0.1 Descriptives of Dataset

0.2 Bias score

0.3 Bar plot of reaction times by trial type and attention

0.4 Incongruency Effect Descriptives

0.5 Incongruency Effect Box Plot

MaiaAnalysis

Malayka Mottarella 2024-02-15 Code ▼

Show

0.1 Descriptives of Dataset

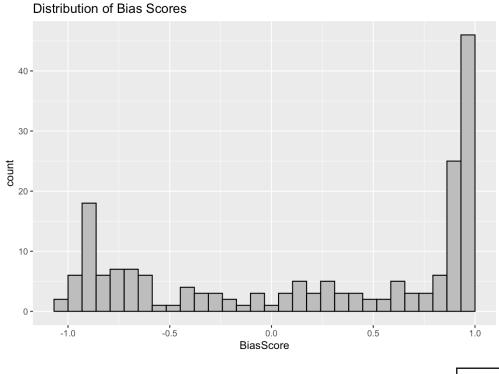
Show

## vars n mean sd median trimm ed mad min max ## Subject* 1 185 93.00 53.55 93.00 93. 00 68.20 1.00 185.00 ## Age 2 183 40.05 14.52 38.00 39. 22 13.34 10.00 87.00 ## Sex 3 184 1.80 0.48 2.00 1. 84 0.00 1.00 4.00 ## IncorRespCount 4 185 1.83 3.12 1.00 1. 13 1.48 0.00 19.00 ## SymRespCount 5 185 18.10 17.66 12.00 16. 96 16.31 0.00 48.00 ## TxtRespCount 6 185 28.07 17.95 33.00 28. 91 20.76 0.00 48.00 ## BiasScore 7 185 0.21 0.76 0.44 0. 25 0.77 -1.00 1.00 ## Con_RT 8 185 885.79 174.50 866.42 875. 88 160.51 529.08 1579.72 ## InCon_RT 9 185 987.53 325.00 925.81 946. 21 209.20 528.29 2863.08 ## Incon.ConRT 10 185 101.74 239.42 46.57 62. 58 74.70 -116.09 1902.28 ## range skew kurtosis se ## Subject* 184.00 0.00 -1.22 3.94 ## Age 77.00 0.55 0.20 1.07 ## Sex 3.00 0.12 3.50 0.04 ## IncorRespCount 19.00 3.35 11.70 0.23 ## Age 77.00 0.55 0.20 1.07 ## SymRespCount 48.00 -0.31 -1.61 1.32 ## SymRespCount 48.00 -0.31 -1.61 1.32 ## SymRespCount 48.00 -0.31 -1.61 1.32 ## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## Incon_RT 2334.79 2.91 13.12 23.89							
## Subject*	##		vars n	mean	sd	median	trimm
## Age	ed	mad min	max				
## Age	##	Subject*	1 185	93.00	53.55	93.00	93.
## Sex	00	68.20 1.00	185.00				
## Sex	##	Age	2 183	40.05	14.52	38.00	39.
## IncorRespCount	22	13.34 10.00	87.00				
## IncorrespCount	##	Sex	3 184	1.80	0.48	2.00	1.
## SymRespCount 5 185 18.10 17.66 12.00 16. 96 16.31 0.00 48.00 ## TxtRespCount 6 185 28.07 17.95 33.00 28. 91 20.76 0.00 48.00 ## BiasScore 7 185 0.21 0.76 0.44 0. 25 0.77 -1.00 1.00 ## Con_RT 8 185 885.79 174.50 866.42 875. 88 160.51 529.08 1579.72 ## InCon_RT 9 185 987.53 325.00 925.81 946. 21 209.20 528.29 2863.08 ## Incon.ConRT 10 185 101.74 239.42 46.57 62. 58 74.70 -116.09 1902.28 ## range skew kurtosis se ## Subject* 184.00 0.00 -1.22 3.94 ## Age 77.00 0.55 0.20 1.07 ## Sex 3.00 0.12 3.50 0.04 ## IncorRespCount 19.00 3.35 11.70 0.23 ## SymRespCount 48.00 -0.31 -1.61 1.32 ## TxtRespCount 48.00 -0.31 -1.61 1.32 ## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## InCon_RT 2334.79 2.91 13.12 23.89	84	0.00 1.00	4.00				
## SymRespCount 5 185 18.10 17.66 12.00 16. 