NES

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Model Results

Here is a nicely printed summary of my model results, showing the relationship between party ID, on a 1 through 7 scale, and ideology, also on a 1 through 7 scale. Although these are ordered categories, I treat both variables as continuous.

```
Median MAD_SD
(Intercept) 0.97 0.05
real_ideo 0.66 0.01

Auxiliary parameter(s):
    Median MAD_SD
sigma 1.90 0.01
```

It isn't the best thing I could imagine. I really want to figure out a way to add a caption. But it will do for now.

Instead of just printing the simple object, we could print its summary.

```
Model Info:
```

function: stan_glm

family: gaussian [identity] formula: partyid7 ~ real_ideo

algorithm: sampling

sample: 4000 (posterior sample size)
priors: see help('prior_summary')

observations: 16590 predictors: 2

Estimates:

mean sd 10% 50% 90% (Intercept) 0.97 0.05 0.90 0.97 1.03 real_ideo 0.66 0.01 0.65 0.66 0.68 sigma 1.90 0.01 1.88 1.90 1.91

Fit Diagnostics:

mean sd 10% 50% 90% mean_PPD 3.79 0.02 3.76 3.79 3.82

The mean_ppd is the sample average posterior predictive distribution of the outcome variable (for detai

MCMC diagnostics

mcse Rhat n_eff

```
(Intercept) 0.00 1.00 3799 real_ideo 0.00 1.00 4074 sigma 0.00 1.00 3651 mean_PPD 0.00 1.00 3470 log-posterior 0.03 1.00 1769
```

For each parameter, mcse is Monte Carlo standard error, n_eff is a crude measure of effective sample signs But that adds a bunch of junk, including run-off-the-page text. Maybe there are options in something like print.stanmvreg() which might be helpful.