STAT440 Project Appendix

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Visual Tests

Here, we'll perform some visual tests allowing the user to ensure that stat440pkg is returning sane results.

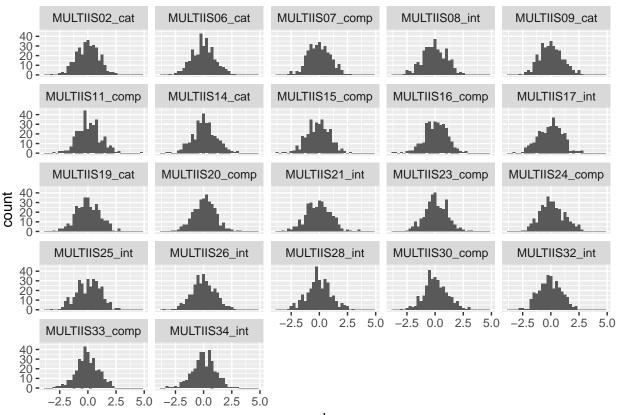
gen.imp.resp

Let's make sure gen.imp.resp is returning somewhat normally-distributed data.

```
library(stat440pkg)
library(tidyr)
library(ggplot2)

imp.resp <- gen.imp.resp(data = multiis, num.iter = 5)
gathered.data <- gather(imp.resp)
p <- ggplot(gathered.data) +
    geom_histogram(aes(x = value), binwidth = 0.25) +
    facet_wrap(~ key)

plot(p)</pre>
```



value

gen.latent.vars

Let's make sure gen.latent.vars is returning somewhat normally-distributed data.