96 16.31 0.00 48.00 ## TxtRespCount 6 185 28.07 17.95 33.00 28. 91 20.76 0.00 48.00 ## BiasScore 7 185 0.21 0.76 0.44 0. 25 0.77 -1.00 1.00 ## Con_RT 8 185 885.79 174.50 866.42 875. 88 160.51 529.08 1579.72 ## InCon_RT 9 185 987.53 325.00 925.81 946. 21 209.20 528.29 2863.08 ## Incon.ConRT 10 185 101.74 239.42 46.57 62. 58 74.70 -116.09 1902.28 ## range skew kurtosis se ## Subject* 184.00 0.00 -1.22 3.94 ## Age 77.00 0.55 0.20 1.07 ## Sex 3.00 0.12 3.50 0.04 ## IncorRespCount 19.00 3.35 11.70 0.23 ## SymRespCount 48.00 0.45 -1.49 1.30 ## TxtRespCount 48.00 -0.31 -1.61 1.32 ## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## InCon_RT 2334.79 2.91 13.12 23.89	##	IncorRespCount	4 185	1.83	3.12	1.00	1.
## TxtRespCount 6 185 28.07 17.95 33.00 28. 91 20.76 0.00 48.00 ## BiasScore 7 185 0.21 0.76 0.44 0. 25 0.77 -1.00 1.00 ## Con_RT 8 185 885.79 174.50 866.42 875. 88 160.51 529.08 1579.72 ## InCon_RT 9 185 987.53 325.00 925.81 946. 21 209.20 528.29 2863.08 ## Incon.ConRT 10 185 101.74 239.42 46.57 62. 58 74.70 -116.09 1902.28 ## range skew kurtosis se ## Subject* 184.00 0.00 -1.22 3.94 ## Age 77.00 0.55 0.20 1.07 ## Sex 3.00 0.12 3.50 0.04 ## IncorRespCount 19.00 3.35 11.70 0.23 ## SymRespCount 48.00 0.45 -1.49 1.30 ## TxtRespCount 48.00 -0.31 -1.61 1.32 ## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## Incon_RT 2334.79 2.91 13.12 23.89	13	1.48 0.00	19.00				
## TxtRespCount 6 185 28.07 17.95 33.00 28. 91 20.76 0.00 48.00 ## BiasScore 7 185 0.21 0.76 0.44 0. 25 0.77 -1.00 1.00 ## Con_RT 8 185 885.79 174.50 866.42 875. 88 160.51 529.08 1579.72 ## Incon_RT 9 185 987.53 325.00 925.81 946. 21 209.20 528.29 2863.08 ## Incon.ConRT 10 185 101.74 239.42 46.57 62. 58 74.70 -116.09 1902.28 ## range skew kurtosis se ## Subject* 184.00 0.00 -1.22 3.94 ## Age 77.00 0.55 0.20 1.07 ## Sex 3.00 0.12 3.50 0.04 ## IncorRespCount 19.00 3.35 11.70 0.23 ## SymRespCount 48.00 0.45 -1.49 1.30 ## TxtRespCount 48.00 -0.31 -1.61 1.32 ## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## Incon_RT 2334.79 2.91 13.12 23.89	##	SymRespCount	5 185	18.10	17.66	12.00	16.
## BiasScore 7 185 0.21 0.76 0.44 0. 25 0.77 -1.00 1.00 ## Con_RT 8 185 885.79 174.50 866.42 875. 88 160.51 529.08 1579.72 ## InCon_RT 9 185 987.53 325.00 925.81 946. 21 209.20 528.29 2863.08 ## Incon.ConRT 10 185 101.74 239.42 46.57 62. 