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library(rstan)

data(mtcars)

model_string <- "
data {
  int<lower=0> N;
  int<lower=0> p;
  vector[N] y;
  matrix[N, p] x;
}
parameters {
  vector[p] beta;
  real<lower=0> sigma;
}
model {
  beta[1] ~ normal(100, 1);
  y ~ normal(x * beta, sigma);
}
"

cars.data <- with(mtcars,
  list(y = mpg, x = cbind(rep(1, length(mpg)), hp, cyl, wt),
    N = length(mpg), p = 4))

sampler <- stan_model(model_code = model_string, model_name = "lm")
samps <- sampling(sampler, chains = 4, iter = 2000, data = cars.data)

```

```

library(QuantileEquivalenceMCMC)

## Loading required package: coda
##
## Attaching package: 'coda'
## The following object is masked from 'package:rstan':
##
##   traceplot

qed(samps, prob = 0.95, epsilon = 0.05, pars = "beta[1]")

## [1] 1

```

```

qeplot(samps, prob = 0.95, pars = "beta[1]")

```

