

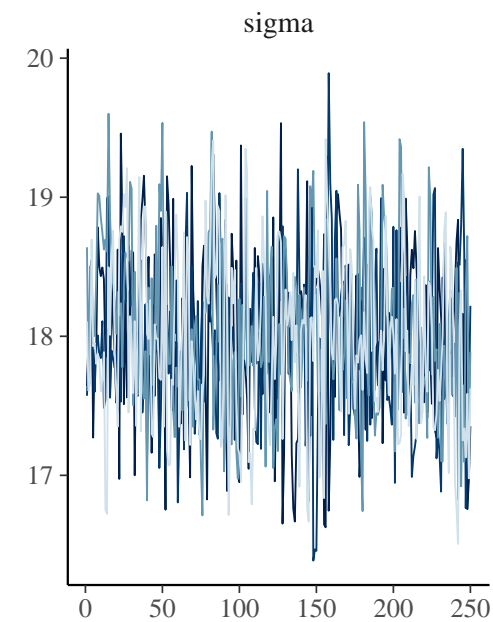
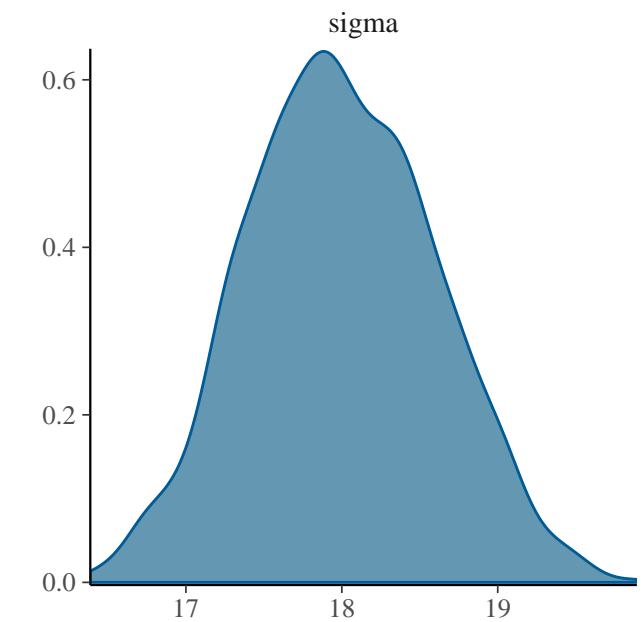
Chain

1

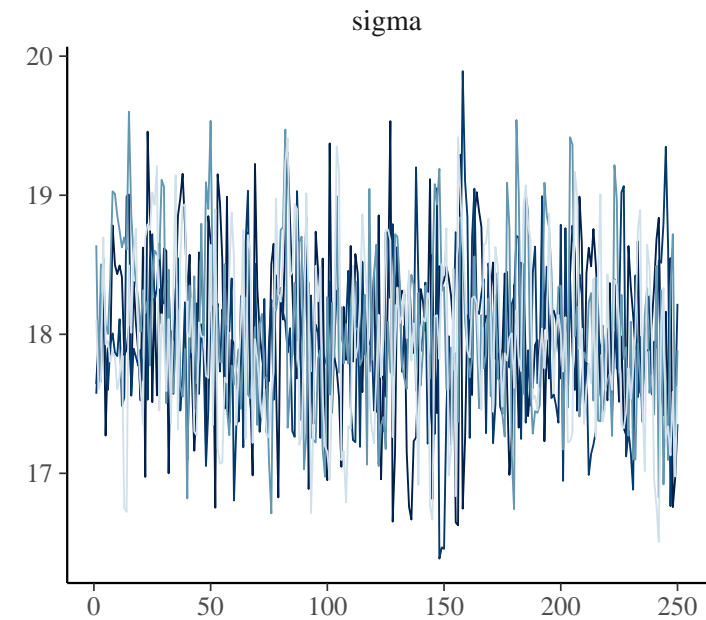
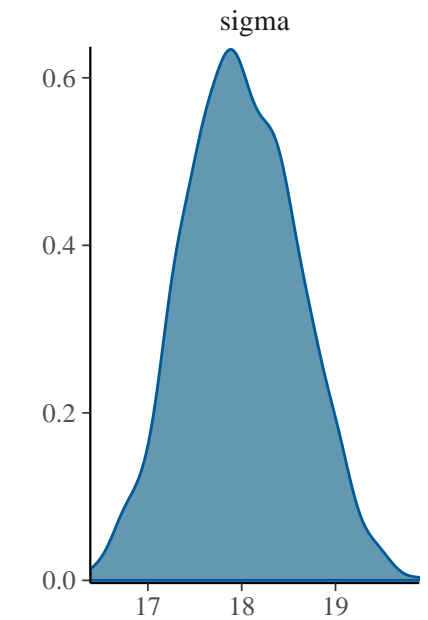
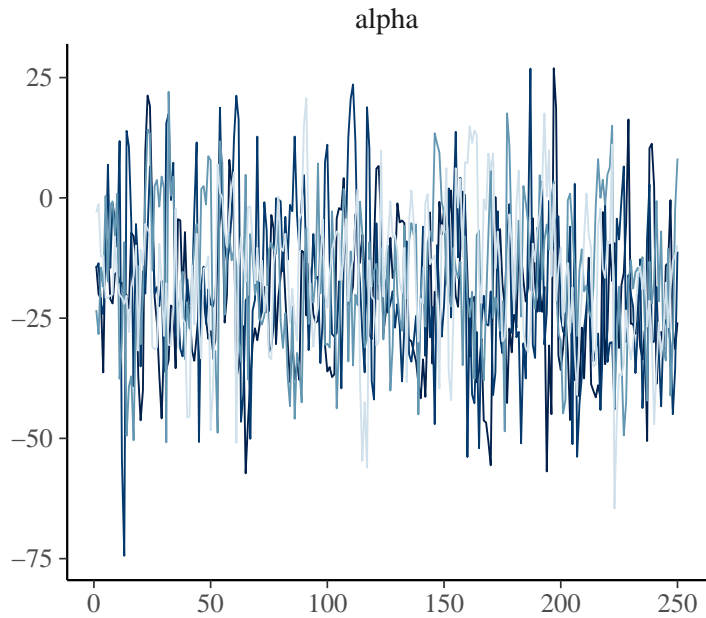
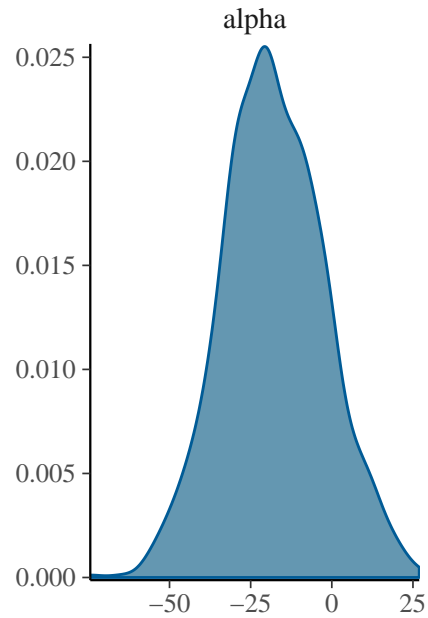
2

3

4



help("MCMC-combos")



Chain

1

2

3

4

help("MCMC-combos")

alpha

beta[1]

help("MCMC-diagnostics")

1

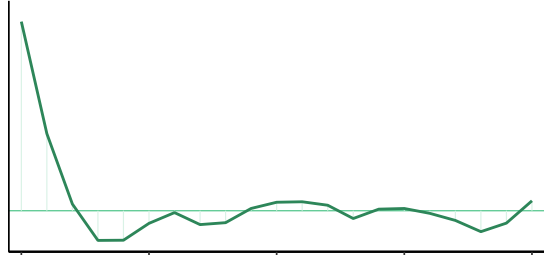
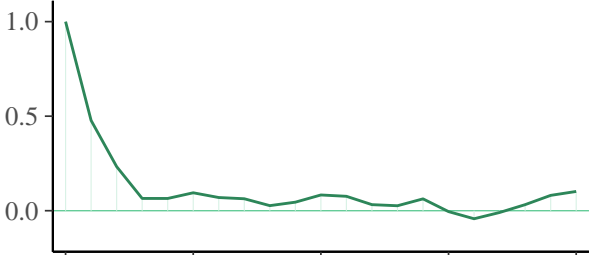
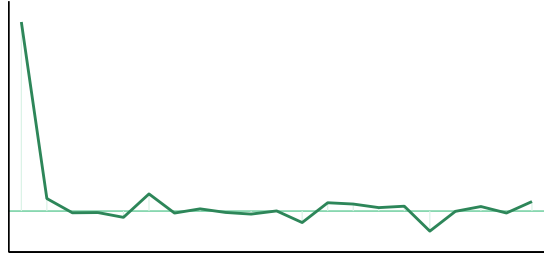
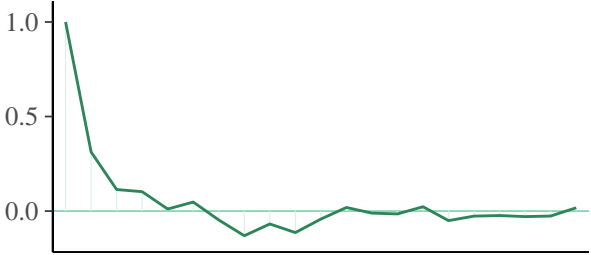
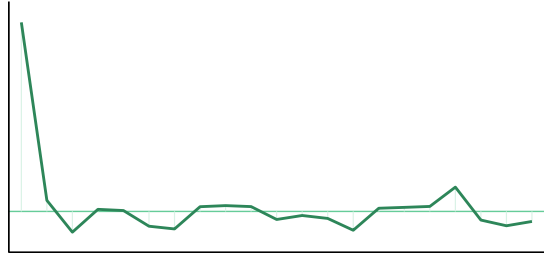
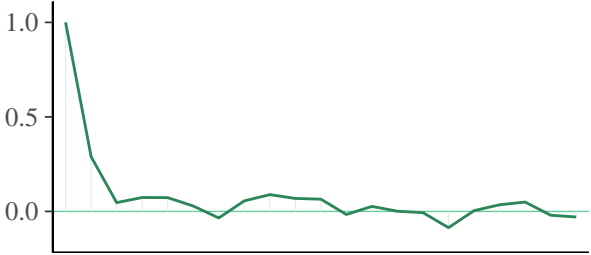
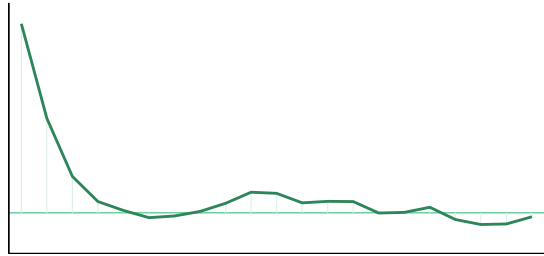
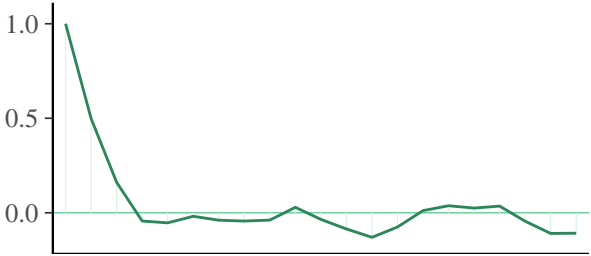
2

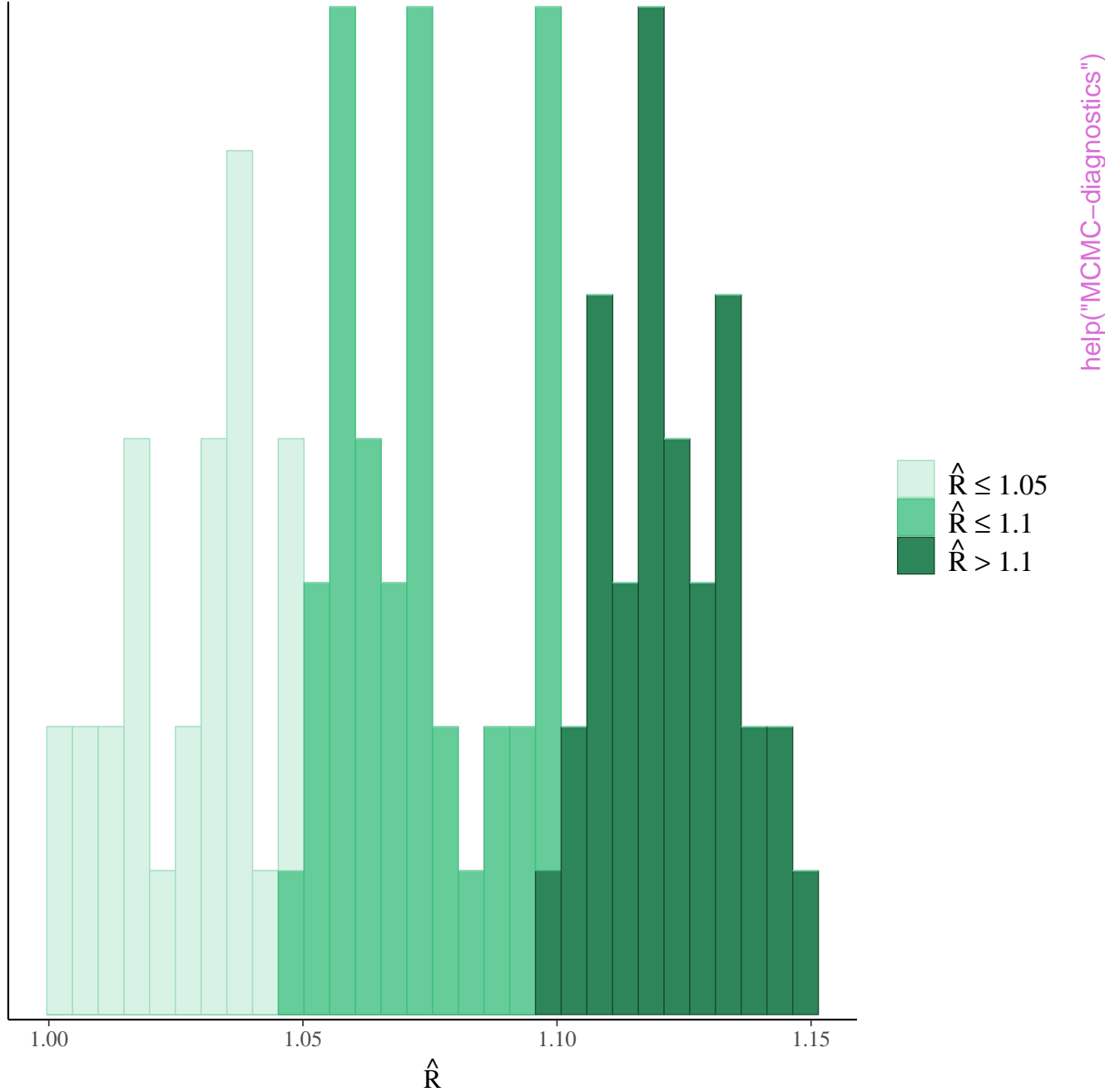
3

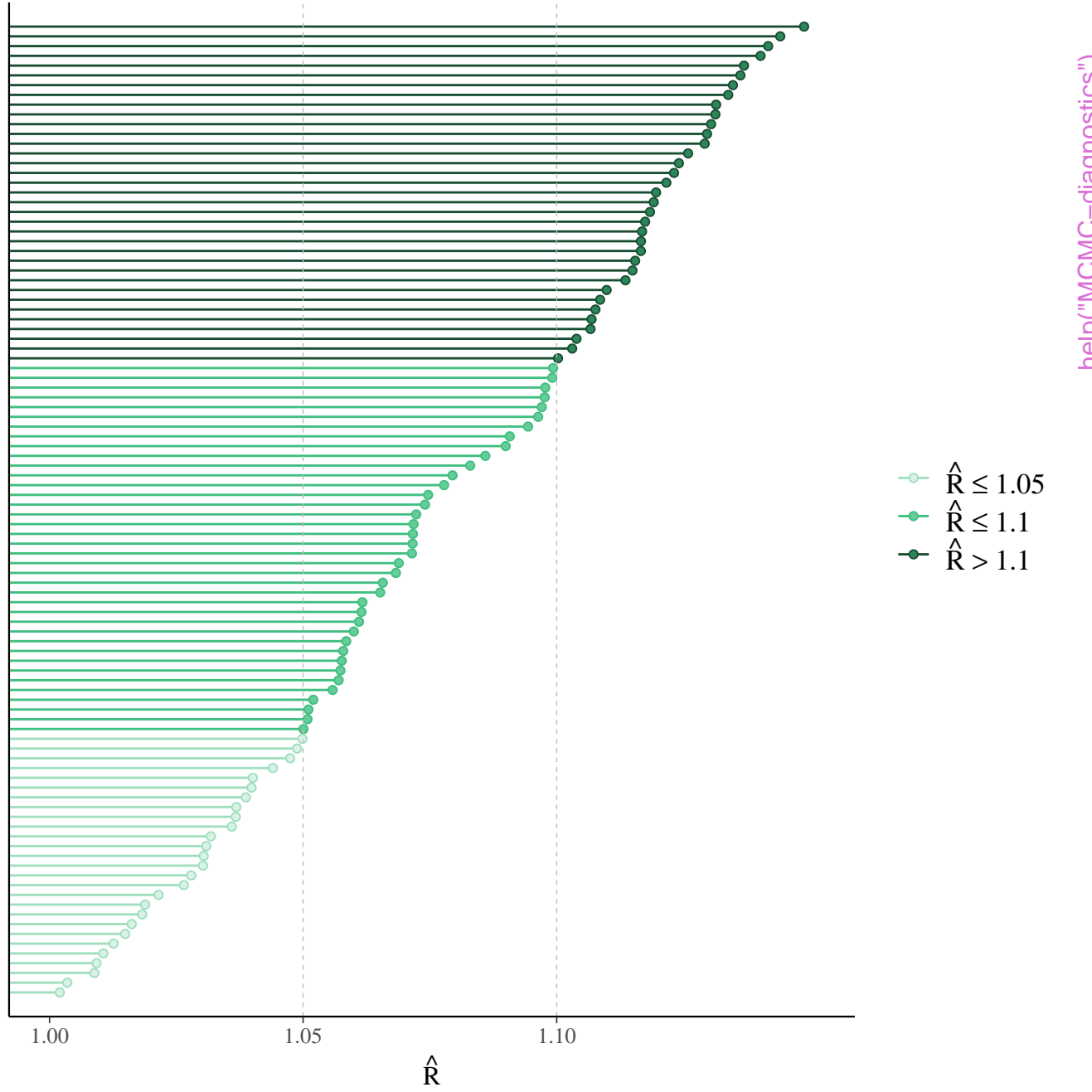
4

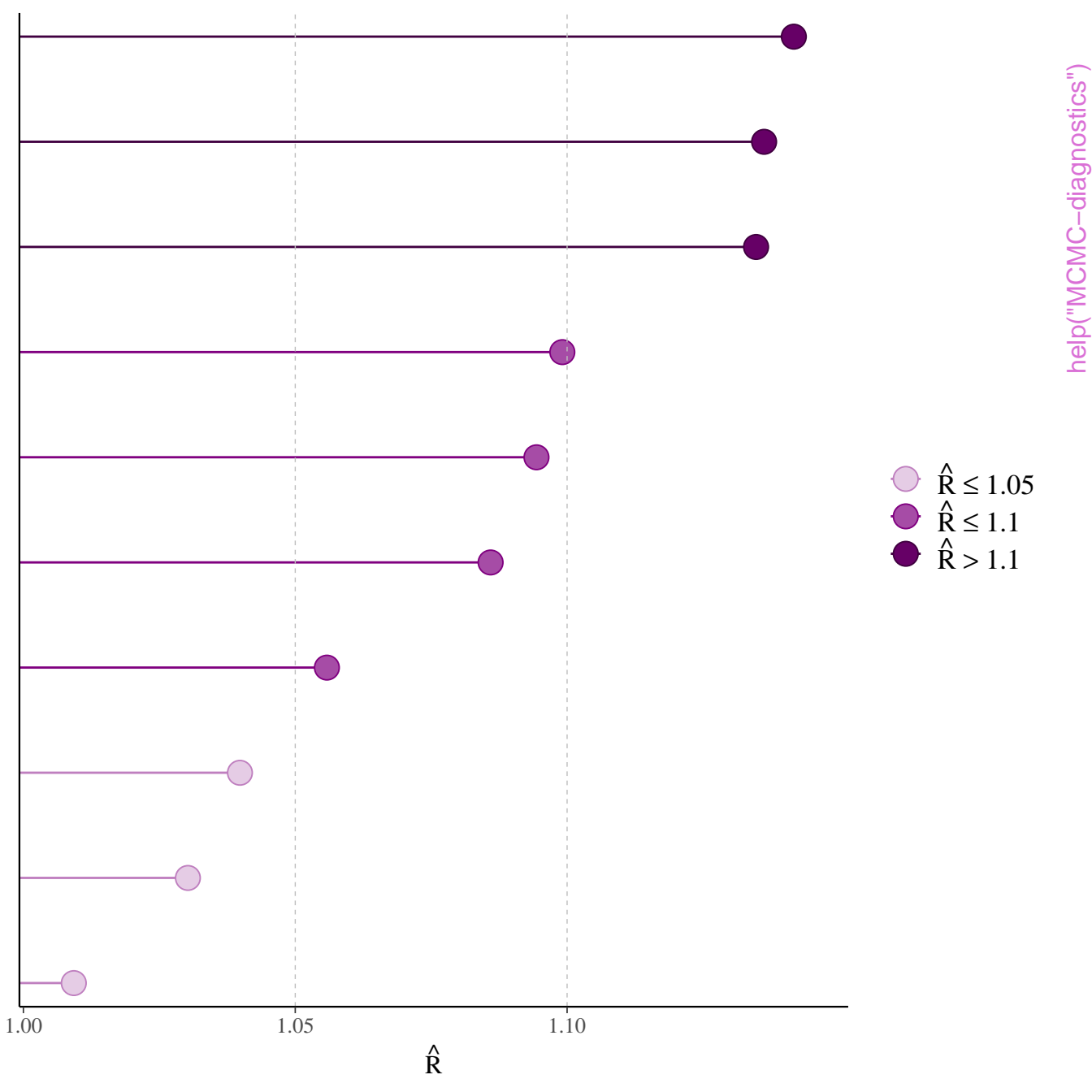
Autocorrelation

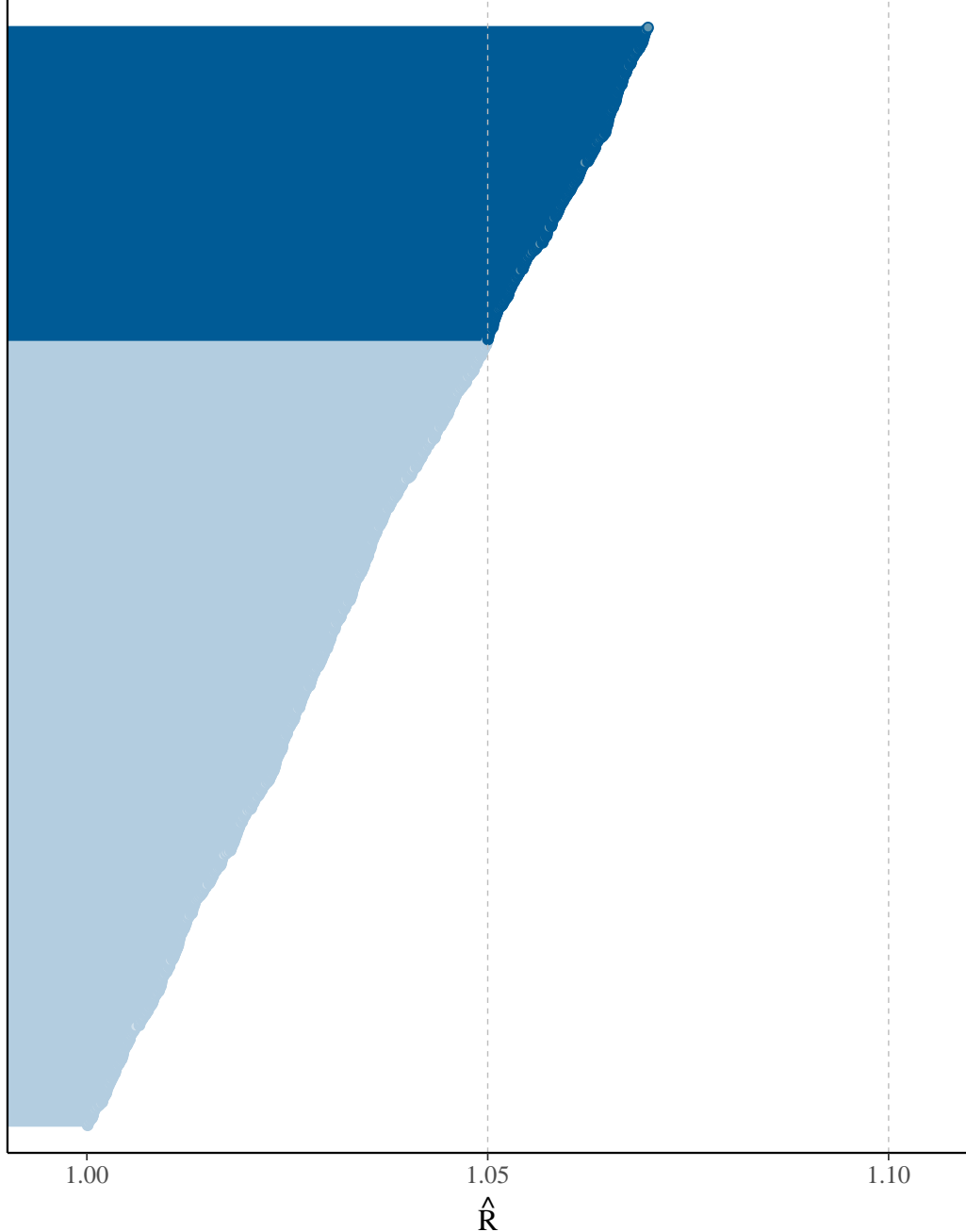
Lag







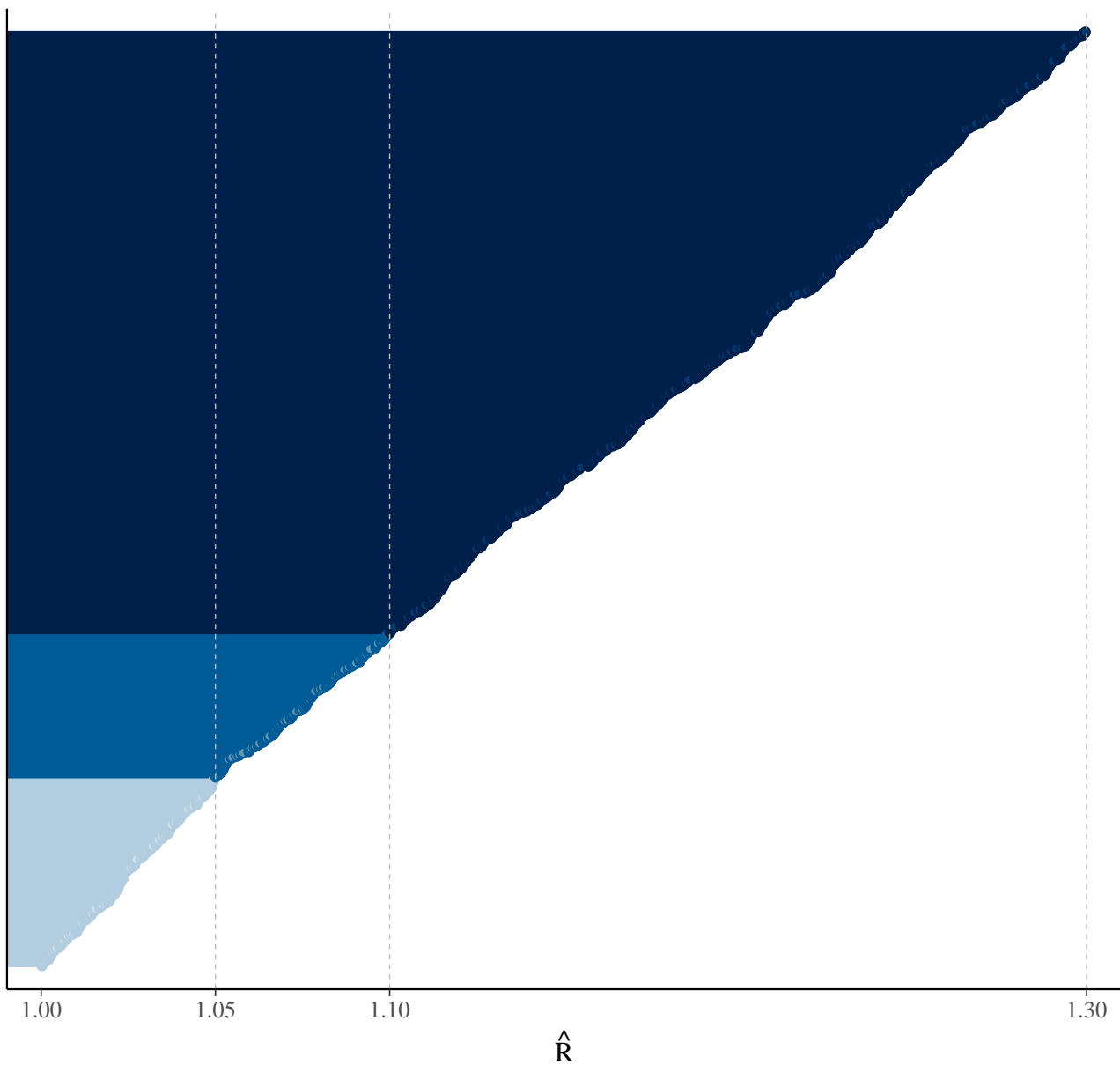




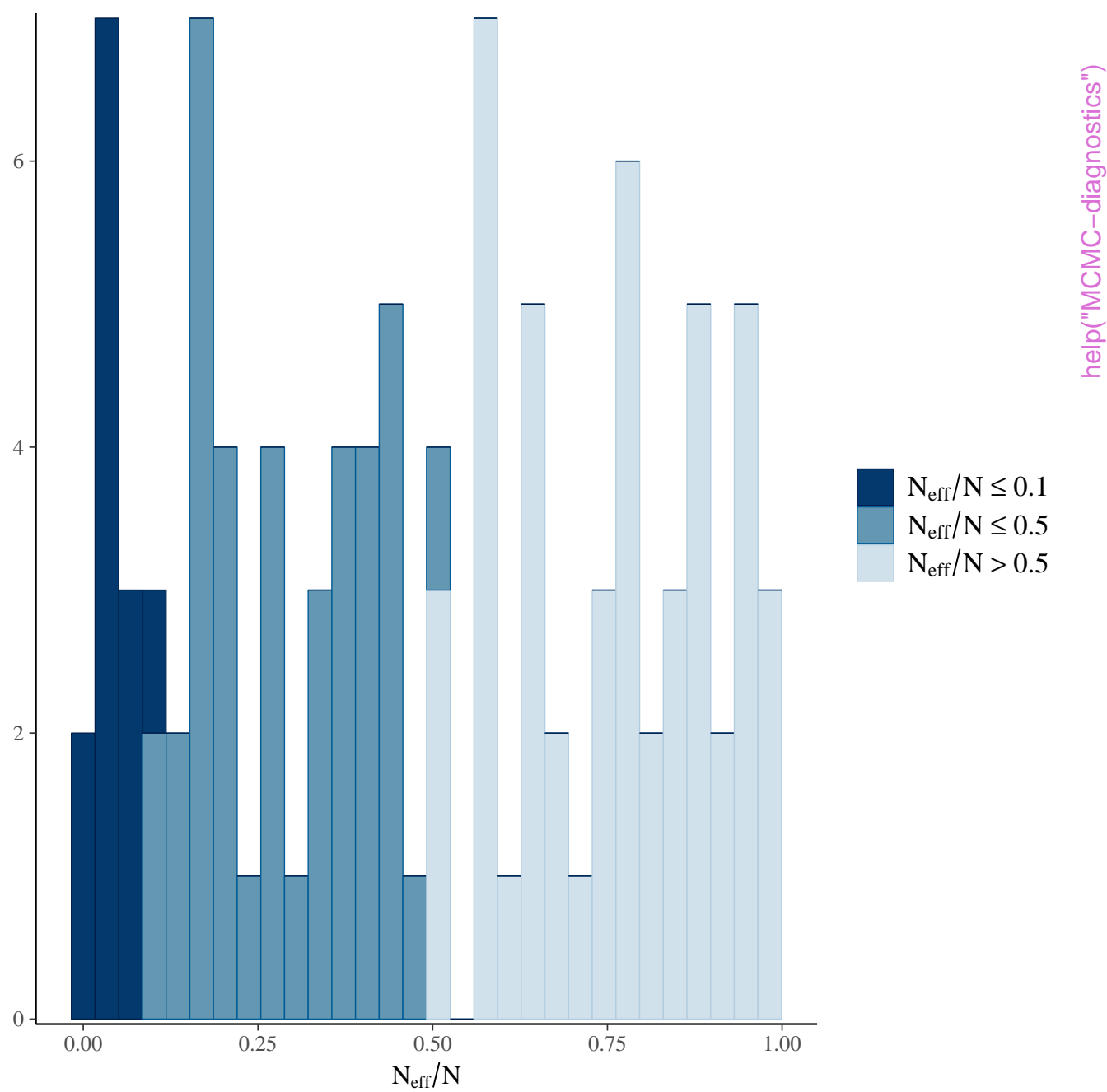
help("MCMC--diagnostics")

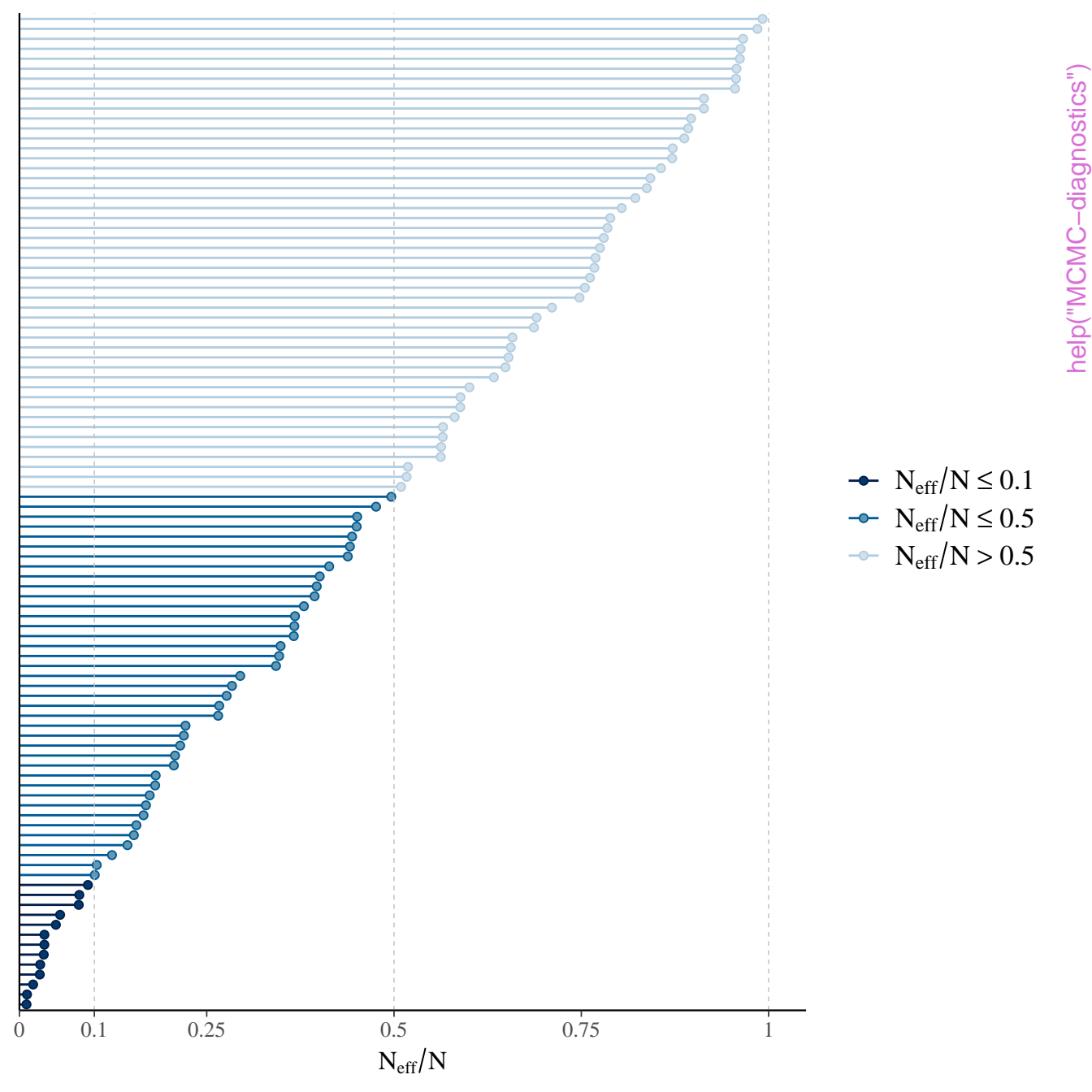


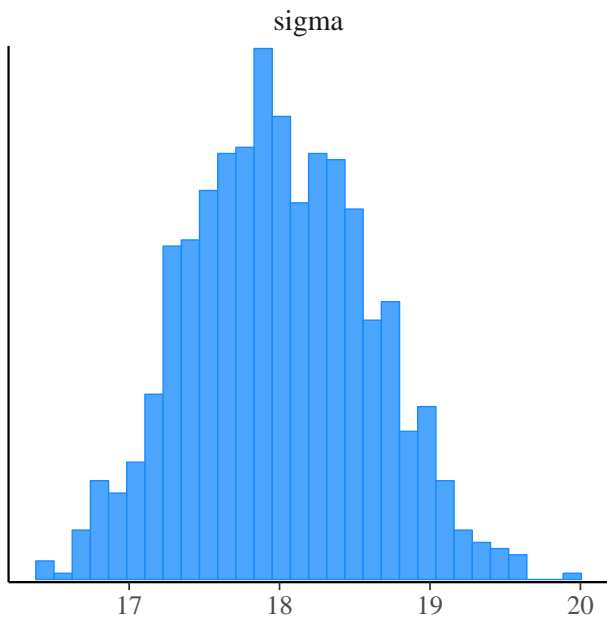
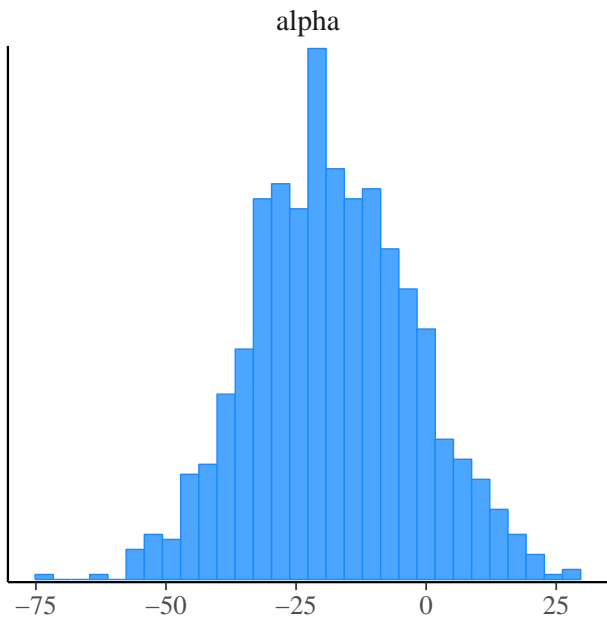
$\hat{R} \leq 1.05$   $\hat{R} \leq 1.1$   $\hat{R} > 1.1$