58 74.70 -116.09 1902.28 ## range skew kurtosis se ## Subject* 184.00 0.00 -1.22 3.94 ## Age 77.00 0.55 0.20 1.07 ## Sex 3.00 0.12 3.50 0.04 ## IncorRespCount 19.00 3.35 11.70 0.23 ## SymRespCount 48.00 0.45 -1.49 1.30 ## TxtRespCount 48.00 -0.31 -1.61 1.32 ## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## Incon_RT 2334.79 2.91 13.12 23.89	96	16.31 0.00	48.00				
## BiasScore 7 185 0.21 0.76 0.44 0. 25 0.77 -1.00 1.00 ## Con_RT 8 185 885.79 174.50 866.42 875. 88 160.51 529.08 1579.72 ## InCon_RT 9 185 987.53 325.00 925.81 946. 21 209.20 528.29 2863.08 ## Incon.ConRT 10 185 101.74 239.42 46.57 62. 58 74.70 -116.09 1902.28 ## range skew kurtosis se ## Subject* 184.00 0.00 -1.22 3.94 ## Age 77.00 0.55 0.20 1.07 ## Sex 3.00 0.12 3.50 0.04 ## IncorRespCount 19.00 3.35 11.70 0.23 ## SymRespCount 48.00 0.45 -1.49 1.30 ## TxtRespCount 48.00 -0.31 -1.61 1.32 ## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## InCon_RT 2334.79 2.91 13.12 23.89	##	TxtRespCount	6 185	28.07	17.95	33.00	28.
25 0.77 -1.00 1.00 ## Con_RT	91	20.76 0.00	48.00				
## Con_RT	##	BiasScore	7 185	0.21	0.76	0.44	0.
## InCon_RT 9 185 987.53 325.00 925.81 946. 21 209.20 528.29 2863.08 ## Incon_ConRT 10 185 101.74 239.42 46.57 62. 58 74.70 -116.09 1902.28 ## subject* 184.00 0.00 -1.22 3.94 ## Age 77.00 0.55 0.20 1.07 ## Sex 3.00 0.12 3.50 0.04 ## IncorRespCount 19.00 3.35 11.70 0.23 ## SymRespCount 48.00 0.45 -1.49 1.30 ## TxtRespCount 48.00 -0.31 -1.61 1.32 ## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## InCon_RT 2334.79 2.91 13.12 23.89							
## InCon_RT 9 185 987.53 325.00 925.81 946. 21 209.20 528.29 2863.08 ## Incon.ConRT 10 185 101.74 239.42 46.57 62. 58 74.70 -116.09 1902.28 ## range skew kurtosis se ## Age 77.00 0.55 0.20 1.07 ## Sex 3.00 0.12 3.50 0.04 ## IncorRespCount 19.00 3.35 11.70 0.23 ## SymRespCount 48.00 0.45 -1.49 1.30 ## TxtRespCount 48.00 -0.31 -1.61 1.32 ## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## InCon_RT 2334.79 2.91 13.12 23.89	##	Con_RT	8 185	885.79	174.50	866.42	875.
21 209.20 528.29 2863.08 ## Incon.ConRT	88	160.51 529.08	1579.72				
## Incon.ConRT 10 185 101.74 239.42 46.57 62. 58 74.70 -116.09 1902.28 ## range skew kurtosis se ## Subject* 184.00 0.00 -1.22 3.94 ## Age 77.00 0.55 0.20 1.07 ## Sex 3.00 0.12 3.50 0.04 ## IncorRespCount 19.00 3.35 11.70 0.23 ## SymRespCount 48.00 0.45 -1.49 1.30 ## TxtRespCount 48.00 -0.31 -1.61 1.32 ## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## InCon_RT 2334.79 2.91 13.12 23.89	##	InCon_RT	9 185	987.53	325.00	925.81	946.
