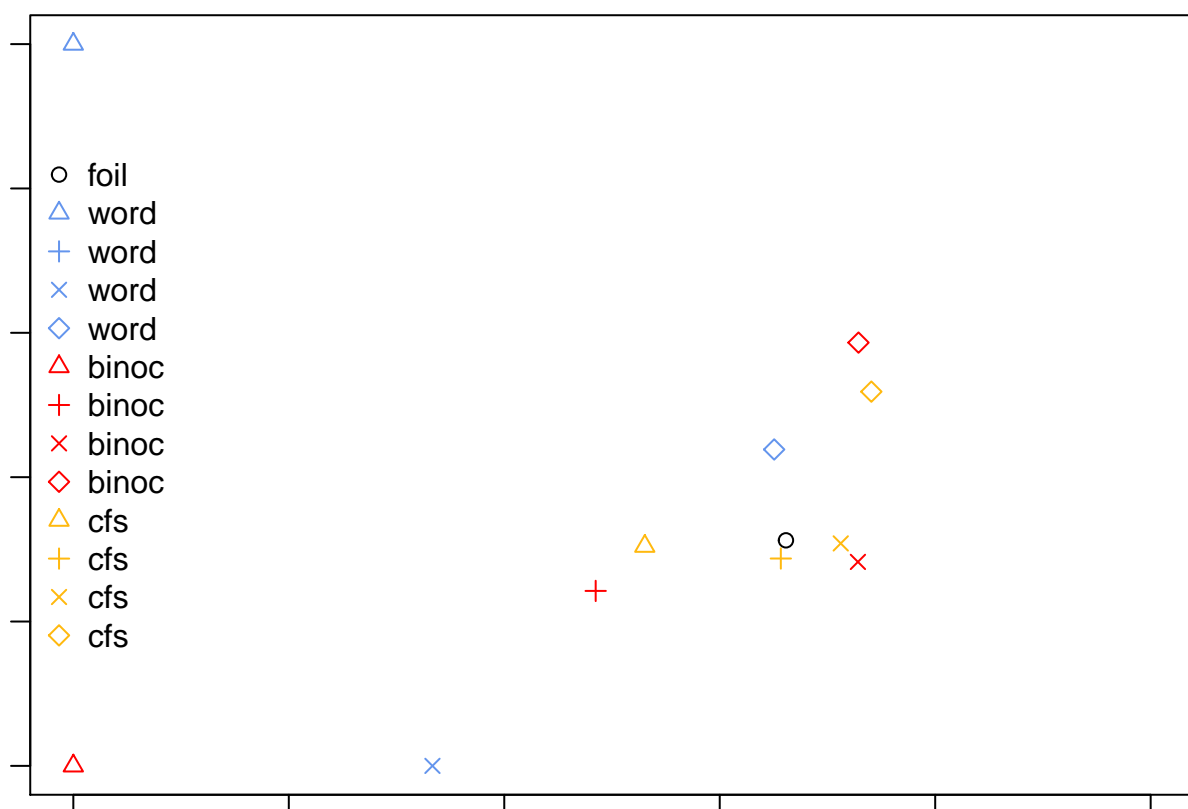
!!