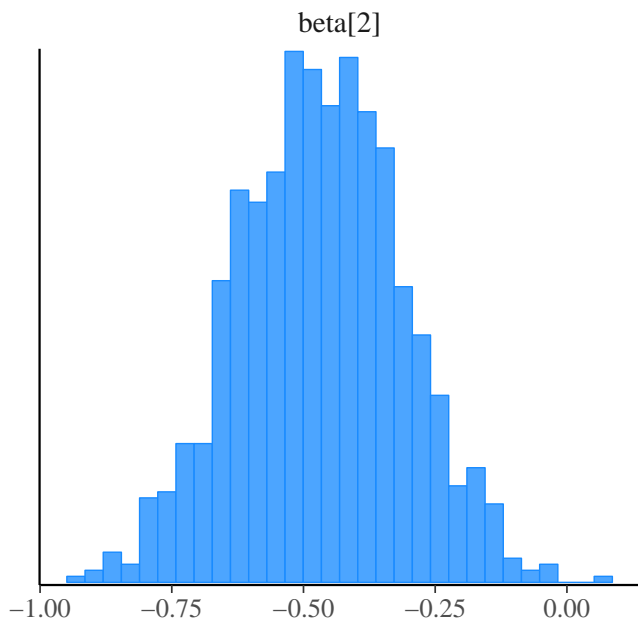
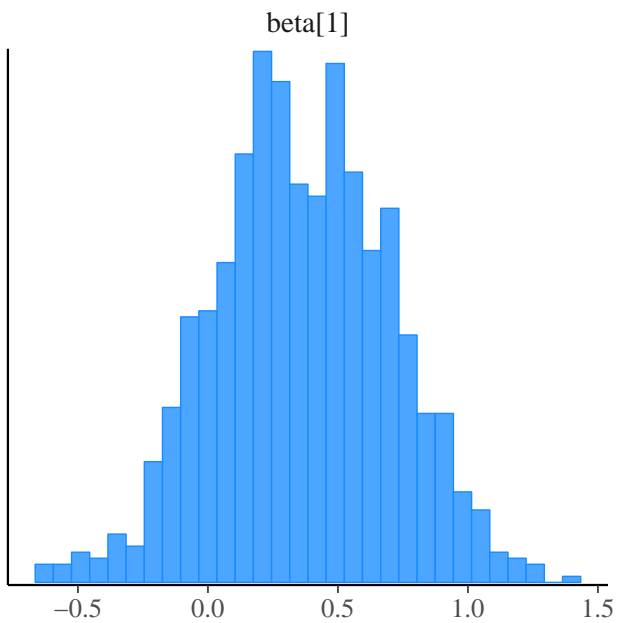
help("MCMC-diagnostics")



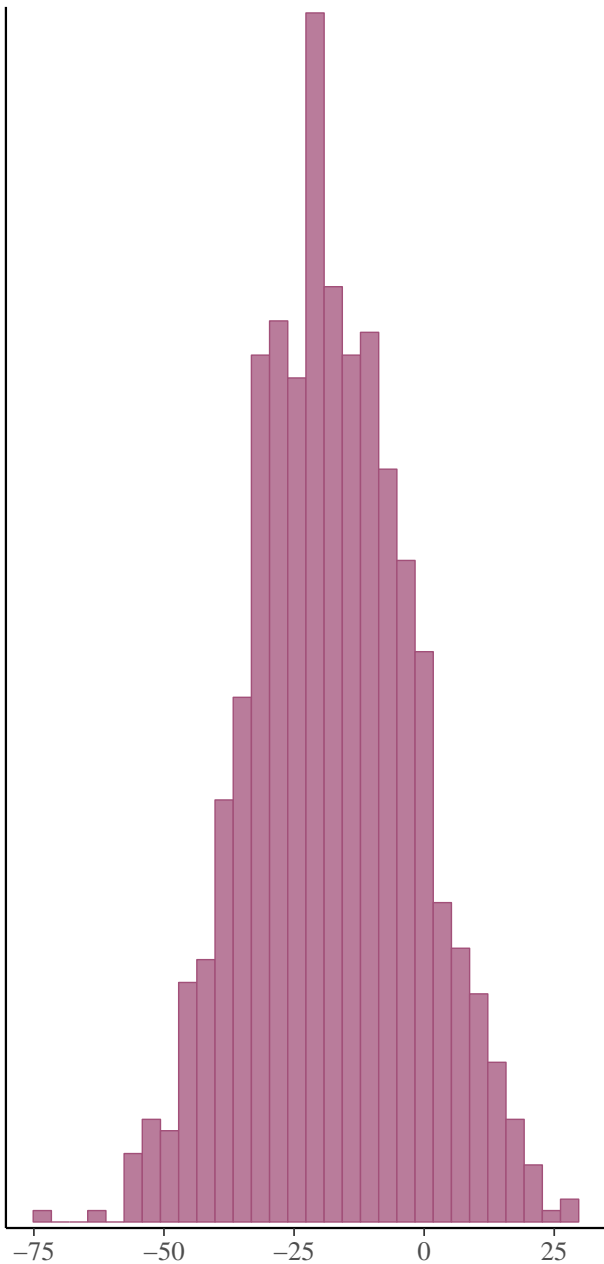




help("MCMC-distributions")



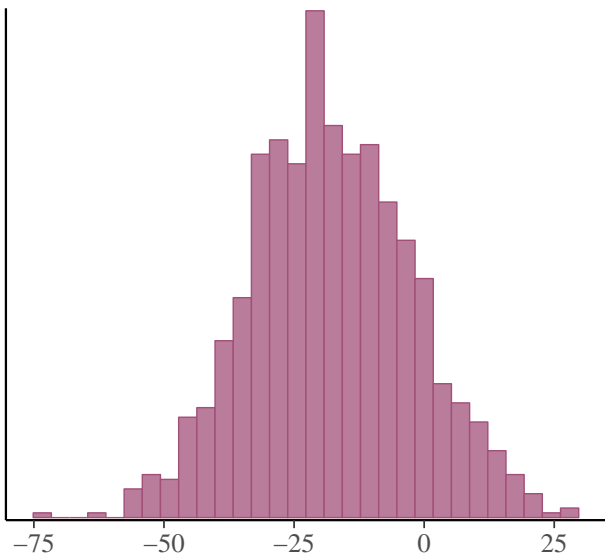
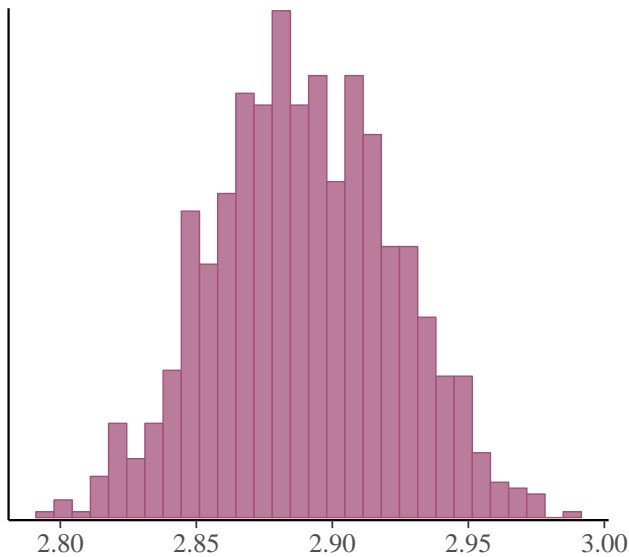
alpha



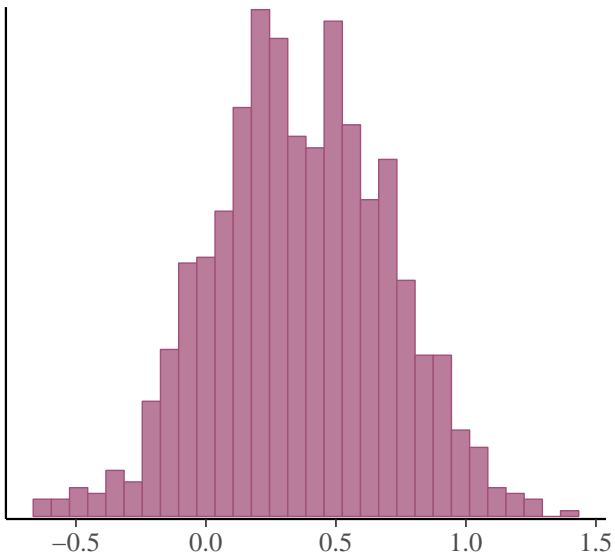
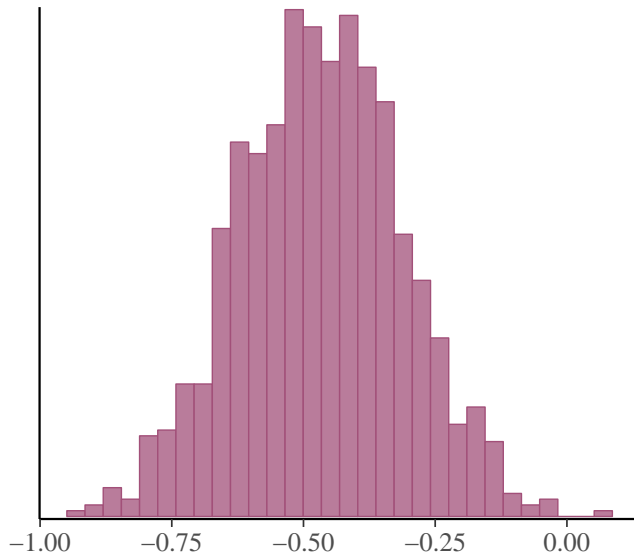
beta[2]

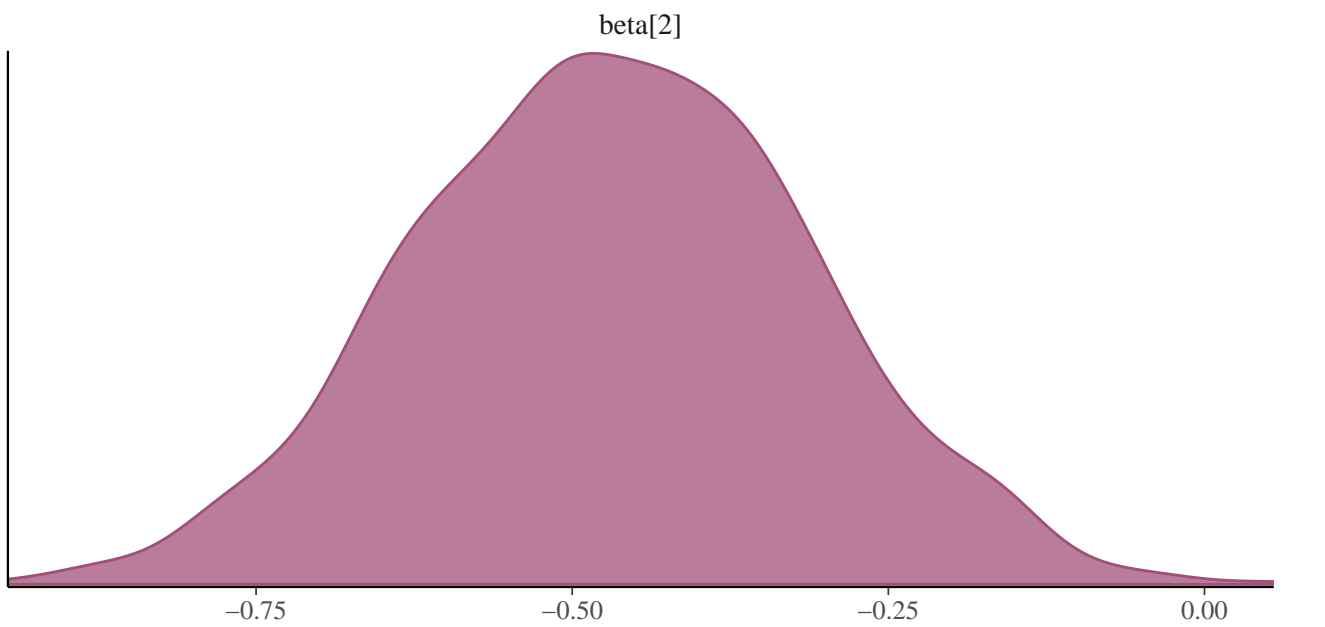
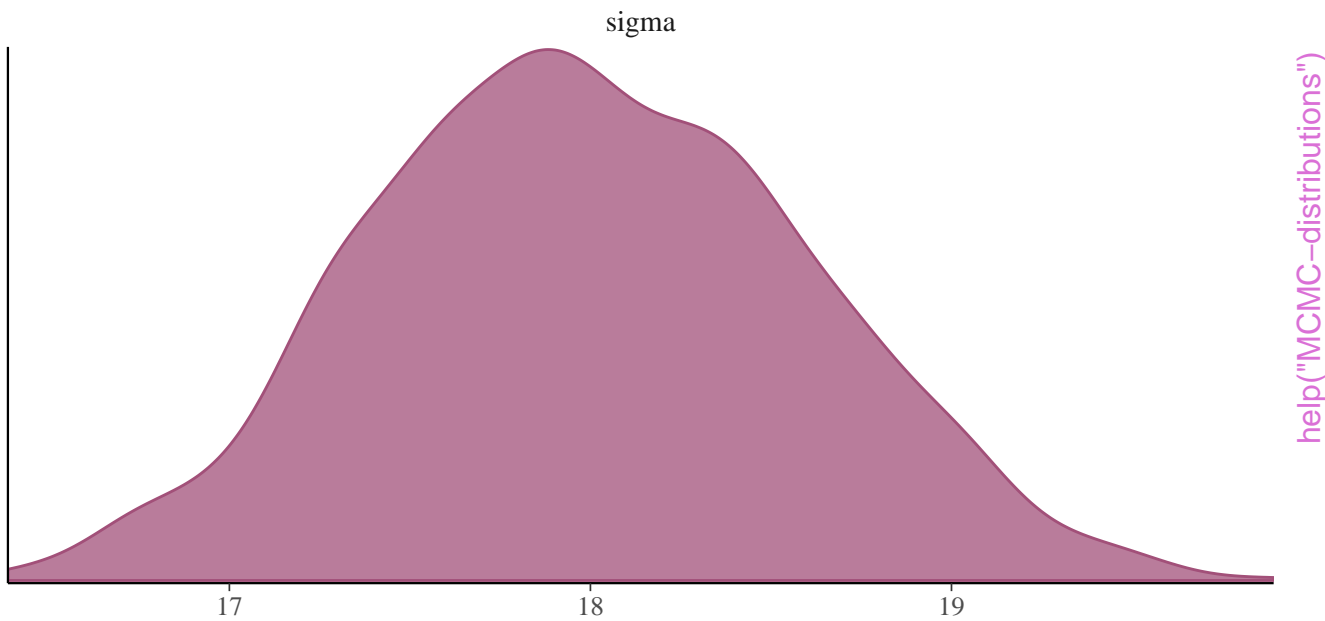


help("MCMC-distributions")

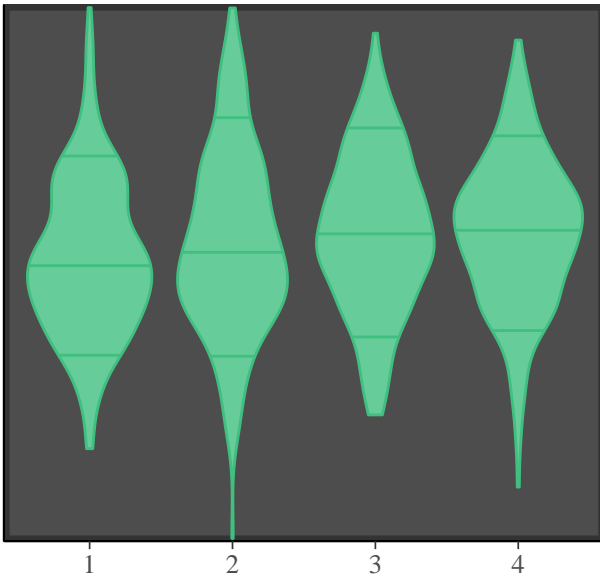
$\alpha$  $\log(\sigma)$ 

help("MCMC-distributions")

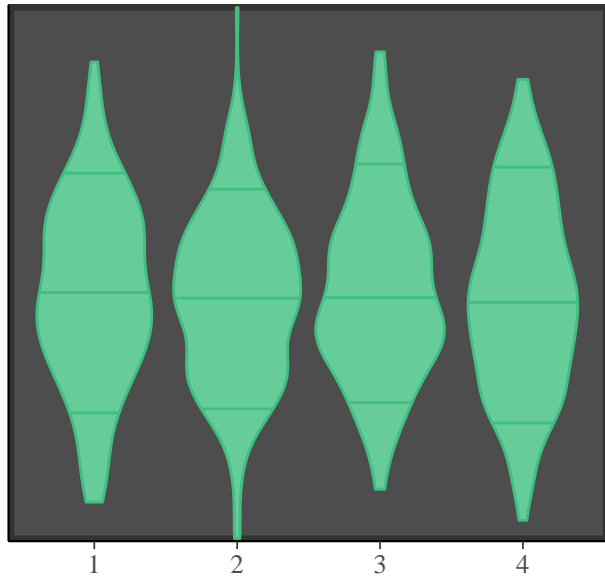
 $\beta_1$  $\beta_2$ 



alpha

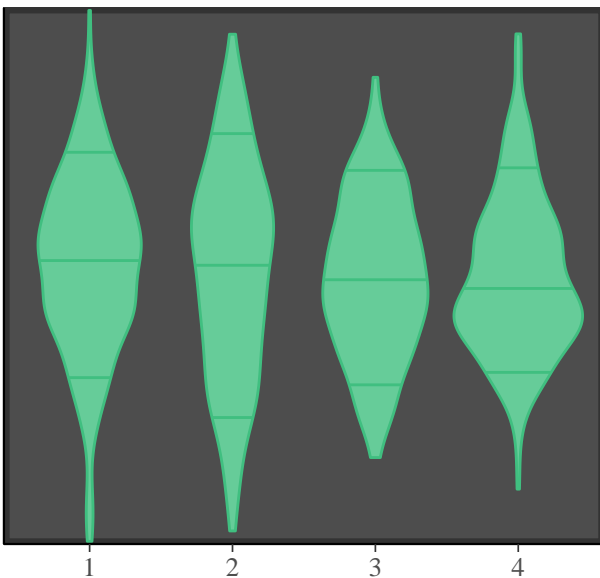


sigma

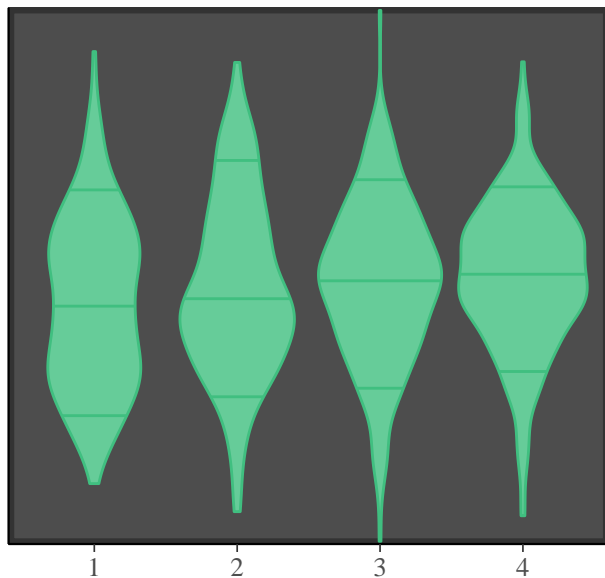


help("MCMC-distributions")

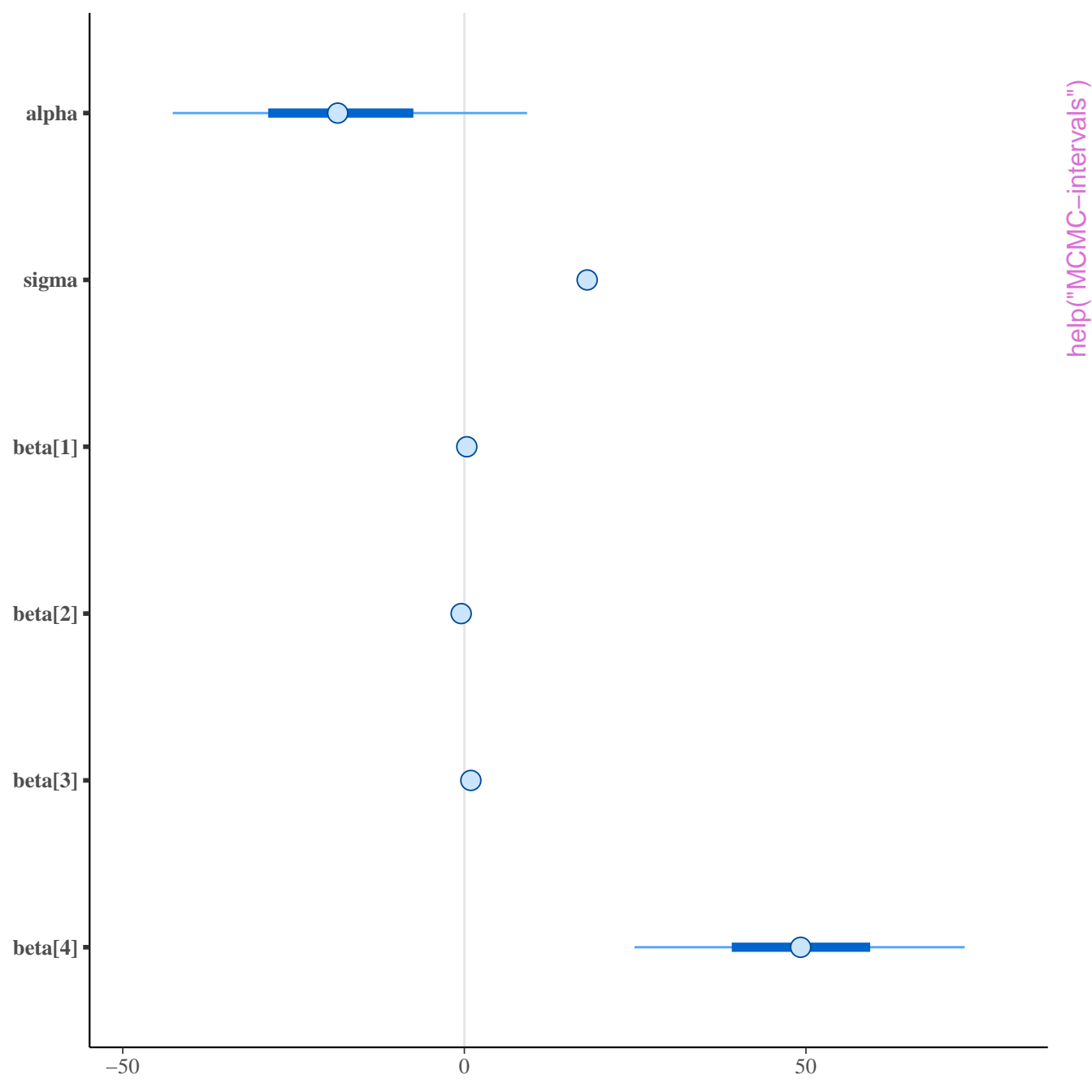
beta[1]



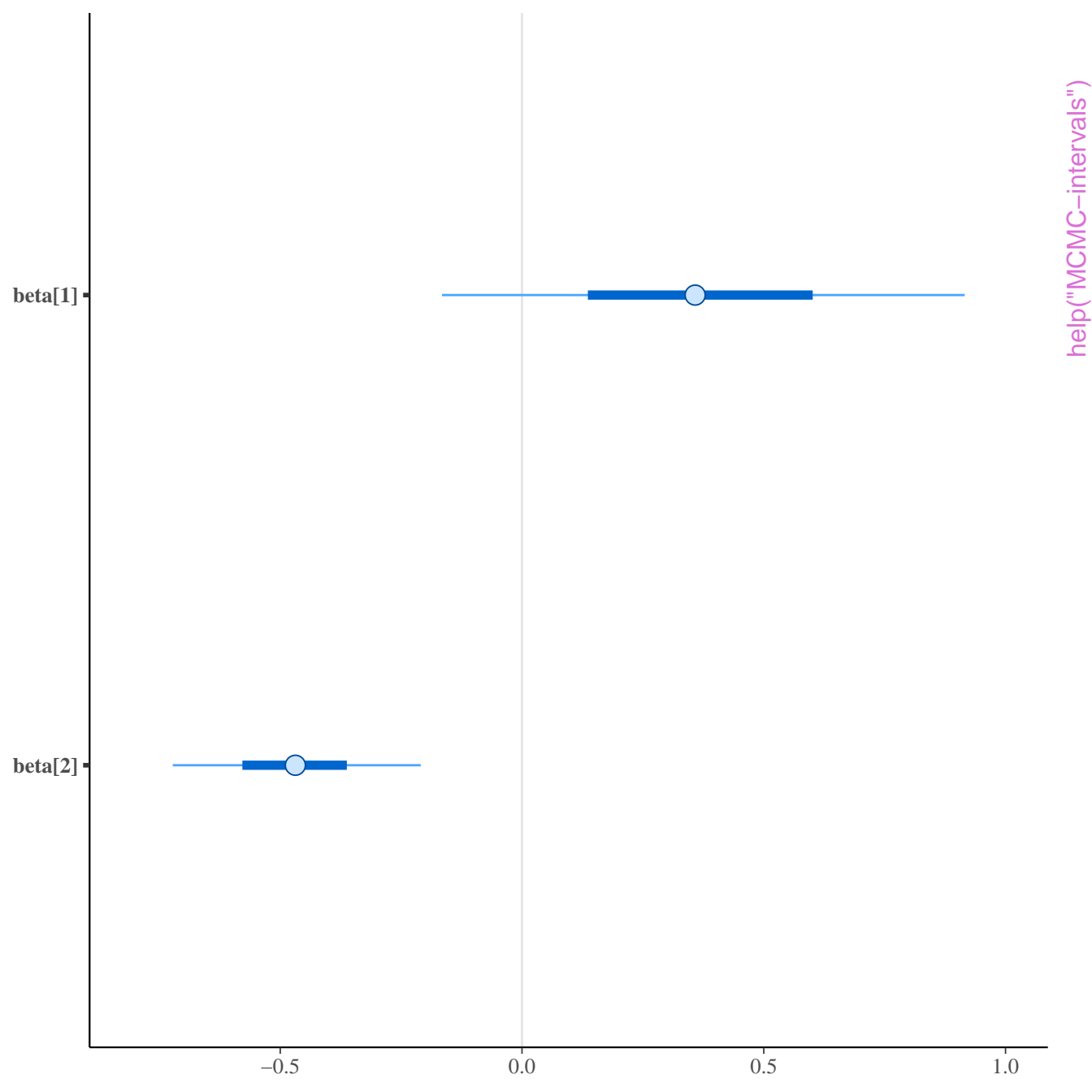
beta[2]



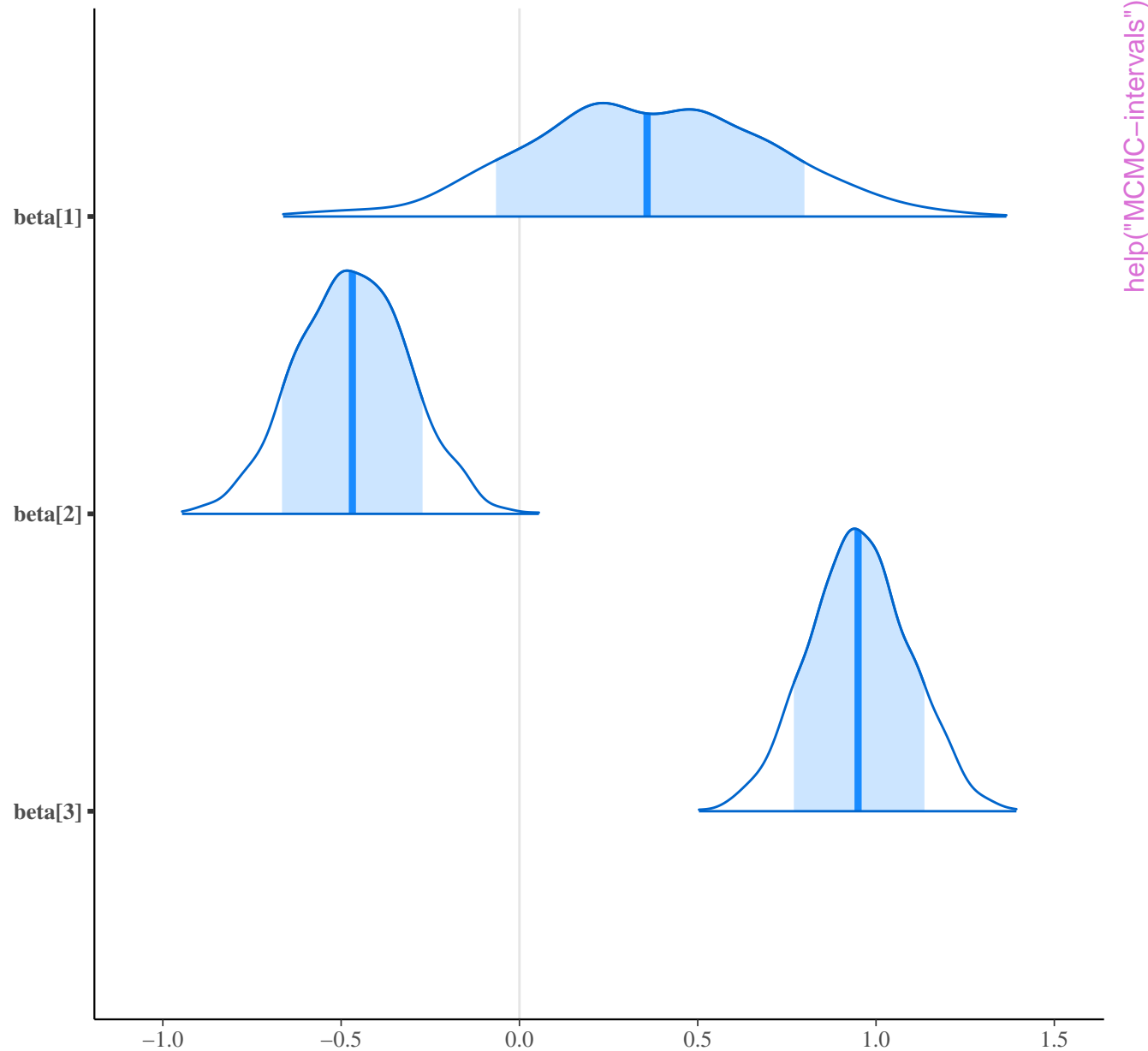




help("MCMC-intervals")



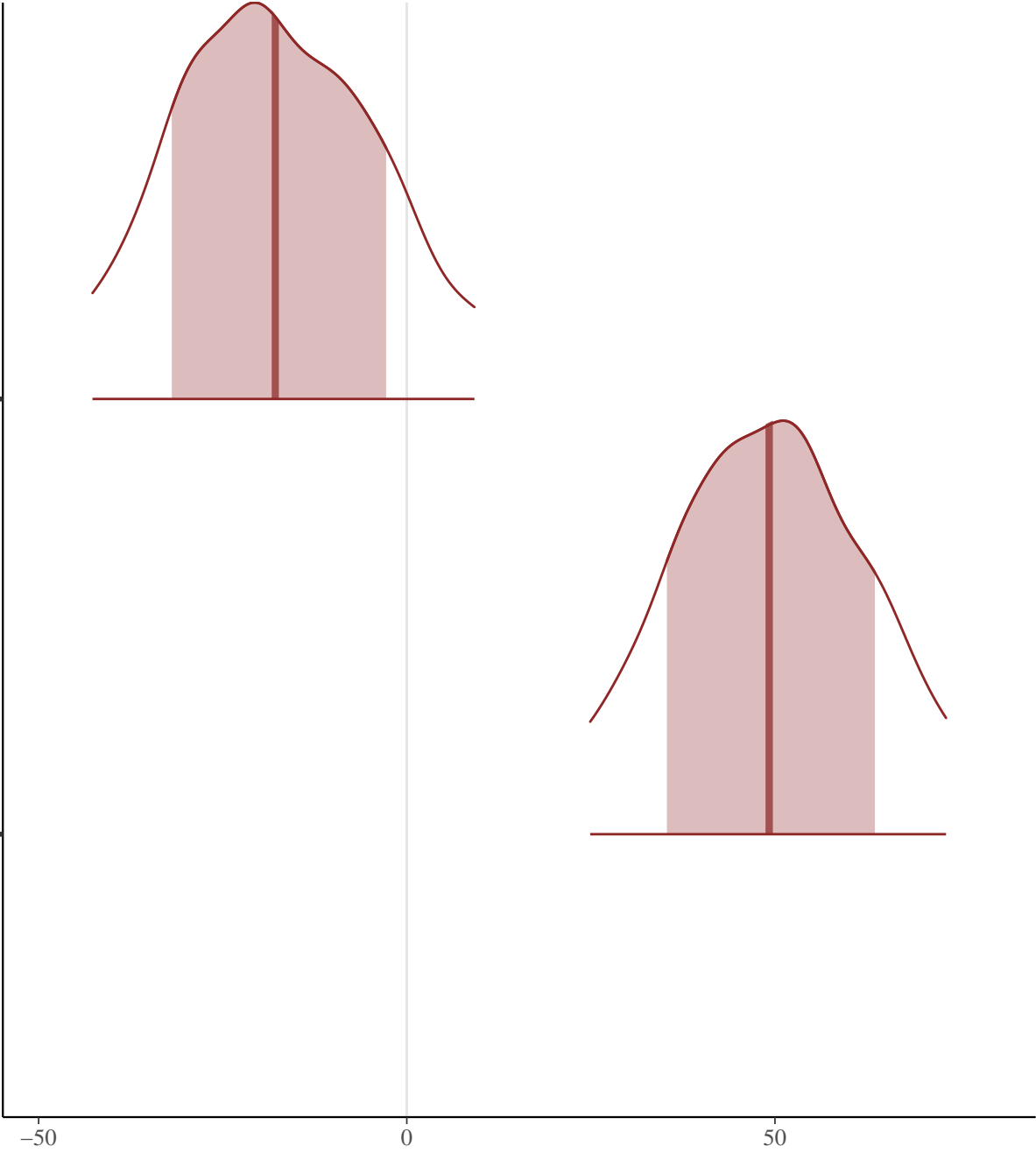
Posterior distributions  
with medians and 80% intervals



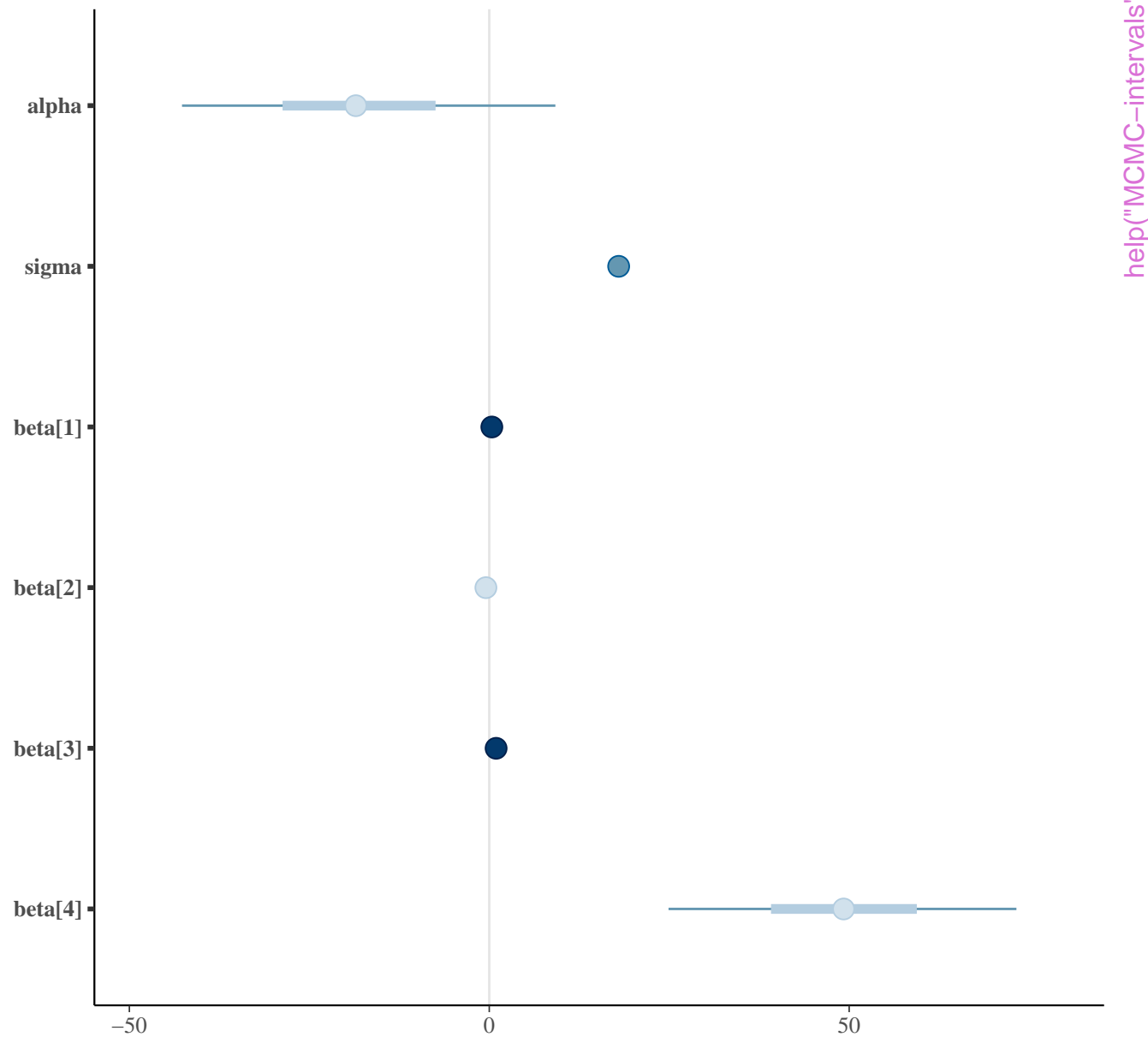
alpha

beta[4]

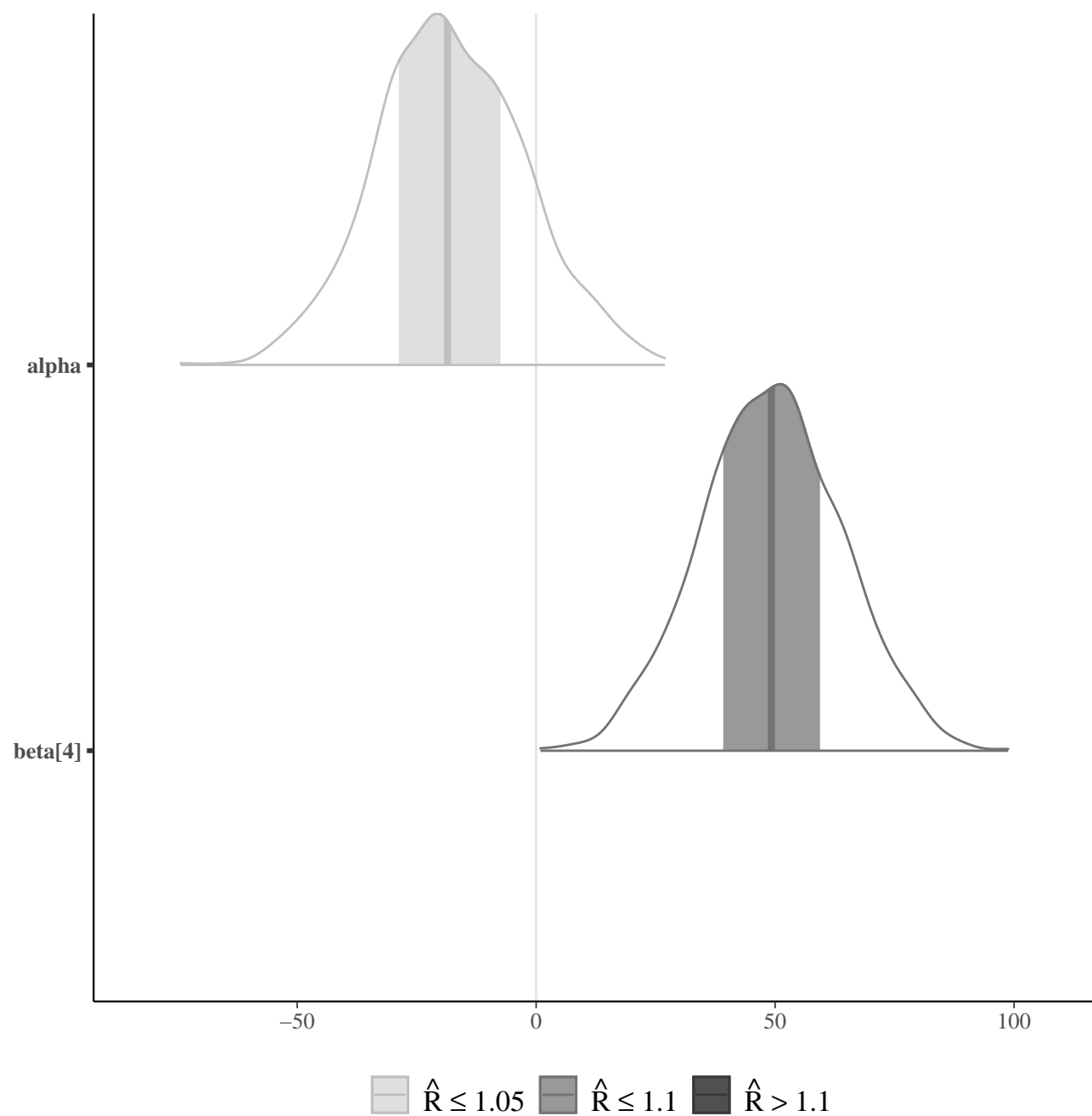
help("MCMC-intervals")



