

R version 4.1.2 (2021-11-01) -- "Bird Hippie"  
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Platform: x86\_64-w64-mingw32/x64 (64-bit)

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Natural language support but running in an English locale

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[Previously saved workspace restored]

```
> library(bayestestR)
> describe_posterior(Exp2.model,ci=0.89)
Summary of Posterior Distribution
```

Parameter	Median	89% CI	pd	ROPE	% in ROPE	Rhat	ESS
(Intercept)	0.27	[ 0.11, 0.44]	99.41%	[-0.10, 0.10]	2.50%	1.001	2207.00
ItemType1	2.30	[ 2.08, 2.51]	100%	[-0.10, 0.10]	0%	1.001	3018.00
Similarity1	-0.06	[-0.23, 0.11]	70.93%	[-0.10, 0.10]	61.57%	1.002	2700.00
Group1	-0.03	[-0.33, 0.25]	56.88%	[-0.10, 0.10]	44.03%	1.000	2203.00
ItemType1:Similarity1	-0.99	[-1.32, -0.64]	100%	[-0.10, 0.10]	0%	1.000	2570.00
ItemType1:Group1	-0.51	[-0.80, -0.21]	99.63%	[-0.10, 0.10]	0%	1.000	4996.00
Similarity1:Group1	-0.02	[-0.16, 0.10]	60.61%	[-0.10, 0.10]	79.80%	1.000	12540.00
ItemType1:Similarity1:Group1	2.91e-03	[-0.30, 0.30]	50.72%	[-0.10, 0.10]	43.28%	1.000	10619.00

```
>
>
>
> summary(Exp2.model,prob=0.89)
Family: bernoulli
Links: mu = probit
Formula: Sameness ~ ItemType * Similarity * Group + (1 + ItemType * Similarity | Participant) + (1 + Group | Item)
Data: Exp2 (Number of observations: 12480)
Draws: 4 chains, each with iter = 4000; warmup = 1000; thin = 1;
total post-warmup draws = 12000
```

Group-Level Effects:

~Item (Number of levels: 320)

	Estimate	Est.Error	1-89% CI	u-89% CI	Rhat	Bulk_ESS	Tail_ESS
sd(Intercept)	0.83	0.04	0.77	0.90	1.00	3455	6684
sd(Group1)	0.26	0.06	0.16	0.36	1.00	3017	4169

```
cor(Intercept,Group1)      -0.49      0.17      -0.78      -0.23 1.00      4416      3788
```

```
~Participant (Number of levels: 39)
```

	Estimate	Est.Error	1-89% CI	u-89% CI	Rhat	Bulk_ESS	Tail_ESS
sd(Intercept)	0.55	0.07	0.45	0.68	1.00	3708	5412
sd(ItemType1)	0.50	0.07	0.39	0.63	1.00	6150	8532
sd(Similarity1)	0.06	0.05	0.01	0.15	1.00	5140	6380
sd(ItemType1:Similarity1)	0.30	0.11	0.12	0.49	1.00	3691	4030
cor(Intercept,ItemType1)	-0.23	0.18	-0.49	0.07	1.00	4963	6489
cor(Intercept,Similarity1)	0.11	0.40	-0.58	0.72	1.00	17990	8287
cor(ItemType1,Similarity1)	0.21	0.39	-0.49	0.78	1.00	14070	9242
cor(Intercept,ItemType1:Similarity1)	0.33	0.26	-0.11	0.72	1.00	13545	8847
cor(ItemType1,ItemType1:Similarity1)	-0.29	0.27	-0.70	0.15	1.00	12374	9704
cor(Similarity1,ItemType1:Similarity1)	0.13	0.43	-0.61	0.76	1.00	3876	7009

```
Population-Level Effects:
```

	Estimate	Est.Error	1-89% CI	u-89% CI	Rhat	Bulk_ESS	Tail_ESS
Intercept	0.27	0.10	0.10	0.44	1.00	2220	4278
ItemType1	2.29	0.13	2.08	2.51	1.00	3008	5147
Similarity1	-0.06	0.11	-0.23	0.11	1.00	2714	5148
Group1	-0.03	0.18	-0.33	0.26	1.00	2229	4088
ItemType1:Similarity1	-0.98	0.22	-1.33	-0.64	1.00	2580	4867
ItemType1:Group1	-0.51	0.18	-0.80	-0.22	1.00	5020	7288
Similarity1:Group1	-0.02	0.08	-0.15	0.11	1.00	12664	9041
ItemType1:Similarity1:Group1	0.00	0.19	-0.30	0.30	1.00	10734	9524

Draws were sampled using sampling(NUTS). For each parameter, Bulk\_ESS and Tail\_ESS are effective sample size measures, and Rhat is the potential scale reduction factor on split chains (at convergence, Rhat = 1).

```
>
```