now, scatter plots

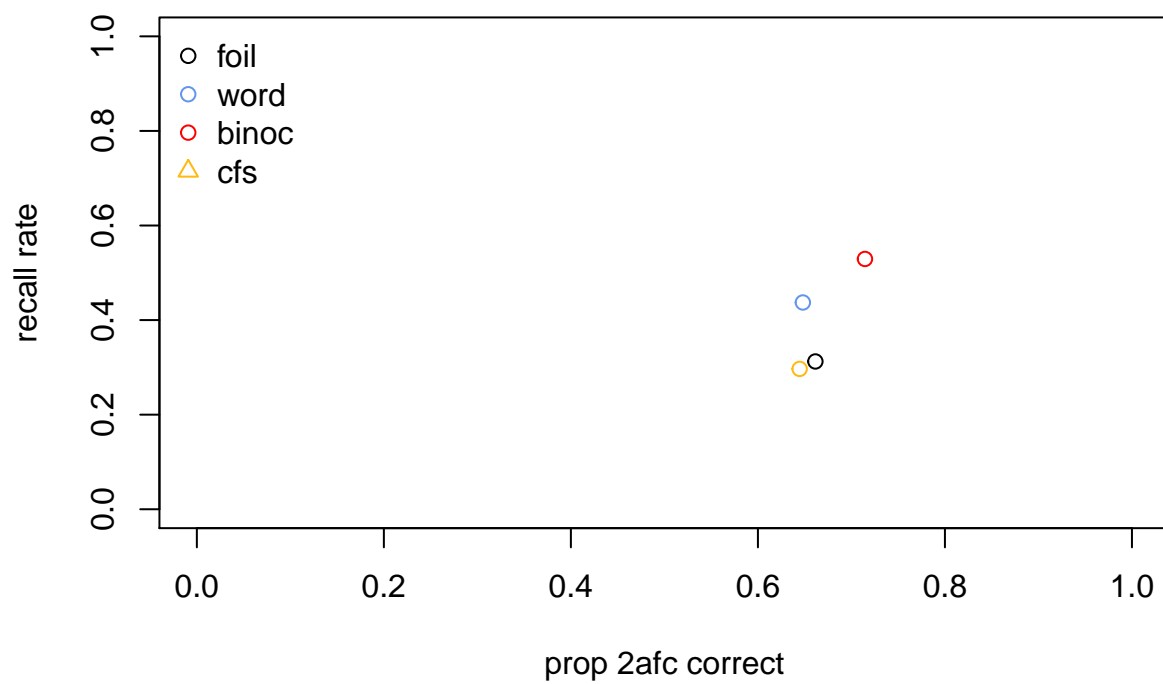
CFS performance is conditioned on having responded 0-2 at the third study opportunity. Binocular and Word is conditioned on having responded 3



comparing PAS responses for words and binocular. Note, many possible points are missing. Those correspond to cases that never occurred, like a rating of 1 to the binocular condition