●  $\hat{R} \leq 1.05$  ●  $\hat{R} \leq 1.1$  ●  $\hat{R} > 1.1$



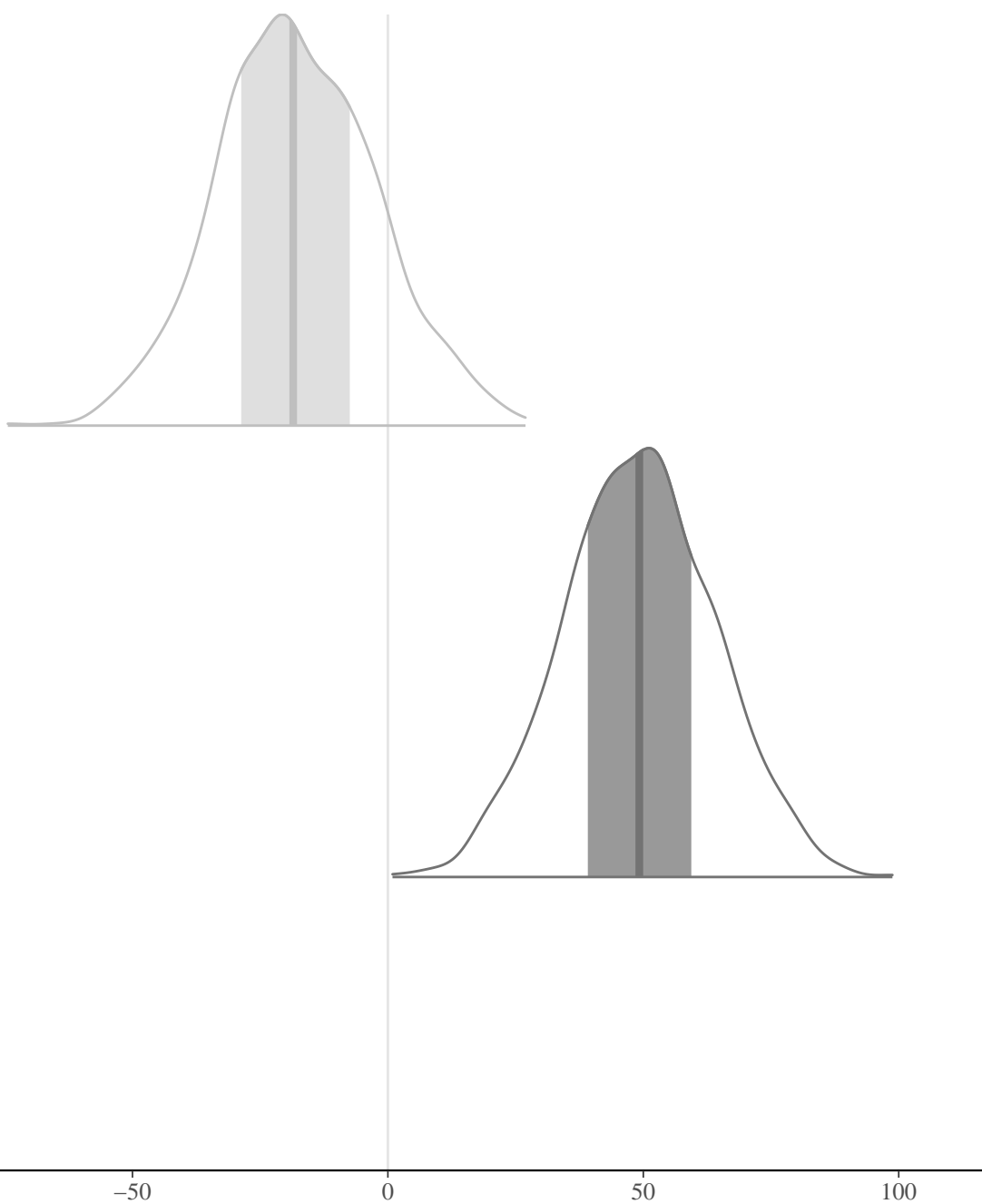
help("MCMC-intervals")

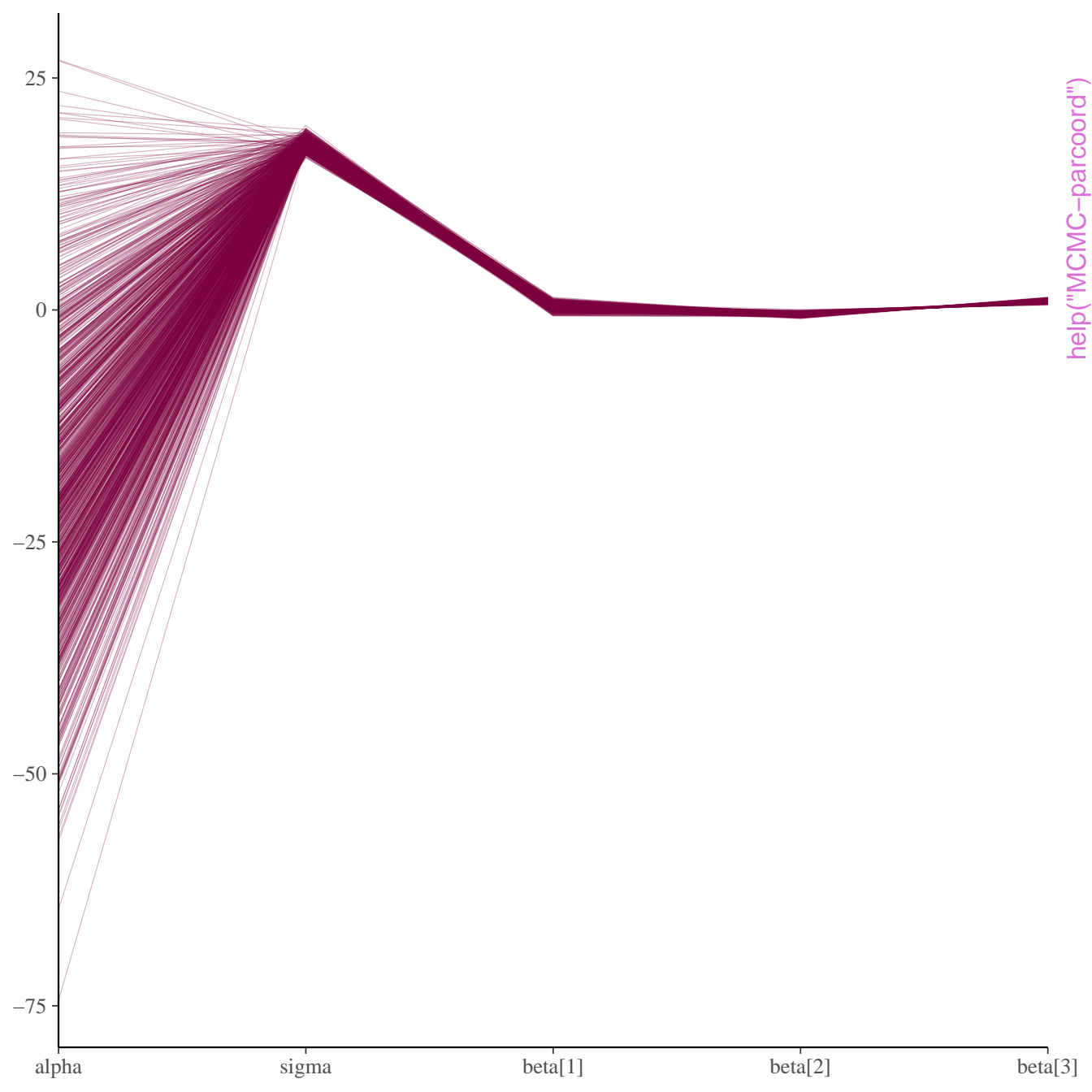


alpha

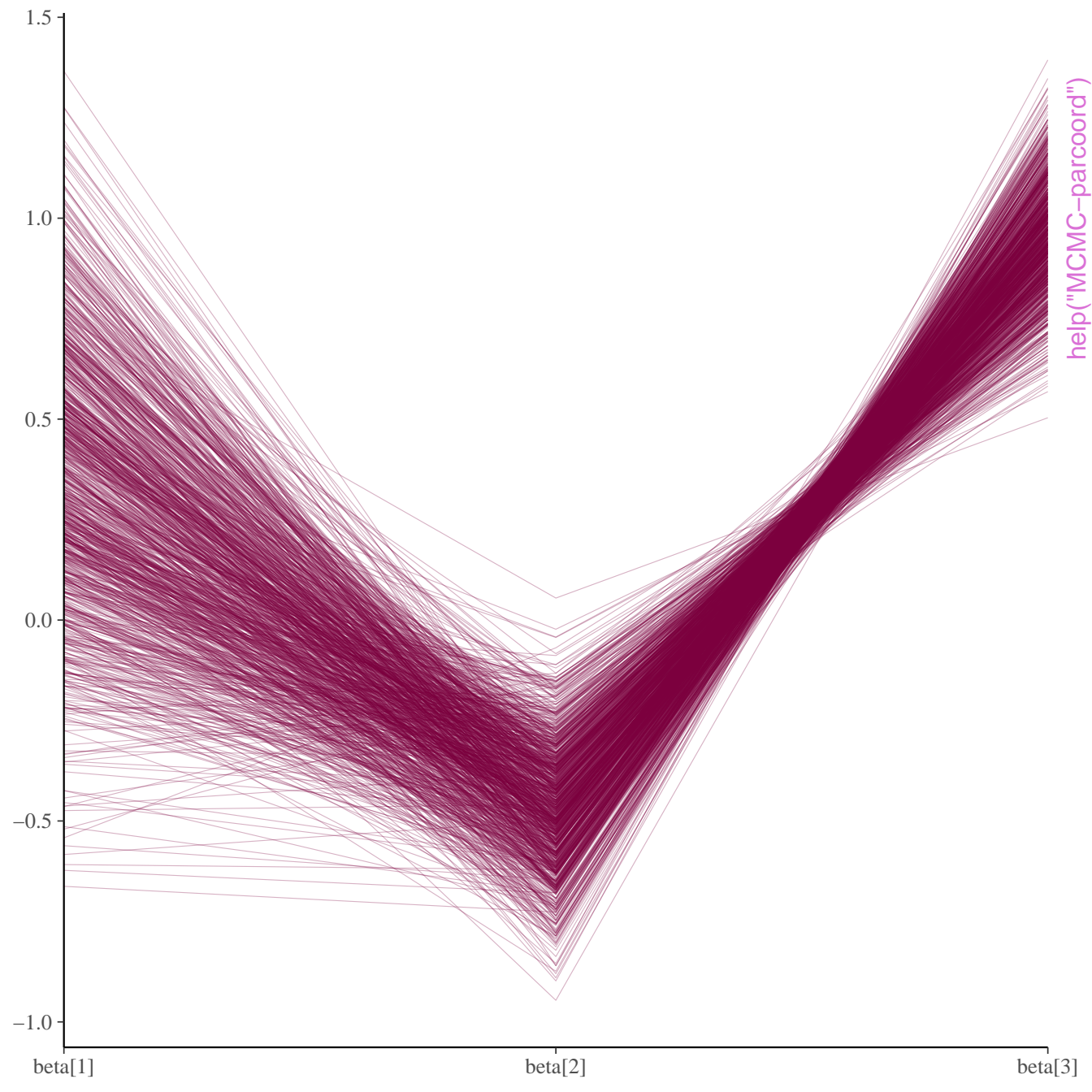
beta[4]

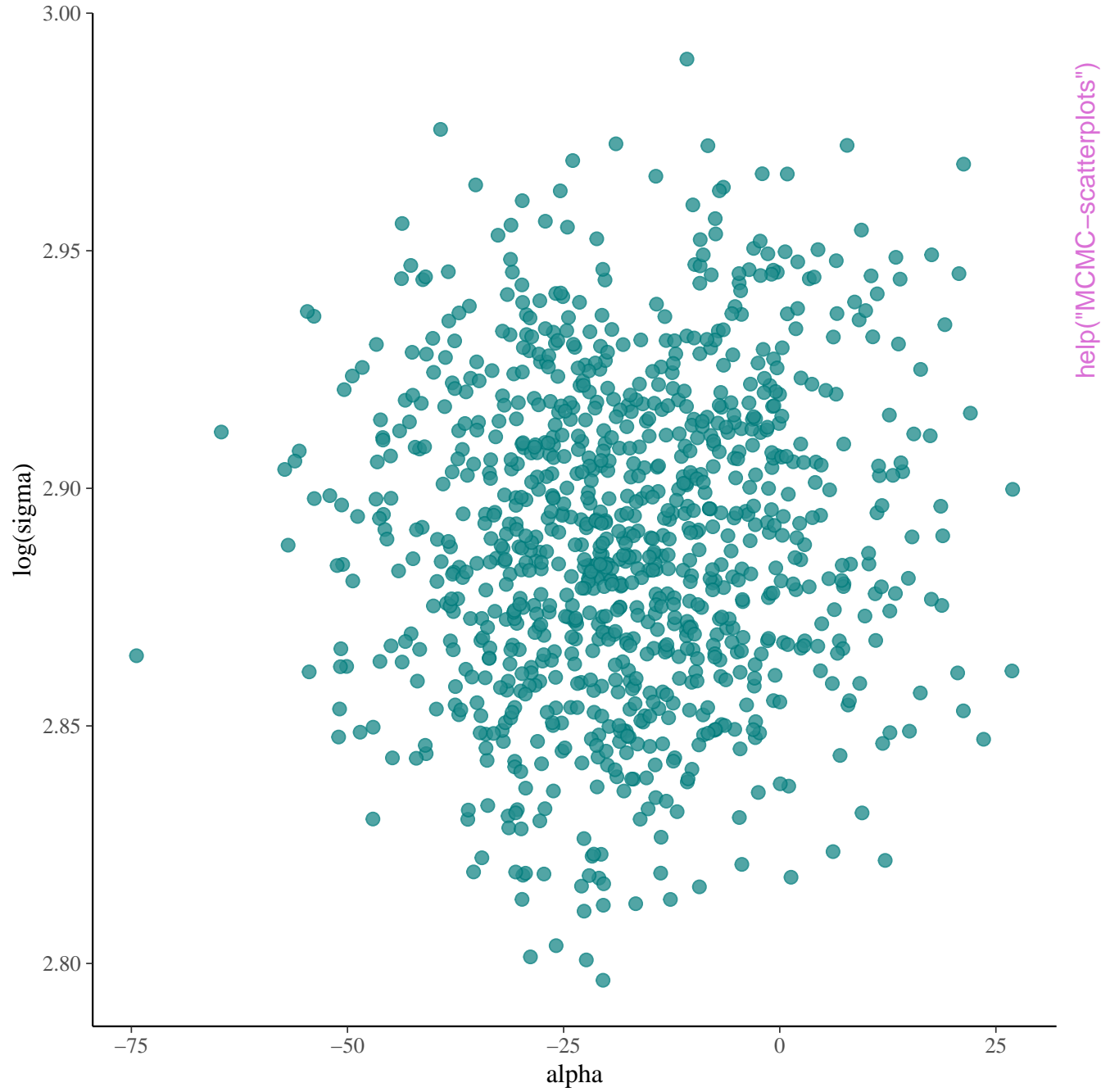
help("MCMC-intervals")



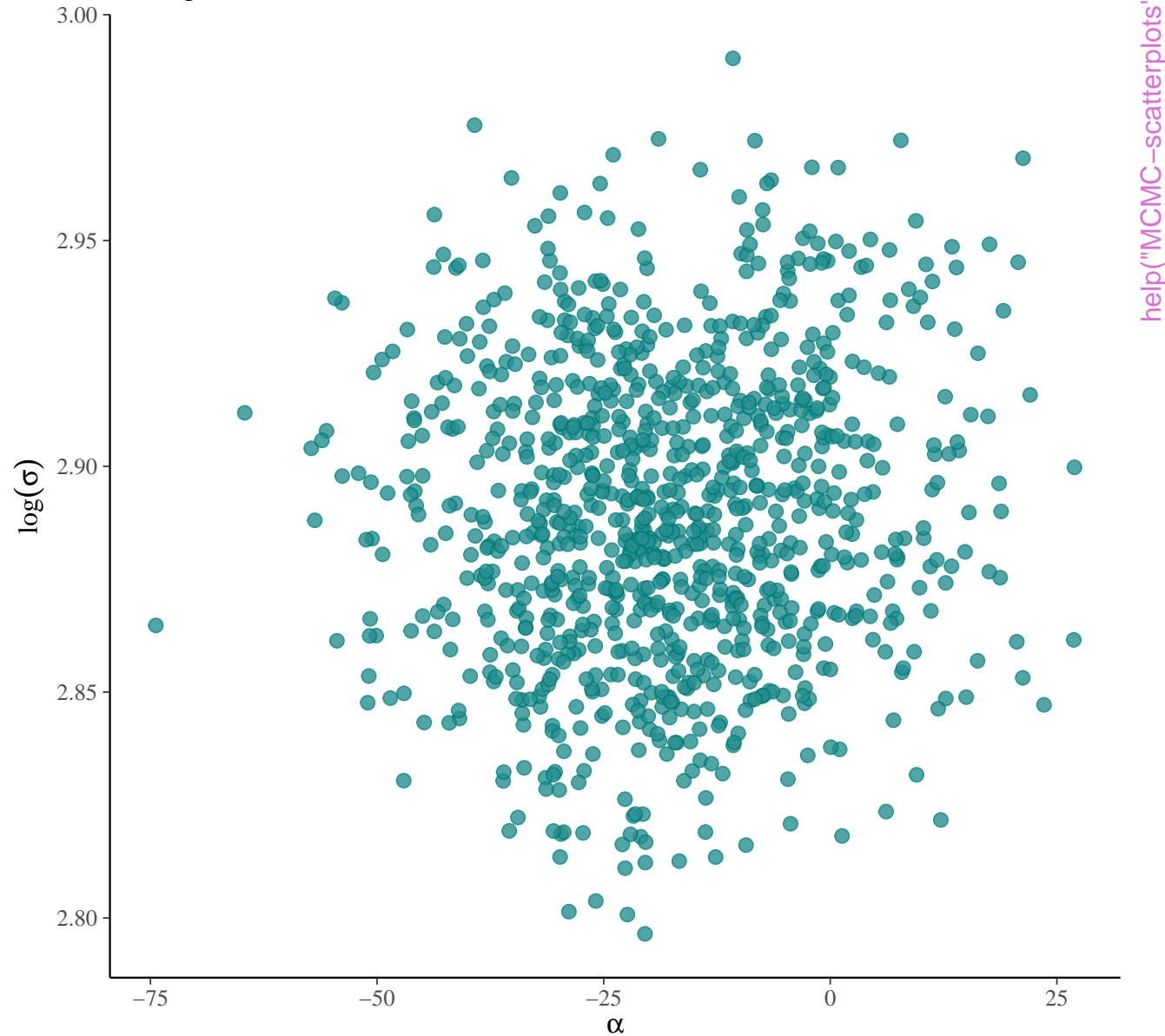


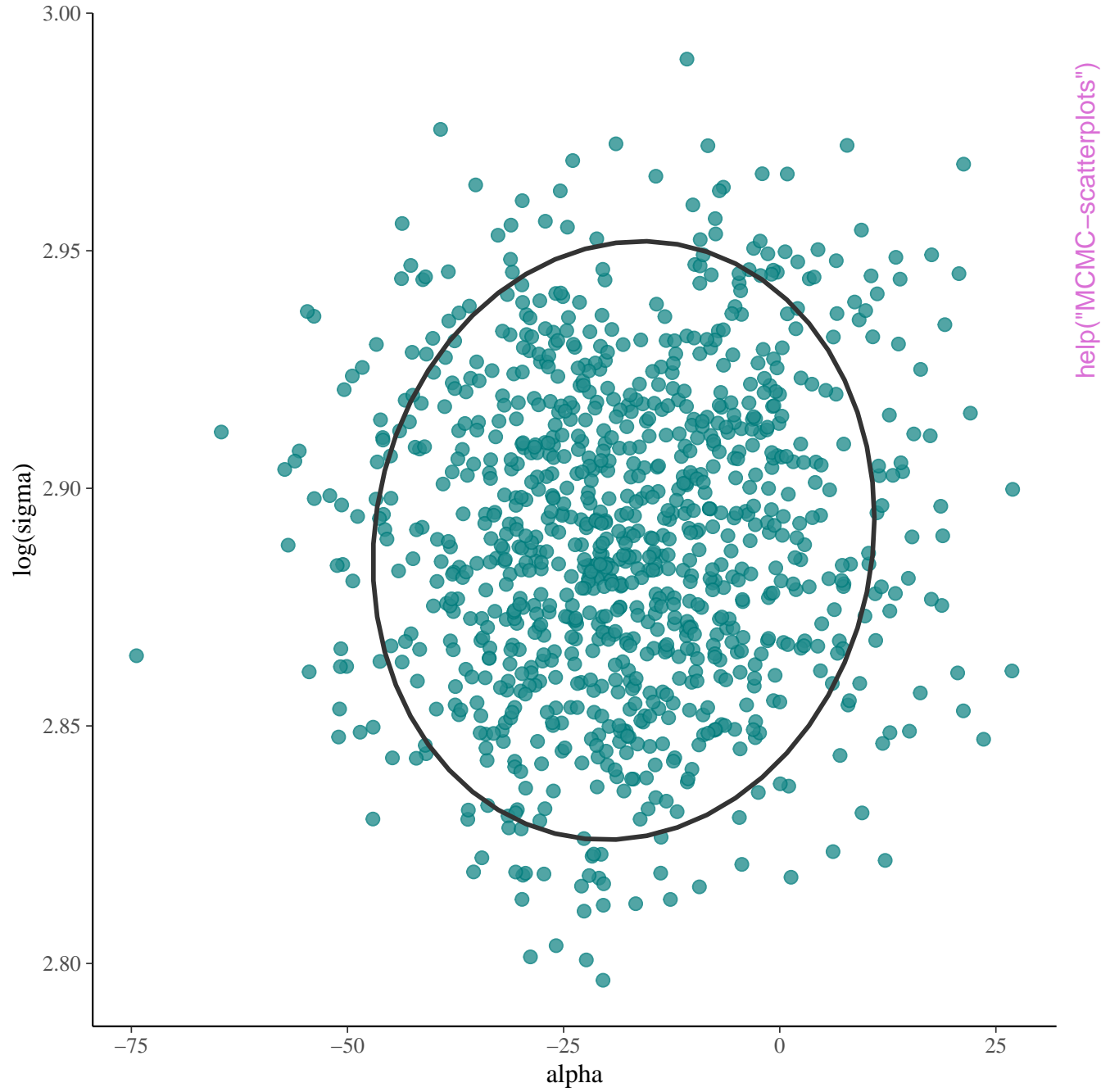


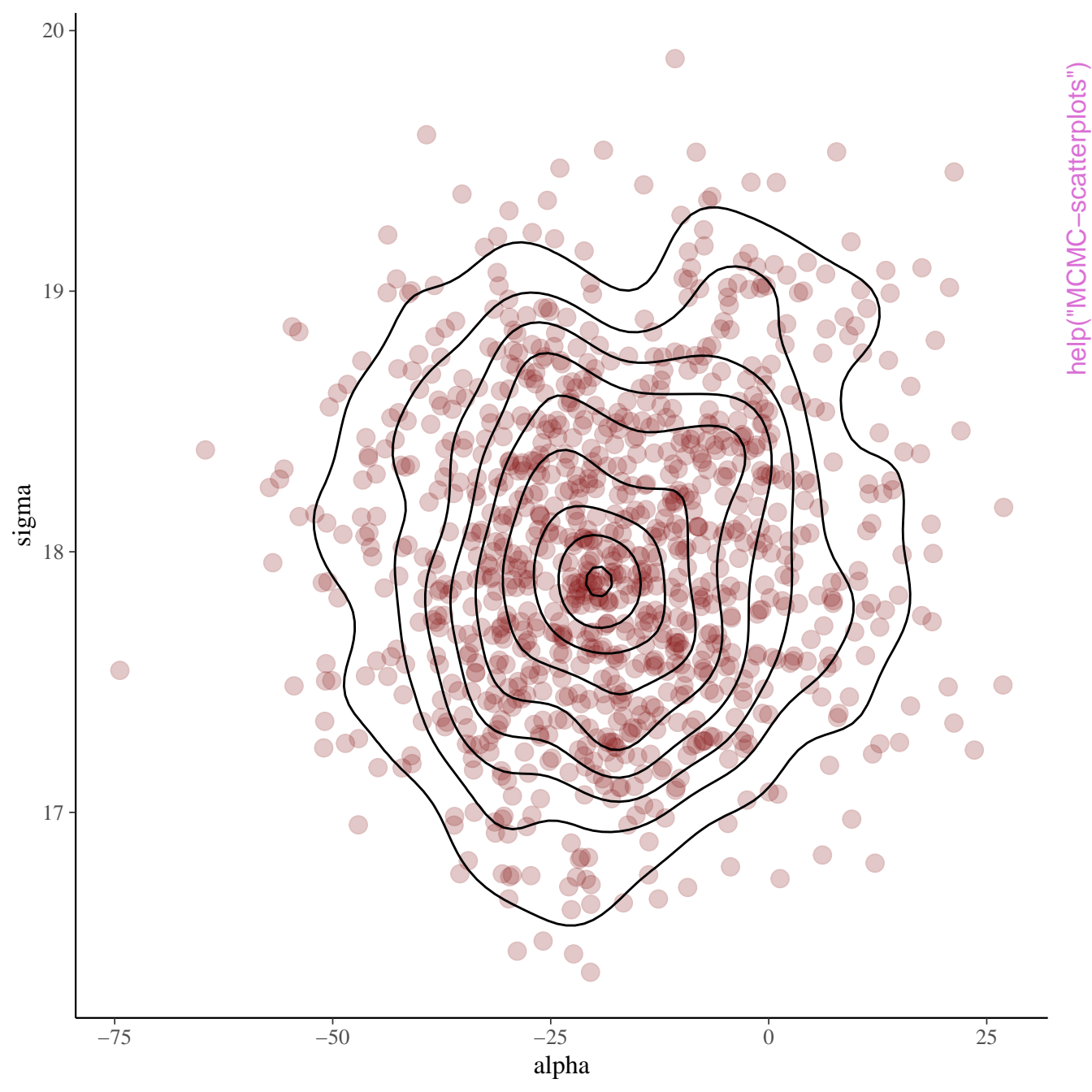


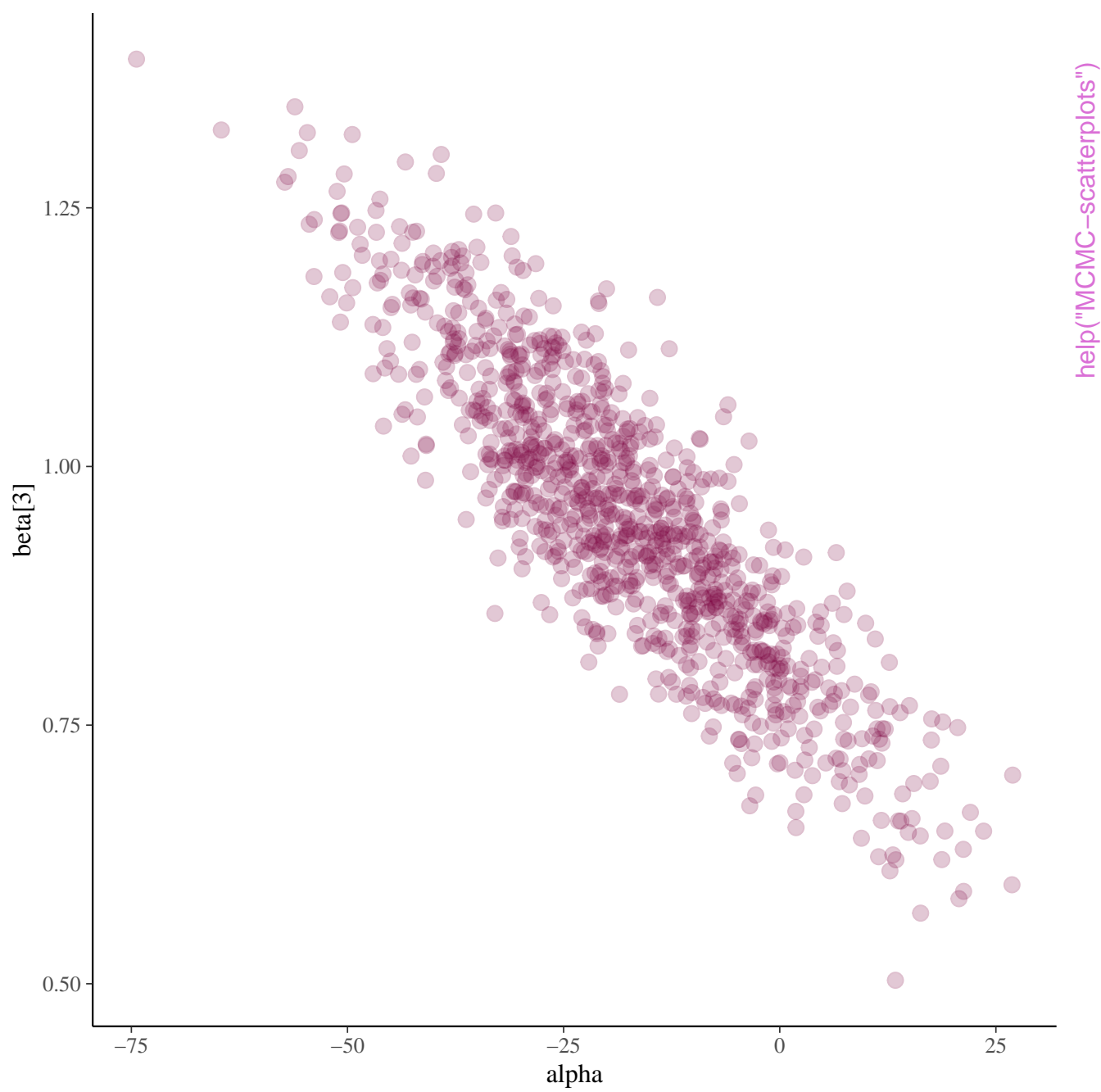


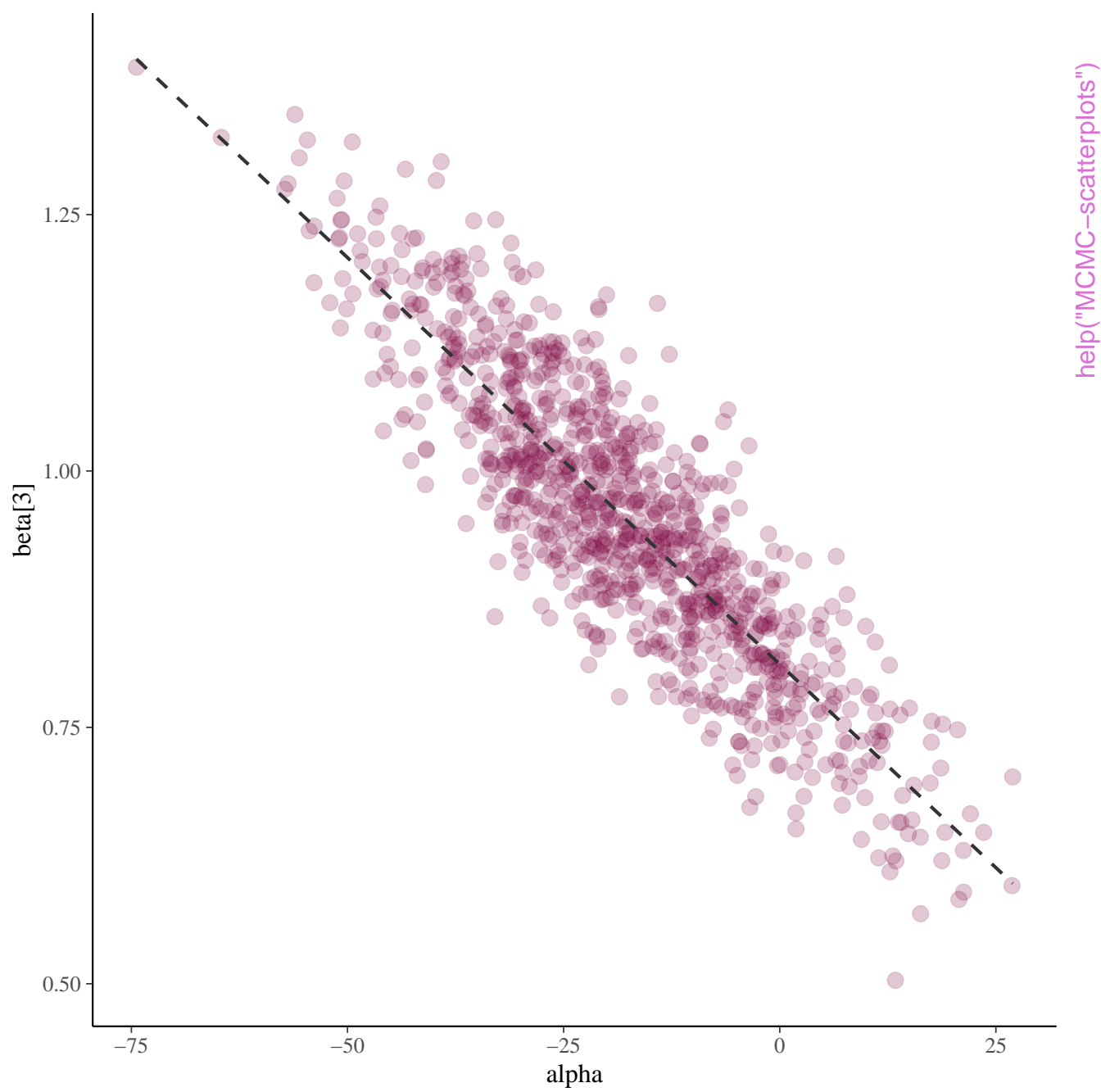
Insert your own headline—grabbing title  
with a provocative subtitle



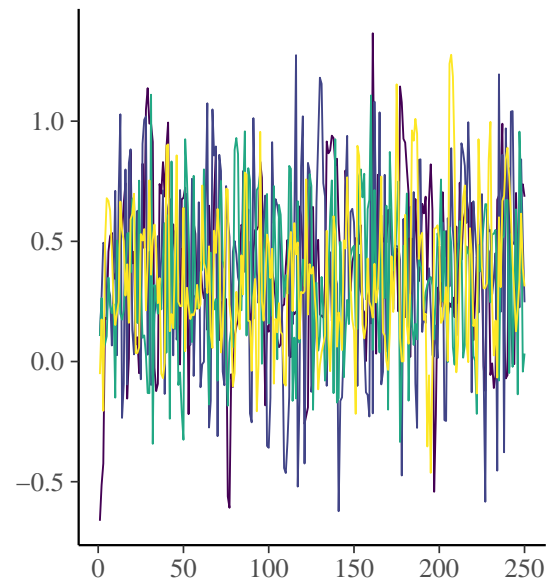




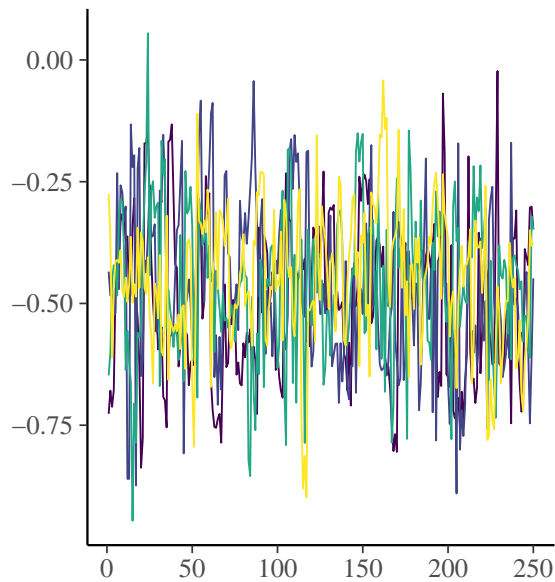




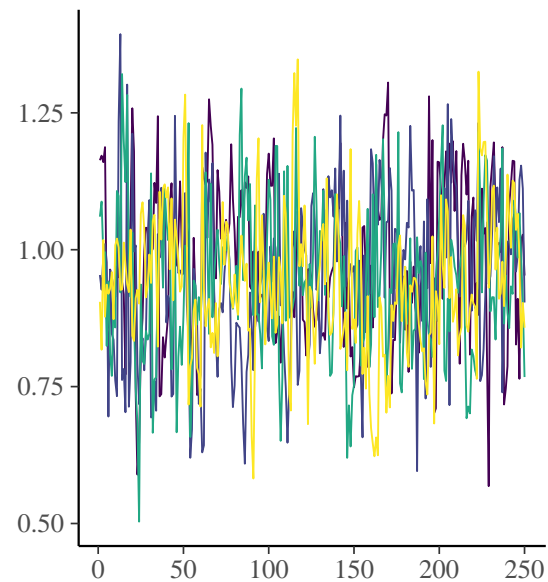
beta[1]



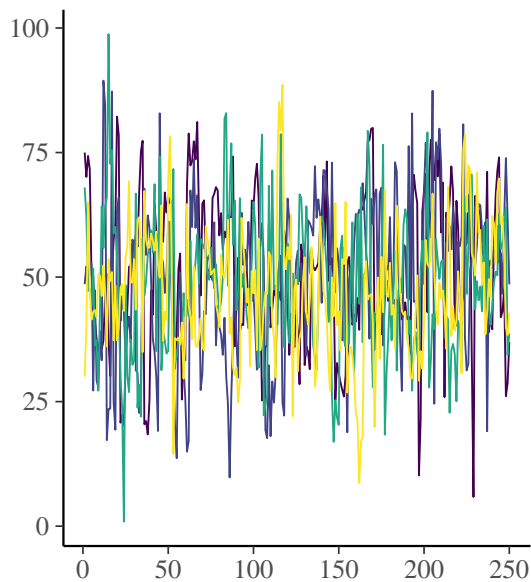
beta[2]



beta[3]



beta[4]



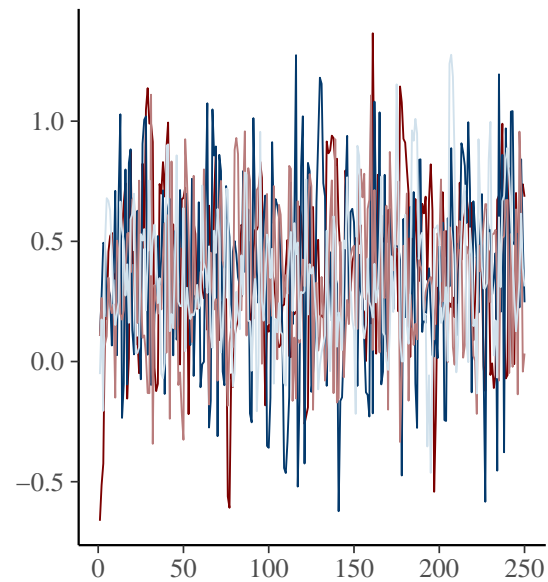
Chain

- 1
- 2
- 3
- 4

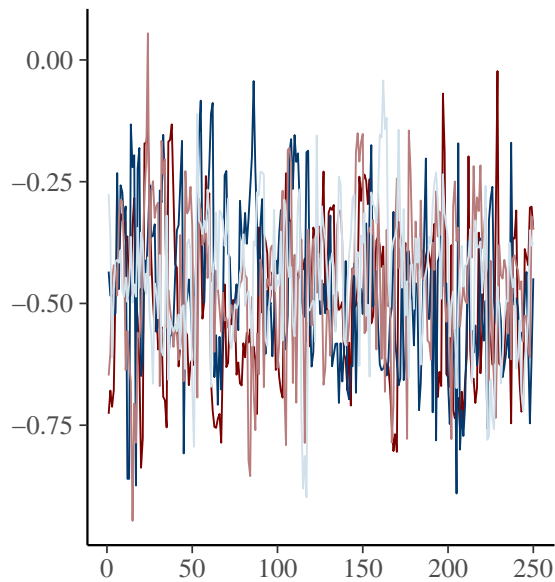
```
help("MCMC-traces")
```



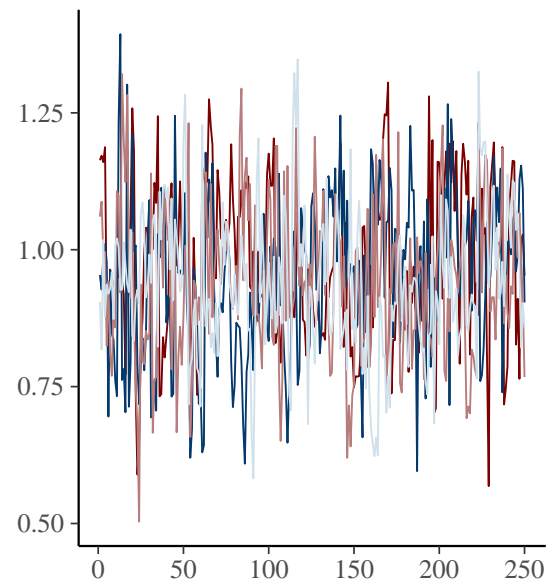
beta[1]



