

mcmccheck

Moi Exposito-Alonso

2019-04-04

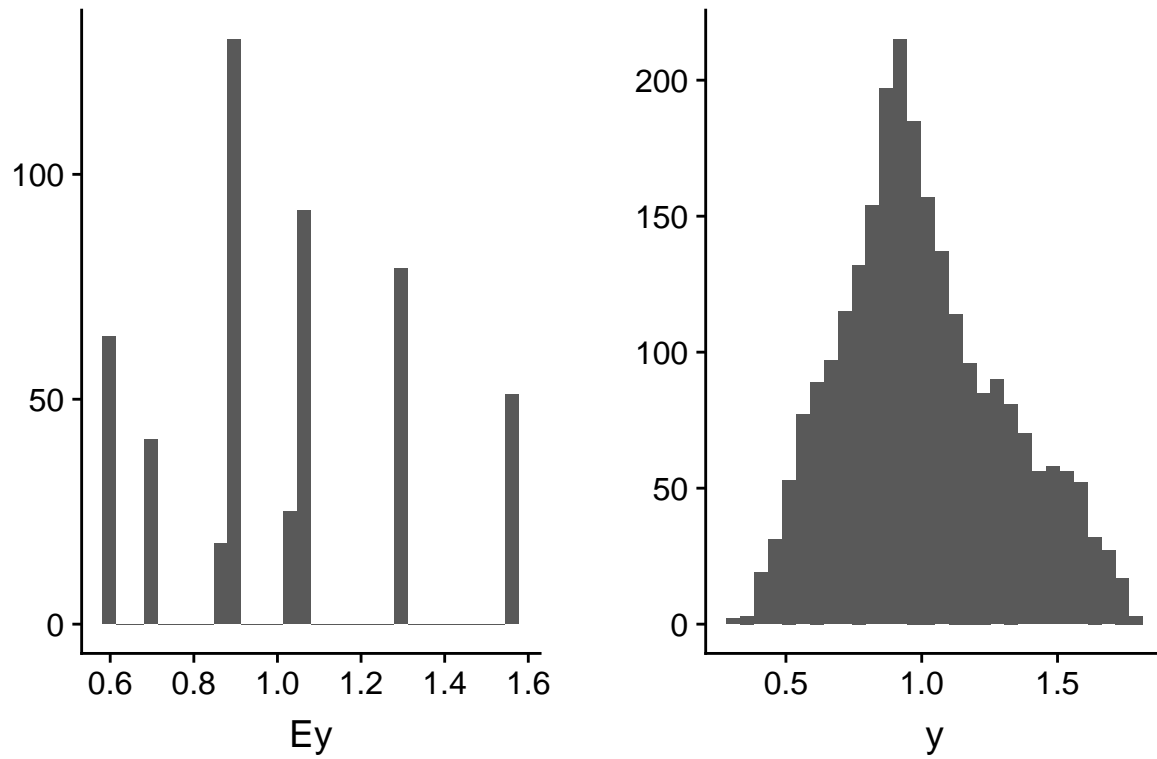
```
p=0
mu=1
svar=0.1
ss=0
epi=1
replicates=5
ss=0
n=500
m=3
maf=mafsim(m)
X <- Xsim(n,m,maf)
s= ssim(m,svar)
h=sort(rep.int(1:n,replicates))
Ey=wsim(X,s,mode=2)

a=0.1
b=0.001
y=sampleW(Ey,a,b,p,rep = replicates)

title <- ggdraw() + draw_label(paste("h2= ",format(var(Ey) / var(y),digits=2)),fontface = 'bold')
plot_grid(title,
  plot_grid(qplot(Ey),qplot(y)),
  ncol = 1, rel_heights = c(0.1, 1)
)

## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
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```

h2= 0.87

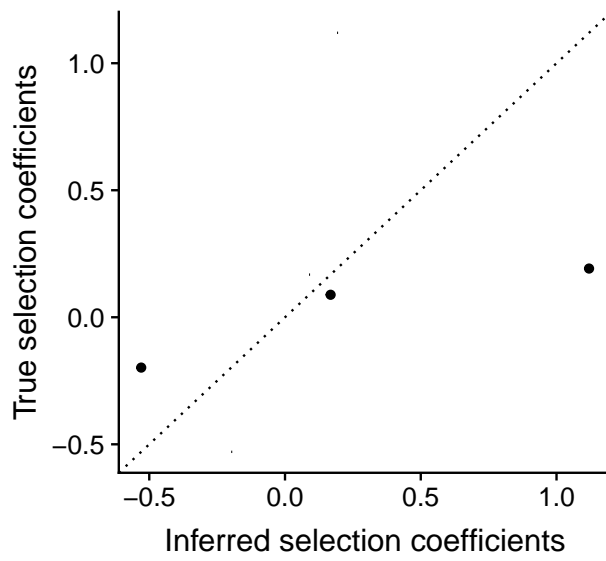


Simple run with higher baseline sampling variance

