Staggered Effort-Based Decision Making Script Instructions

In eefrt\_scanner\_practice, the file EEfRT\_Practice\_maxeffort.m obtains the subject's maximum press rate by having the subject press as fast as they can three times and averages them, then familiarizes the subject with different levels of effort (20%, 50%, etc). The program outputs a file in logfiles/data\_practice/subnum that has maximum press rate in column 9. The eefrt\_scanner\_practice folder also has a powerpoint file called Slideshow.pptx that we use to show the participant what the information will look like in the scanner.

The eefrt\_staggeredv2 folder has the actual script, ScannerEEfRTStaggeredV3.m. This script is set up to wait for the scanner to send a "t" before beginning, and uses the b and y buttons (blue and yellow on our buttonbox) to accept or reject the effort/reward combination. The choice is always between some amount of variable effort and reward and no effort for $1. The response buttons can be changed in lines **242-246**. We may also have to make changes based on the format of your projector, so please let us know if it looks crazy. It looks not so great on my laptop but presents perfectly on our scanner projector (resolution differences etc…)

The EEfRT\_PostScan.m script confirms the choices that participants made in the scanner and has them actually do the effort. They have an opportunity to change their responses (this is in the instruction document). This script requires the max press rate from the practice file described above.

Each of the three scripts that I mentioned will need the home directory updated. Some of them have multiple places where the directory location needs to be changed-- if you run a find/search for users you will see every path that needs to be updated. Just update it with the location where the folder is saved on your computer.

Lastly, you may notice lines of code that reference "Effort in 30 days". In our initial version of this task, we were potentially interested in adding in a delay discounting component, but abandoned that. Everything is set to 0 so you will not have to worry about it displaying that, but I figured it best to not delete so that if you need analysis scripts we don't have to do any major updating.

We run 2 runs of this (44 trials per run).