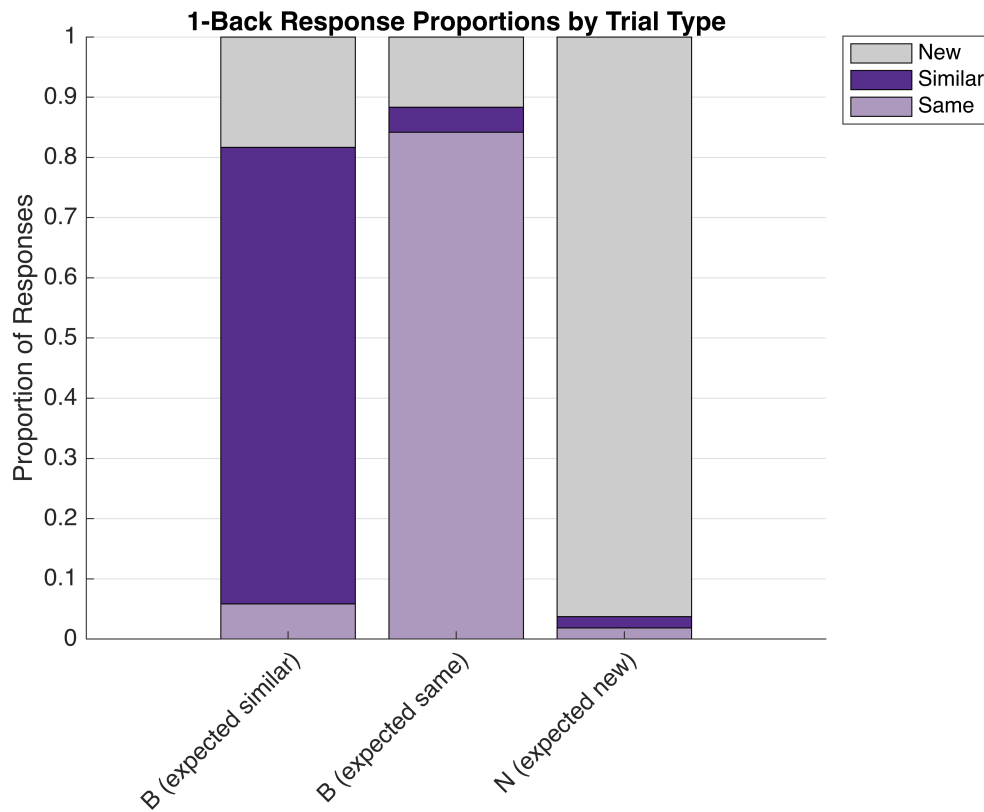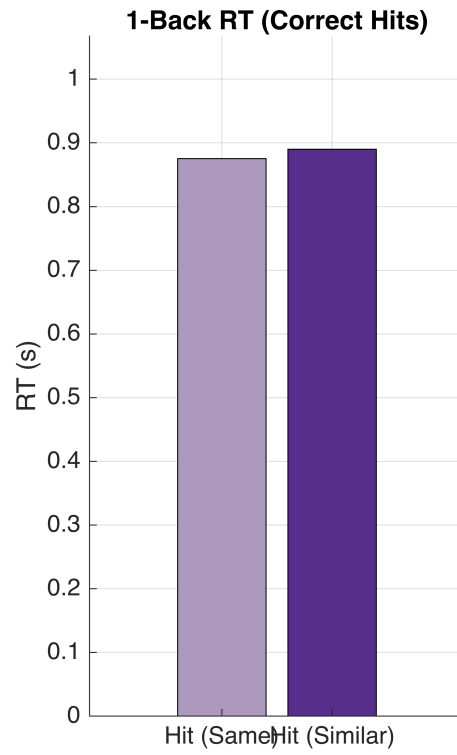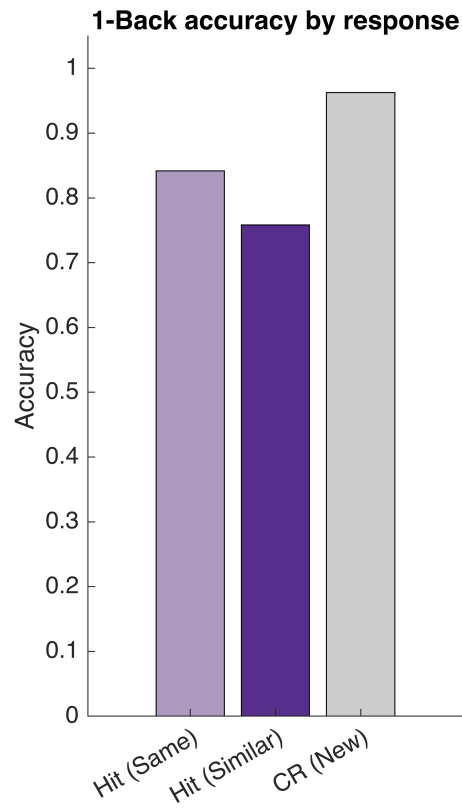# MEOW Data Analysis