```
## Warning: Removed 1 rows containing missing values (geom_hline).  
## Warning: Removed 1 rows containing missing values (geom_vline).
```

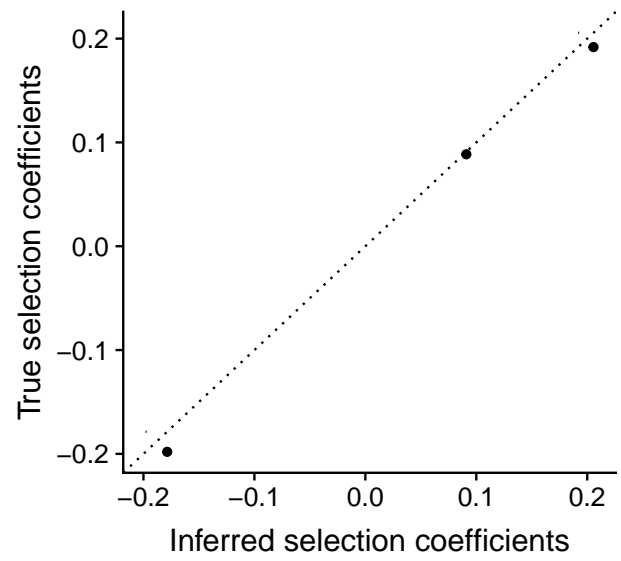
NAP

$$R^2 = 0.88, \beta = 0.229$$



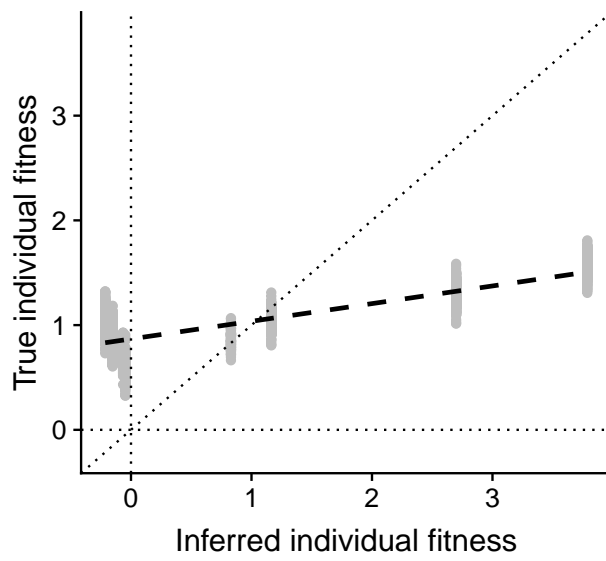
mGWA

$$R^2 = 0.999, \beta = 1.023$$



NAP

$$R^2 = 0.649, \beta = 0.169$$



mGWA

$$R^2 = 0.871, \beta = 1.007$$