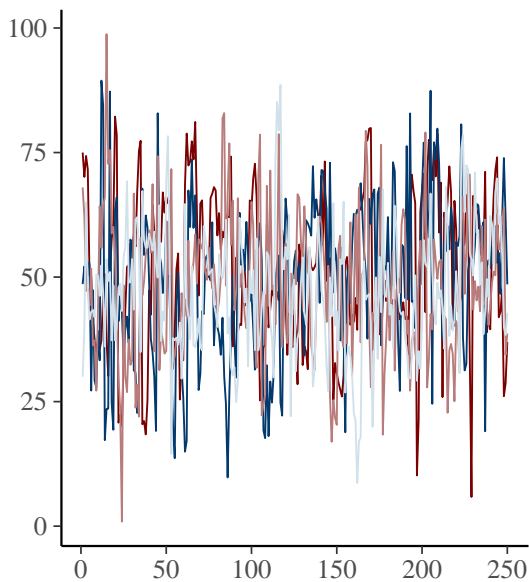
beta[2]



beta[3]



beta[4]



Chain

1

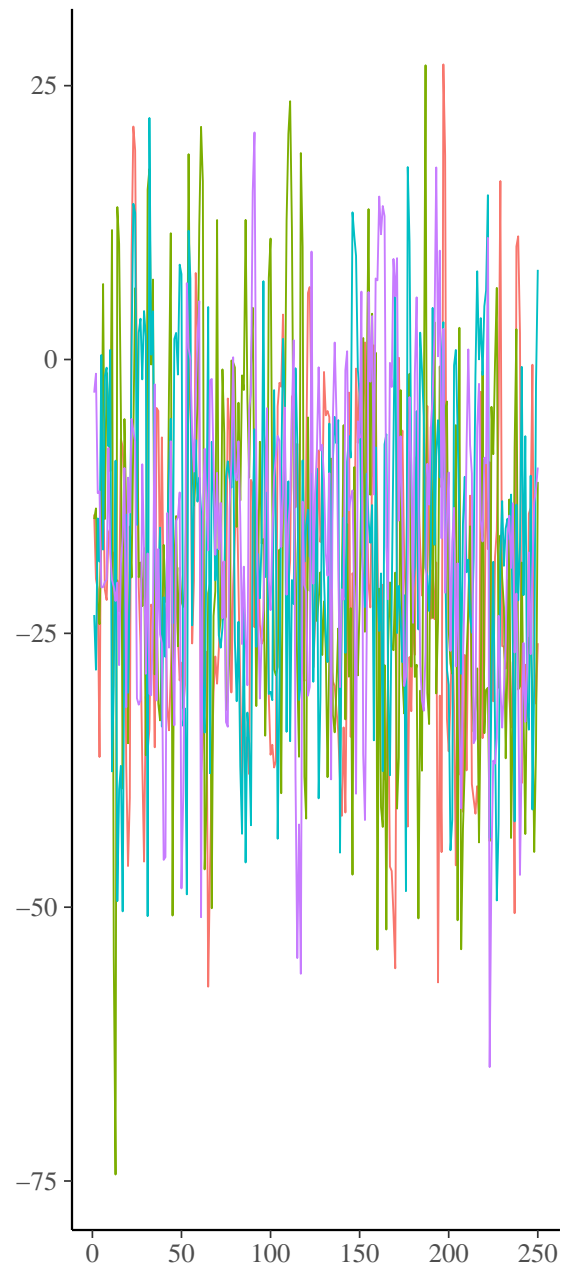
2

3

4

help("MCMC-traces")

alpha



sigma



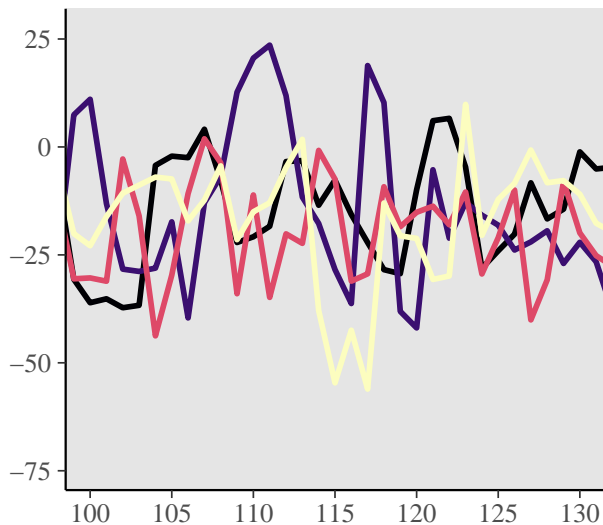
Chain

- 1
- 2
- 3
- 4

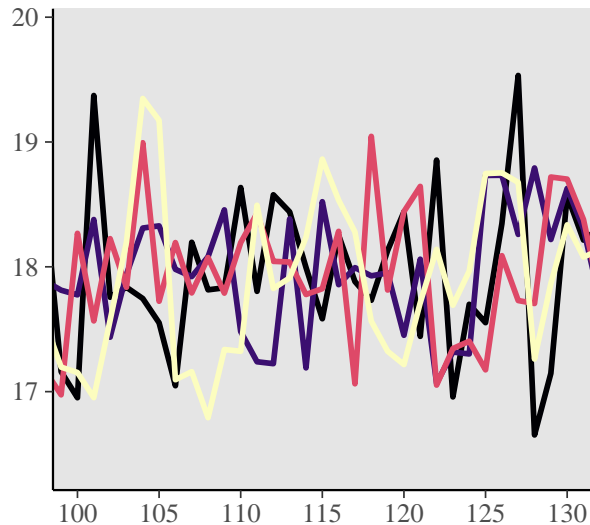
help("MCMC-traces")

Chain — 1 — 2 — 3 — 4

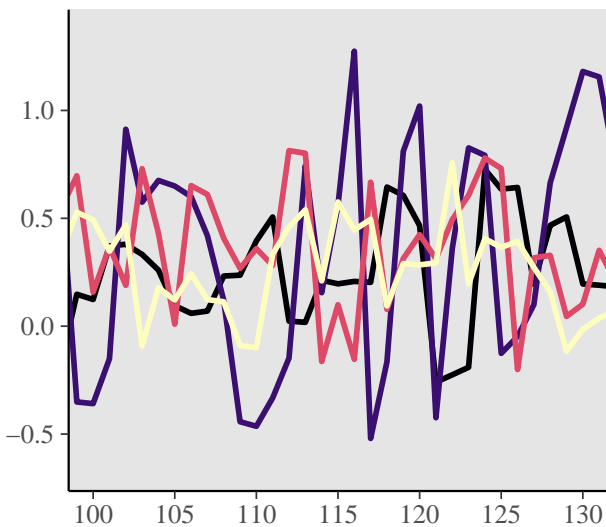
alpha



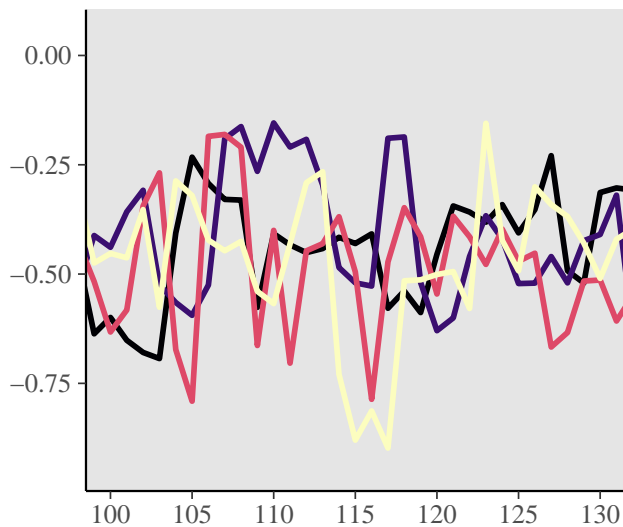
sigma



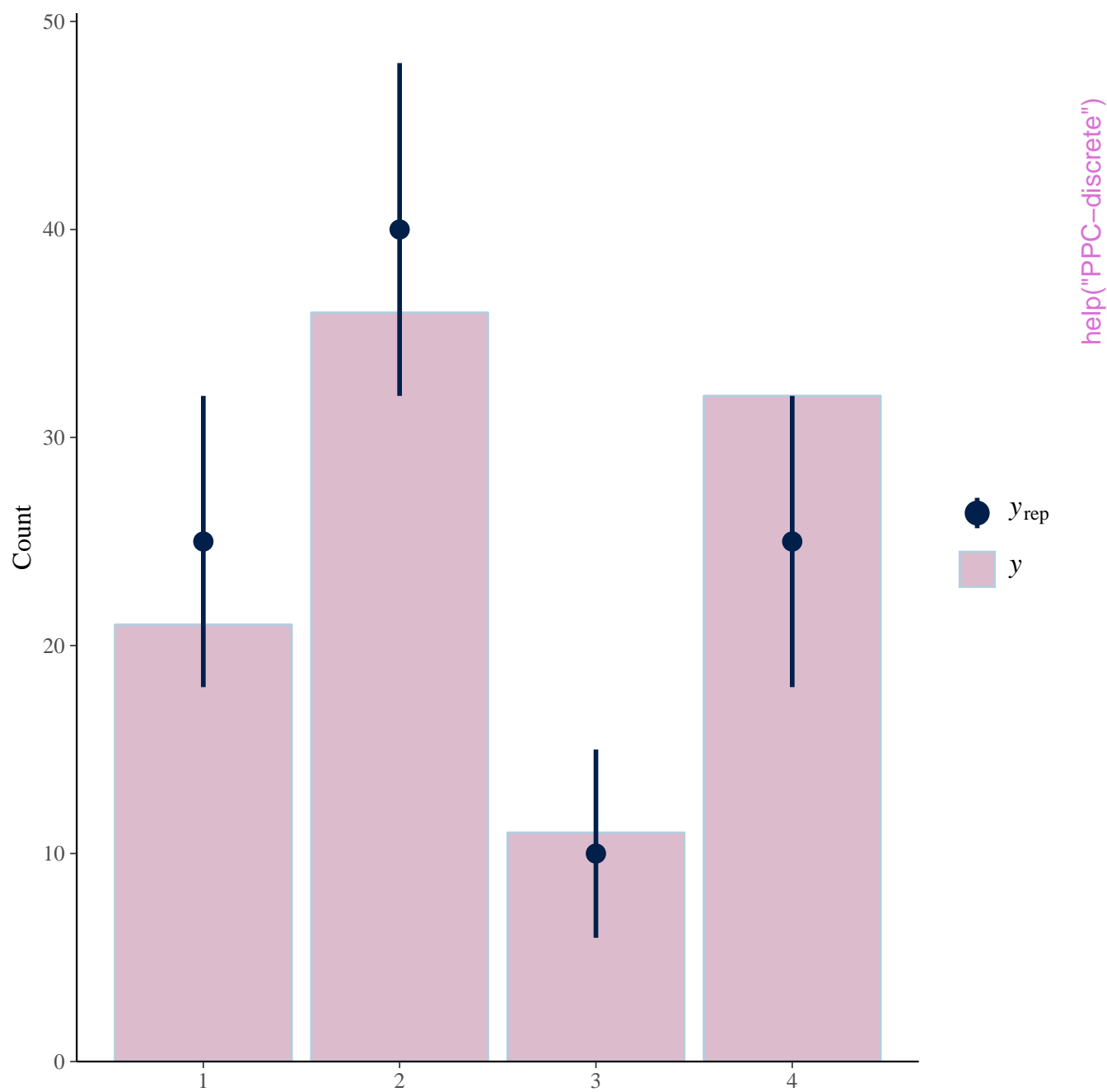
beta[1]



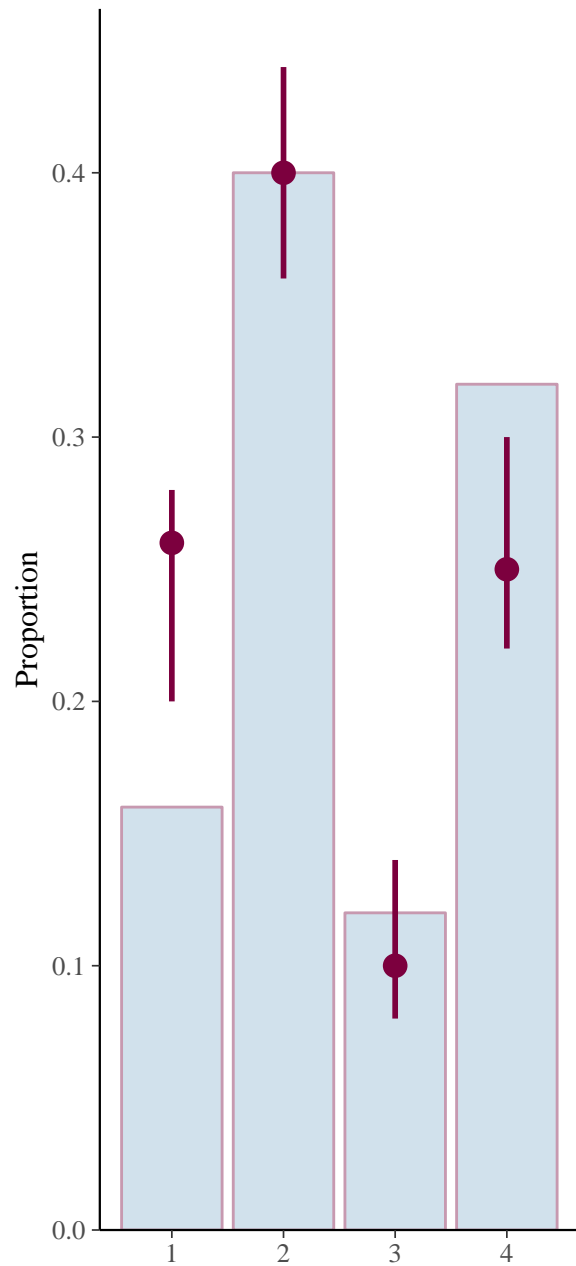
beta[2]



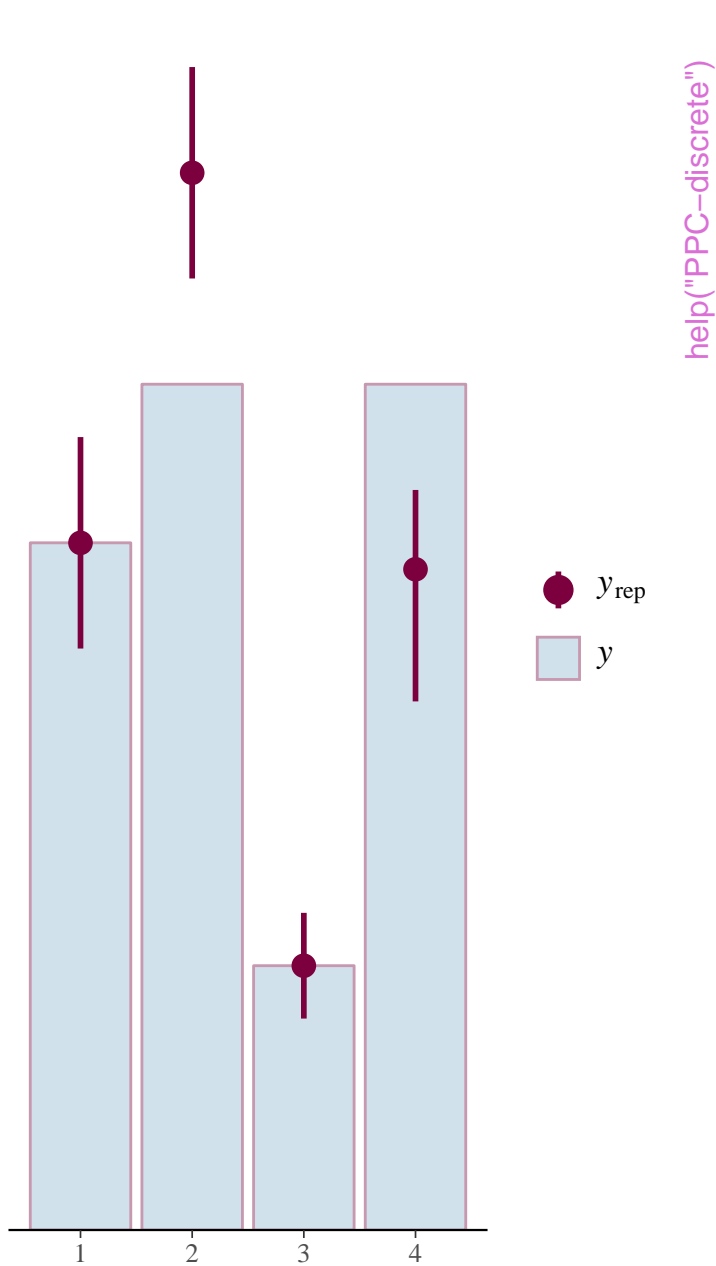
help("MCMC-traces")

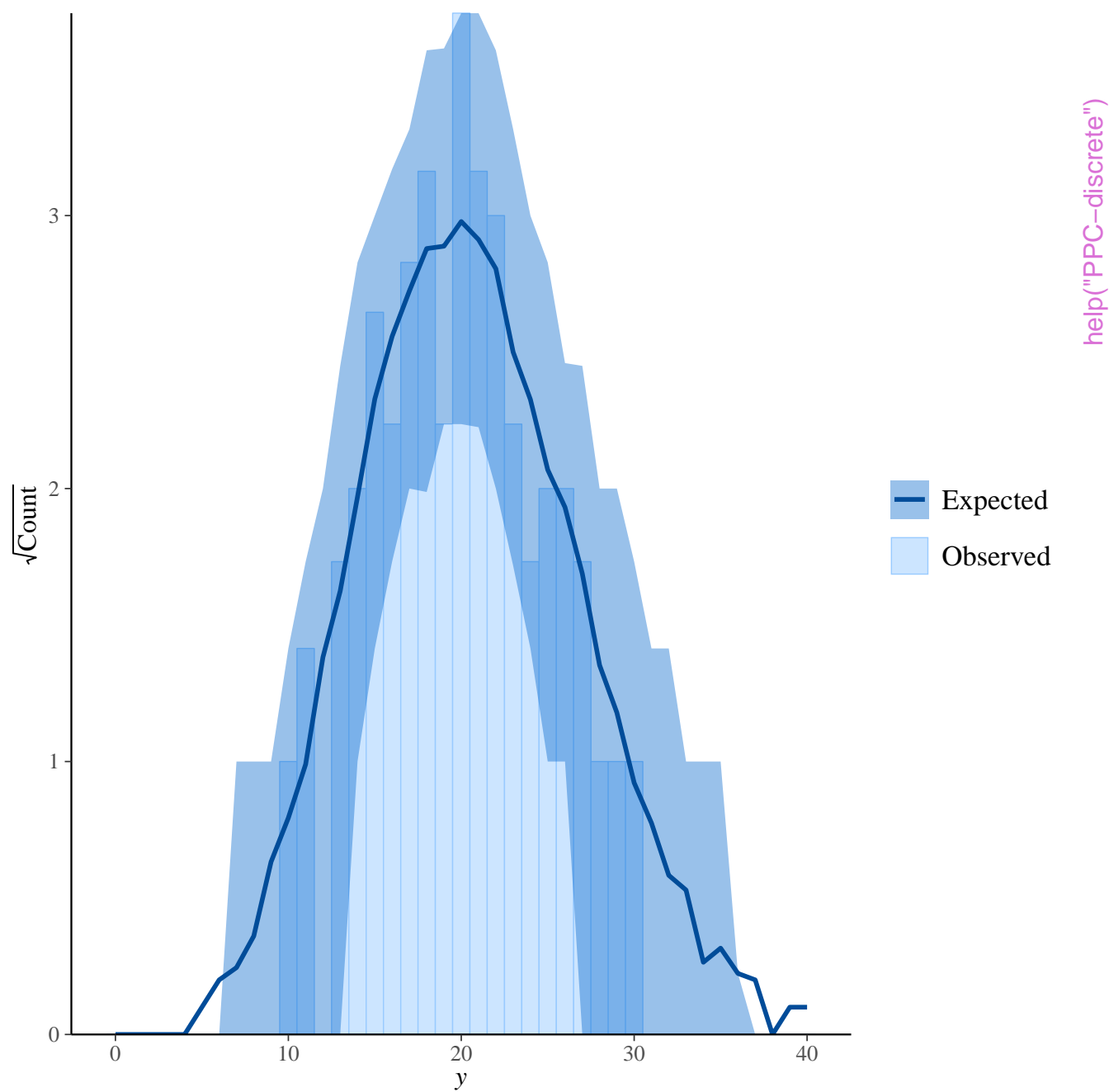


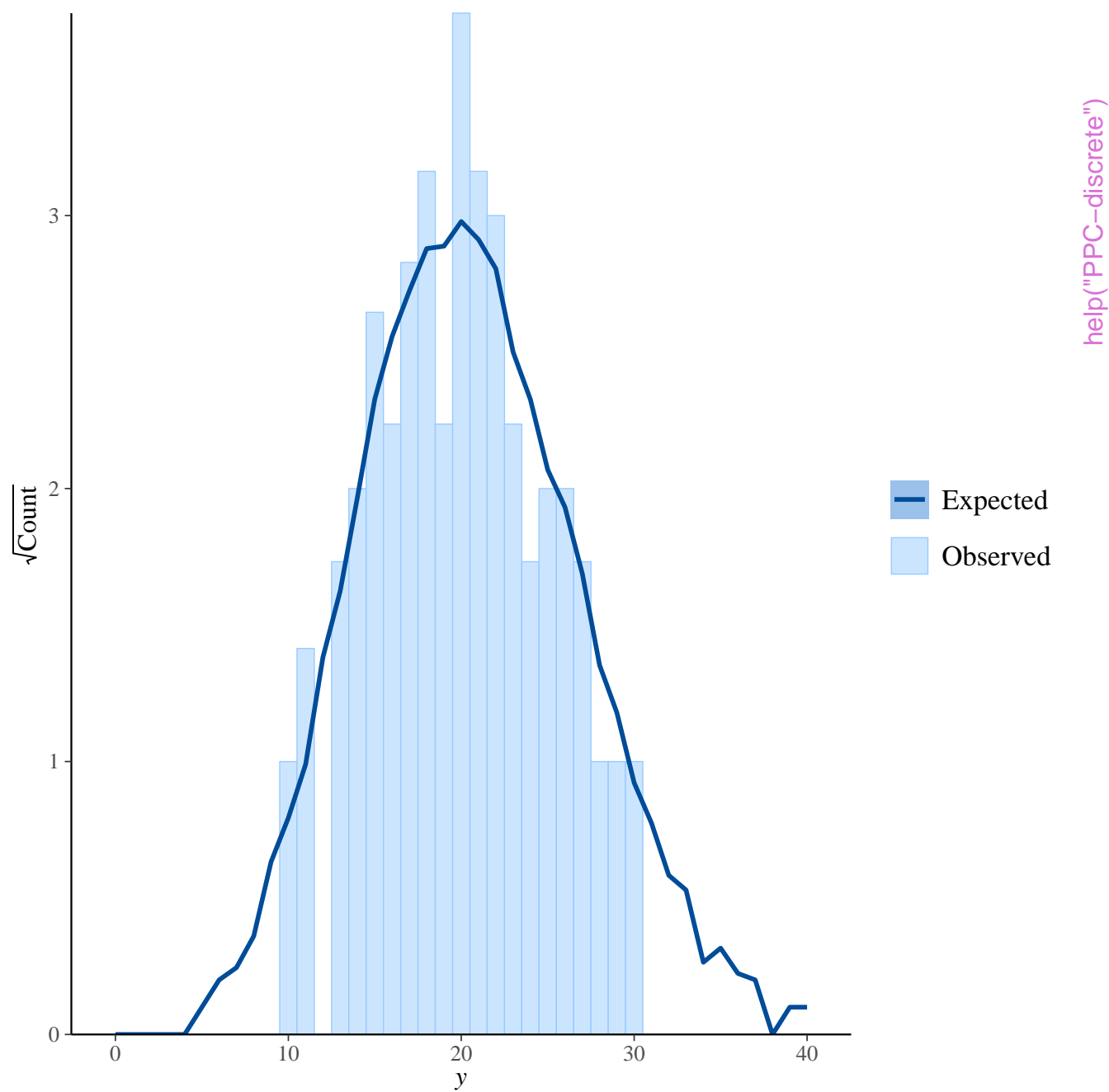
GroupA

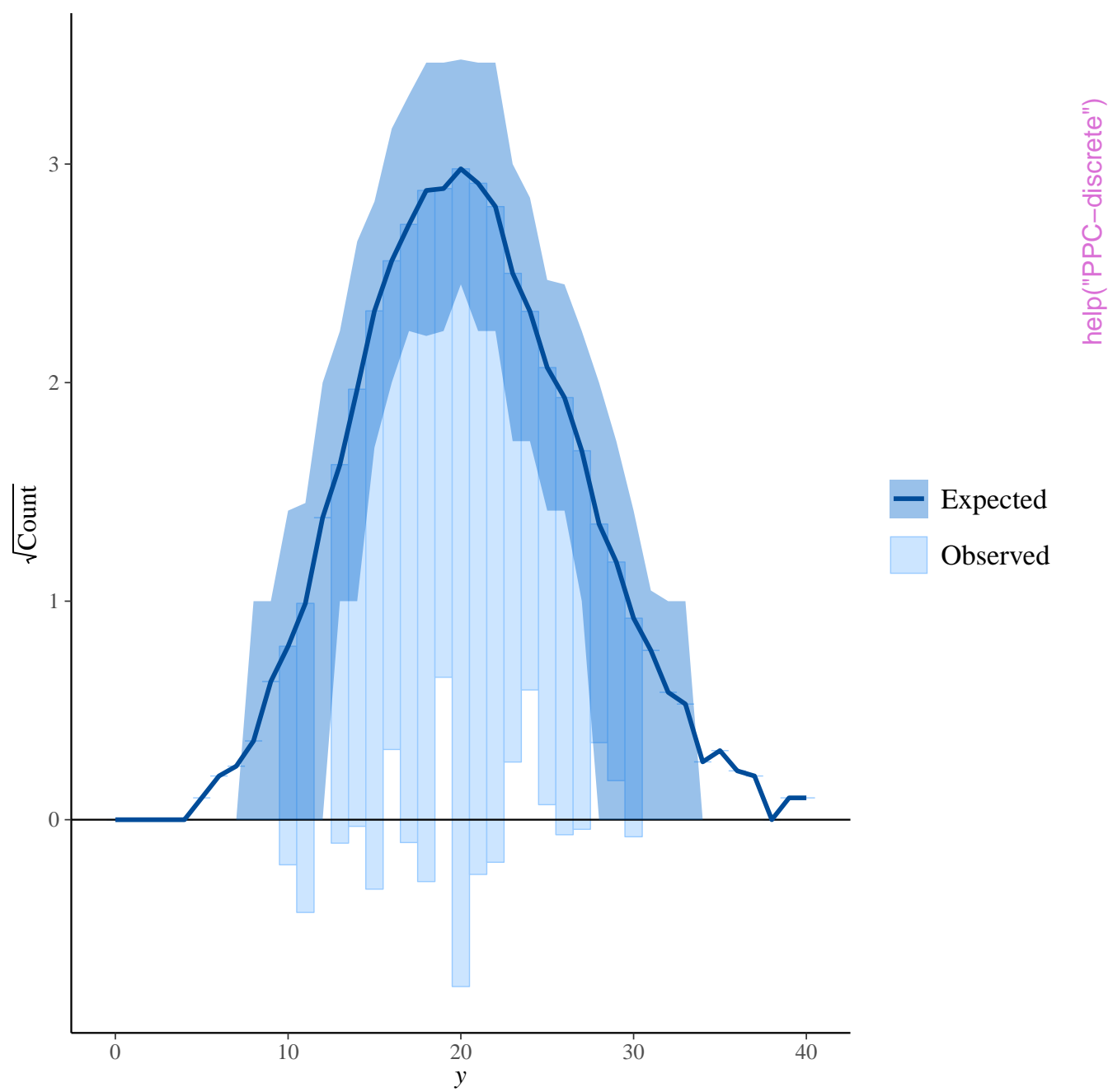


GroupB

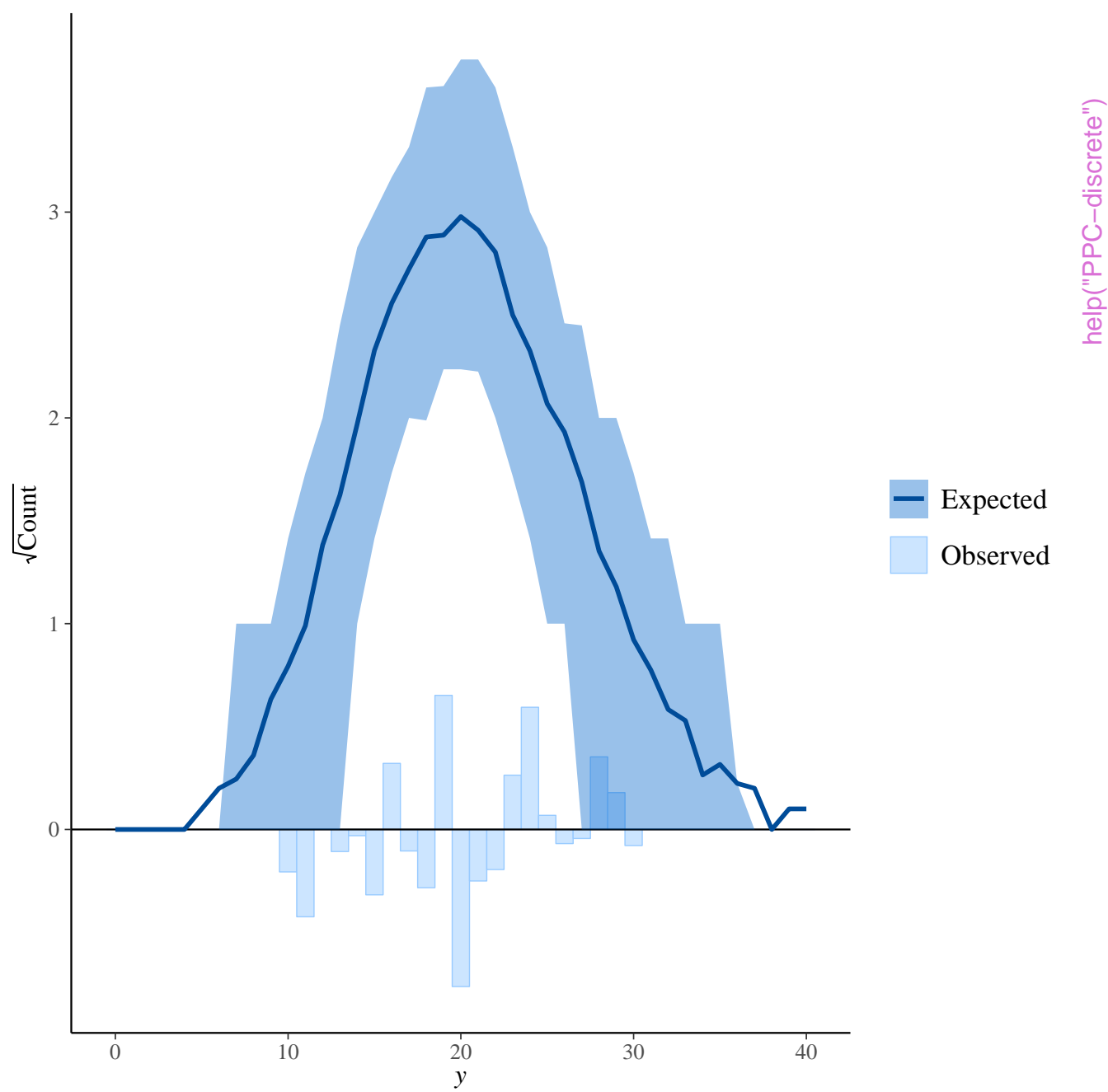


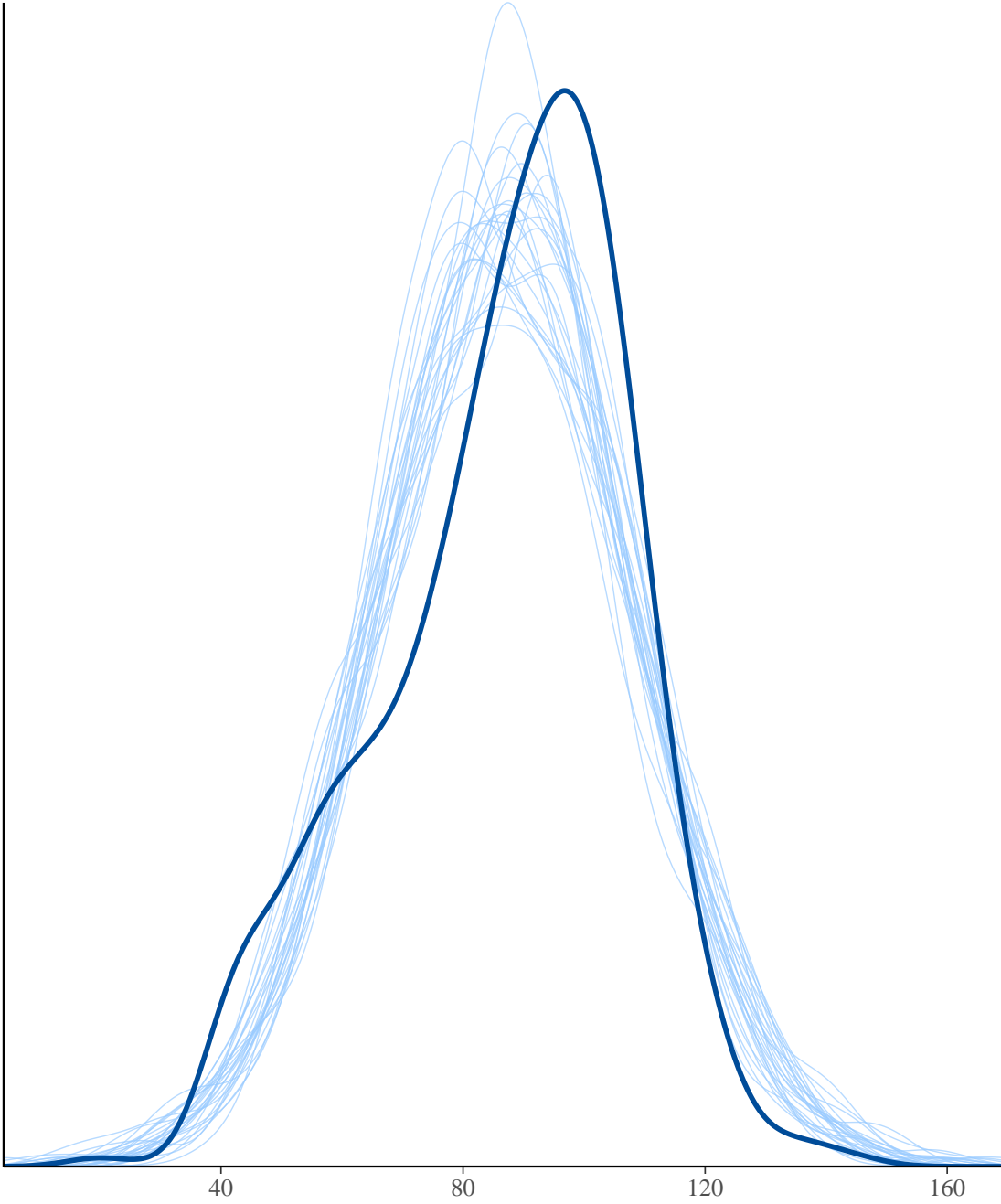








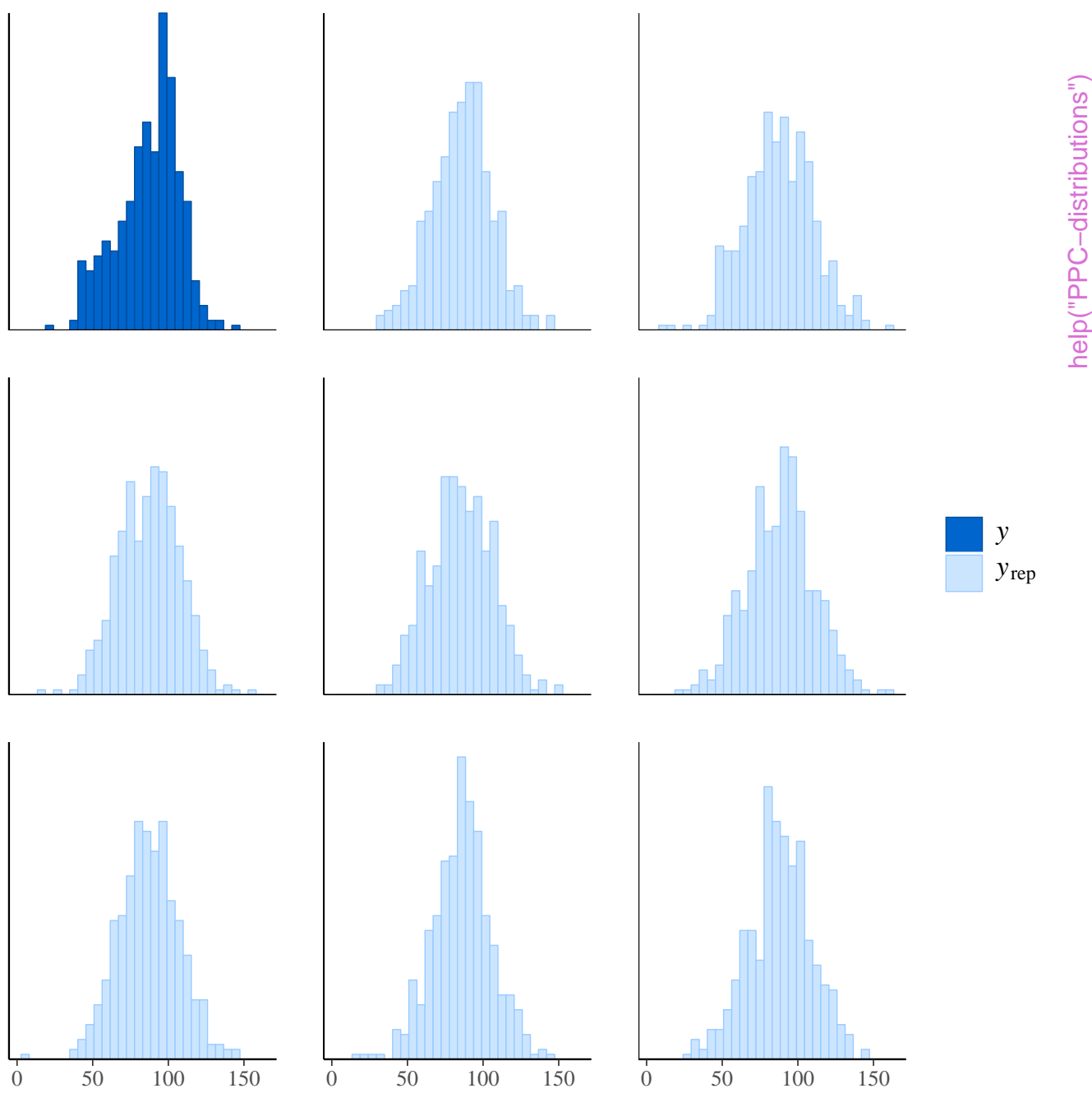


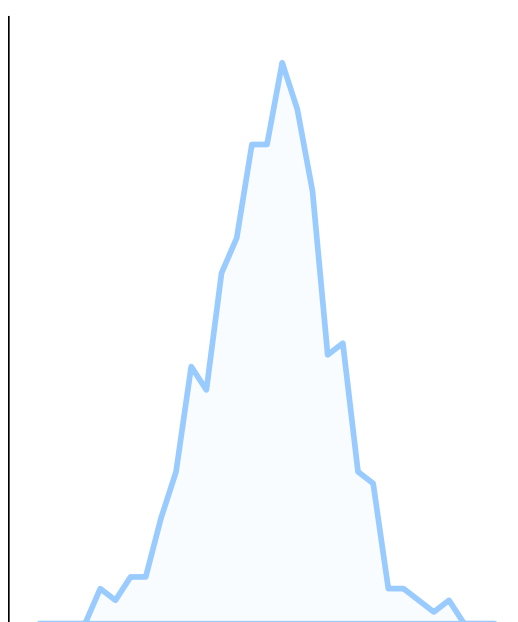
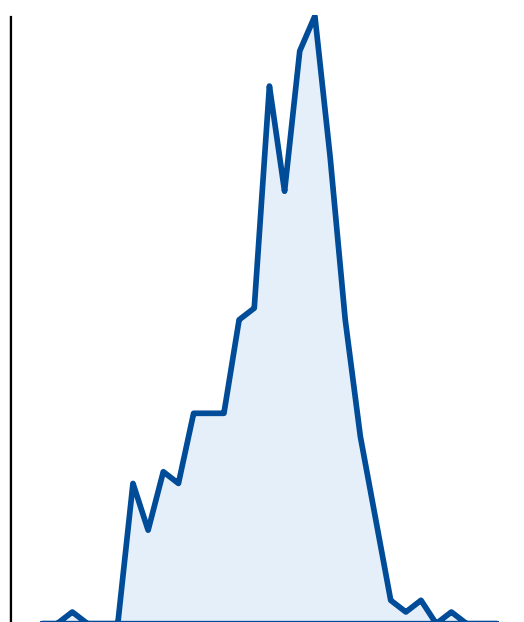


y

y<sub>rep</sub>

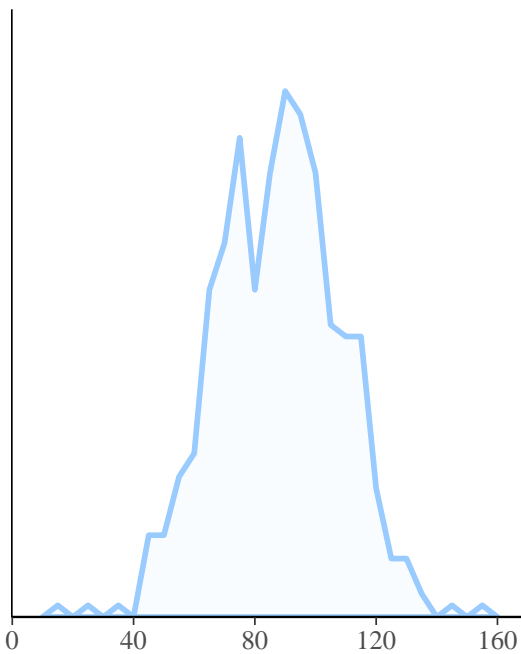
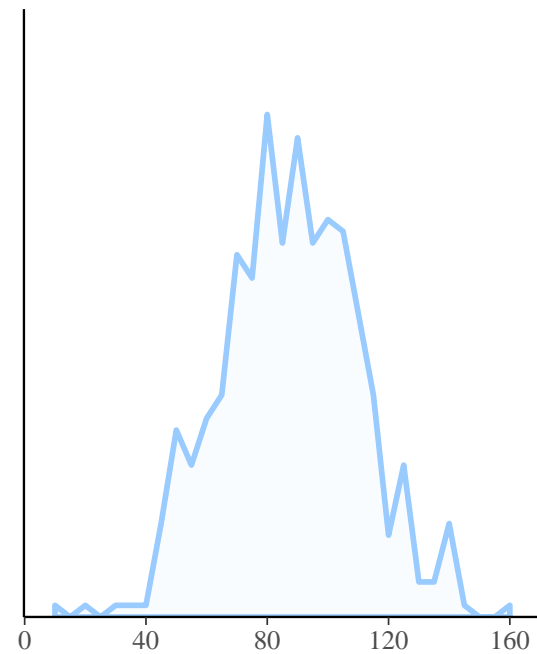
help("PPC-distributions")



