

# DDM Priors for Lexical Decision Task Task

## Fitting one distribution

Drift Rate

Boundary Separation

Mirrored Bias

Bias

Non-decision time

sv

relative sz

ster

## Model Selection: Representative distributions

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

```
##           V1      V2 wAIC
## X1  truncated normal 162.82 0.00
## X2           t     133.29 0.00
## X3          gamma   133.38 0.00
## X4        lognormal 125.68 0.21
## X5         weibull 170.72 0.00
## X1.1    tnorm & tnorm 130.87 0.02
## X2.1    gamma & gamma 127.47 0.09
## X3.1    gamma & tnorm 127.46 0.09
## X4.1 lognormal & tnorm 123.61 0.59
```

```
##           V1      V2 wAIC
## X1  truncated normal -340.67 0.00
```

```

## X2                t -383.21 0.00
## X3                gamma -366.57 0.00
## X4                lognormal -377.03 0.00
## X5                weibull -290.53 0.00
## X1.1            tnorm & tnorm -393.86 0.01
## X2.1            gamma & gamma -399.33 0.21
## X3.1            gamma & tnorm -399.08 0.19
## X4.1 lognormal & tnorm -401.39 0.59

##                V1      V2 wAIC
## X1  truncated normal 139.28 0.26
## X2                t 141.18 0.10
## X3                gamma 152.40 0.00
## X4                lognormal 186.31 0.00
## X5                weibull 143.46 0.03
## X1.1            tnorm & tnorm 139.90 0.19
## X2.1            gamma & gamma 146.22 0.01
## X3.1            gamma & tnorm 138.79 0.34
## X4.1 lognormal & tnorm 142.15 0.06

##                V1      V2 wAIC
## X1 truncated normal -43.13 0.75
## X2                t -40.88 0.25

##                V1      V2 wAIC
## X1  truncated normal -157.56 0.00
## X2                t -229.20 0.07
## X3                gamma -205.08 0.00
## X4                lognormal -218.10 0.00
## X5                weibull -170.26 0.00
## X1.1            tnorm & tnorm -229.36 0.08
## X2.1            gamma & gamma -230.70 0.15
## X3.1            gamma & tnorm -233.50 0.62
## X4.1 lognormal & tnorm -229.23 0.07

```