

102008_Cuedts_singleNEUROIMAGING.rnw

compiled December 3, 2018

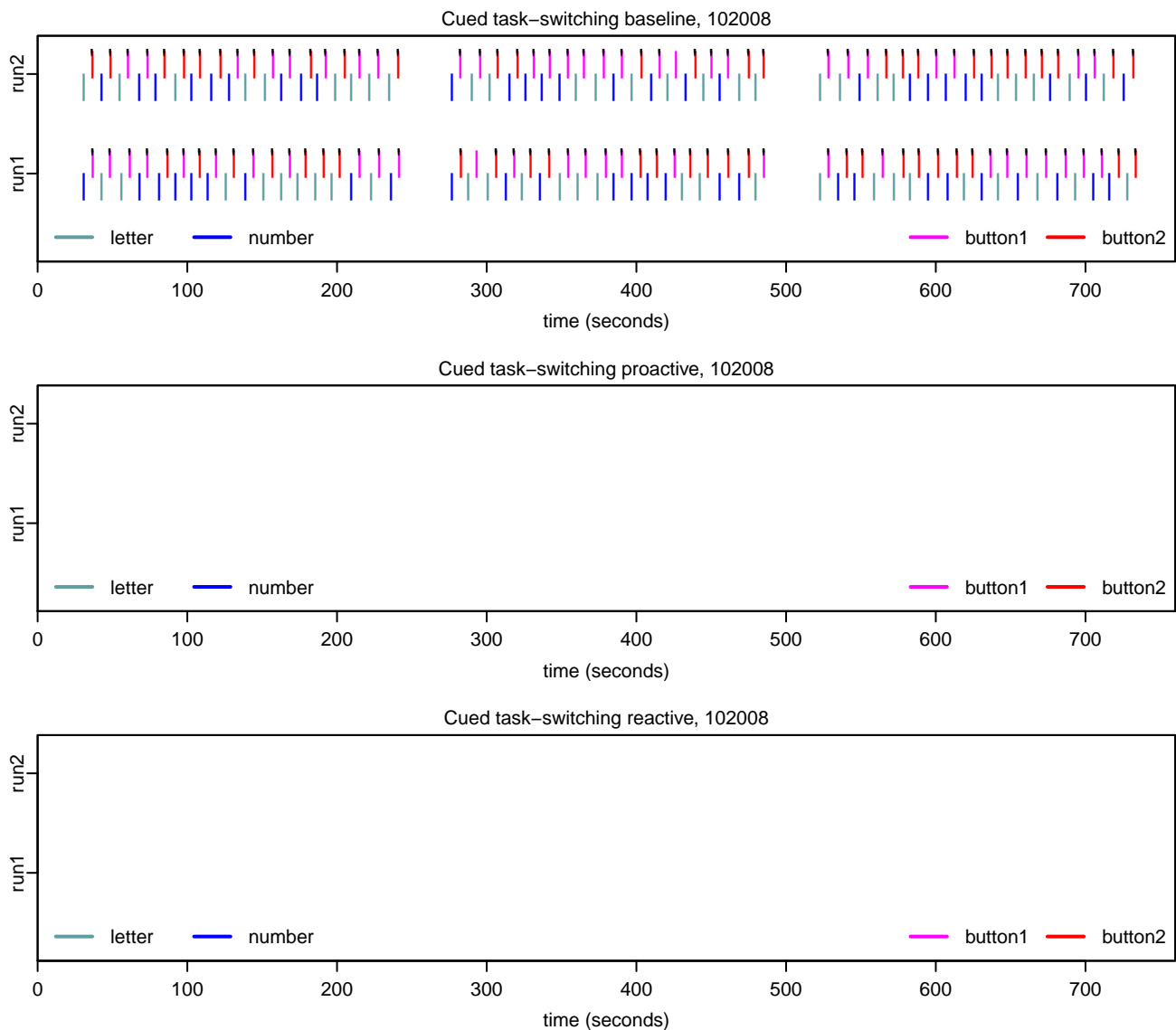
This file summarizes 102008's behavioral performance on the DMCC Cuedts task, NEUROIMAGING version.

Quality Control: expected stimuli and responses?

The first block of code reads in the eprime output files (e-recovery or .csv), and then checks whether the expected number and types of trials was present in each run and block. Unless a run was known to end early, any error messages printed below should be investigated.

```
## [1] "Found an error in the Cuedts trial counting or stimulus matching? FALSE"
```

These plots show the time and type of every trial (blue and green) and response (red and pink); black tick marks indicate correct trials. The trial types and responses should be random (e.g., not an entire block of letter), and errors should be approximately equal across the runs (check if a participant appears to have stopped responding or suddenly increased in errors).

