rethinking generates Stan code

```
data{
   vector[352] y;
    vector[352] x;
parameters{
    real a;
    real<lower=0> b;
    real<lower=0> sigma;
model{
    vector[352] mu;
    sigma ~ exponential( 1 );
    b ~ lognormal( 0 , 1 );
    a ~ normal( 0 , 20 );
    for ( i in 1:352 ) {
        mu[i] = a + b * x[i];
    y ~ normal( mu , sigma );
```

```
https://mc-stan.org/
Stan Dev
https://github.com/stan-dev/stan
```

Sampler arguments

- Chains: fit the model several times
- Cores: do the fits in parallel
- Iterations: how many total samples
- Warm-up (or burn-in): starting samples that get discarded

Model summary

Chains and convergence