1-back

Calculation

```
overall accuracy: 0.908333
accuracy hit-same: 0.841667
accuracy hit-similar: 0.758333
accuracy cr: 0.962500
FAR new: 0.037500
median rt hit-same: 0.875205
median rt hit-similar: 0.889845
compared lure error (as 'same'):  0.058
compared lure error (as 'new'):   0.183
repeat target error (as 'similar'): 0.042
repeat target error (as 'new'):     0.117
new item error (as 'same'):       0.019
new item error (as 'similar'):    0.019
```
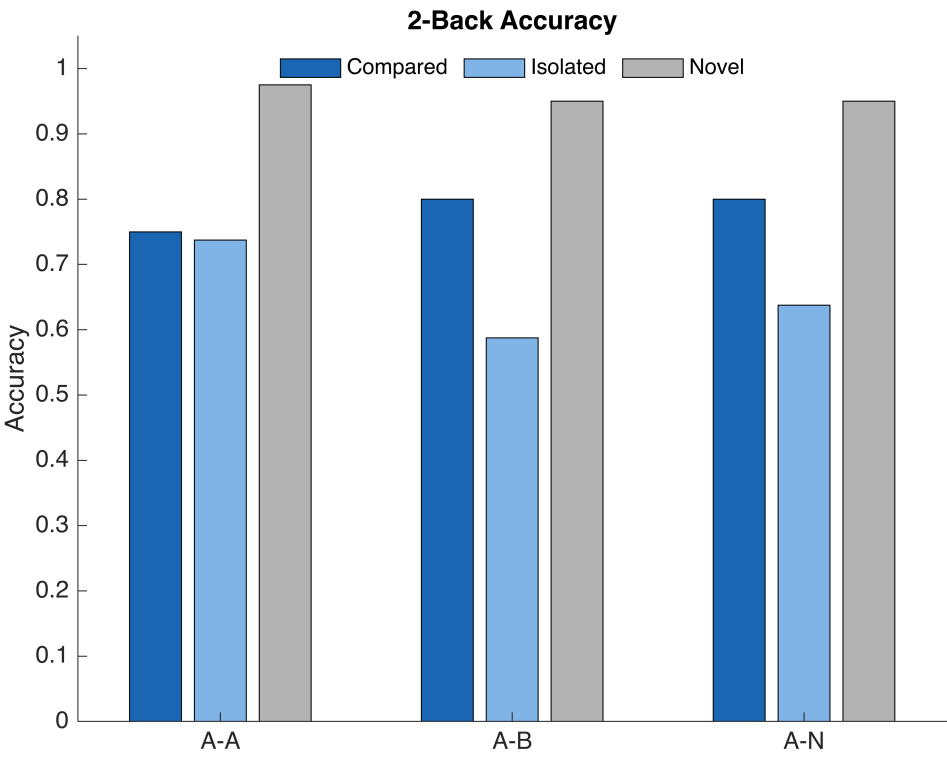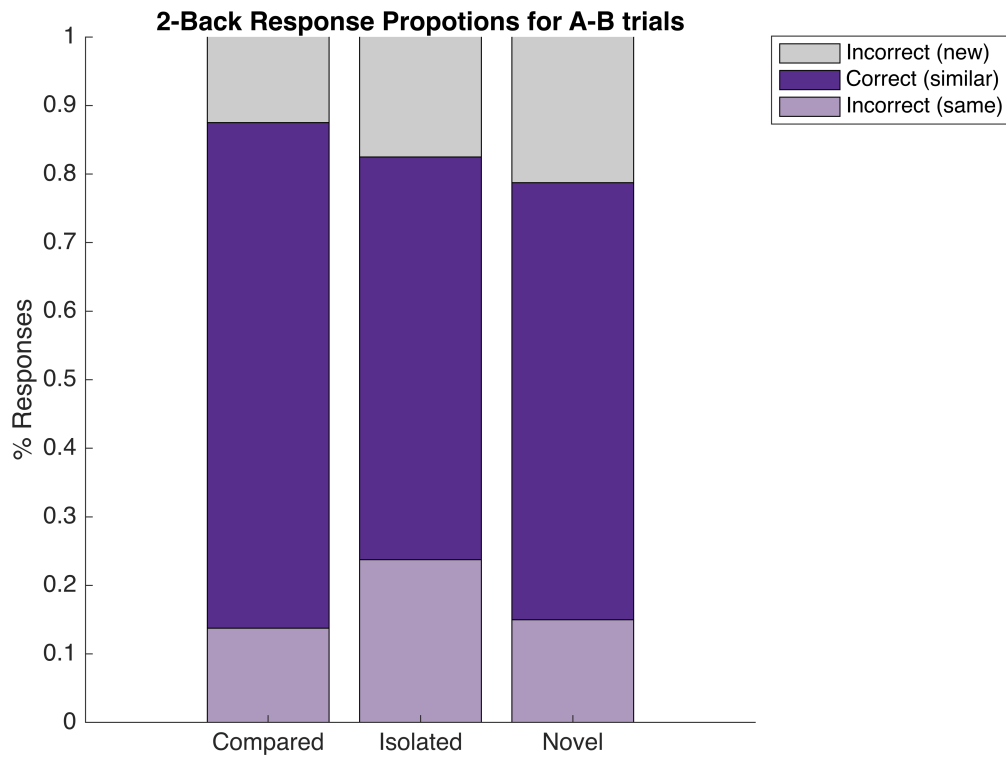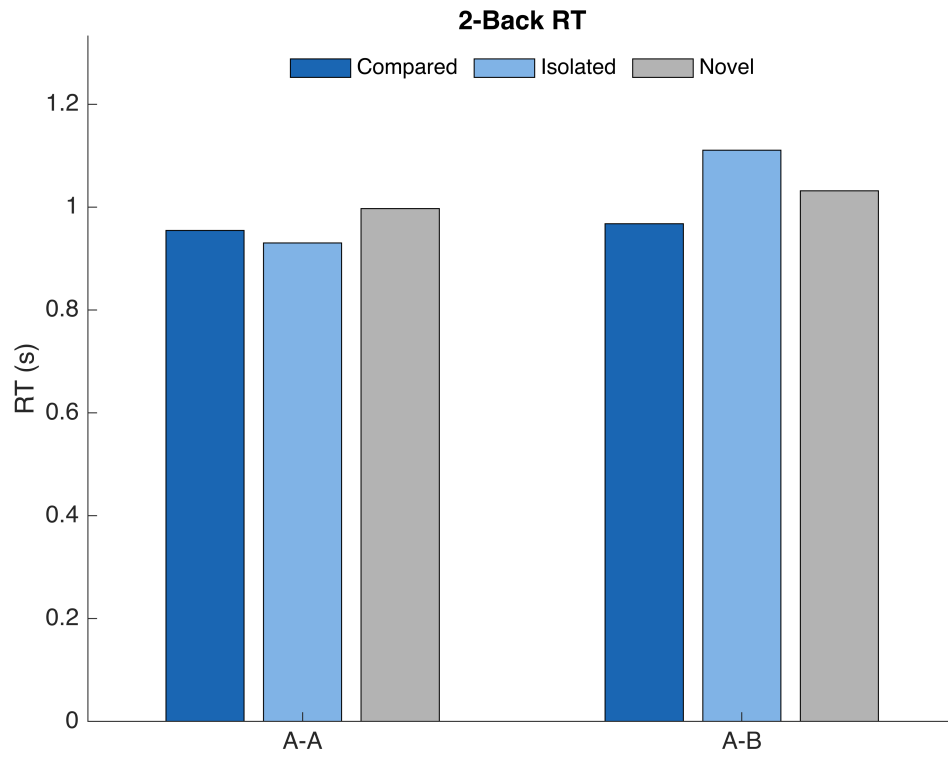
Plots. 1-Back

