n-Back Test

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1 What we did

Used psychopy to create an n-back test, based off of "Matt's miscellaneous PsychoPy code"

2 What we want to do

Actually process some code

3 some code

,,,

```
out_list = [i for i in in_list]
    list_stats = [] # list holding the character and positions it was matched at
    num_matches = 0
    for idx, char in enumerate(in_list):
        if idx > 1:
            if (random.random() > threshold):
                out_list[idx] = in_list[idx-n_back]
                list_stats.append([(idx, idx-2), char]
                                  ) if keep_list_stats else None
                num_matches += 1
    real_match_rate = num_matches / (len(in_list) - 2)
######################
# create trial list #
#####################
n_{trials} = 15
match_frequency_threshold = 0.5
alphabet = [i for i in "ABCDEFGHIJKLMNOPQRSTUVWXYZ"]
initial_letters = [random.choice(alphabet) for i in range(n_trials)]
trial_list = makeMatches(initial_letters,n_trials,
                         threshold=match_frequency_threshold, keep_list_stats=False)
```

4 some useful stuff

4.1 latex-preview-mode

This lets you preview your report as you make it (in latex)

```
C-c C-e 1 1
open file.tex
edit text as you please
#+BEGIN_SRC emacs-lisp
  (use-package latex-preview-pane
    :ensure t
    :config
    (latex-preview-pane-enable)
```

) #+END_SRC