

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(Exp1.model,ci=0.89)
Summary of Posterior Distribution
```

Parameter	Median	89% CI	pd	ROPE	% in ROPE	Rhat	ESS
(Intercept)	-0.08	[-0.32, 0.15]	71.64%	[-0.10, 0.10]	46.07%	1.000	2208.00
ItemType1	2.71	[2.40, 3.01]	100%	[-0.10, 0.10]	0%	1.001	3499.00
Similarity1	0.06	[-0.20, 0.32]	65.12%	[-0.10, 0.10]	44.12%	1.000	3659.00
Similarity2	-0.55	[-0.77, -0.33]	100%	[-0.10, 0.10]	0%	1.001	2941.00
ItemType1:Similarity1	-0.13	[-0.67, 0.39]	66.08%	[-0.10, 0.10]	23.22%	1.000	3887.00
ItemType1:Similarity2	-1.70	[-2.14, -1.24]	100%	[-0.10, 0.10]	0%	1.000	3277.00

```
>
>
>
> summary(Exp1.model,prob=0.89)
Family: bernoulli
Links: mu = probit
Formula: Sameness ~ ItemType * Similarity + (1 + ItemType * Similarity | Participant) + (1 | Item)
Data: Exp1 (Number of observations: 8759)
Draws: 4 chains, each with iter = 4000; warmup = 1000; thin = 1;
       total post-warmup draws = 12000
```

Group-Level Effects:

```
~Item (Number of levels: 400)
      Estimate Est.Error 1-89% CI u-89% CI Rhat Bulk_ESS Tail_ESS
sd(Intercept)    0.99    0.05    0.92    1.07 1.00    3257    6170
```

```
~Participant (Number of levels: 22)
      Estimate Est.Error 1-89% CI u-89% CI Rhat Bulk_ESS Tail_ESS
```

sd(Intercept)	0.62	0.11	0.47	0.82	1.00	3756	6001
sd(ItemType1)	0.66	0.11	0.51	0.86	1.00	4719	7019
sd(Similarity1)	0.15	0.09	0.02	0.30	1.00	4529	4777
sd(Similarity2)	0.20	0.06	0.10	0.30	1.00	6515	5147
sd(ItemType1:Similarity1)	0.20	0.14	0.02	0.45	1.00	6377	6648
sd(ItemType1:Similarity2)	0.58	0.13	0.40	0.79	1.00	8358	9687
cor(Intercept, ItemType1)	-0.08	0.20	-0.39	0.25	1.00	5580	7663
cor(Intercept, Similarity1)	0.19	0.32	-0.37	0.68	1.00	17743	8912
cor(ItemType1, Similarity1)	-0.23	0.31	-0.69	0.31	1.00	14582	9207
cor(Intercept, Similarity2)	0.34	0.26	-0.11	0.71	1.00	13927	9514
cor(ItemType1, Similarity2)	-0.42	0.24	-0.76	-0.01	1.00	11705	10232
cor(Similarity1, Similarity2)	0.01	0.35	-0.54	0.57	1.00	7242	8927
cor(Intercept, ItemType1:Similarity1)	-0.10	0.35	-0.64	0.49	1.00	22246	9104
cor(ItemType1, ItemType1:Similarity1)	-0.22	0.35	-0.72	0.40	1.00	17071	9162
cor(Similarity1, ItemType1:Similarity1)	0.02	0.37	-0.58	0.61	1.00	14220	10619
cor(Similarity2, ItemType1:Similarity1)	0.08	0.36	-0.52	0.63	1.00	14362	10008
cor(Intercept, ItemType1:Similarity2)	0.26	0.23	-0.13	0.60	1.00	9951	9669
cor(ItemType1, ItemType1:Similarity2)	-0.72	0.15	-0.91	-0.45	1.00	9964	10298
cor(Similarity1, ItemType1:Similarity2)	0.17	0.32	-0.38	0.66	1.00	8860	9202
cor(Similarity2, ItemType1:Similarity2)	0.59	0.22	0.20	0.88	1.00	9764	9577
cor(ItemType1:Similarity1, ItemType1:Similarity2)	0.03	0.35	-0.54	0.60	1.00	11964	9824

Population-Level Effects:

	Estimate	Est.Error	l-89% CI	u-89% CI	Rhat	Bulk_ESS	Tail_ESS
Intercept	-0.08	0.15	-0.32	0.15	1.00	2207	4146
ItemType1	2.71	0.19	2.41	3.02	1.00	3513	6153
Similarity1	0.06	0.16	-0.20	0.33	1.00	3662	7095
Similarity2	-0.55	0.14	-0.76	-0.33	1.00	2961	5945
ItemType1:Similarity1	-0.13	0.33	-0.66	0.40	1.00	3902	6521
ItemType1:Similarity2	-1.70	0.29	-2.16	-1.25	1.00	3318	5491

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).

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