## range skew kurtosis se ## Subject* 184.00 0.00 -1.22 3.94 ## Age 77.00 0.55 0.20 1.07 ## Sex 3.00 0.12 3.50 0.04 ## IncorRespCount 19.00 3.35 11.70 0.23 ## SymRespCount 48.00 0.45 -1.49 1.30 ## TxtRespCount 48.00 -0.31 -1.61 1.32 ## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## InCon_RT 2334.79 2.91 13.12 23.89	21	209.20 528.29	2863.08				
## range skew kurtosis se ## Subject* 184.00 0.00 -1.22 3.94 ## Age 77.00 0.55 0.20 1.07 ## Sex 3.00 0.12 3.50 0.04 ## IncorRespCount 19.00 3.35 11.70 0.23 ## SymRespCount 48.00 0.45 -1.49 1.30 ## TxtRespCount 48.00 -0.31 -1.61 1.32 ## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## InCon_RT 2334.79 2.91 13.12 23.89				101.74	239.42	46.57	62.
## Subject* 184.00 0.00 -1.22 3.94 ## Age 77.00 0.55 0.20 1.07 ## Sex 3.00 0.12 3.50 0.04 ## IncorRespCount 19.00 3.35 11.70 0.23 ## SymRespCount 48.00 0.45 -1.49 1.30 ## TxtRespCount 48.00 -0.31 -1.61 1.32 ## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## InCon_RT 2334.79 2.91 13.12 23.89	58						
## Age 77.00 0.55 0.20 1.07 ## Sex 3.00 0.12 3.50 0.04 ## IncorRespCount 19.00 3.35 11.70 0.23 ## SymRespCount 48.00 0.45 -1.49 1.30 ## TxtRespCount 48.00 -0.31 -1.61 1.32 ## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## InCon_RT 2334.79 2.91 13.12 23.89							
## Sex 3.00 0.12 3.50 0.04 ## IncorRespCount 19.00 3.35 11.70 0.23 ## SymRespCount 48.00 0.45 -1.49 1.30 ## TxtRespCount 48.00 -0.31 -1.61 1.32 ## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## InCon_RT 2334.79 2.91 13.12 23.89							
## IncorRespCount 19.00 3.35 11.70 0.23 ## SymRespCount 48.00 0.45 -1.49 1.30 ## TxtRespCount 48.00 -0.31 -1.61 1.32 ## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## InCon_RT 2334.79 2.91 13.12 23.89		Age	77.00	0.55	0.20	1.07	
## SymRespCount 48.00 0.45 -1.49 1.30 ## TxtRespCount 48.00 -0.31 -1.61 1.32 ## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## InCon_RT 2334.79 2.91 13.12 23.89							
## TxtRespCount 48.00 -0.31 -1.61 1.32 ## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## InCon_RT 2334.79 2.91 13.12 23.89		=					
## BiasScore 2.00 -0.38 -1.55 0.06 ## Con_RT 1050.64 0.63 0.59 12.83 ## InCon_RT 2334.79 2.91 13.12 23.89							
## Con_RT 1050.64 0.63 0.59 12.83 ## InCon_RT 2334.79 2.91 13.12 23.89		-					
## InCon_RT 2334.79 2.91 13.12 23.89							
_		_					
		_					
## Incon.ConRT 2018.37 5.34 33.94 17.60	##	Incon.ConRT	2018.37	5.34	33.94	17.60	

