Gamma inference

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Sample

[1] "../outputs_up/jags_it10K_th3_n1000_un100_s3820.RData"

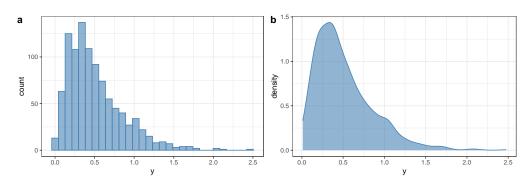


Figure 1: Histogram and density plot.

Gibbs parameters

alpha	beta	N sample	Chains	Thinning	Iterations	Adaptation	Final iter. no
2	4	1000	3	3	10000	10	3333

a, b, m, mo and v are the α and β parameters, the mean, the mode and the variance respectively.

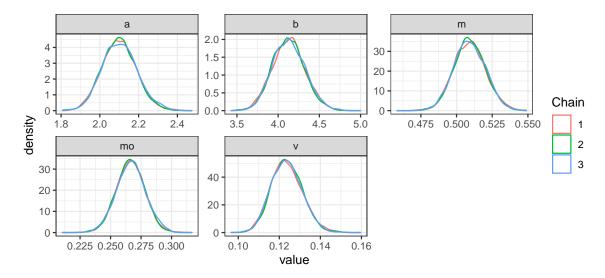


Figure 2: Posterior distributions densities for each parameter and in colors we show the chains.

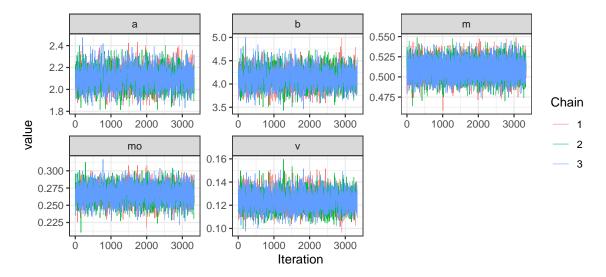


Figure 3: Traceplots for each parameter, in colors we show the chains.

Table 1: Summary statistics of the parameters posterior distributions.

	Mean	SD	R	Effective size
a	2.101	0.089	1.005	2114.739
b	4.129	0.196	1.005	2151.251
m	0.509	0.011	1.000	9595.886
mo	0.266	0.012	1.003	3327.636
v	0.124	0.008	1.003	2734.603

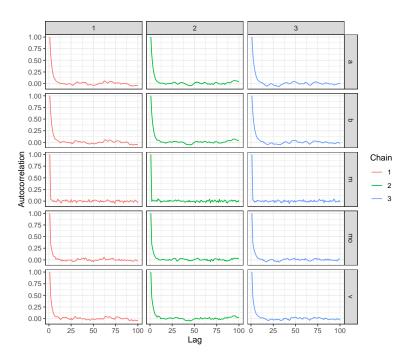


Figure 4: Autocorrelations vs lag.

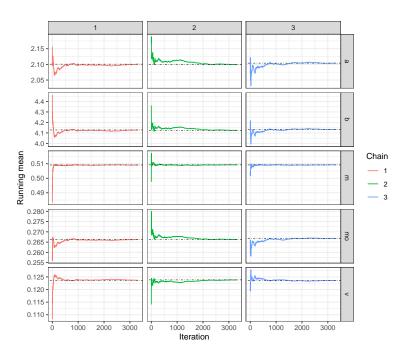


Figure 5: Estimates of the mean for each parameter and tranformations.

ML estimation

```
## shape rate
## 2.0948962 4.1130478
## (0.0872574) (0.1934562)
```