1-Back accuracy by response

1-Back RT (Correct Hits)

1-Back Response Proportions by Trial Type

2-back

Calculation

Plots 2-Back

2-Back Accuracy

2-Back RT

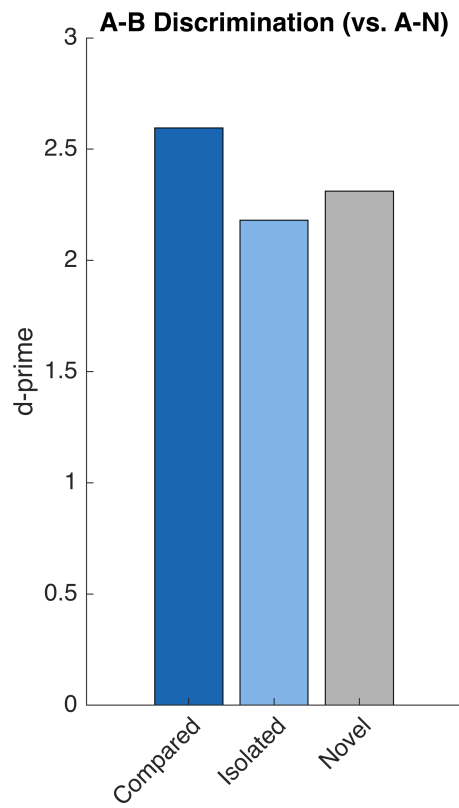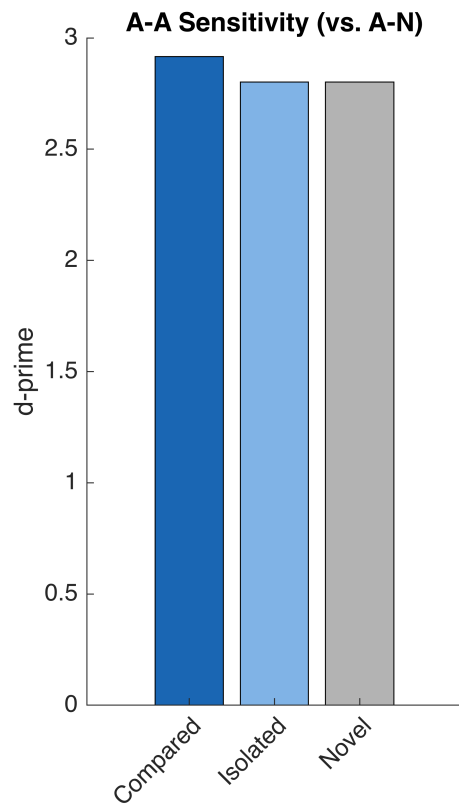## 2-Back Response Propotions for A-B trials
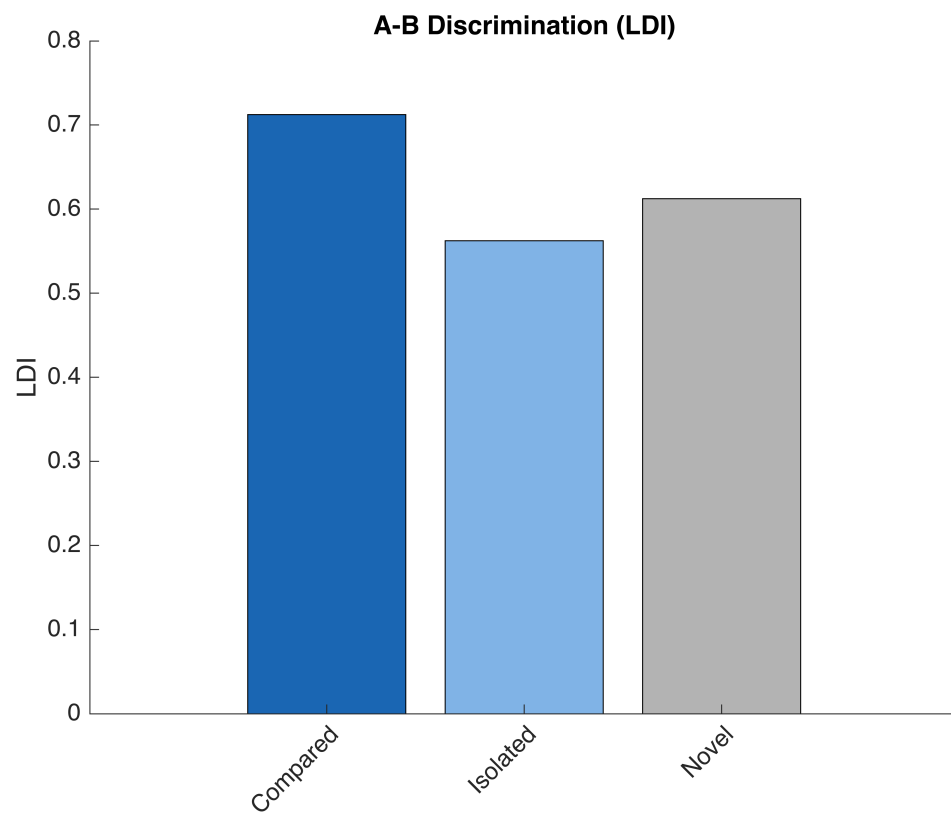