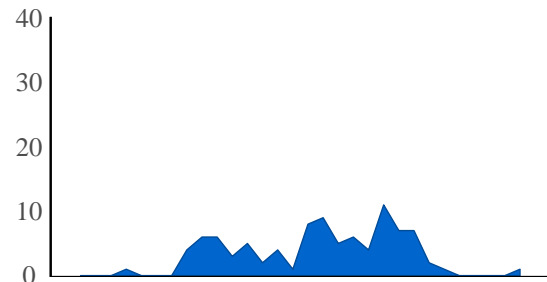


$y$   
 $y_{\text{rep}}$

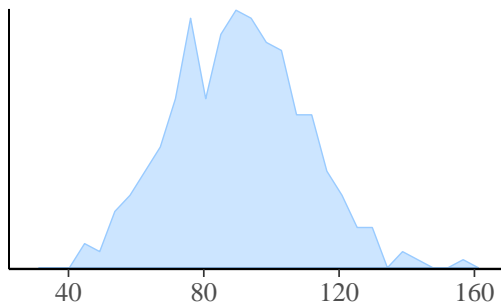
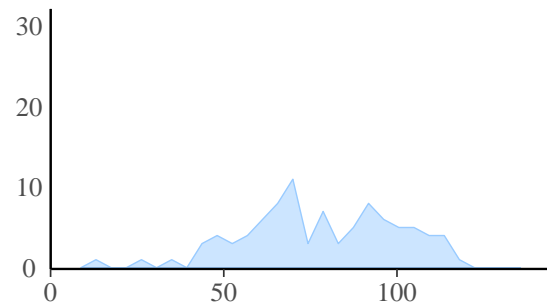
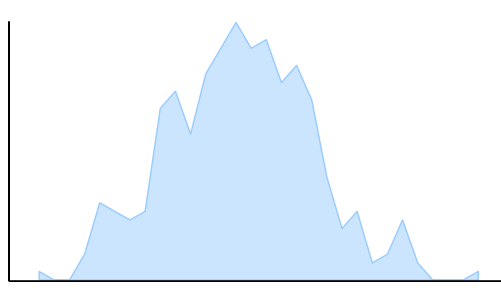
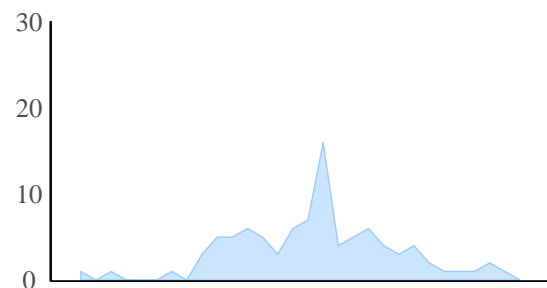
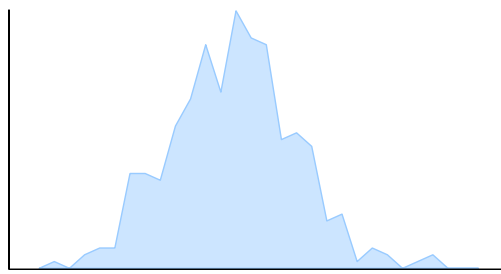
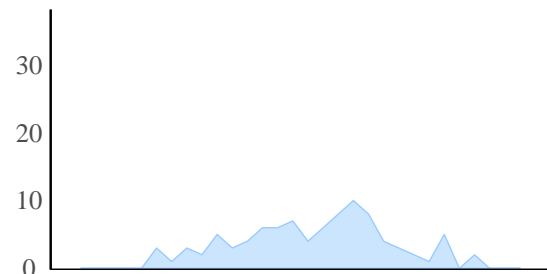
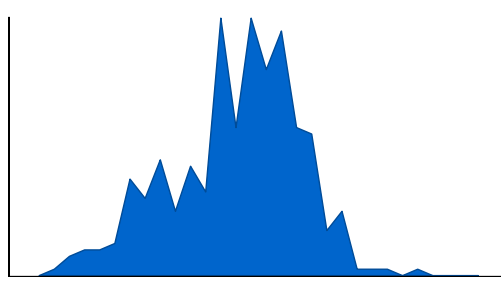
help("PPC-distributions")



GroupA

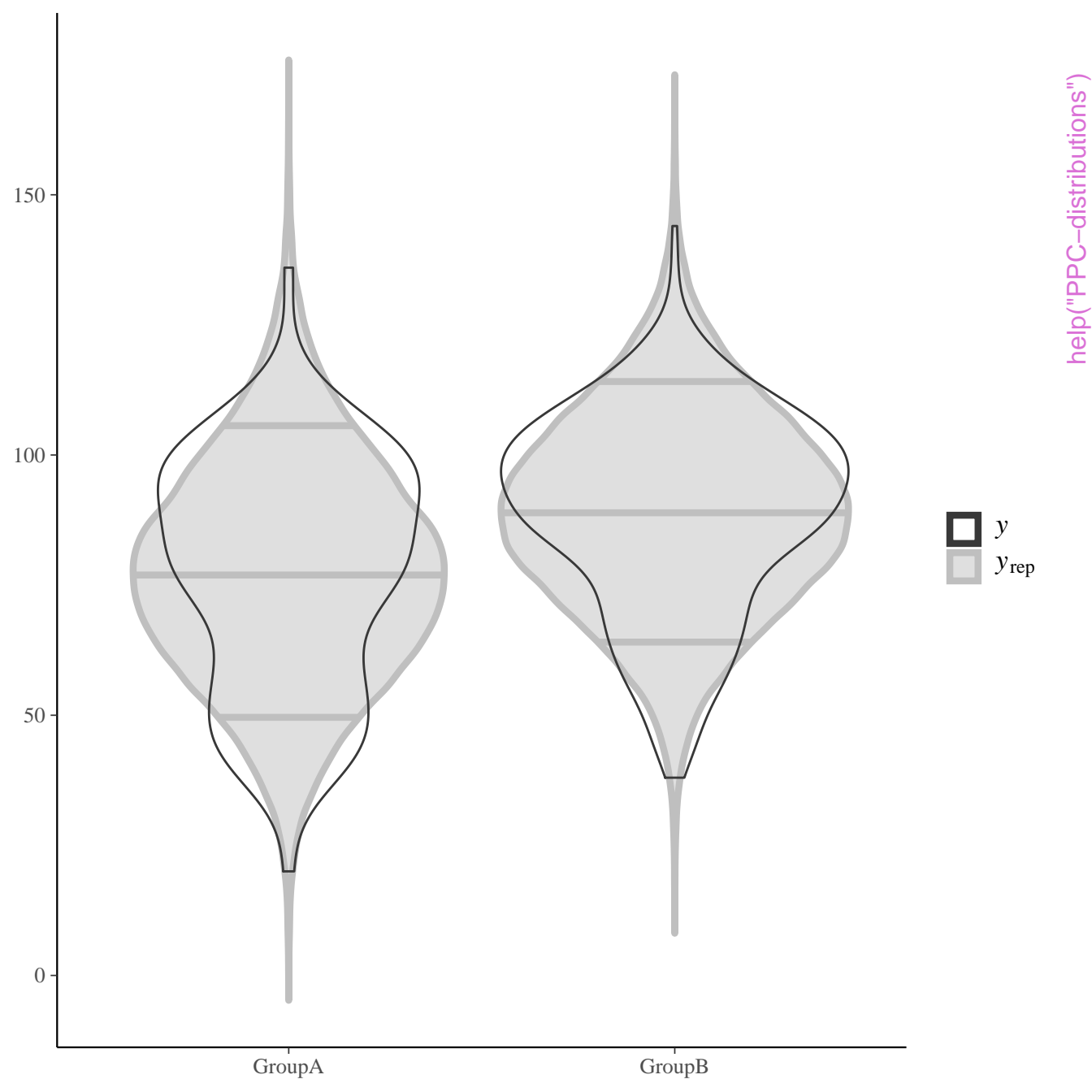


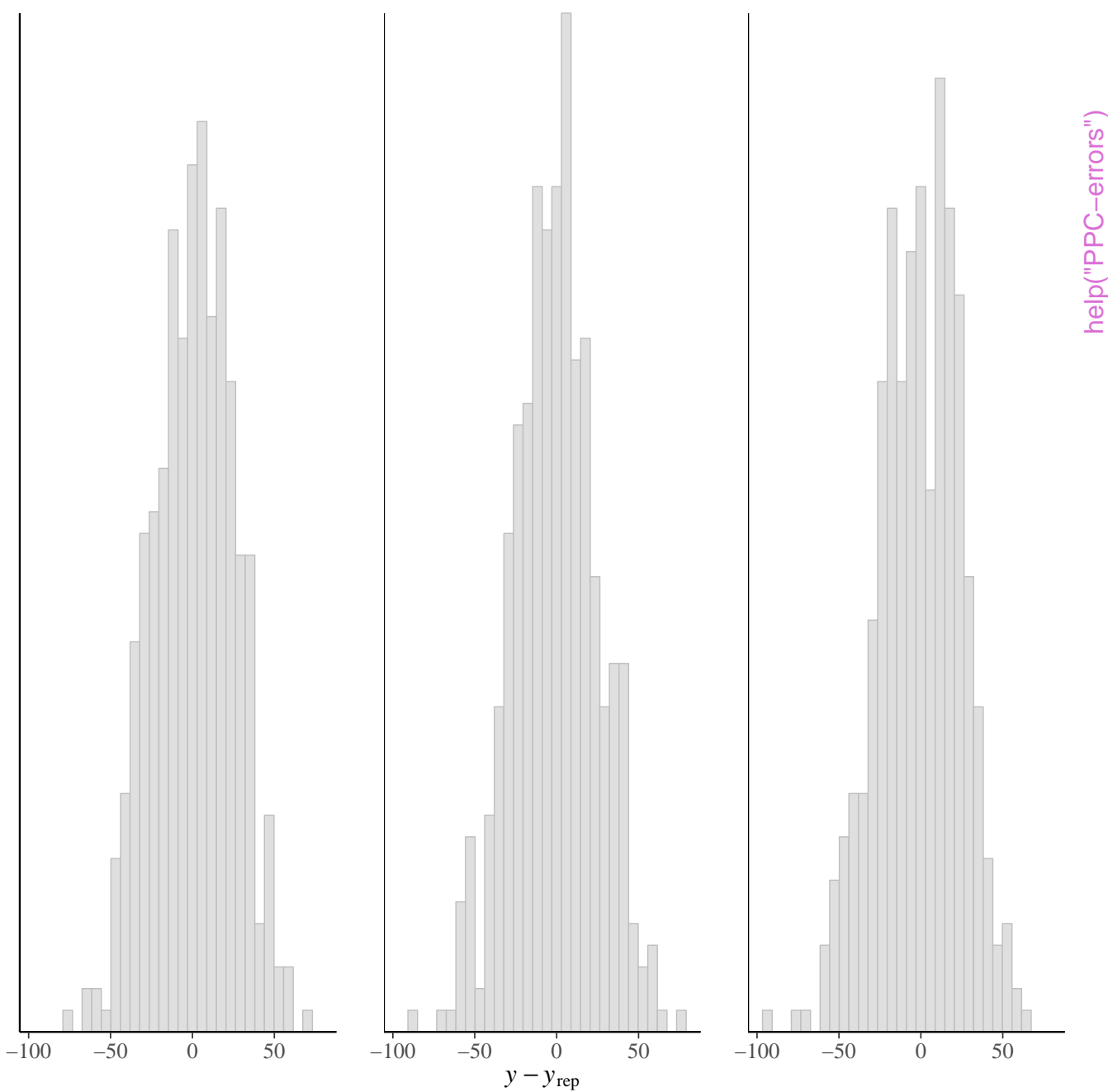
GroupB



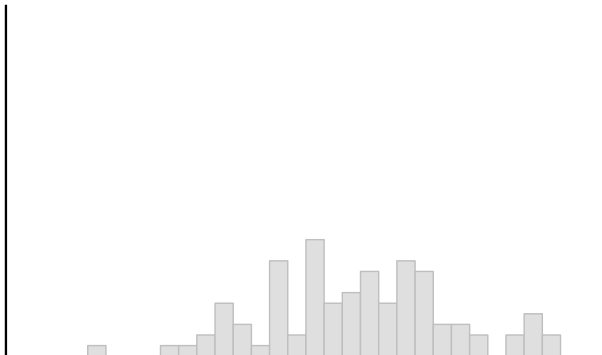
$y$   
 $y_{rep}$

help("PPC-distributions")

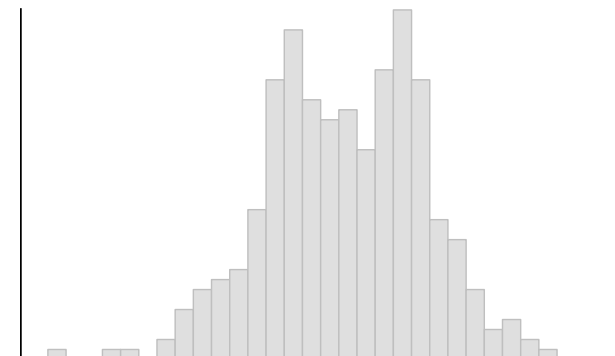
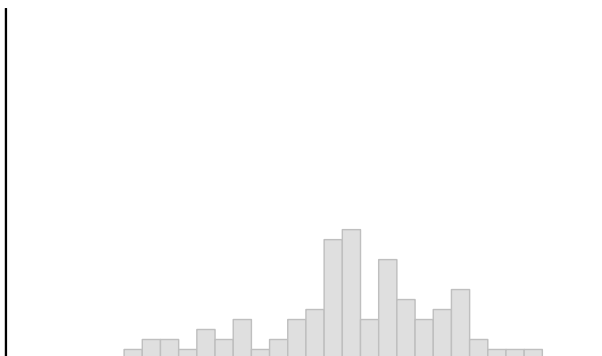
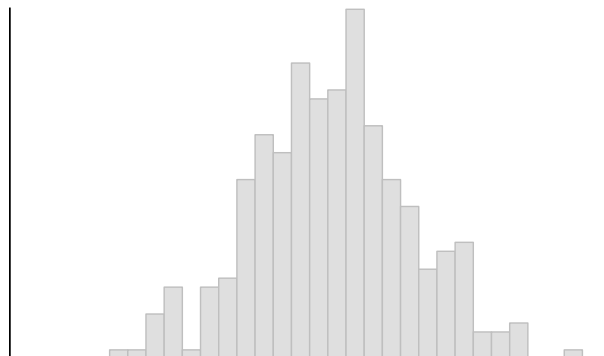
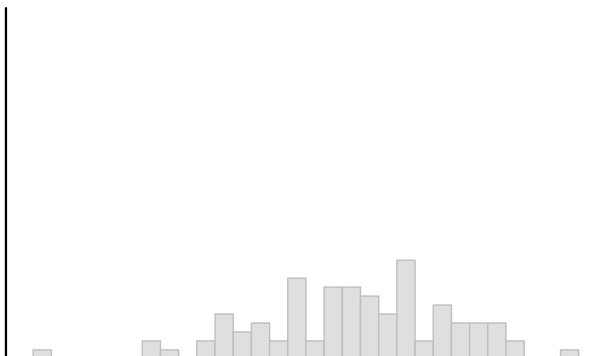
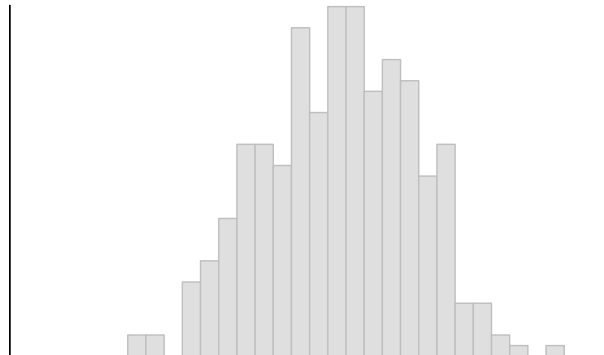




GroupA



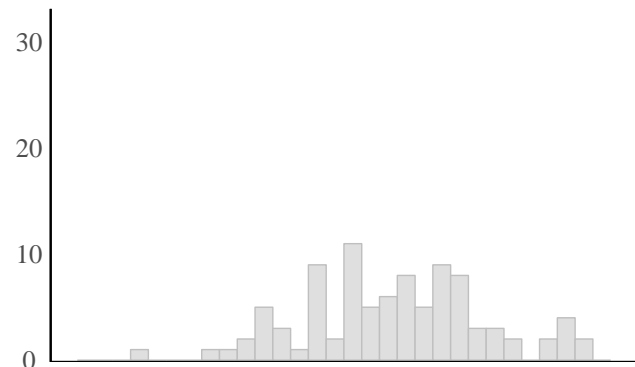
GroupB

 $y - y_{\text{rep}}$ 

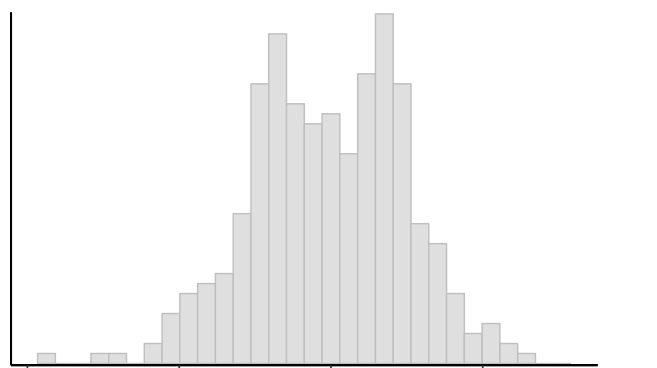
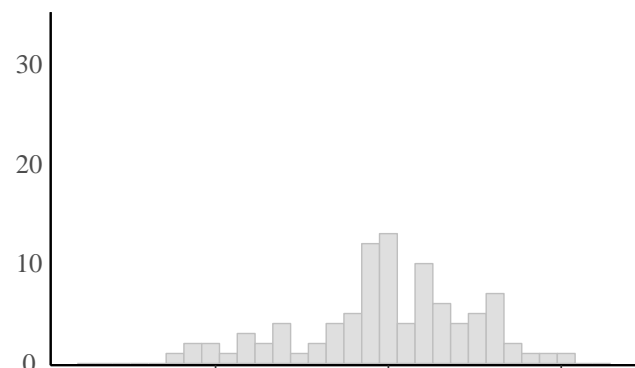
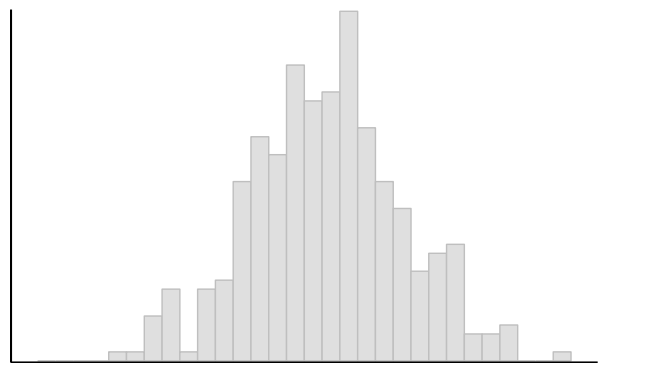
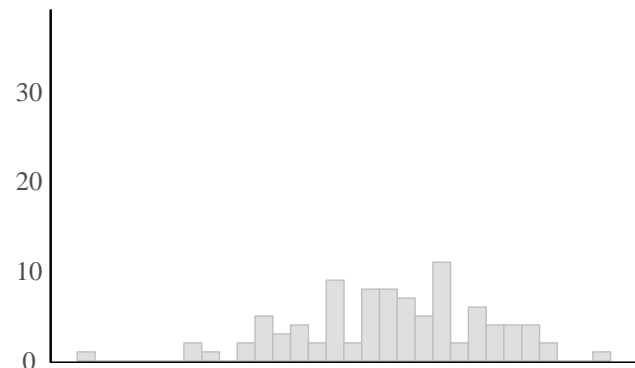
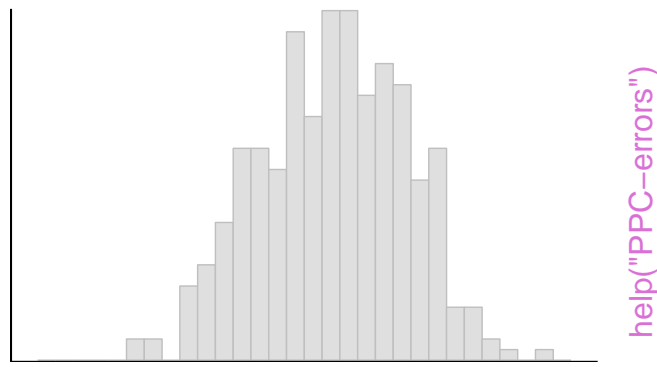
help("PPC-errors")



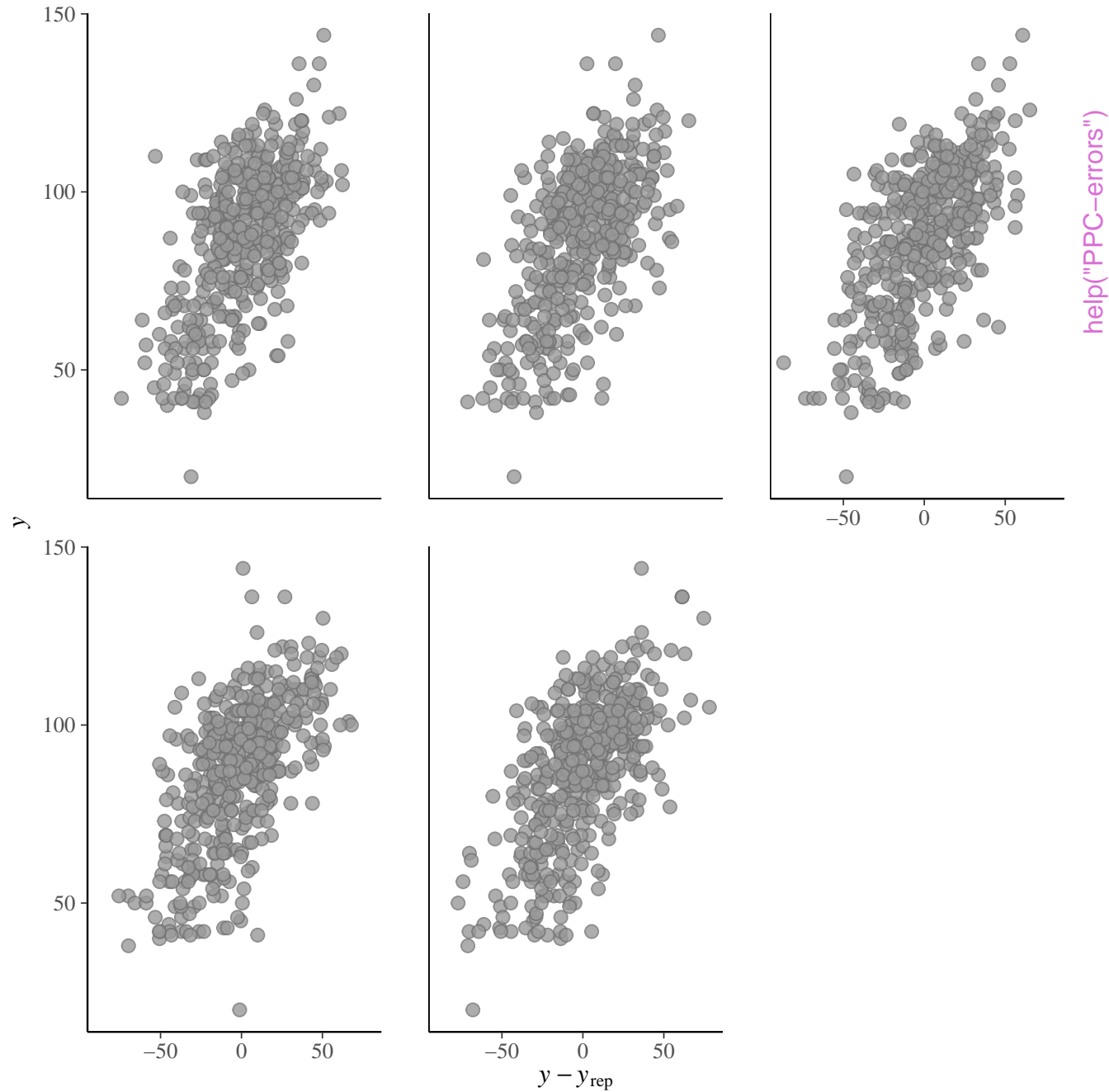
GroupA

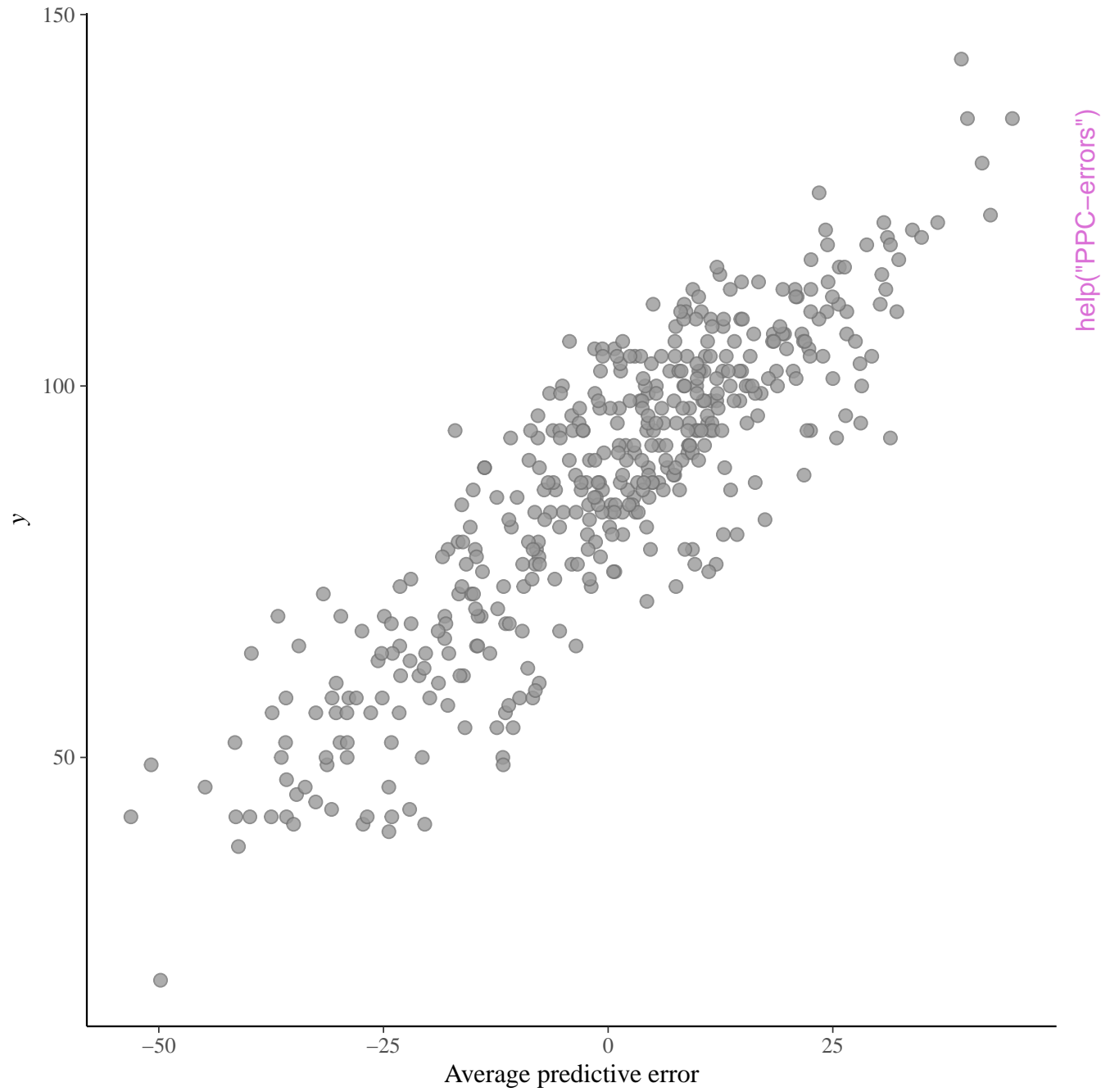


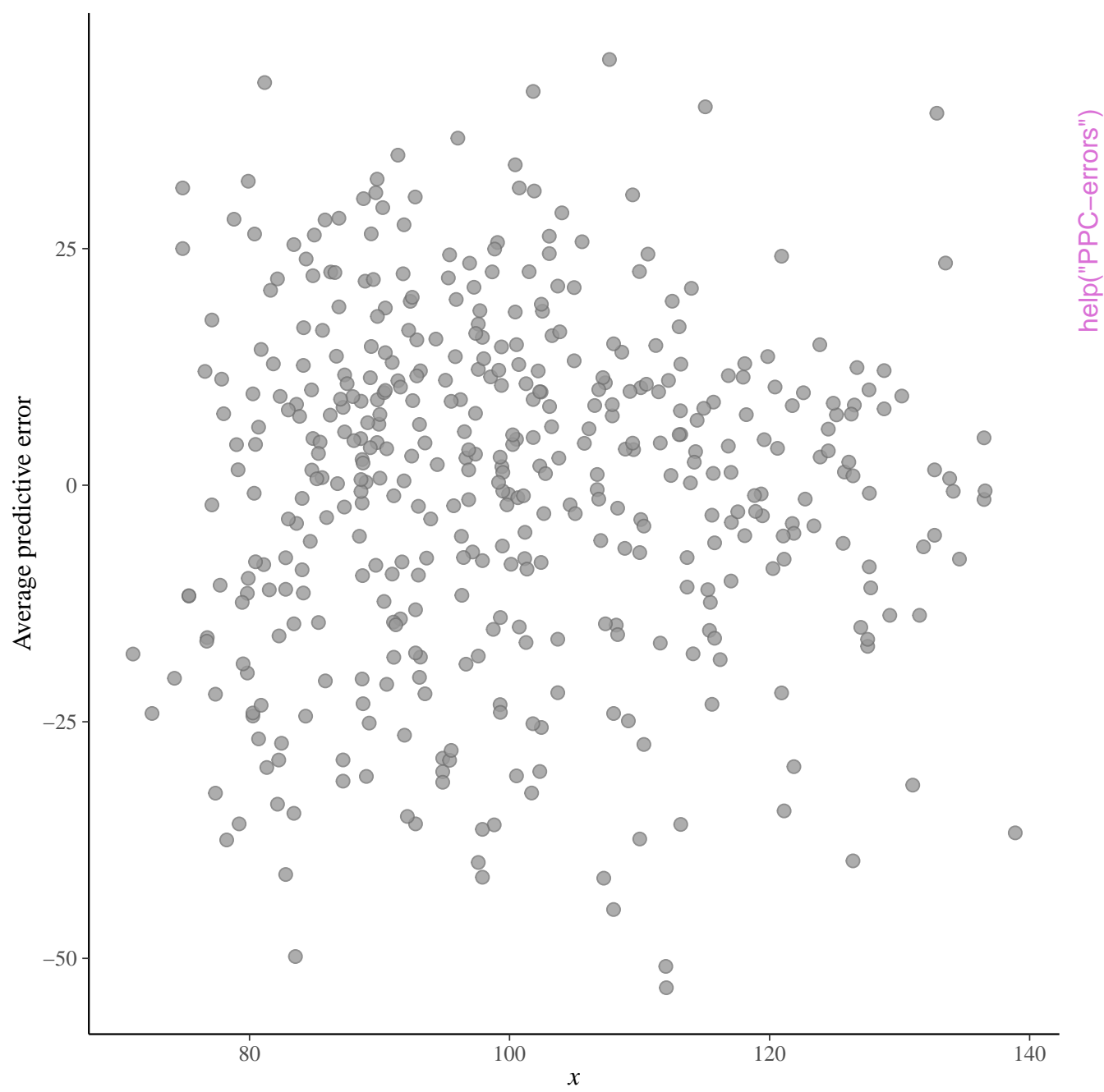
GroupB

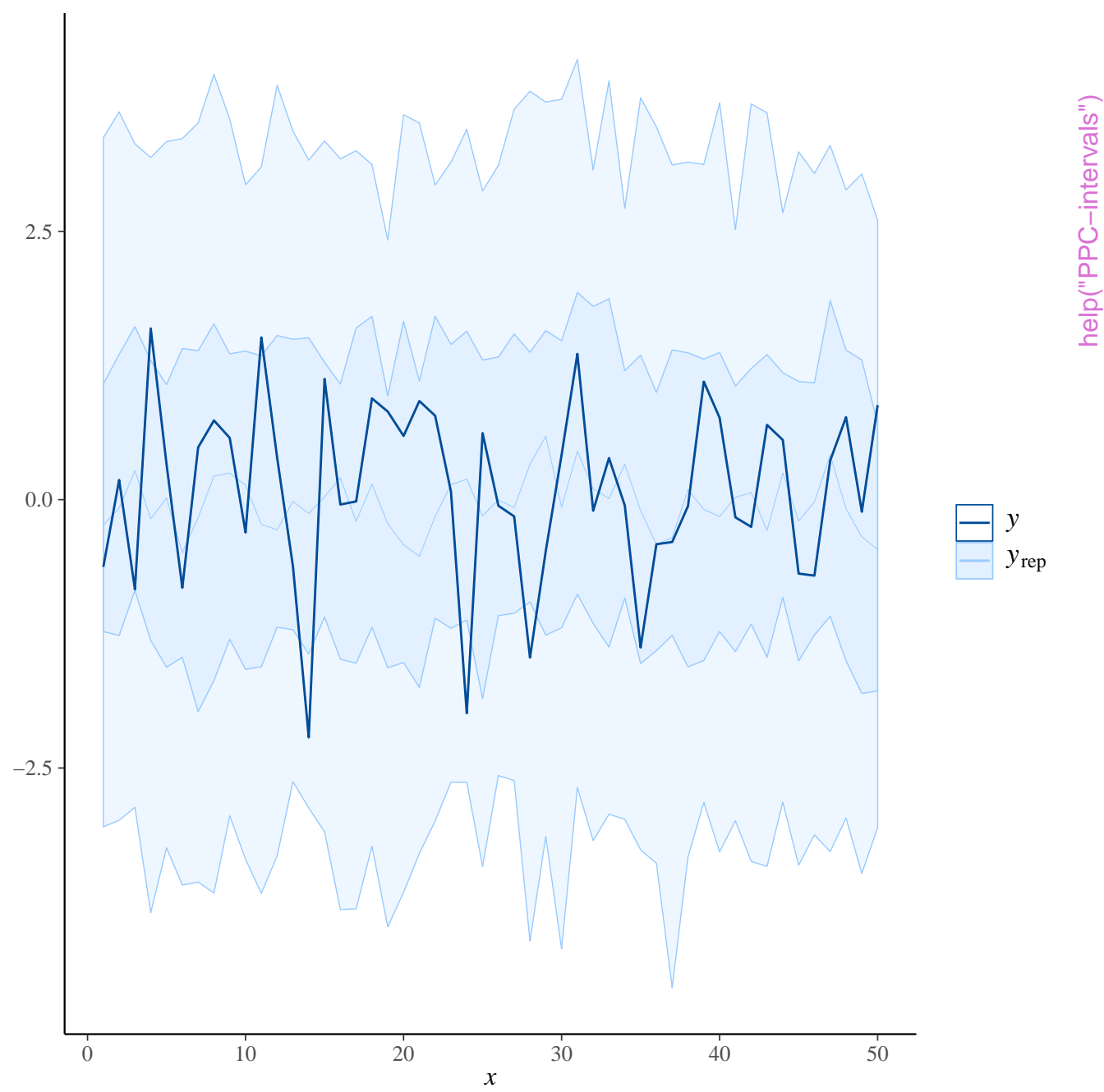
 $y - y_{\text{rep}}$ 

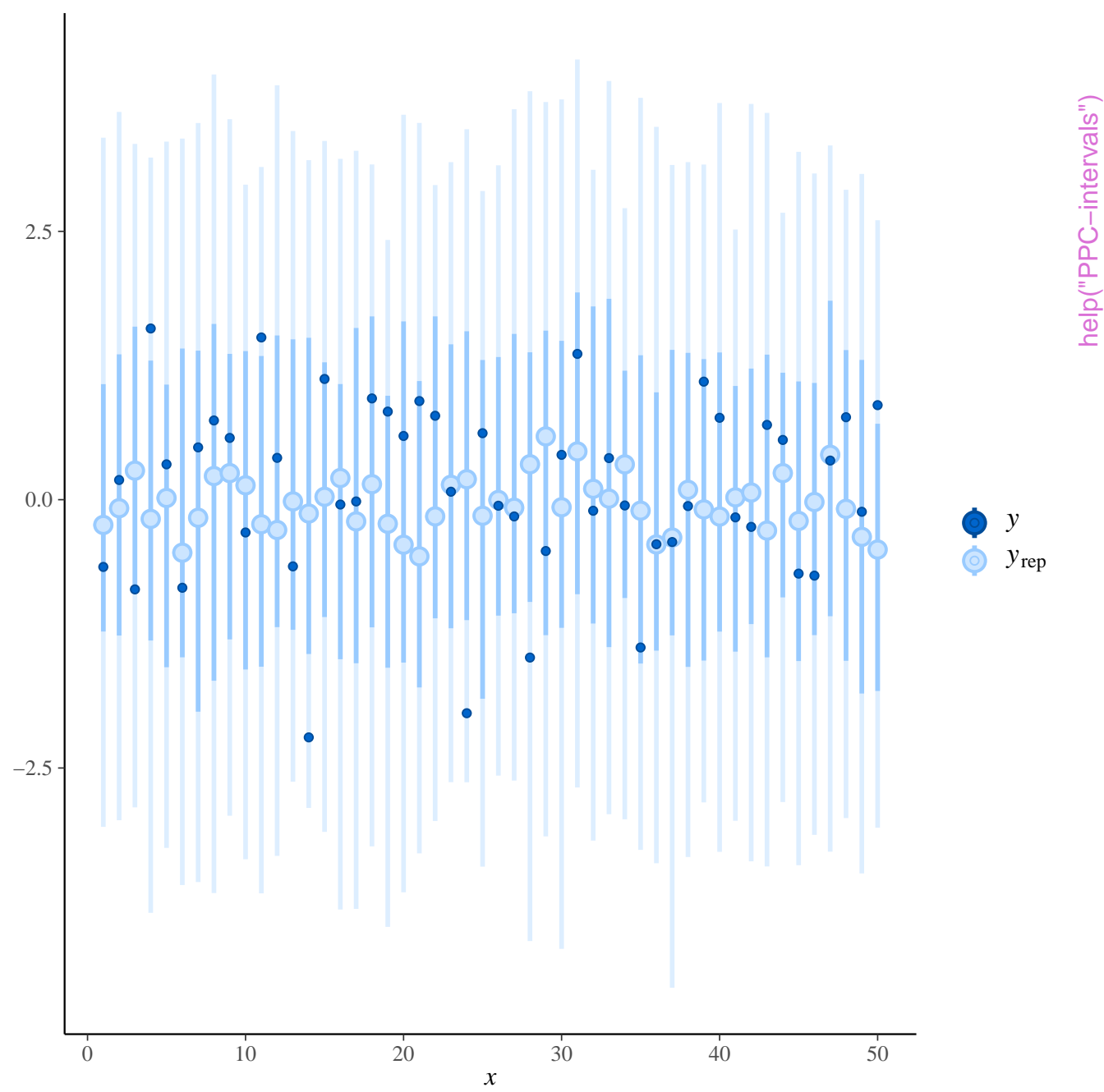
help("PPC-errors")