0.2 Bias score

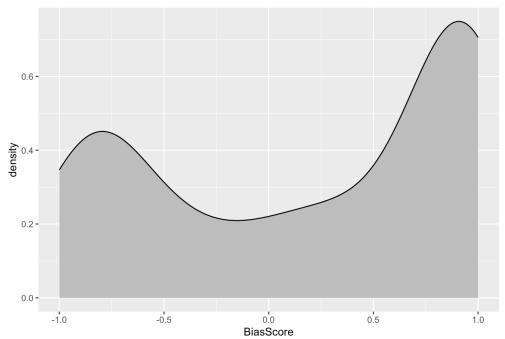
Show

`stat_bin()` using `bins = 30`. Pick better value
with `binwidth`.



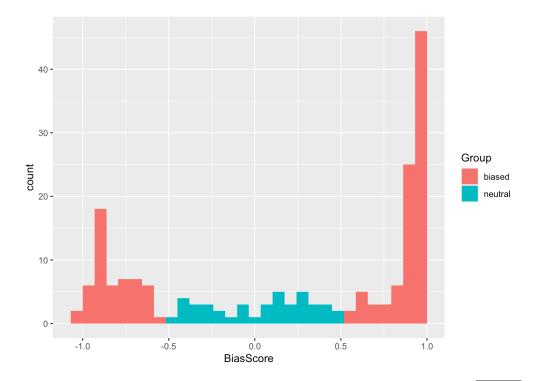
Show

Distribution of Bias Scores



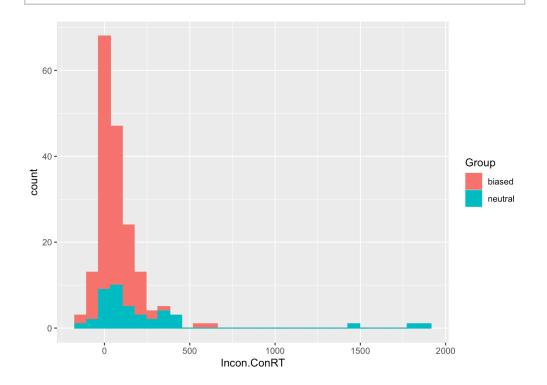
Show

`stat_bin()` using `bins = 30`. Pick better value
with `binwidth`.

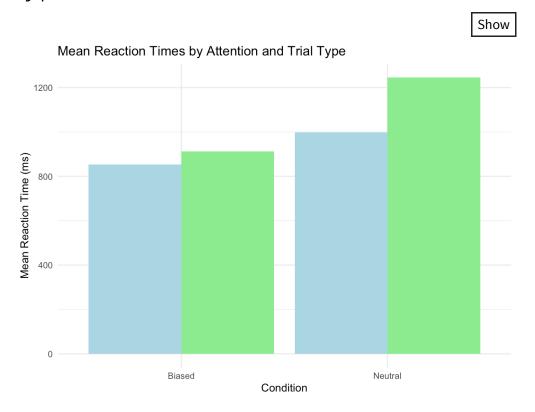


Show

`stat_bin()` using `bins = 30`. Pick better value
with `binwidth`.



0.3 Bar plot of reaction times by trial type and attention



#figure out how to put error bars

0.4 Incongruency Effect Descriptives

```
Show
##
                           sd median trimmed
      vars
                 mean
in
           range skew
      max
## X1
         1 143 58.84 100.78
                               33.69
                                        47.64 62.2 -114.
36 640.06 754.42 2.38
##
      kurtosis
## X1
          9.82 8.43
```

Show

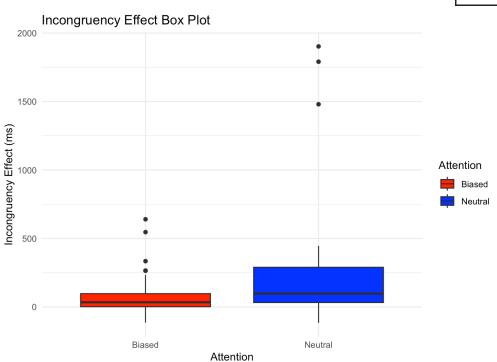
```
## vars n mean sd median trimmed mad
min max range skew
## X1   1 42 247.78 440.23 97.56 149.04 131.32 -11
6.09 1902.28 2018.37 2.74
## kurtosis se
## X1   6.85 67.93
```

Show

```
## Attention Variable Mean StdDev
Min Max
## 1 Biased Incongruency Effect 58.84309 100.7779
-114.3611 640.0625
## 2 Neutral Incongruency Effect 247.77513 440.2280
-116.0903 1902.2847
```

0.5 Incongruency Effect Box Plot

Show



Incongruency Effect Scatter Plot

Show

Scatter Plot of Incongruency Effect