2-Back SDT

```
--- 2-Back d-prime Results ---
  d_A-A | Comp: 2.916, Iso: 2.802, Nov: 2.802
  d_A-B | Comp: 2.596, Iso: 2.181, Nov: 2.312
  LDI   | Comp: 0.713, Iso: 0.562, Nov: 0.612
```
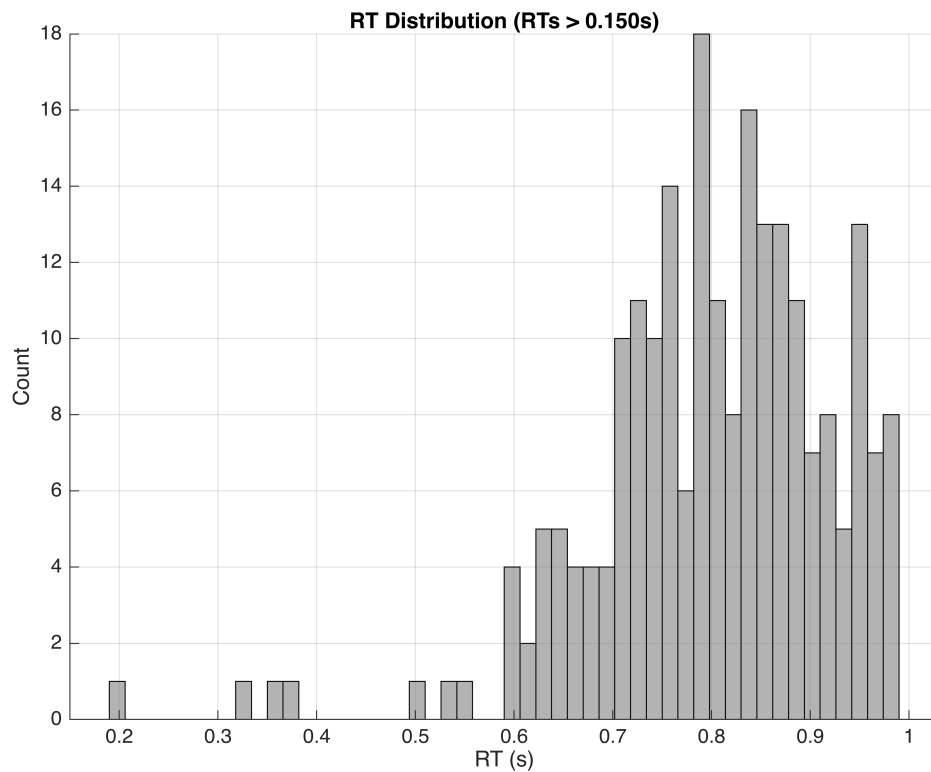
A-A Sensitivity (vs. A-N) · **A-B Discrimination (vs. A-N)**

