

DDM Priors for Random Dot Motion Task

Fitting one distribution

Drift Rate

Boundary Separation

Non-decision time

Model Selection: Representative distributions

```
##           V1 V2 waic
## X1   truncated normal  1 0.40
## X2           t        4 0.09
## X3           gamma    2 0.24
## X4     lognormal    9 0.01
## X5     weibull      3 0.15
## X1.1   tnorm & tnorm  5 0.05
## X2.1   gamma & gamma  8 0.01
## X3.1   gamma & tnorm  7 0.02
## X4.1 lognormal & tnorm  6 0.03
```

```
##           V1      V2 wAIC
## X1   truncated normal 200.10 0.00
## X2           t      137.50 0.02
## X3           gamma 152.75 0.00
## X4     lognormal 137.96 0.01
## X5     weibull 182.78 0.00
## X1.1   tnorm & tnorm 133.90 0.10
## X2.1   gamma & gamma 131.05 0.41
## X3.1   gamma & tnorm 132.41 0.21
## X4.1 lognormal & tnorm 131.99 0.26
```

```
##           V1      V2 wAIC
## X1   truncated normal -137.27 0.00
## X2           t      -140.14 0.00
## X3           gamma -133.12 0.00
## X4     lognormal -120.35 0.00
## X5     weibull -155.61 0.42
## X1.1   tnorm & tnorm -153.80 0.17
## X2.1   gamma & gamma -151.96 0.07
## X3.1   gamma & tnorm -153.38 0.14
## X4.1 lognormal & tnorm -154.17 0.20
```