Table. 1: Probabilities for comparisons within every model estimated in hddm analysis.

|  |  |  |
| --- | --- | --- |
| Model | Comparison | Probability |
| 1. Estimating drift-rate for emotion | P(happy > sad) | > 0.999 |
| P(sad > happy) | 0 |
| P(happy > neutral) | 0.998485 |
| P(sad > neutral) | 0 |
| 1. Estimating drift-rate for timing conditions | P(8ms > 16ms) | 0 |
| P(8ms > 25ms) | 0 |
| P(8ms > 141ms) | 0 |
| P(16ms > 25ms) | 0 |
| P(16ms > 141ms) | 0 |
| P(25ms > 141ms) | 0 |
| 1. Estimating drift-rate for every timing x emotion condition | P(8ms\_happy > 8ms\_sad) | > 0.999 |
| P(8ms\_happy > 8ms\_neutral) | 0 |
| P(8ms\_neutral > 8ms\_sad) | > 0.999 |
| P(16ms\_happy > 16ms\_sad) | > 0.999 |
| P(16ms\_happy > 16ms\_neutral) | 0.960606 |
| P(16ms\_neutral > 16ms\_sad) | > 0.999 |
| P(25ms\_happy > 25ms\_sad) | > 0.999 |
| P(25ms\_happy > 25ms\_neutral) | 0.999495 |
| P(25ms\_neutral > 25ms\_sad) | > 0.999 |
| P(141ms\_happy > 141ms\_sad) | > 0.999 |
| P(141ms\_happy > 141ms\_neutral) | > 0.999 |
| P(141ms\_neutral > 141ms\_sad) | > 0.999 |
| P(8ms\_happy > 16ms\_happy) | 0 |
| P(8ms\_happy > 25ms\_happy) | 0 |
| P(8ms\_happy > 141ms\_happy) | 0 |
| P(16ms\_happy > 25ms\_happy) | 0 |
| P(16ms\_happy > 141ms\_happy) | 0 |
| P(25ms\_happy > 141ms\_happy) | 0 |
| P(8ms\_sad > 16ms\_sad) | 0.009091 |
| P(8ms\_sad > 25ms\_sad) | 0 |
| P(8ms\_sad > 141ms\_sad) | 0 |
| P(16ms\_sad > 25ms\_sad) | 0 |
| P(16ms\_sad > 141ms\_sad) | 0 |
| P(25ms\_sad > 141ms\_sad) | 0 |
| P(8ms\_neutral > 16ms\_neutral) | 0.022727 |
| P(8ms\_neutral > 25ms\_neutral) | 0 |
| P(8ms\_neutral > 141ms\_neutral) | 0 |
| P(16ms\_neutral > 25ms\_neutral | 0.014141 |
| P(16ms\_neutral > 141ms\_neutral) | 0 |
| P(25ms\_neutral > 141ms\_neutral) | 0 |

Model description

1. *Estimating drift-rate for emotion*

model\_stim **=** hddm**.**HDDM(data, p\_outlier**=**0.05,depends\_on**=**{'v': 'stim'})

model\_stim**.**find\_starting\_values()

model\_stim**.**sample(2000, burn**=**20)

1. *Estimating drift-rate for timing conditions*

model\_level **=** hddm**.**HDDM(data, p\_outlier**=**0.05,depends\_on**=**{'v': 'level'})

model\_level**.**find\_starting\_values()

model\_level**.**sample(2000, burn**=**20)

1. *Estimating drift-rate for every timing x emotion condition*

m **=** hddm**.**HDDM(data, p\_outlier**=**0.05,depends\_on**=**{'v': 'conditions'})

m**.**find\_starting\_values()

m**.**sample(2000, burn**=**20)

Specific model parameters can be found on [UnconsciousTiming/hddm\_model\_estimation.ipynb at main · JuliaSchraeder/UnconsciousTiming (github.com)](https://github.com/JuliaSchraeder/UnconsciousTiming/blob/main/hddm/hddm_model_estimation.ipynb)