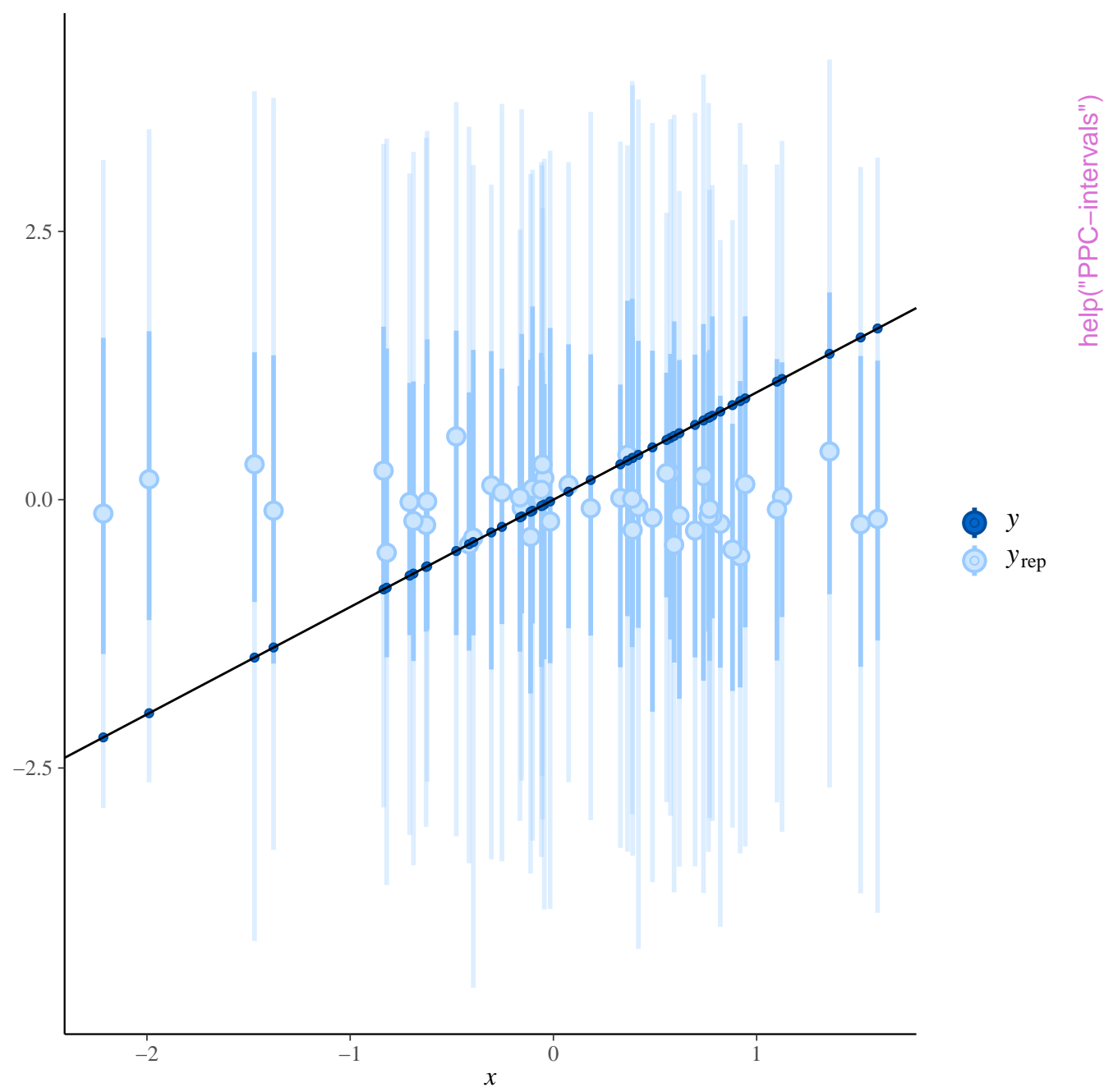


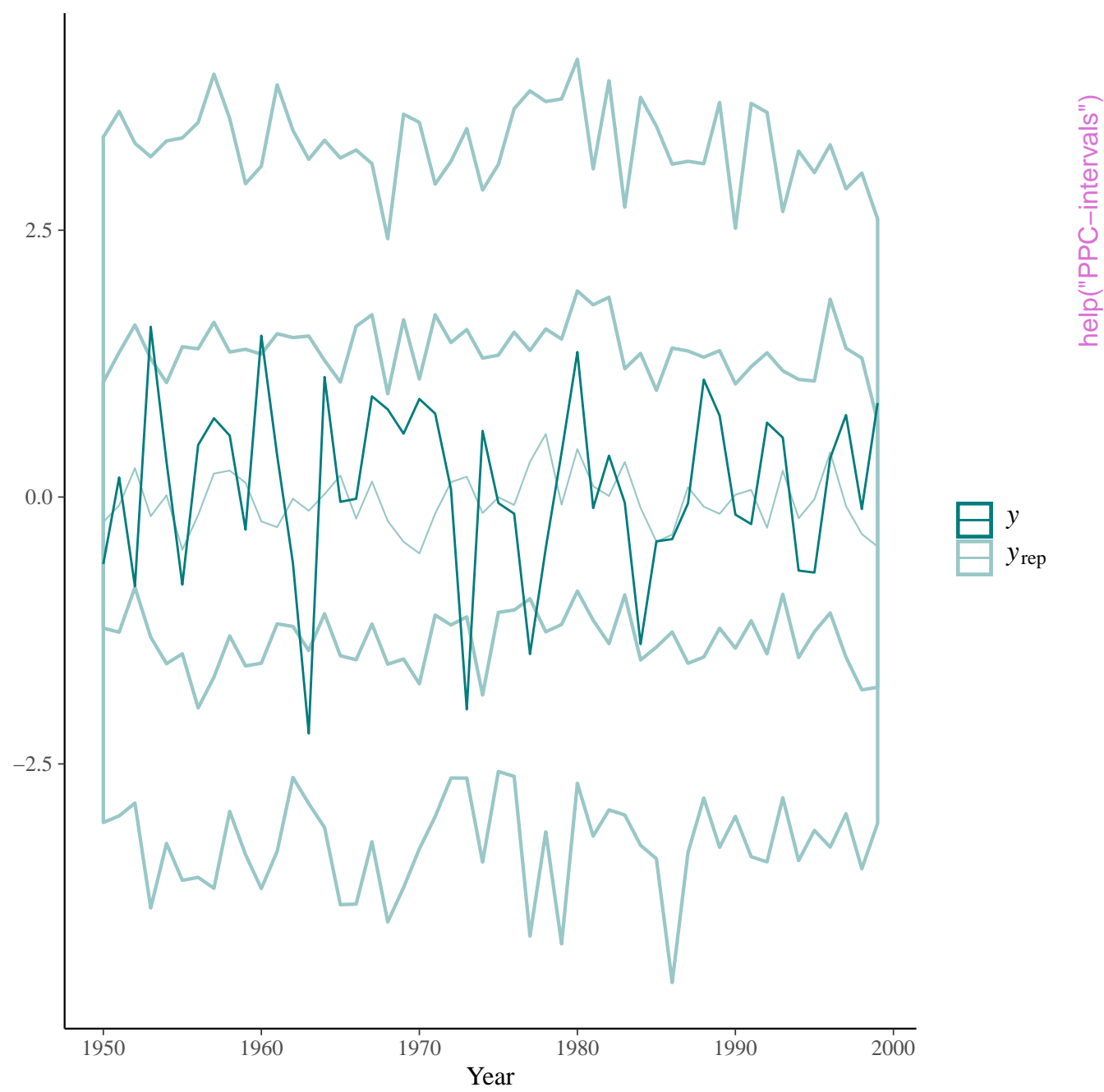






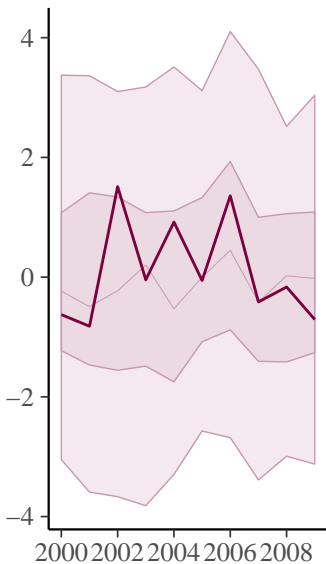




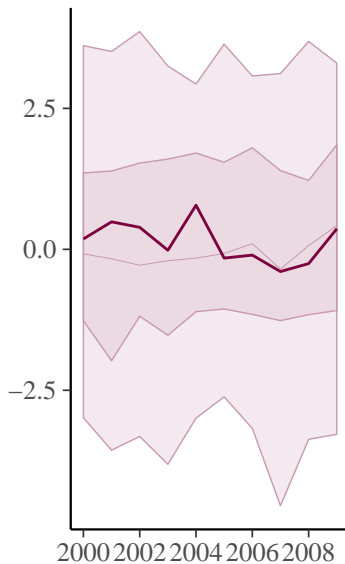




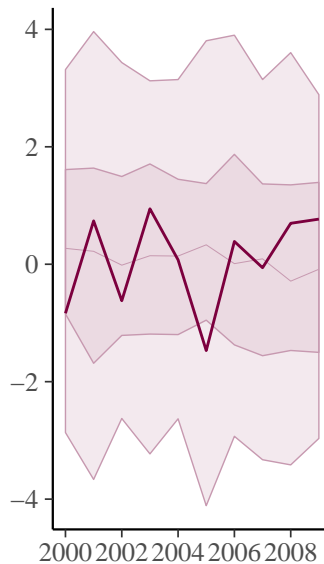
A



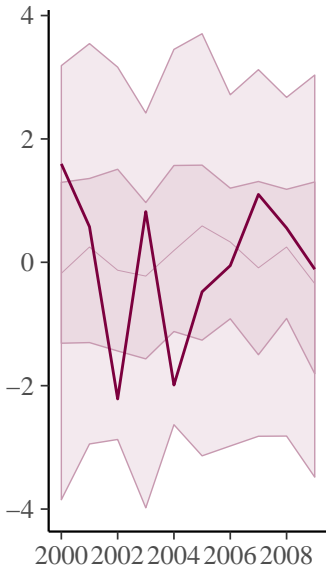
B



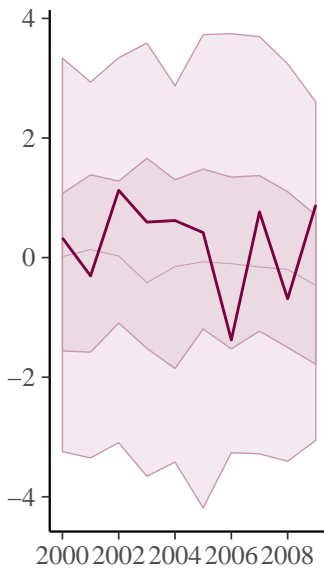
C



D



E

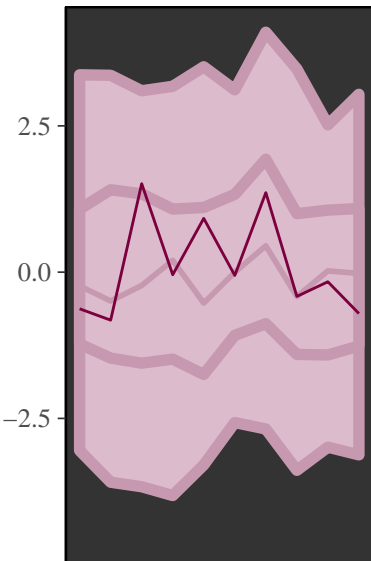


$y$   
 $y_{\text{rep}}$

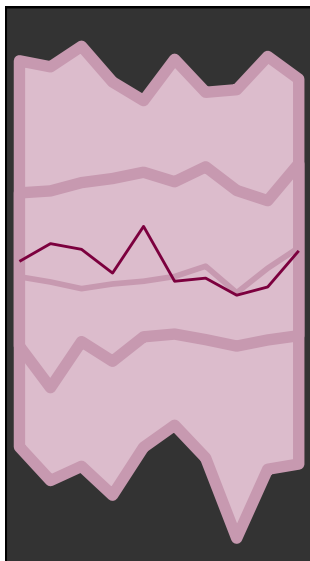
help("PPC-intervals")

$x$

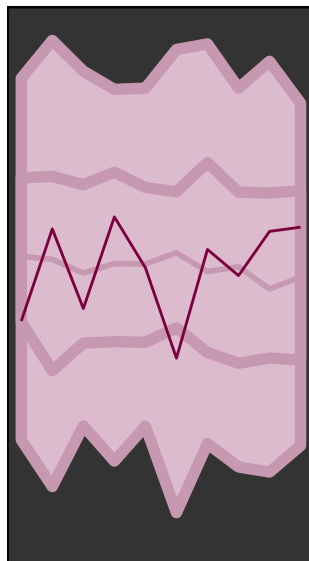
A



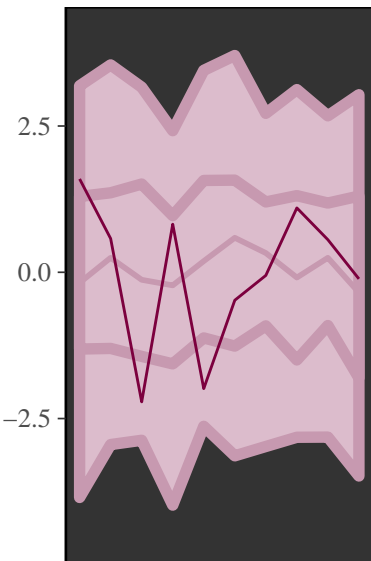
B



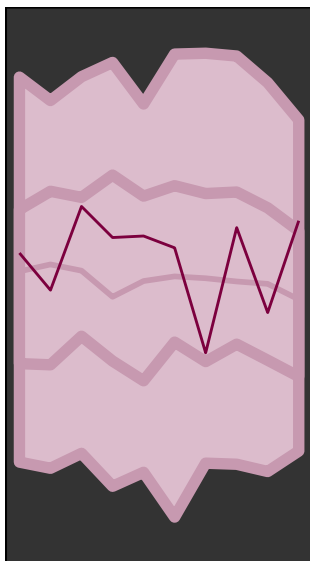
C



D

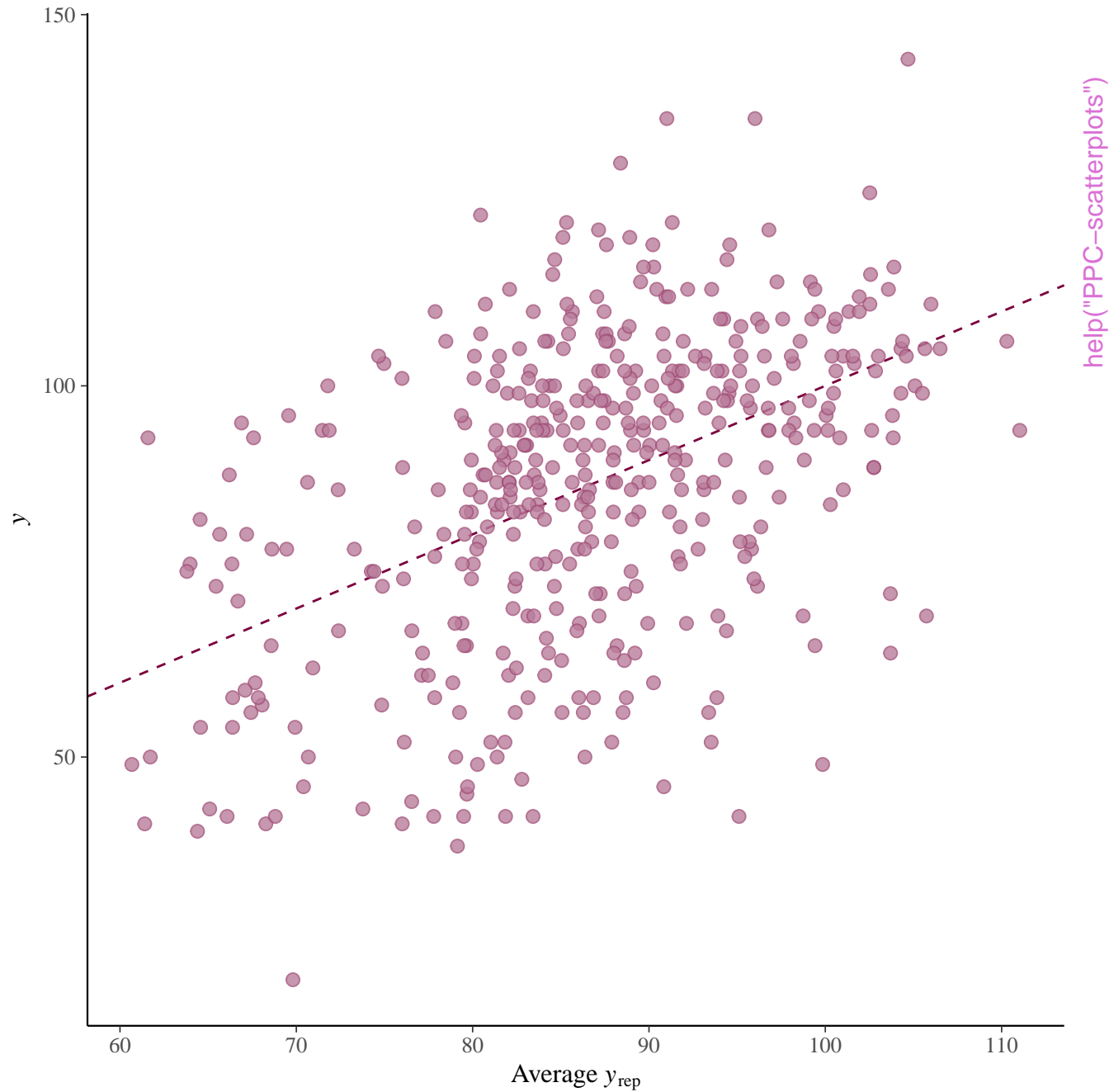


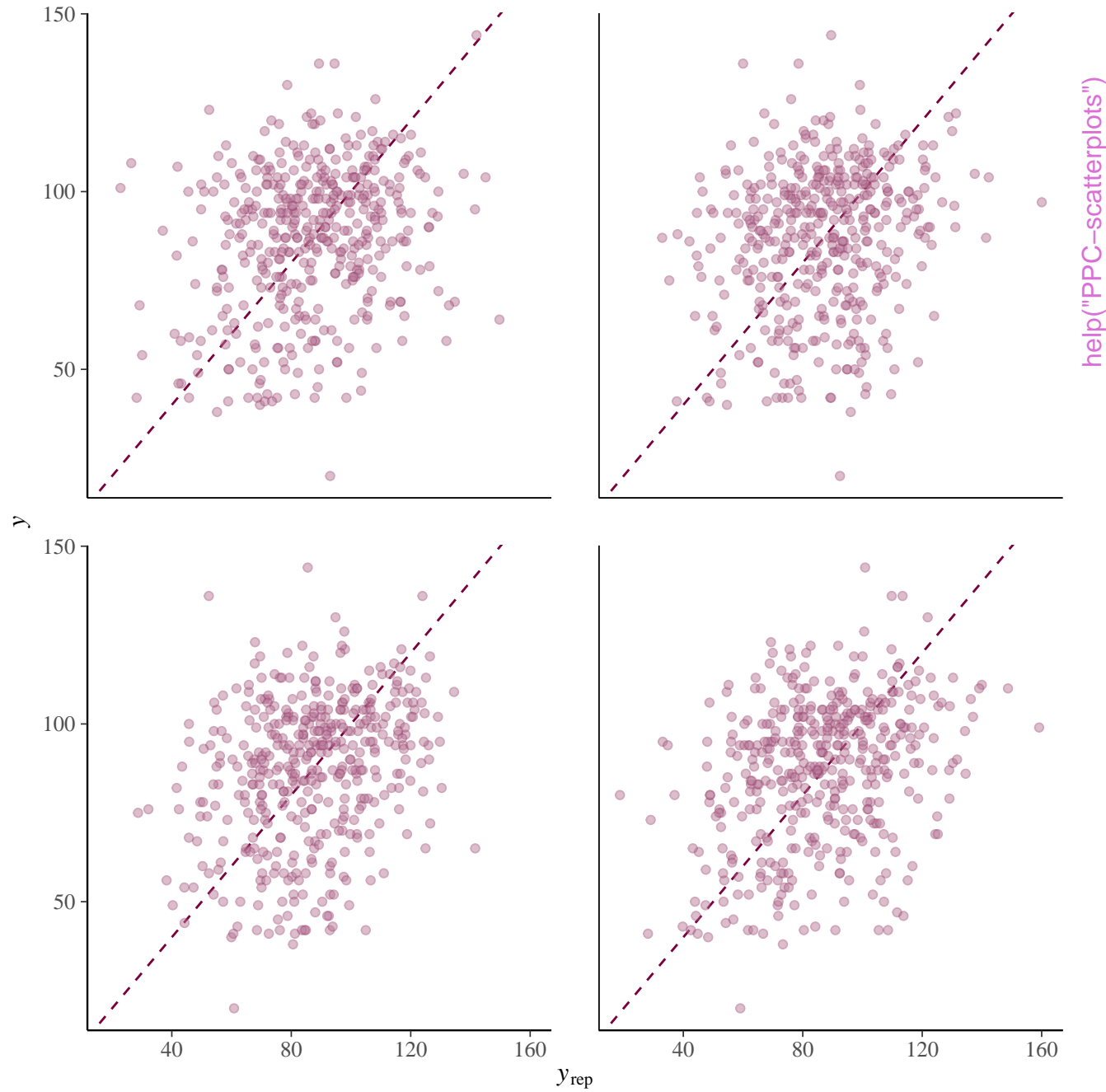
E

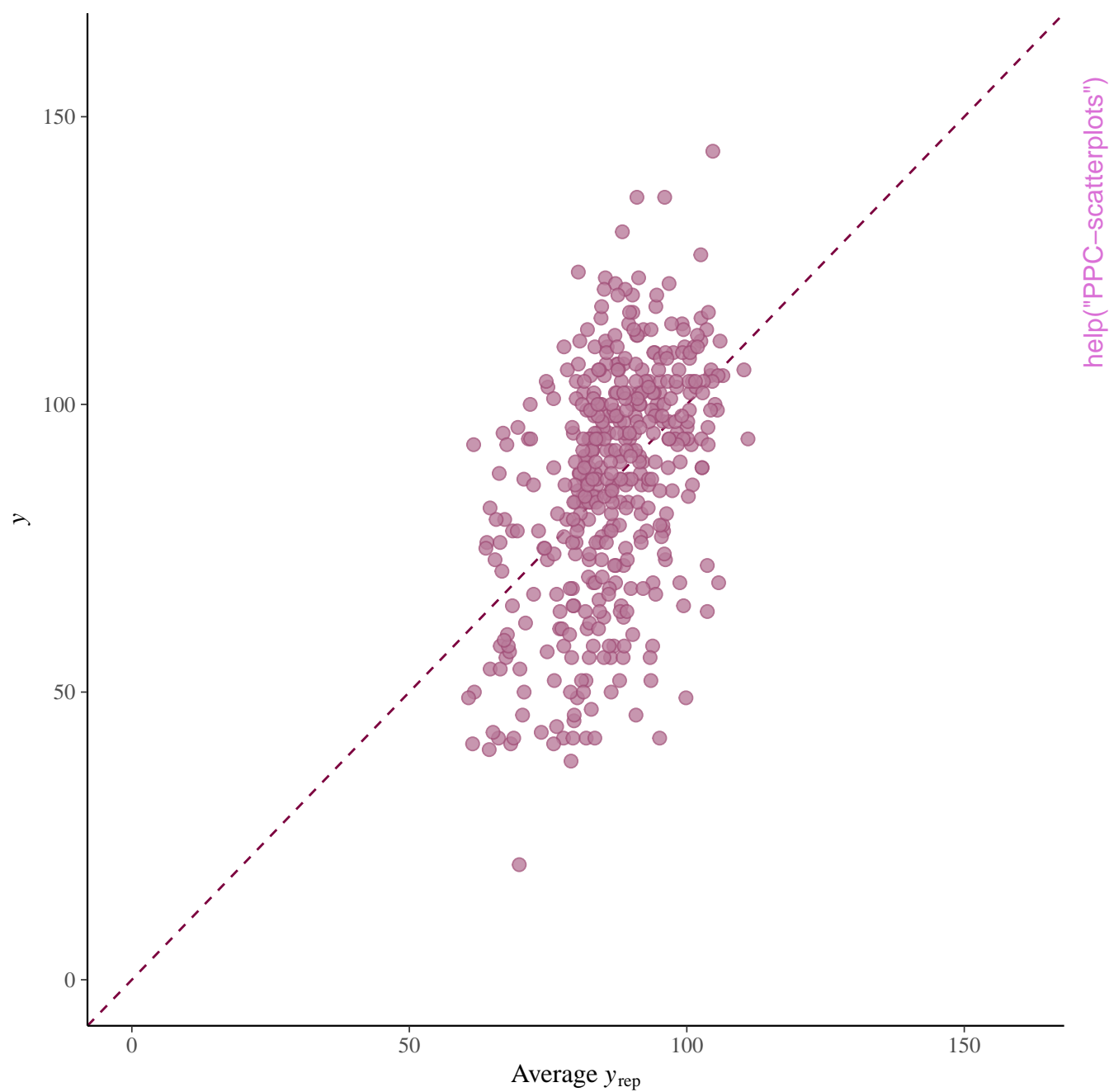
 $x$ 

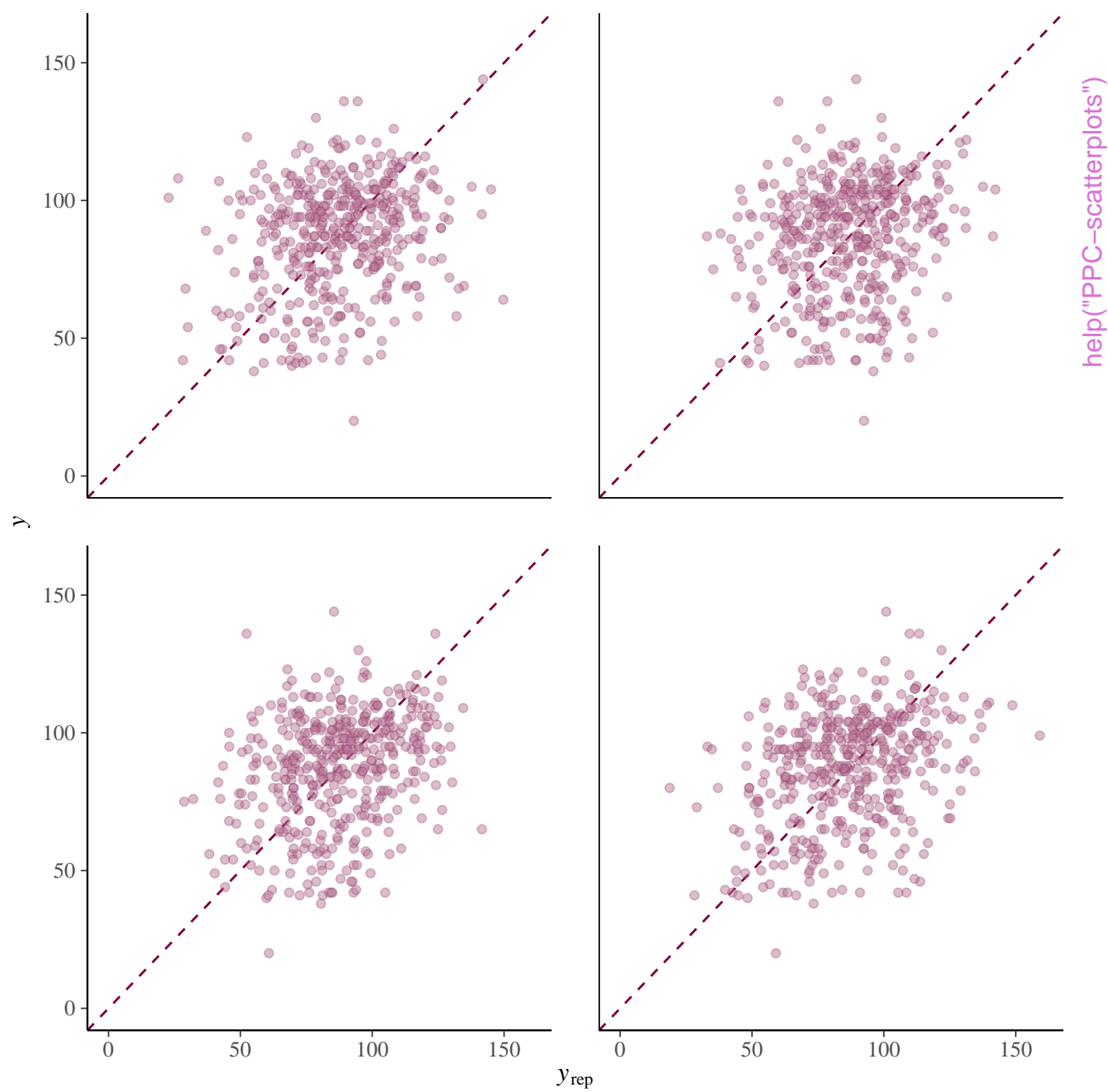
$y$   
 $y_{\text{rep}}$

help("PPC-intervals")

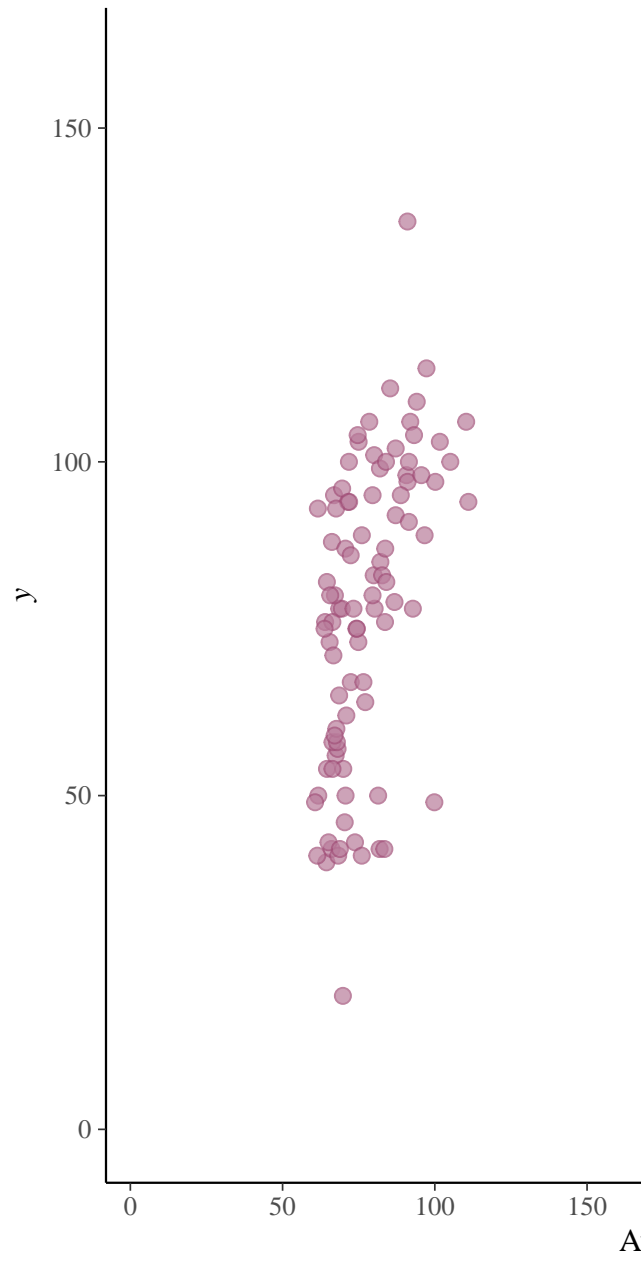




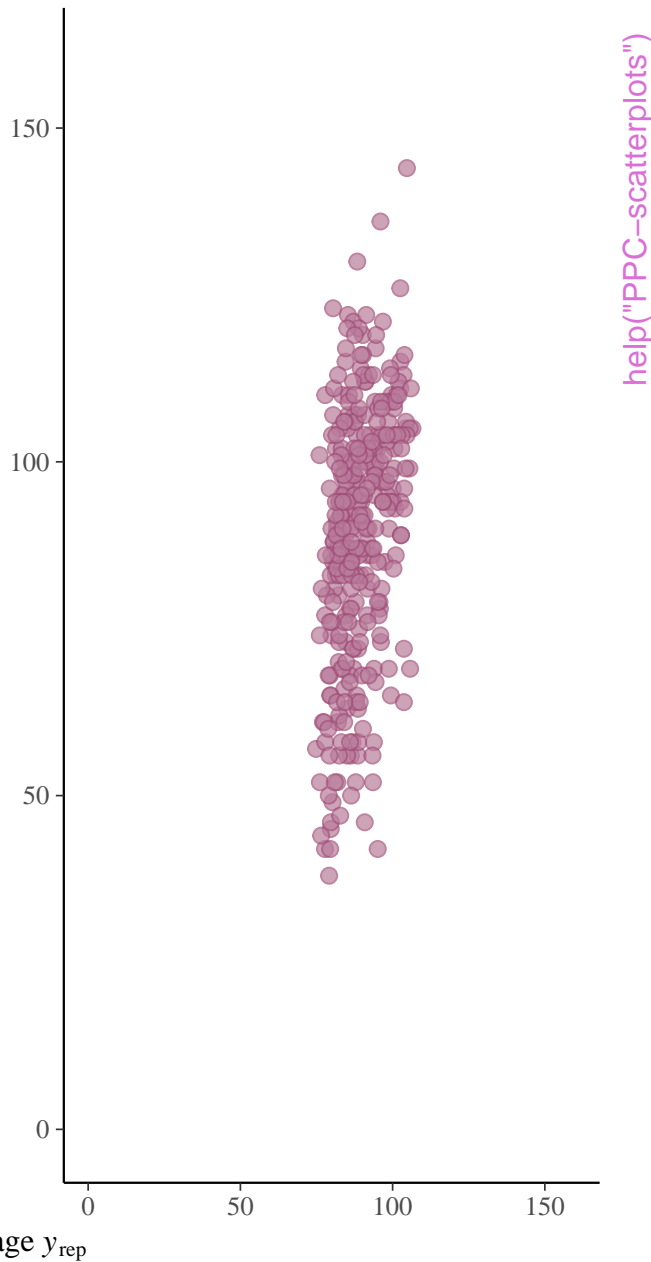




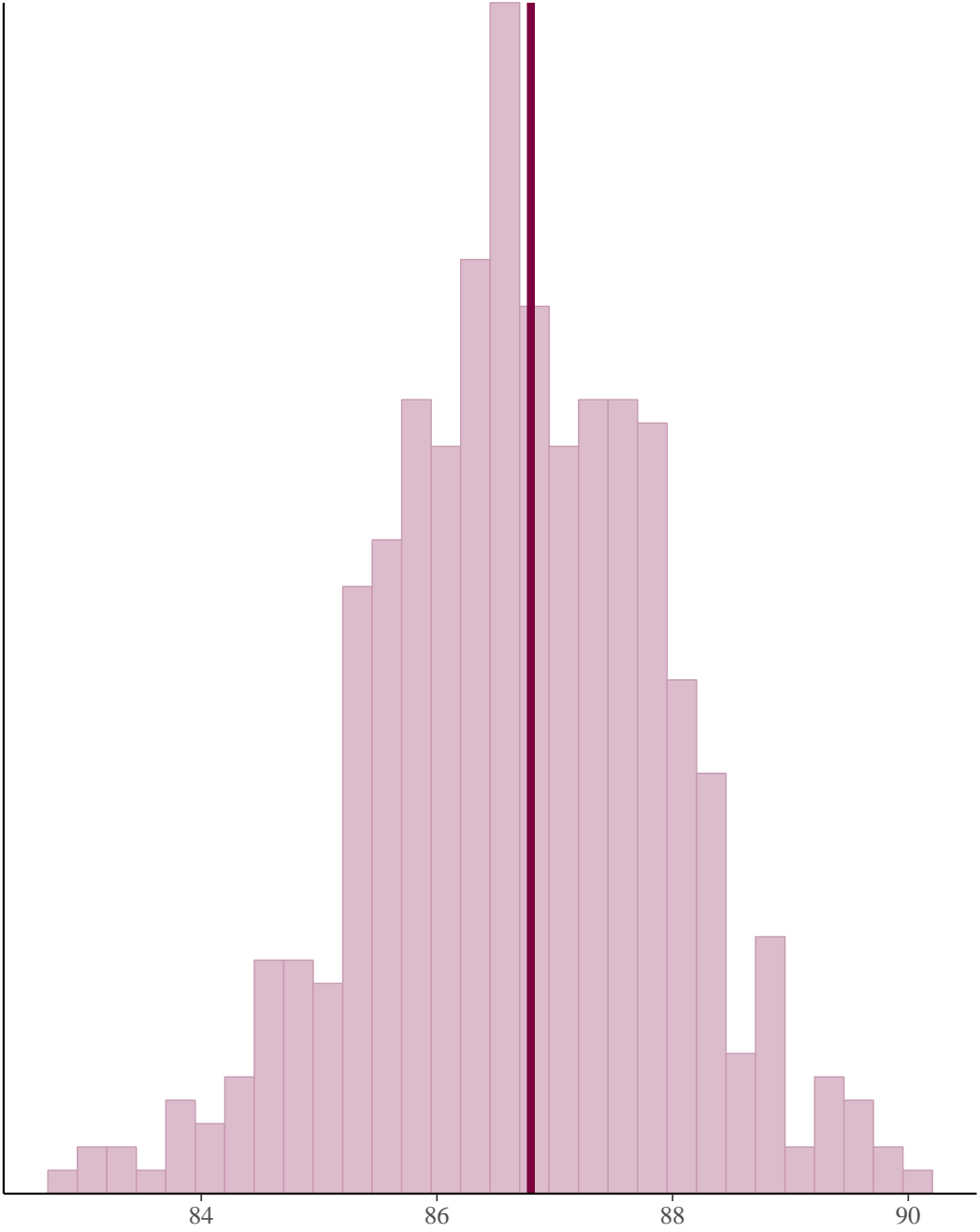
GroupA



GroupB



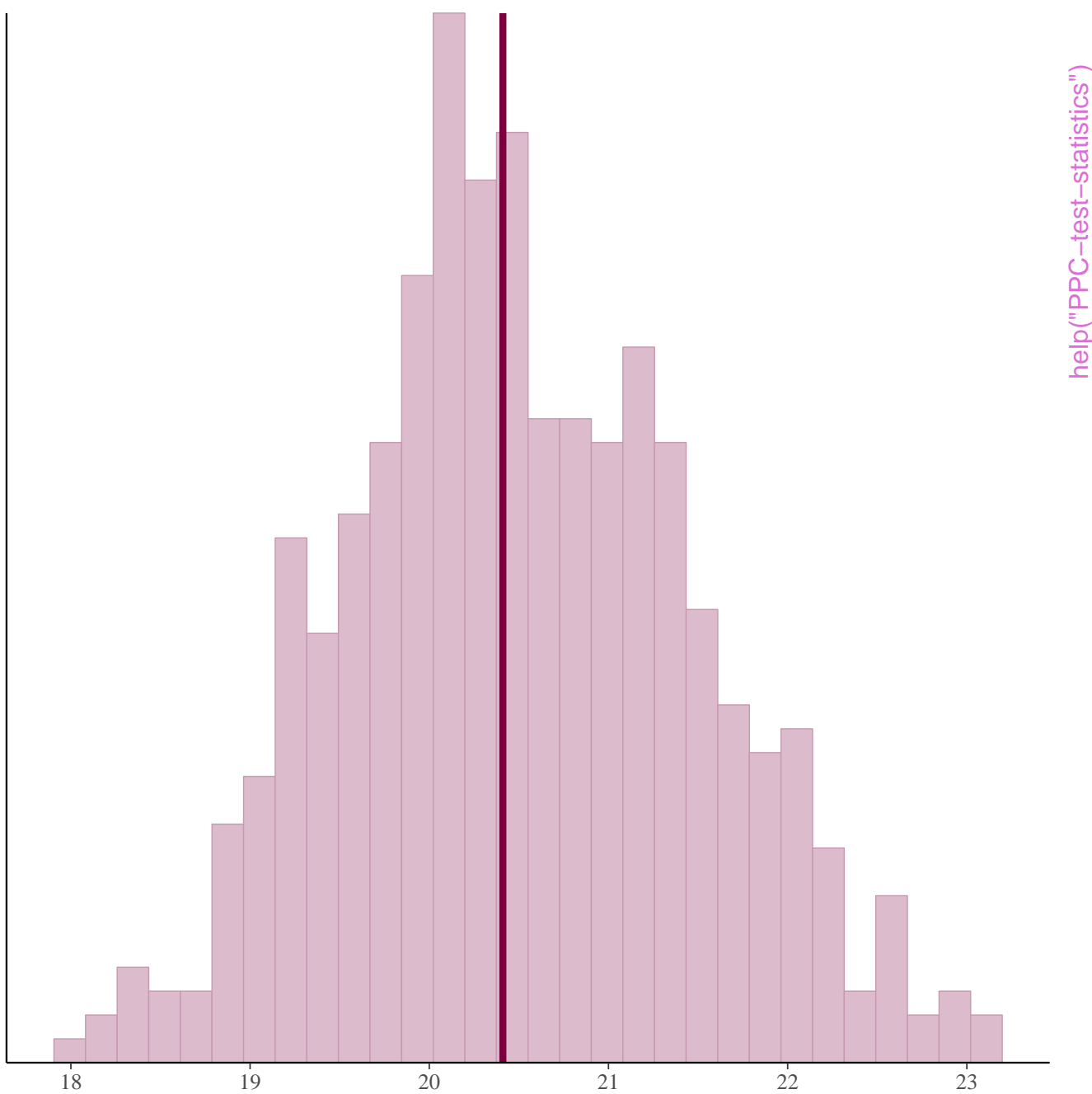
help("PPC-scatterplots")

