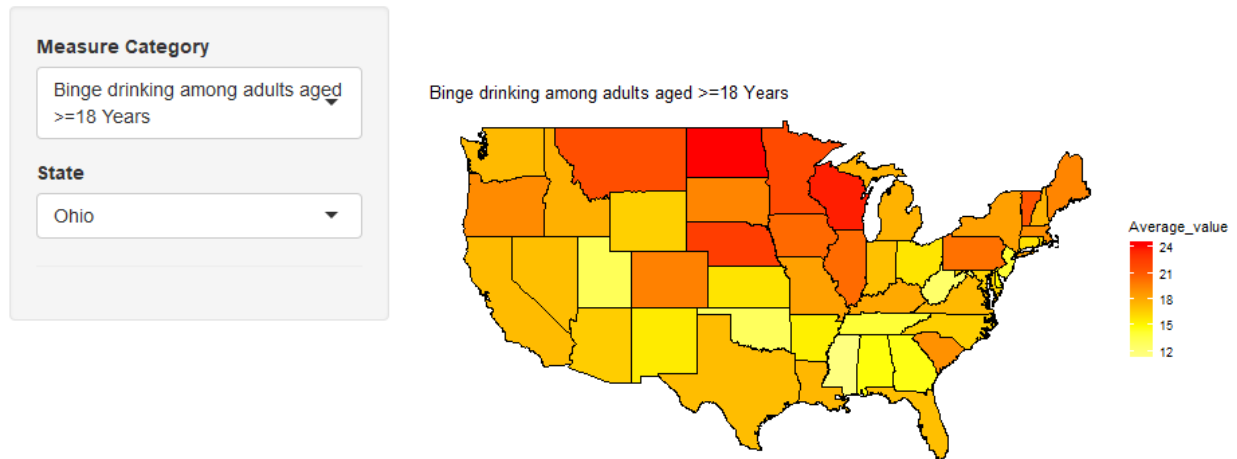


Appendix: Shiny app user interface

Github repository for source code: https://github.com/mingjiezhao/500_cities_for_better_health

The 500 Cities Project: Local data for better health



Between state vs Within state

Based on the random intercept model, between-state variation accounts for 60.69 % of total variance

Between state vs Within state

Based on the random intercept model, between-state variation accounts for 60.69 % of total variance

Model Summary

```
Linear mixed model fit by REML ['lmerMod']
Formula: Data_Value ~ (1 | StateDesc)
Data: dft
```

REML criterion at convergence: 2192.8

Scaled residuals:

	Min	1Q	Median	3Q	Max
	-2.47887	-0.64653	0.00267	0.58964	2.98688

Random effects:

Groups	Name	Variance	Std.Dev.
StateDesc	(Intercept)	5.788	2.406
Residual		3.749	1.936

Number of obs: 500, groups: StateDesc, 51

Fixed effects:

	Estimate	Std. Error	t value
(Intercept)	17.4122	0.3671	47.44

Comparison of density for selected variable with mental and physical health

Selected state: Ohio



Comparison of density for selected variable with mental and physical health

Nationwide