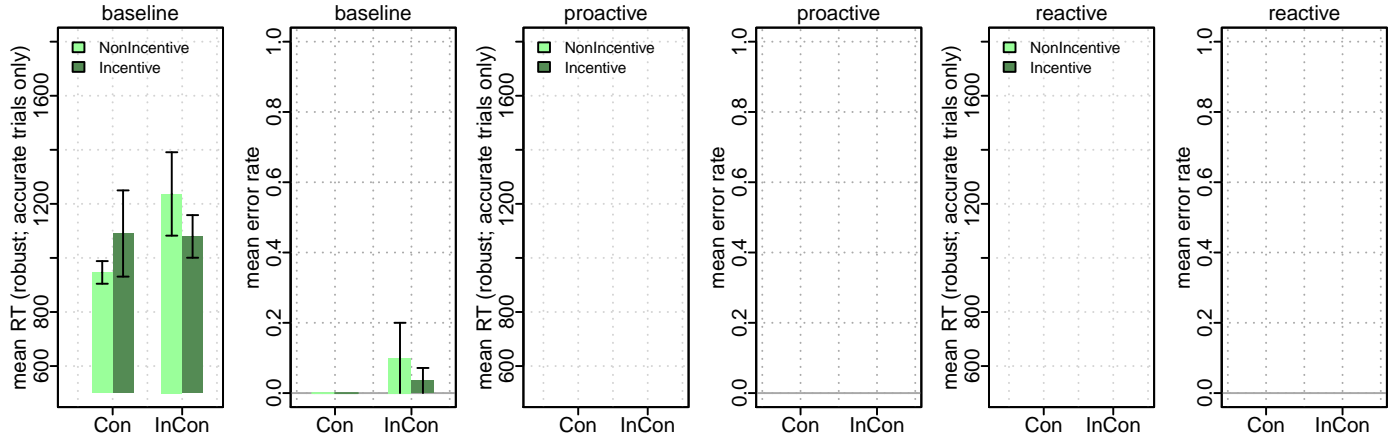


Single-subject statistics for 102008

RT: We hope that RT will be faster (shorter bars) on Inc than noInc in proactive, but faster on noInc in reactive.

Error Rate: We hope that the error rate will be worse (higher bars) on InCongruent than Congruent trials, with this difference smaller in reactive than proactive.

Robust statistics for RT? TRUE (Robust statistics never used for ERR, since typically very few errors.)



[1] divided by Incentive/NoIncentive and Congruent/Incongruent:

##	session	inc.id	con.id	num.trials	ERR.mean	ACC.mean	ACC.sem	RT.mean	RT.sem
## 1	baseline	noInc	Con	62	0.000	1.000	0.000	946.400	41.821
## 2	baseline	inc	Con	8	0.000	1.000	0.000	1090.375	159.478
## 3	baseline	noInc	InCon	10	0.100	0.900	0.100	1236.667	154.299
## 4	baseline	inc	InCon	28	0.036	0.964	0.036	1079.565	78.830

[1] divided by Incentive/NoIncentive and Switch/Repeat:

##	session	inc.id	switch.id	num.trials	ERR.mean	ACC.mean	ACC.sem	RT.mean	RT.sem
## 1	baseline	noInc	switch	40	0.025	0.975	0.025	1035.152	57.956
## 2	baseline	inc	switch	17	0.059	0.941	0.059	1022.643	97.194
## 3	baseline	noInc	repeat	28	0.000	1.000	0.000	949.542	70.131
## 4	baseline	inc	repeat	17	0.000	1.000	0.000	1108.667	117.073

[1] (note: fewer trials in each session since first trial of each block ommited)

Cuedts derived measures for 102008

Calculated from the mean RT and error rates in the above table, InCongruent - Congruent, Incentive and noIncentive trials separately.

```
## [1] "Incentive TRCE baseline RT: -10.81 ERR: 0.036"  
## [1]  
## [1] "Nonincentive TRCE baseline RT: 290.267 ERR: 0.1"
```

The reward and critical RT (how fast the participant must respond to receive a reward in Proactive and Reactive) are in lines 8 and 3 (respectively) of the **CuedTS Tracking and Results.txt** files written by the eprime scripts during the final session. If this file is present, it is read and values printed below.

```
## [1] critical RT: 1043  
## [1] reward: $0
```