A-B Discrimination (LDI)

Recognition

Sanity check

RT Distribution (RTs > 0.150s)

percent responded: 0.754167

overall accuracy: 0.668508

median reaction times: 0.808776

SDT

overall hit rate and false alarm rate

overall hit rate: 0.366667

overall false alarm rate: 0.108333

overall d'prime: 0.894746

Compared vs Isolated

compared HR: 0.358333

compared d prime: 0.872523

isolated HR: 0.375000

isolated d prime: 0.916801

A vs B

A HR: 0.371212
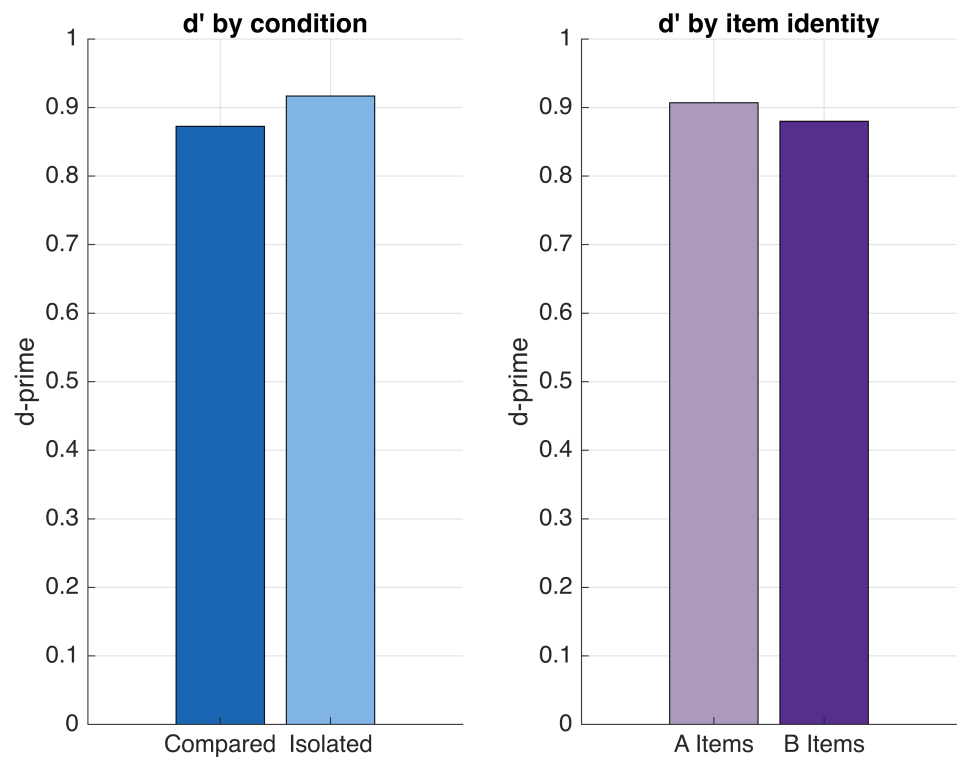
A d prime: 0.906796

B HR: 0.361111

B d prime: 0.879950

RT

Compared vs Isolated vs Foil

RT compared hit: 0.801919

RT isolated hit: 0.806386

RT new CR: 0.800915

RT A hit: 0.795913

RT B hit: 0.814620

plots: sdt

plots: rt

save results