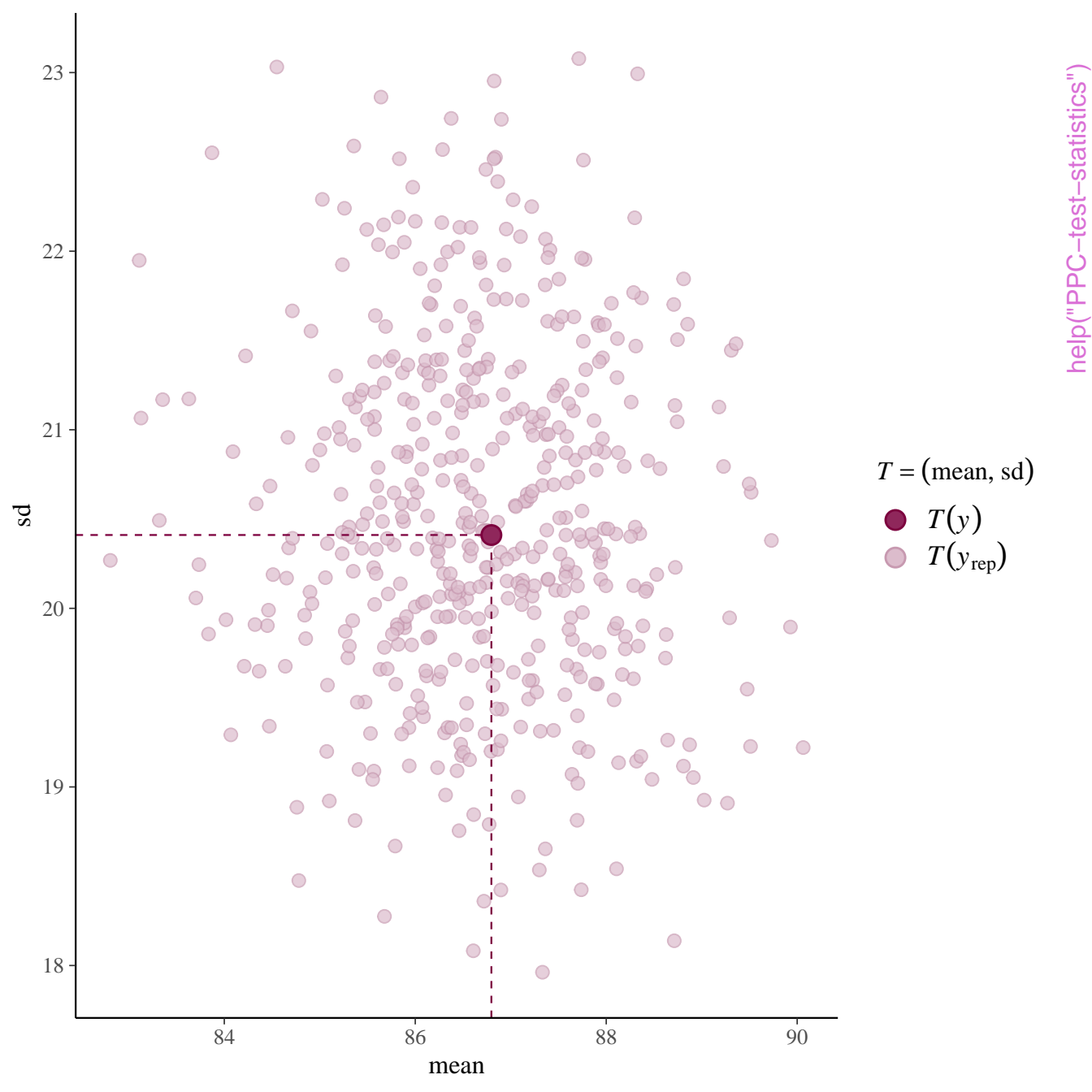


$T = \text{mean}$   
 $T(y_{\text{rep}})$   
 $T(y)$

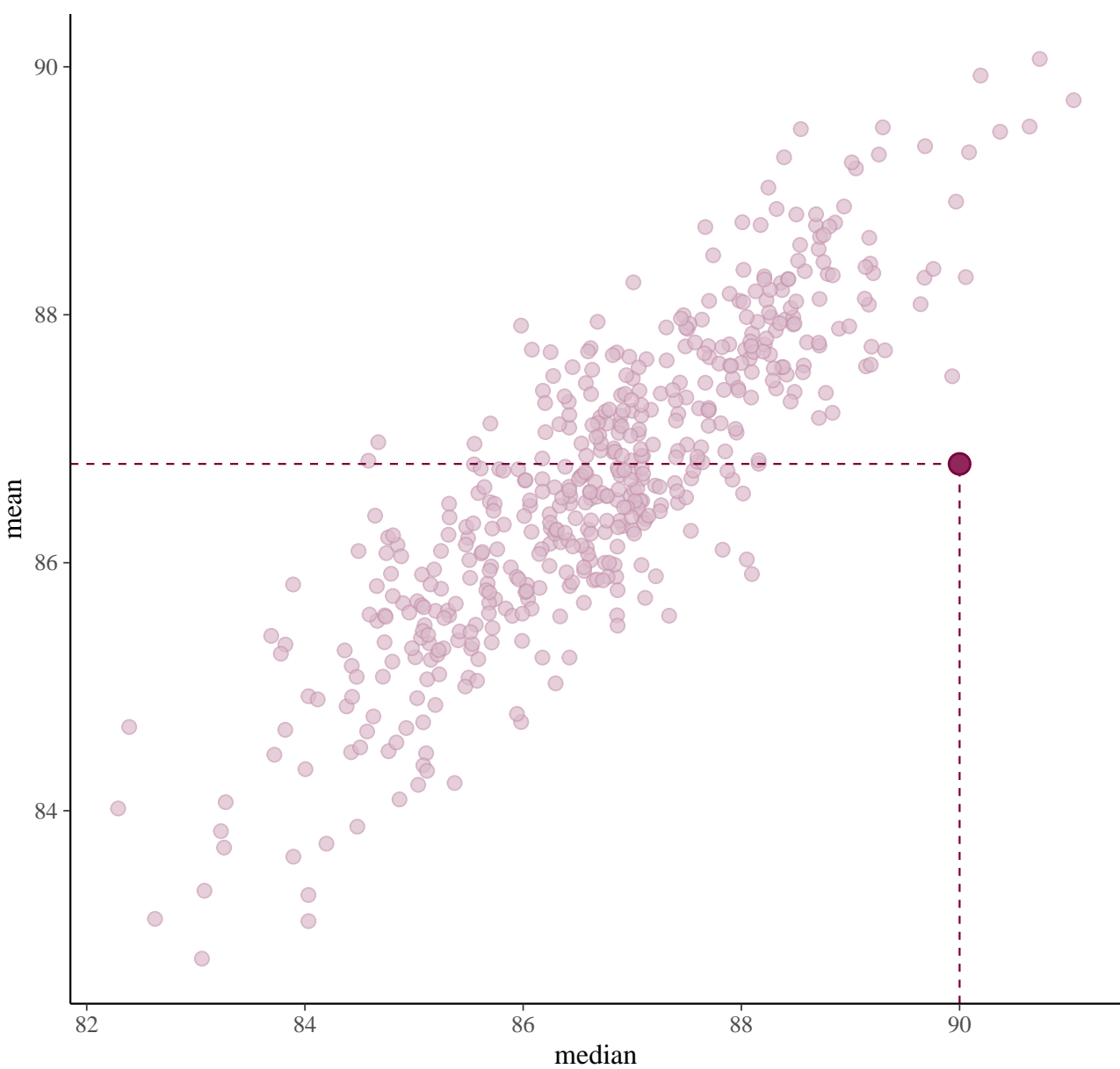
help("PPC-test-statistics")





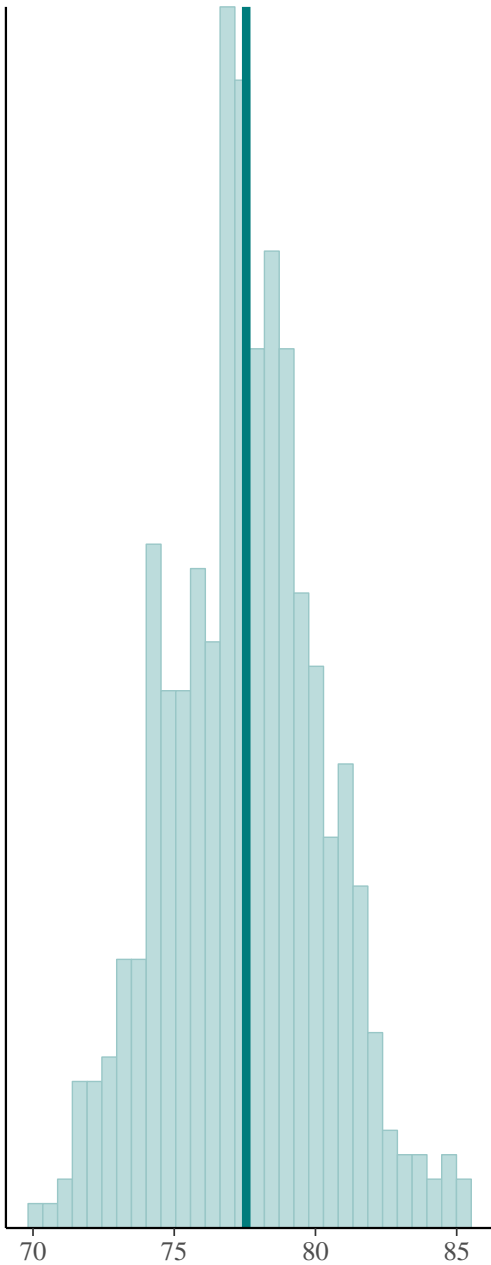


help("PPC-test-statistics")

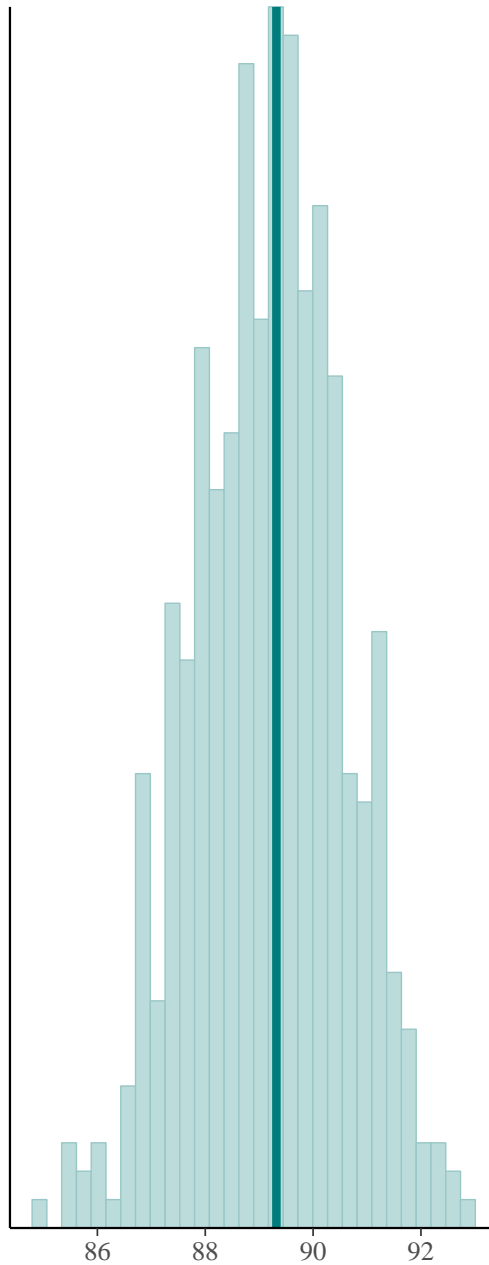


$T = (\text{median}, \text{mean})$    ●  $T(y)$    ●  $T(y_{\text{rep}})$

GroupA

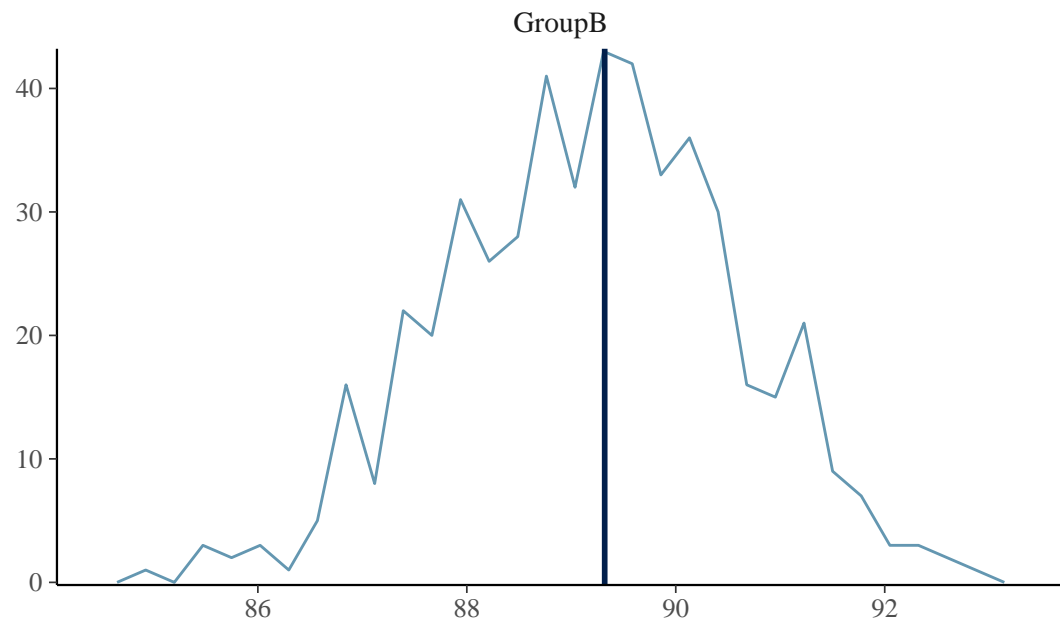
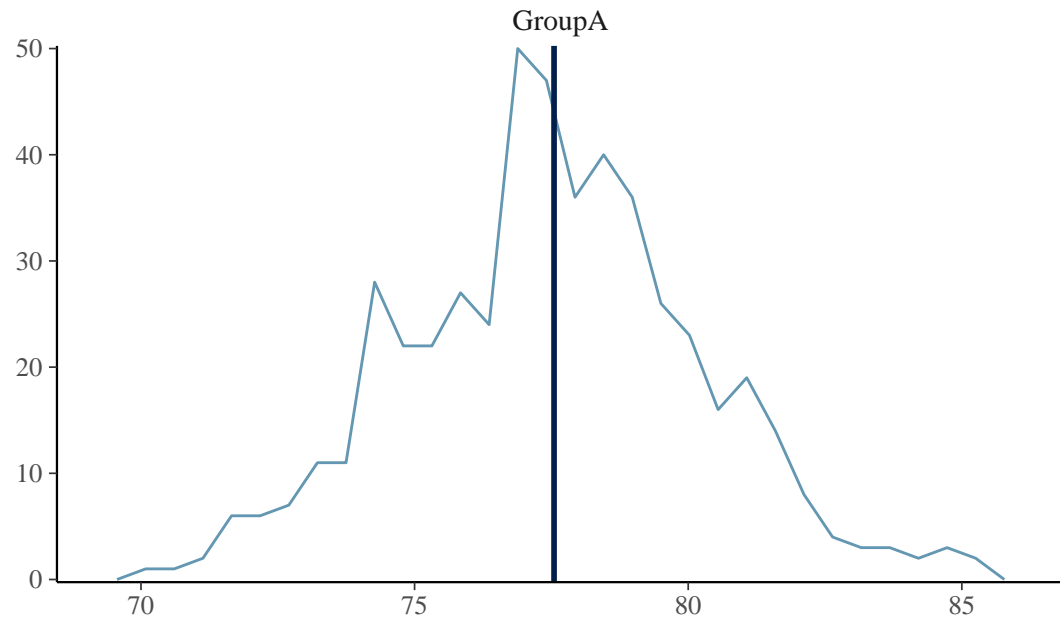


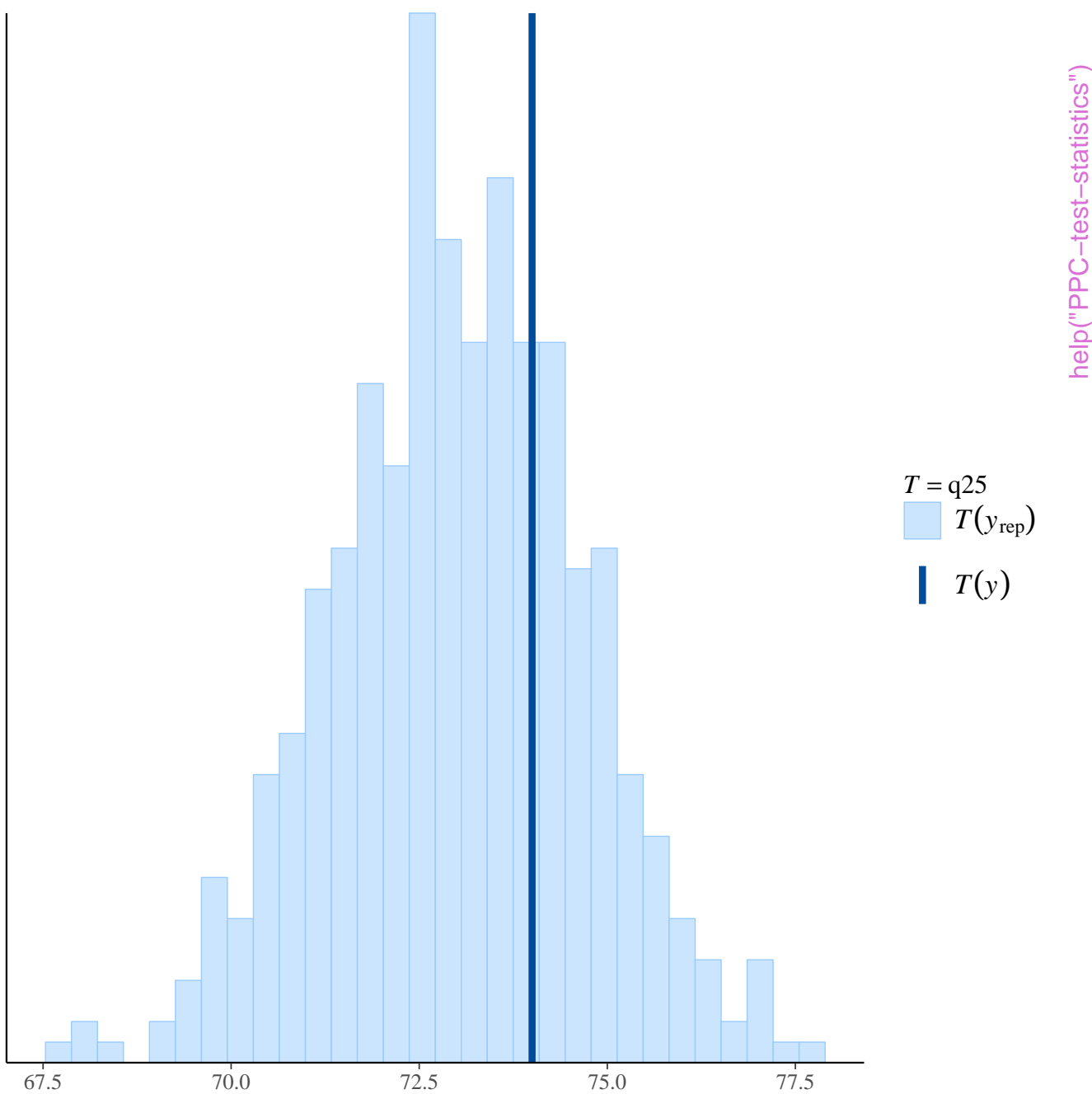
GroupB

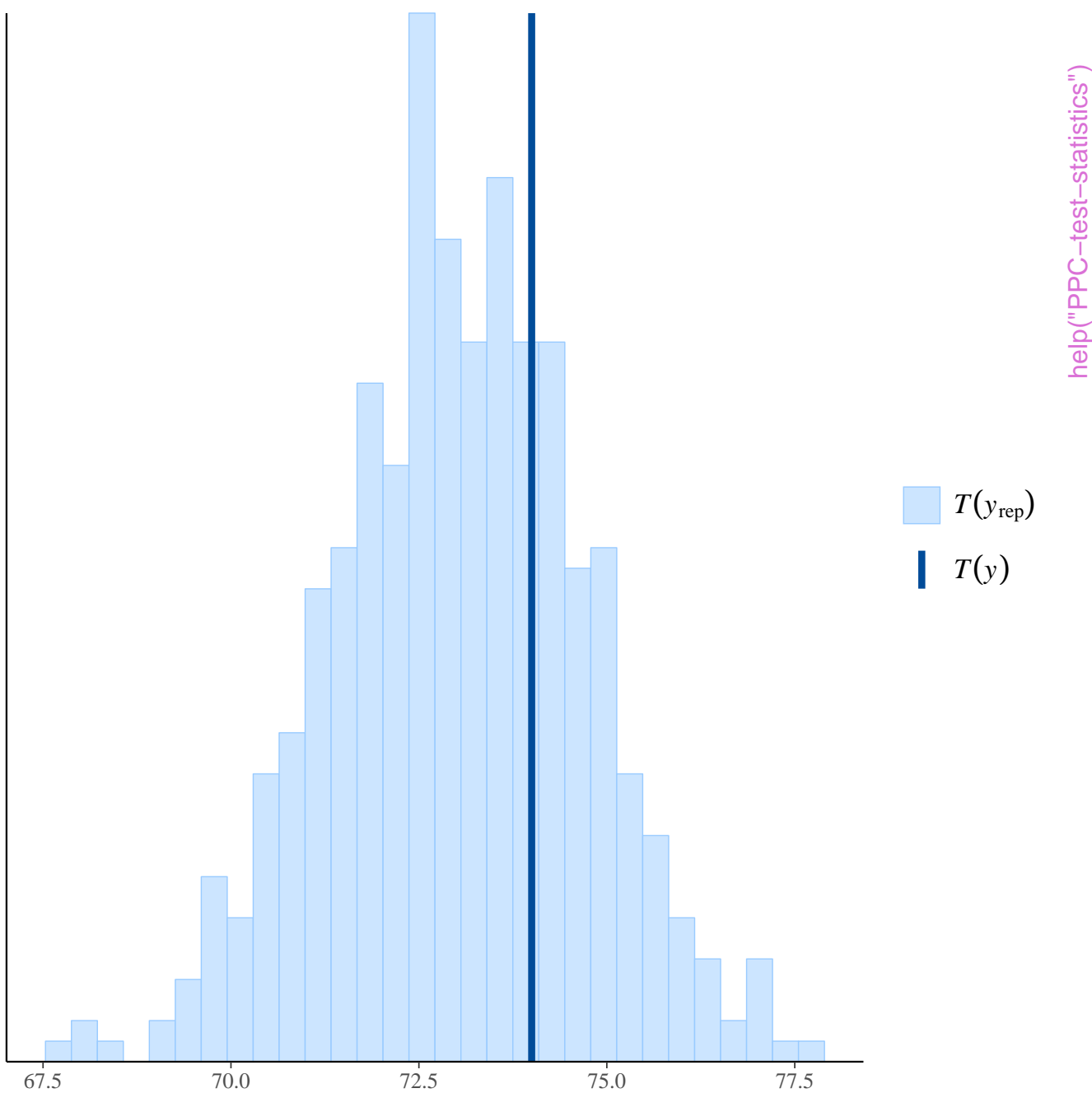


$T = \text{mean}$   
 $T(y_{\text{rep}})$   
 $T(y)$

help("PPC-test-statistics")



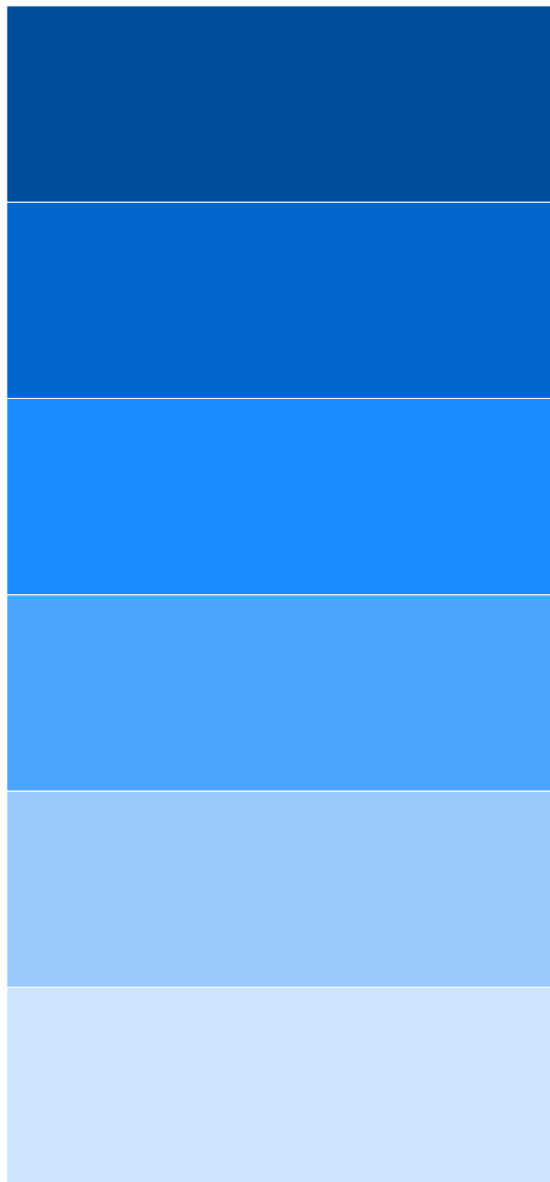






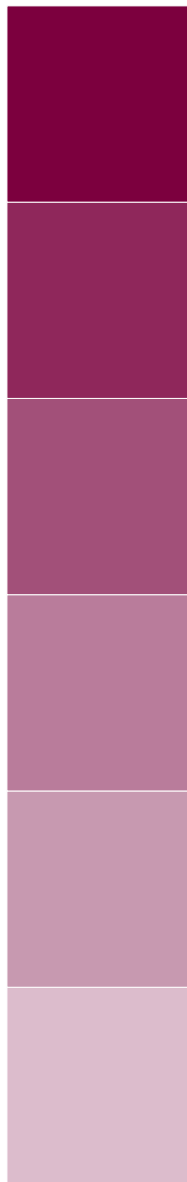
`help("bayesplot-colors")`





**brightblue**

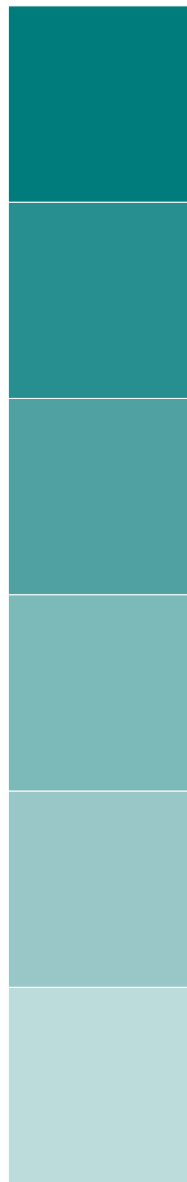
help("bayesplot-colors")



**pink**



**gray**



**teal**

`help("bayesplot-colors")`



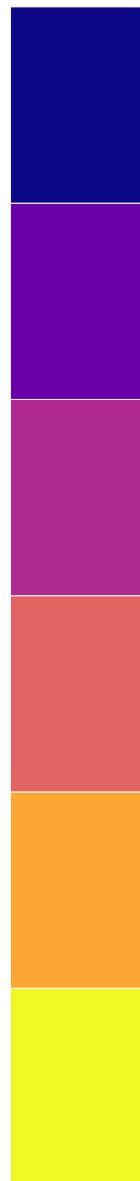
**viridis**



**viridisA**

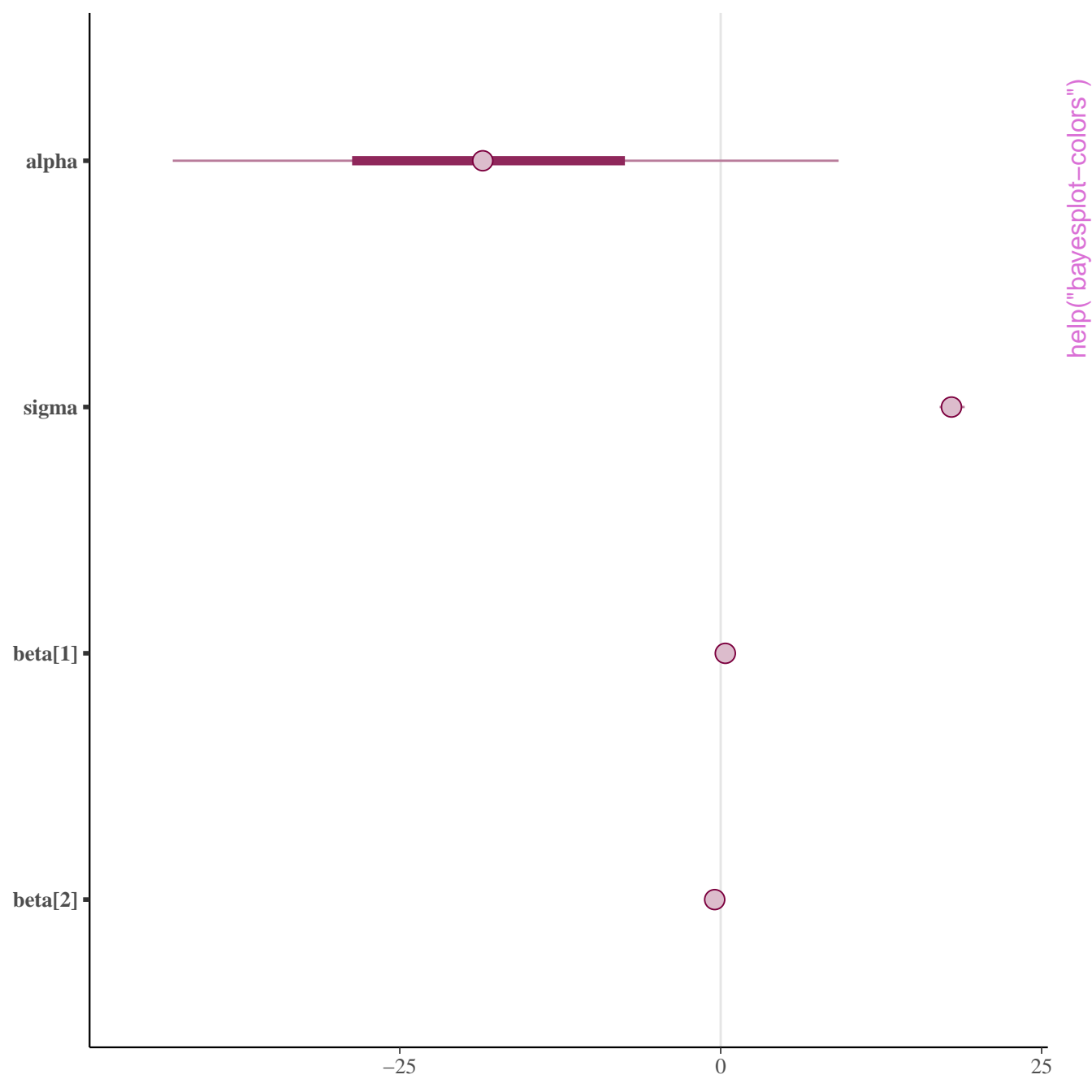


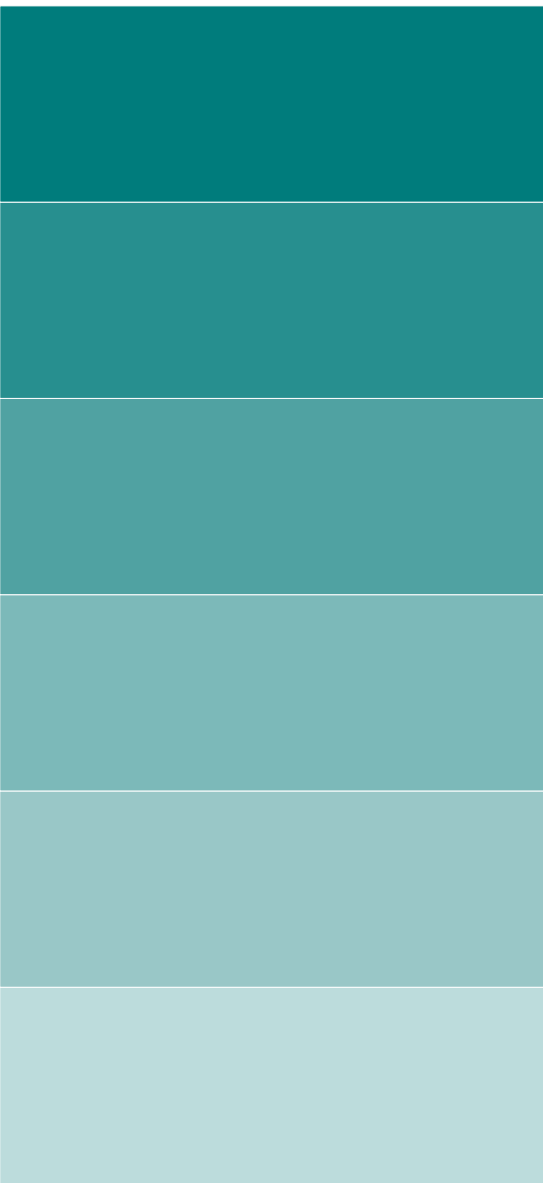
**viridisB**



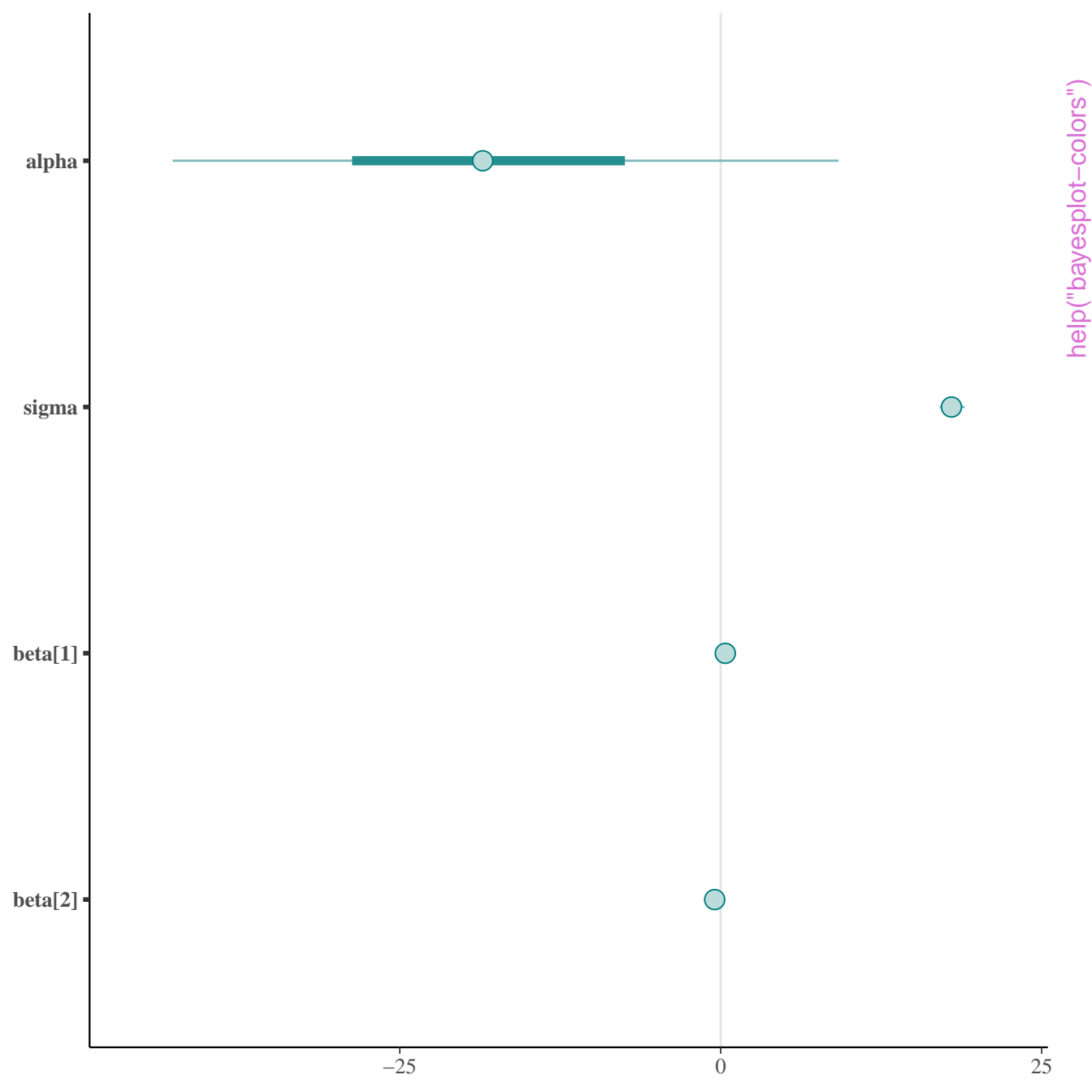
**viridisC**

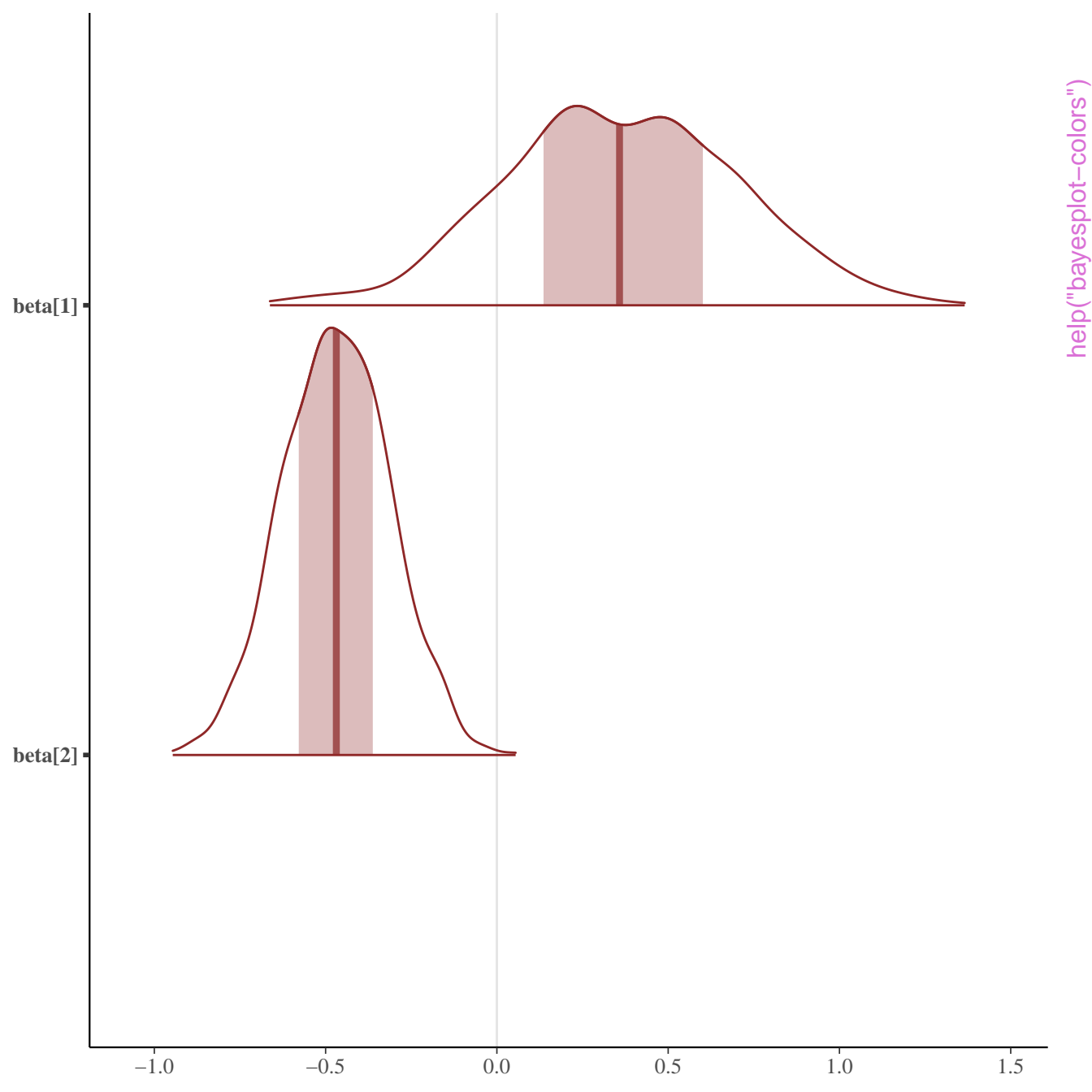
help("bayesplot-colors")