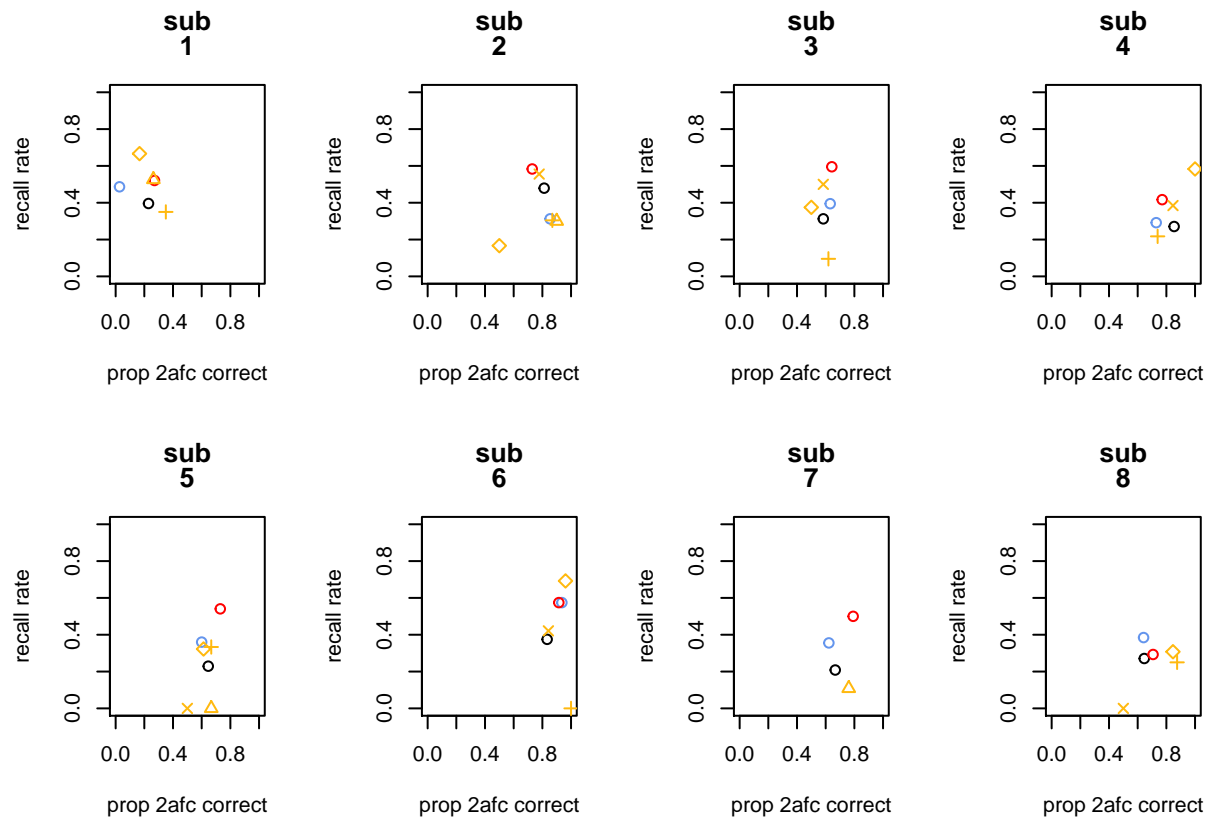


Plot just the average of CFS, given responses below 3

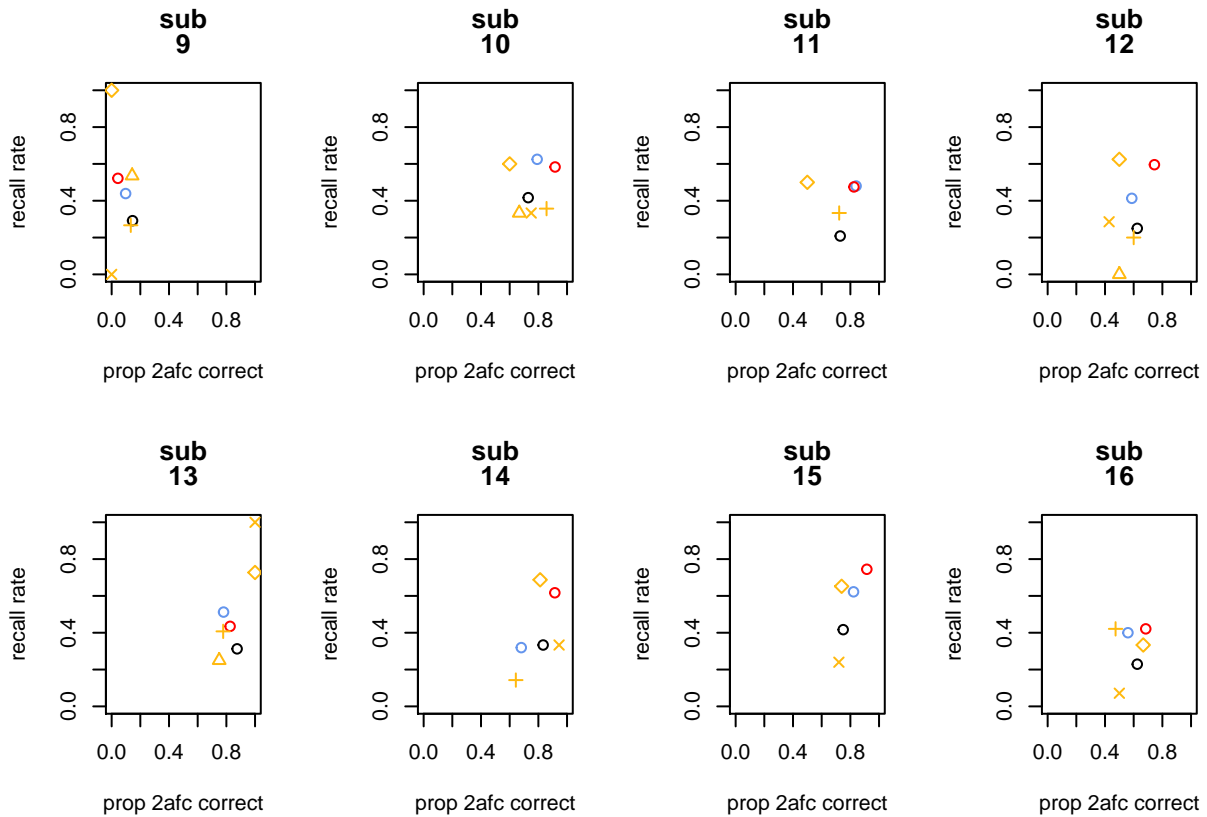


By Subjects

Still looking at test performance as judged by third PAS response







```
# rRates.cond_sem
# afcRates.cond_sem
```

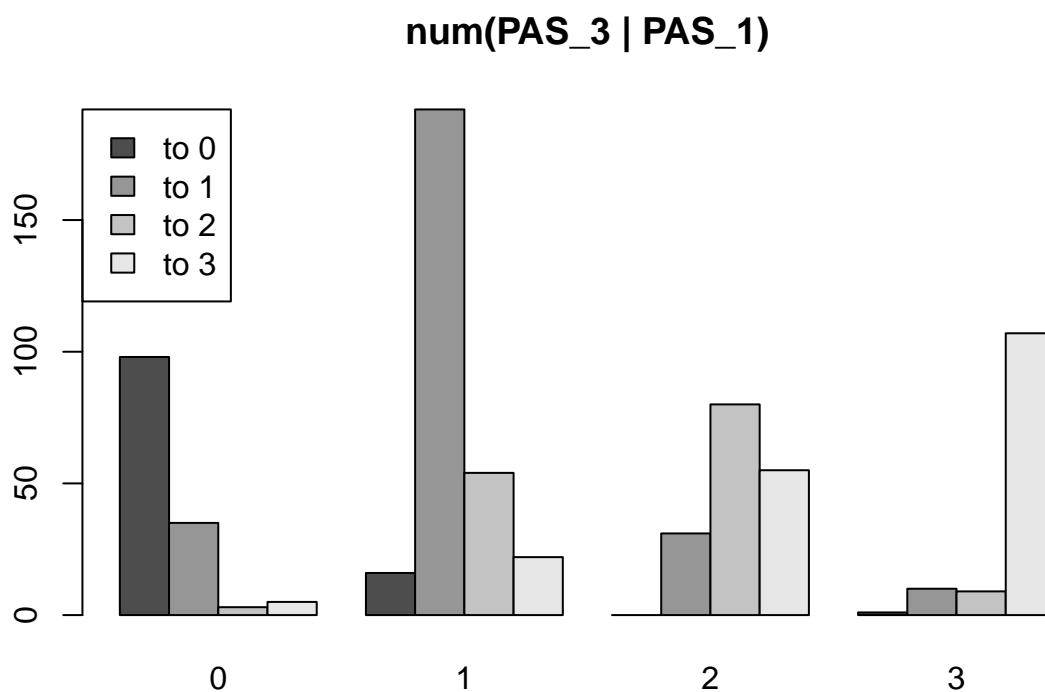
next, look at the state traces by subject

first presentation

second presentation

third presentation

```
## [1] 5
```



In the following graph, note that the highest of each group of bars shifts one bar to the right for each group (0-3). This says that, for a PAS of 3 on the first presentation, the most likely PAS on the second is 3. Similarly, for a PAS of 2 on the first presentation, the most likely is a 2 on the second (followed by a 1). For 1 on the first, mostly likely is a second 1 (followed by 2). For 0, the most likely is split between 0 and 1.