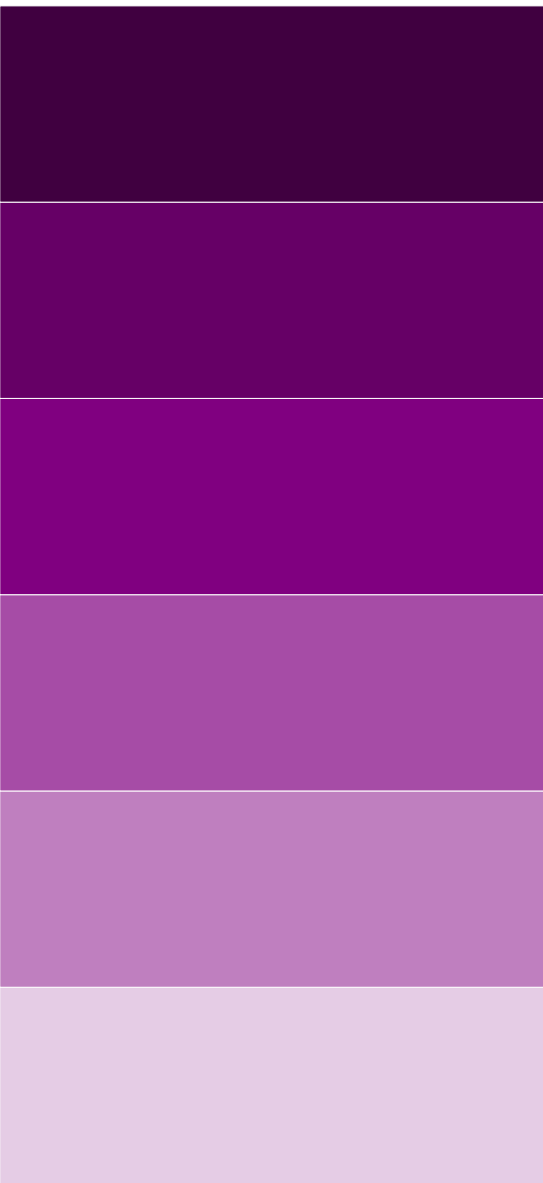




`help("bayesplot-colors")`

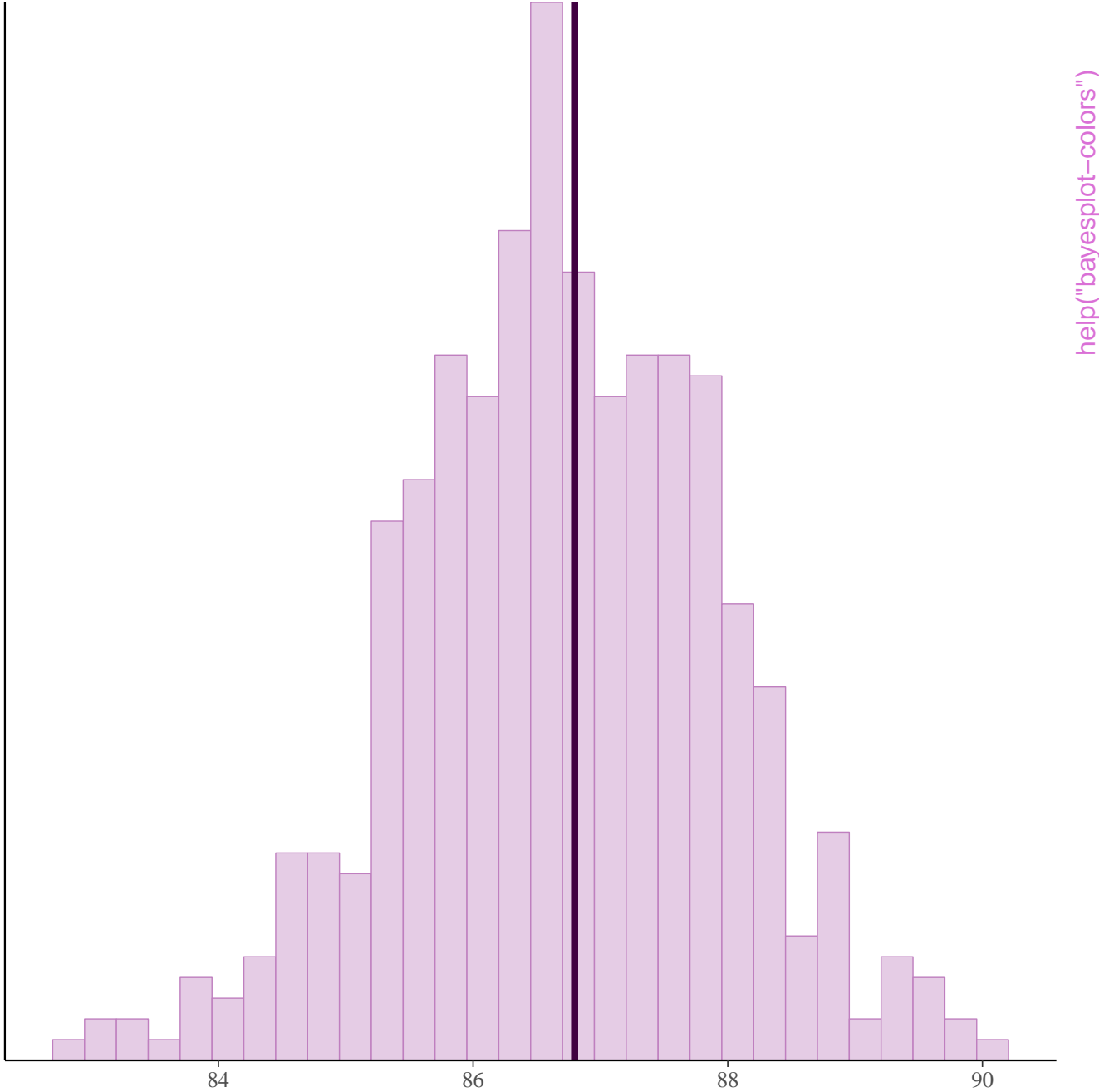






help("bayesplot-colors")





alpha

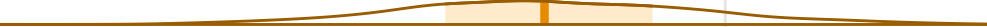
-60

-30

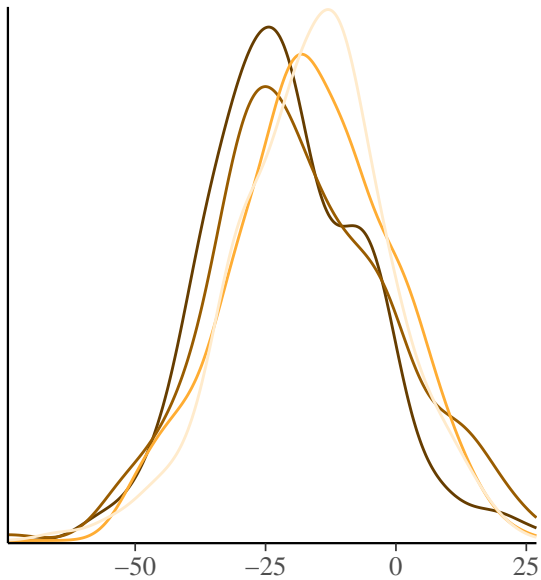
0

30

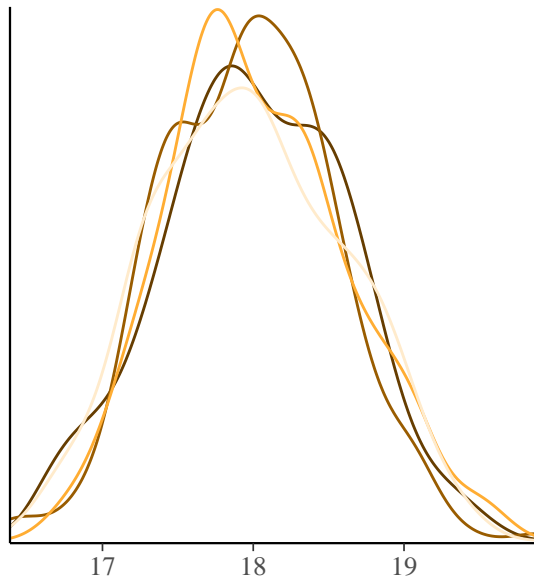
help("bayesplot-colors")



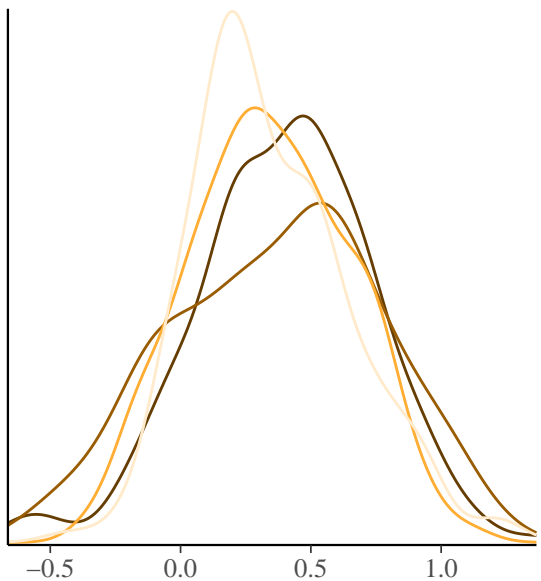
alpha



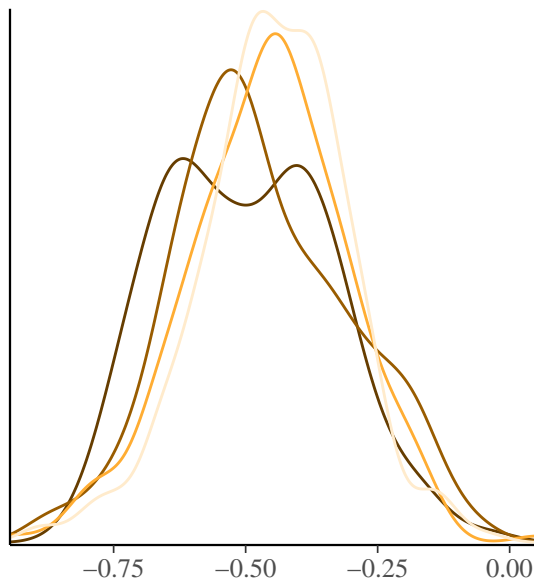
sigma



beta[1]



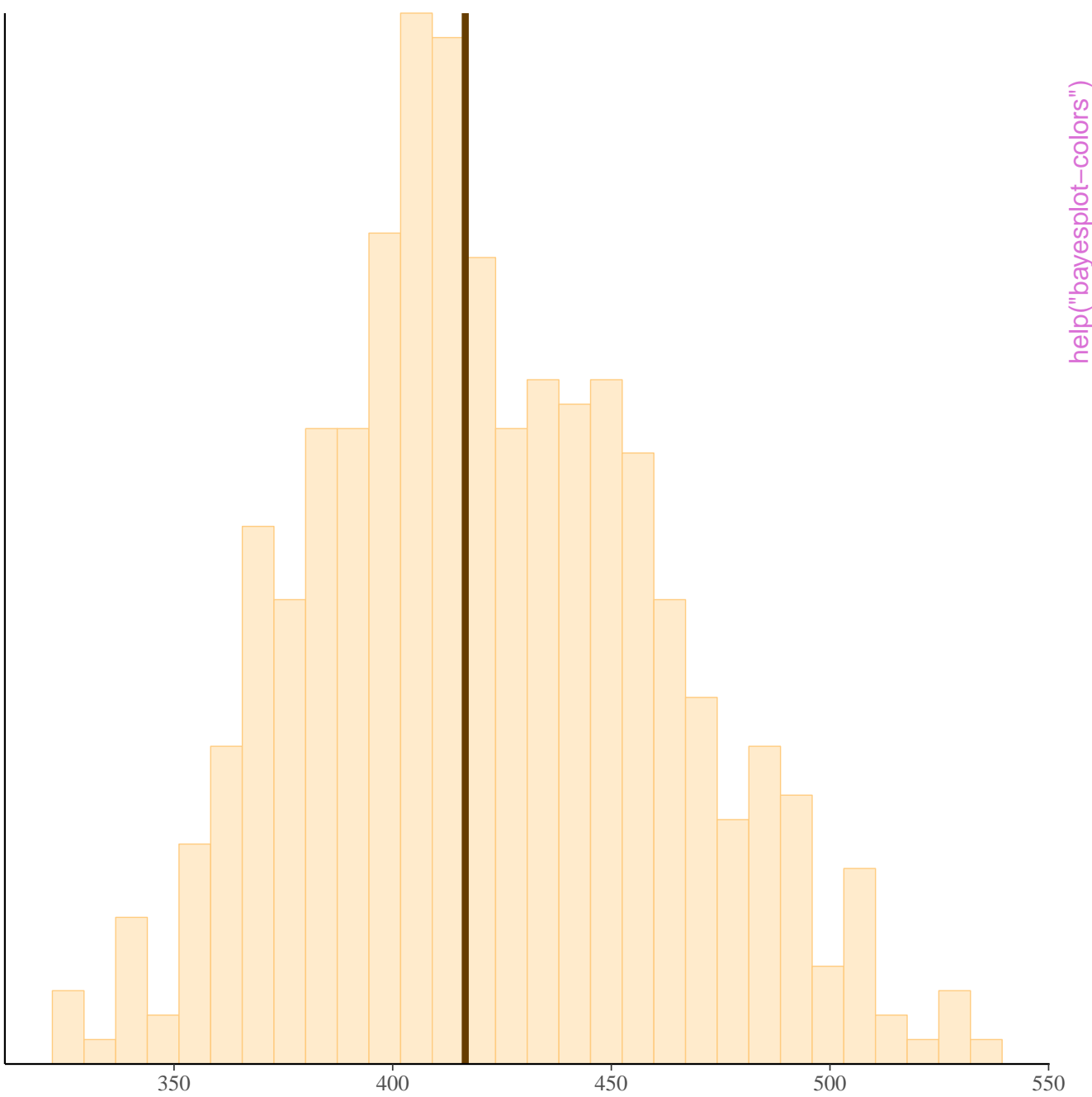
beta[2]

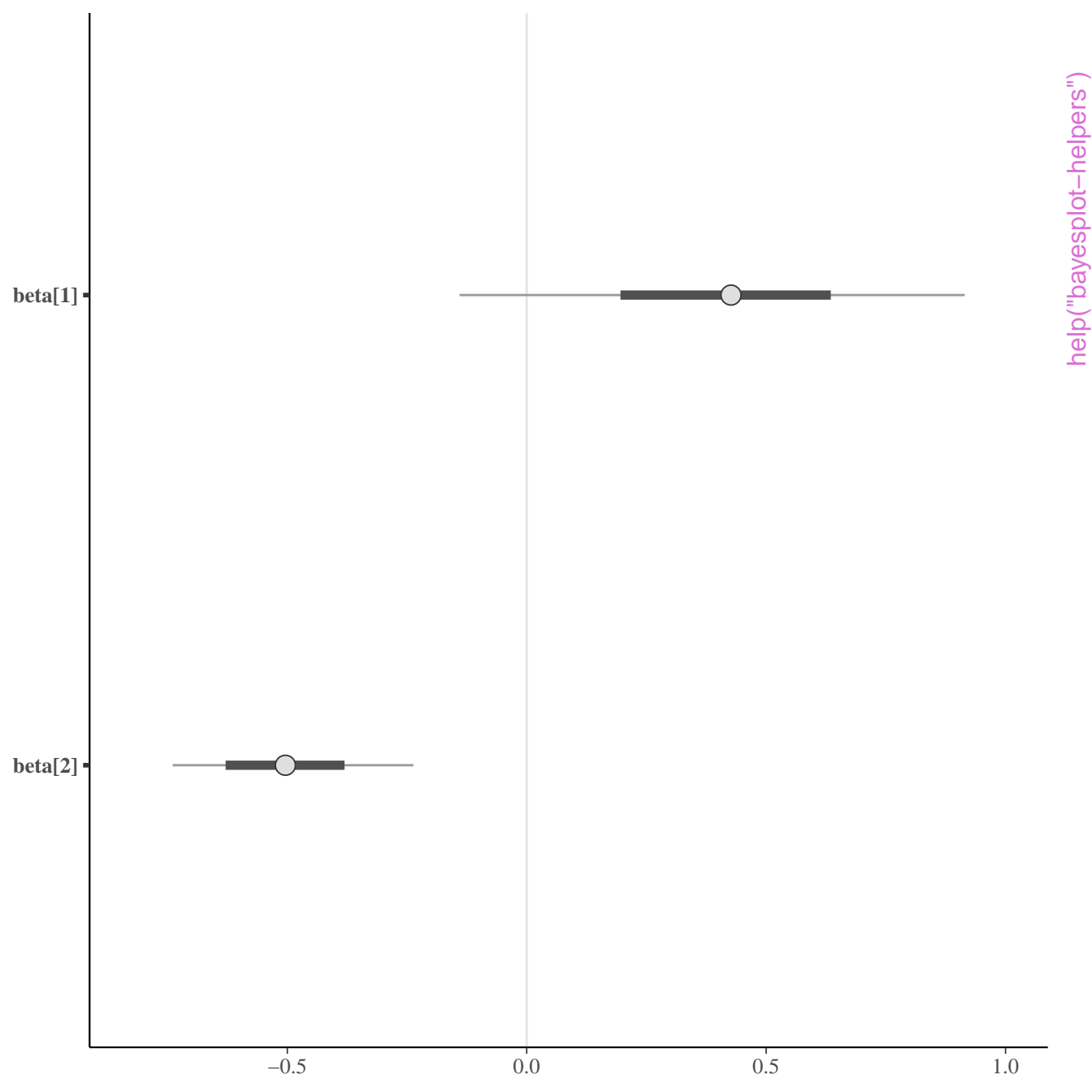


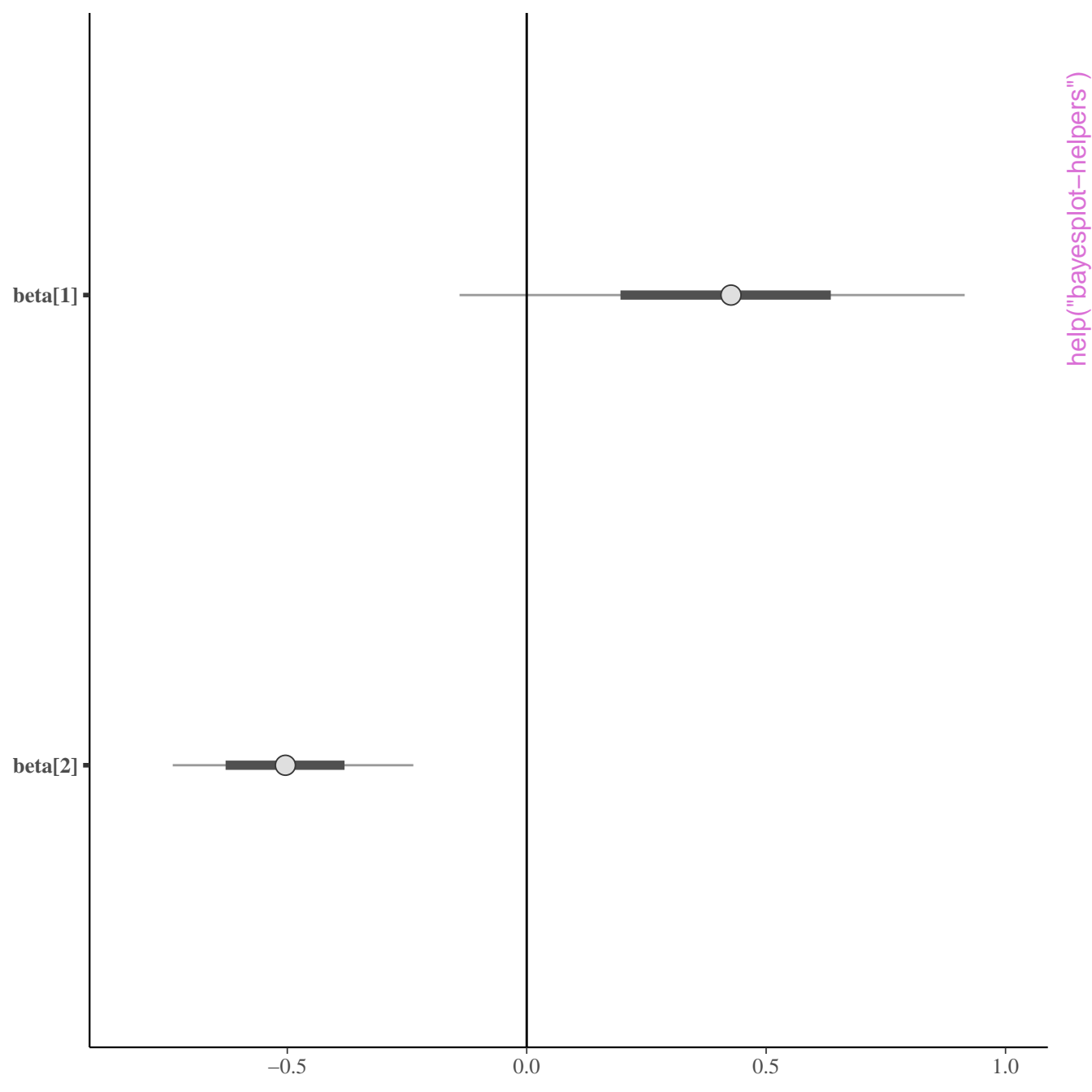
Chain

- 1
- 2
- 3
- 4

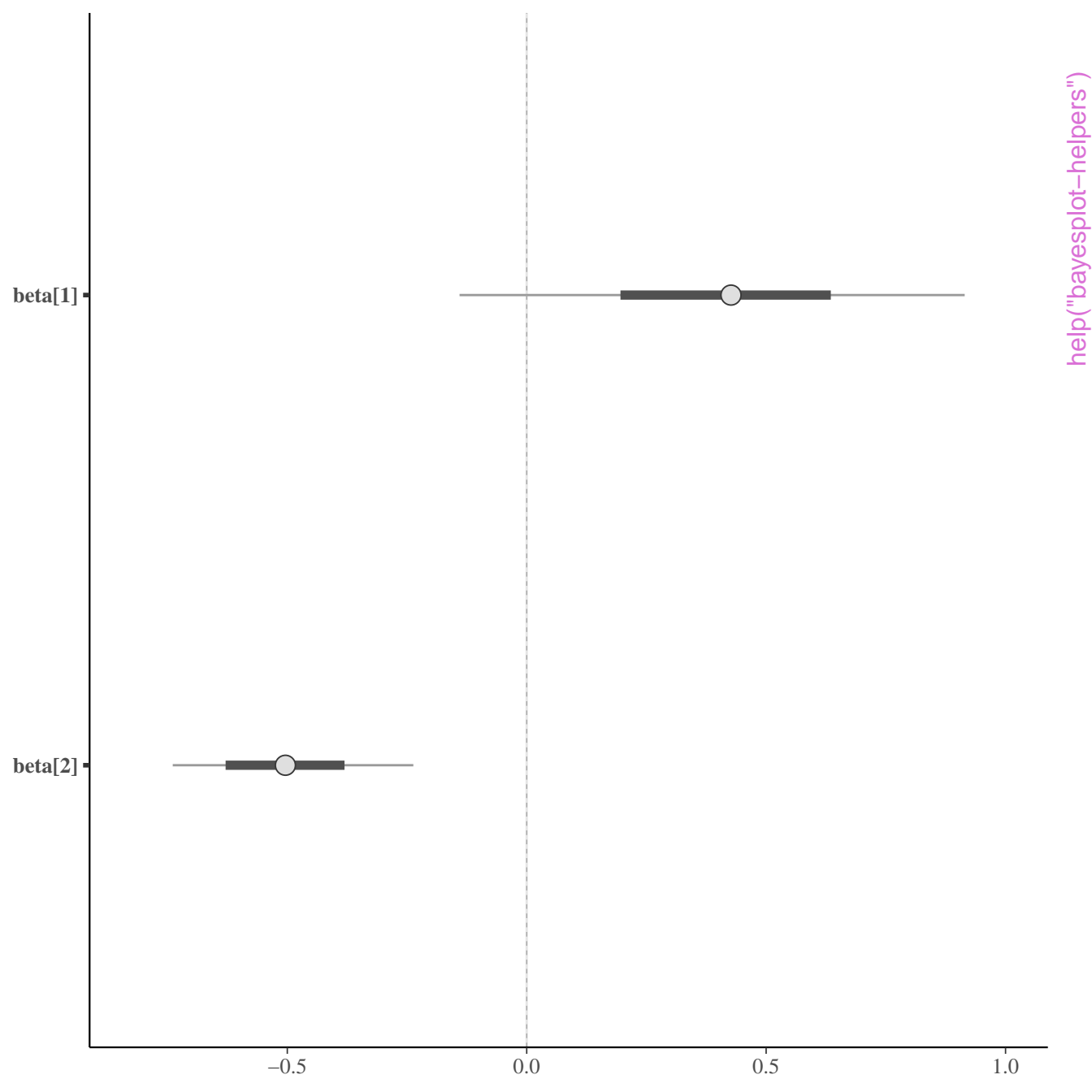
help("bayesplot-colors")

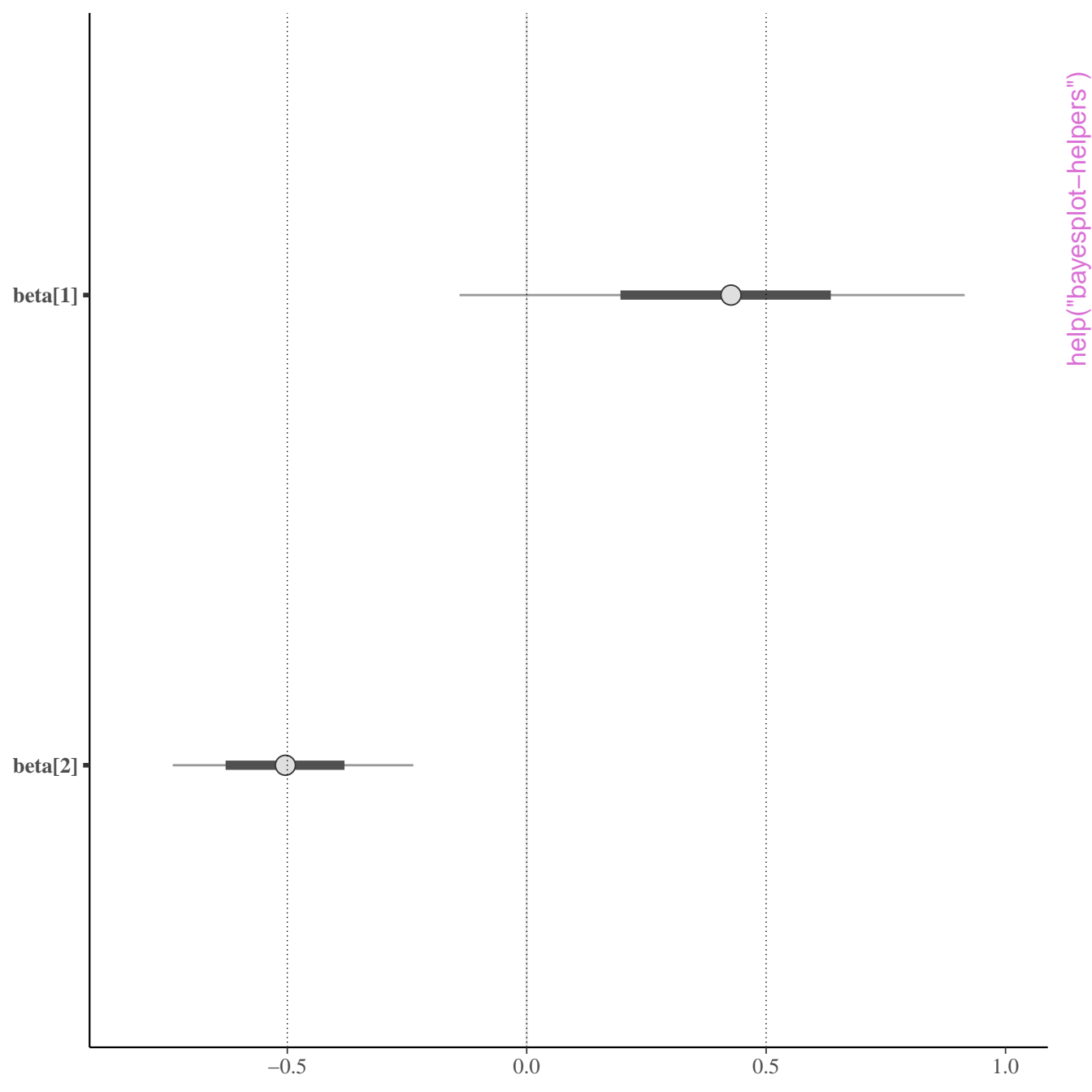




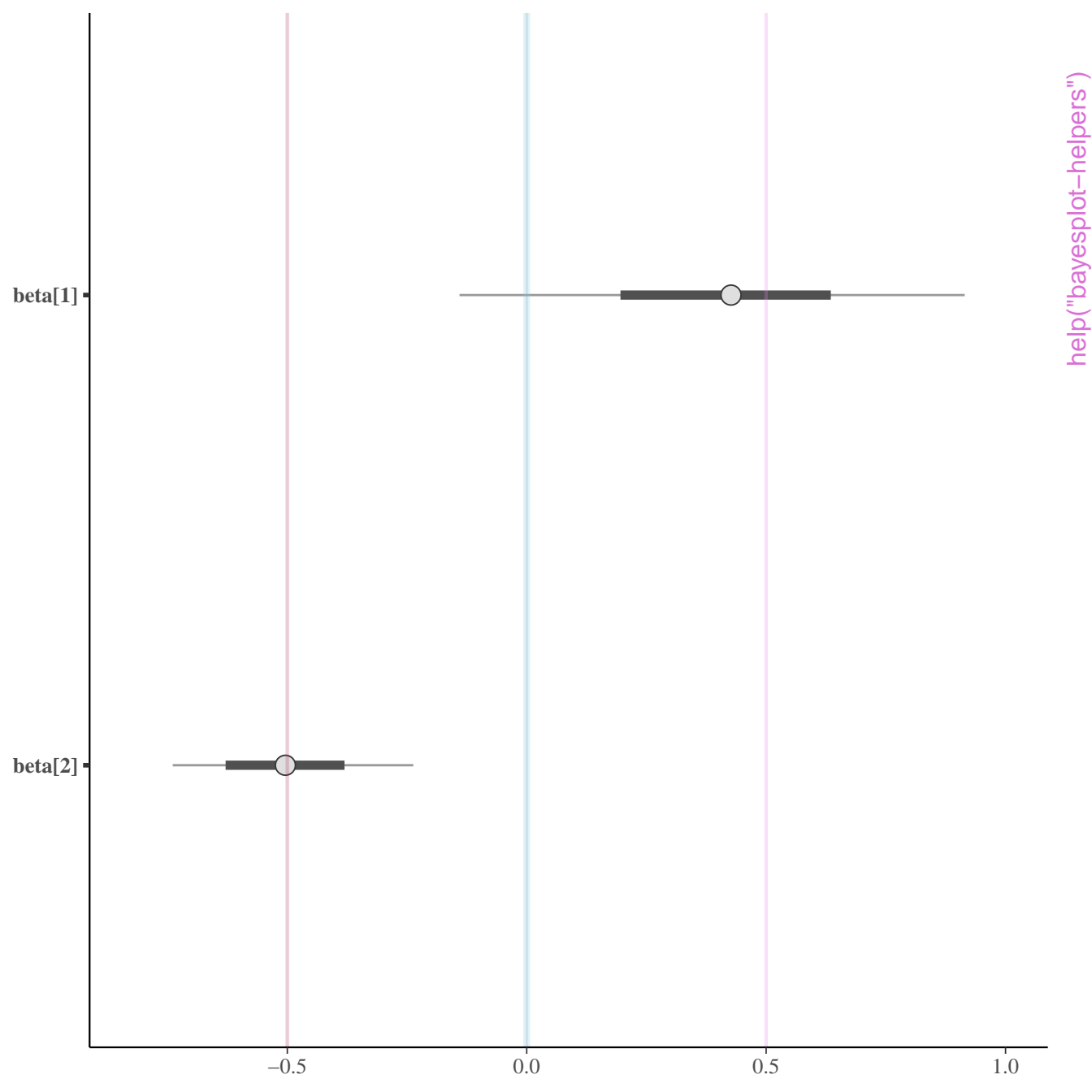


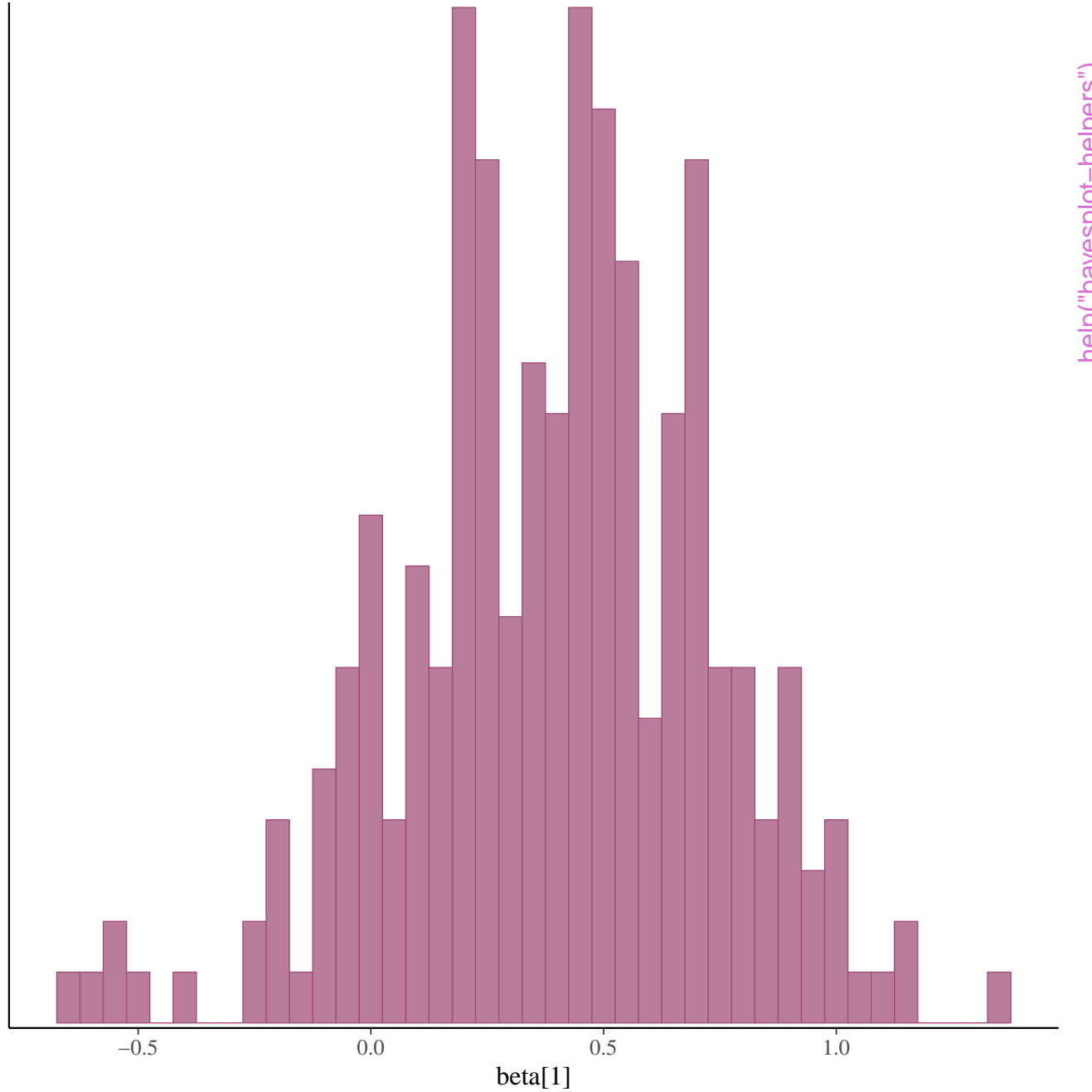
help("bayesplot-helpers")

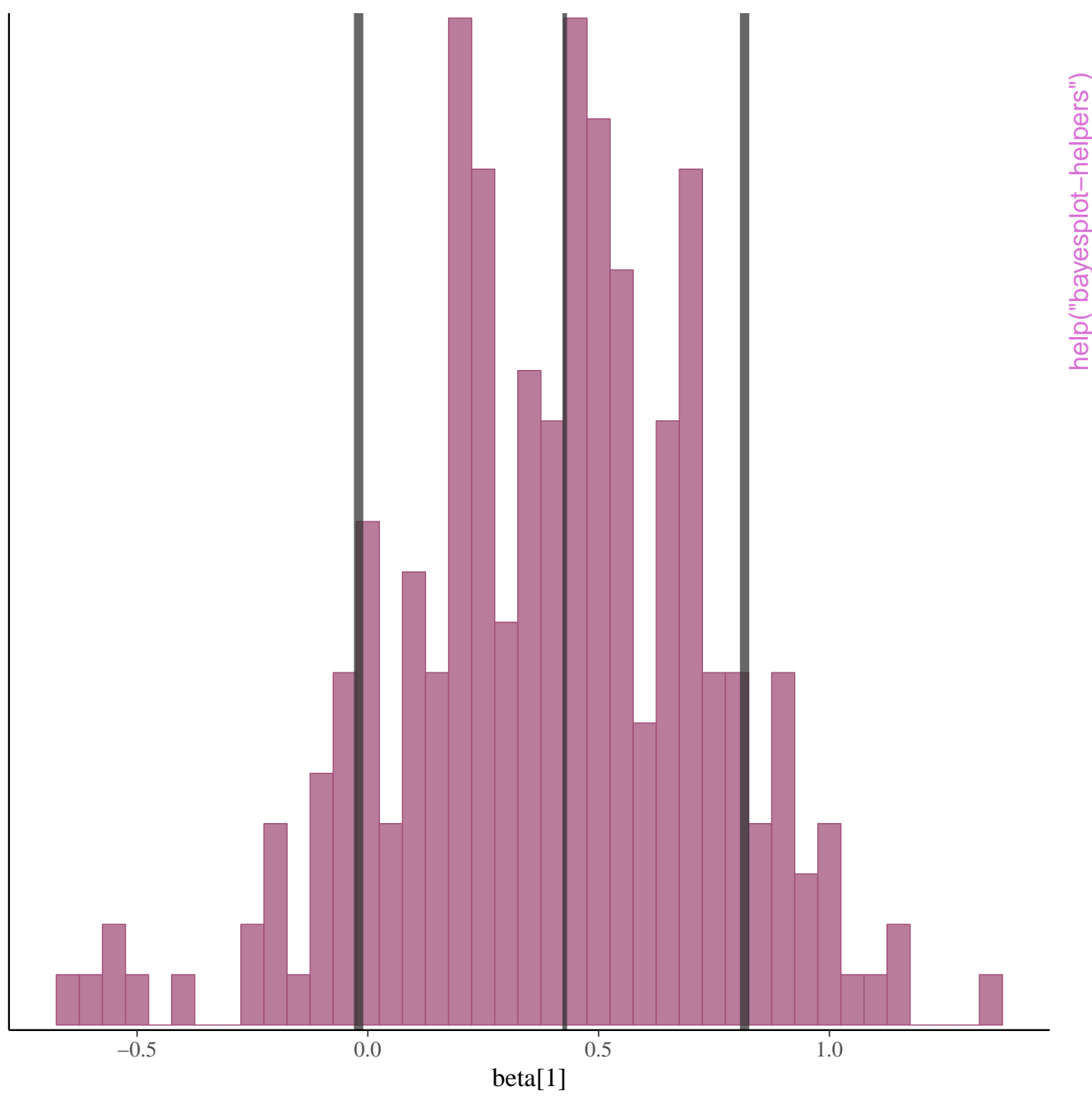


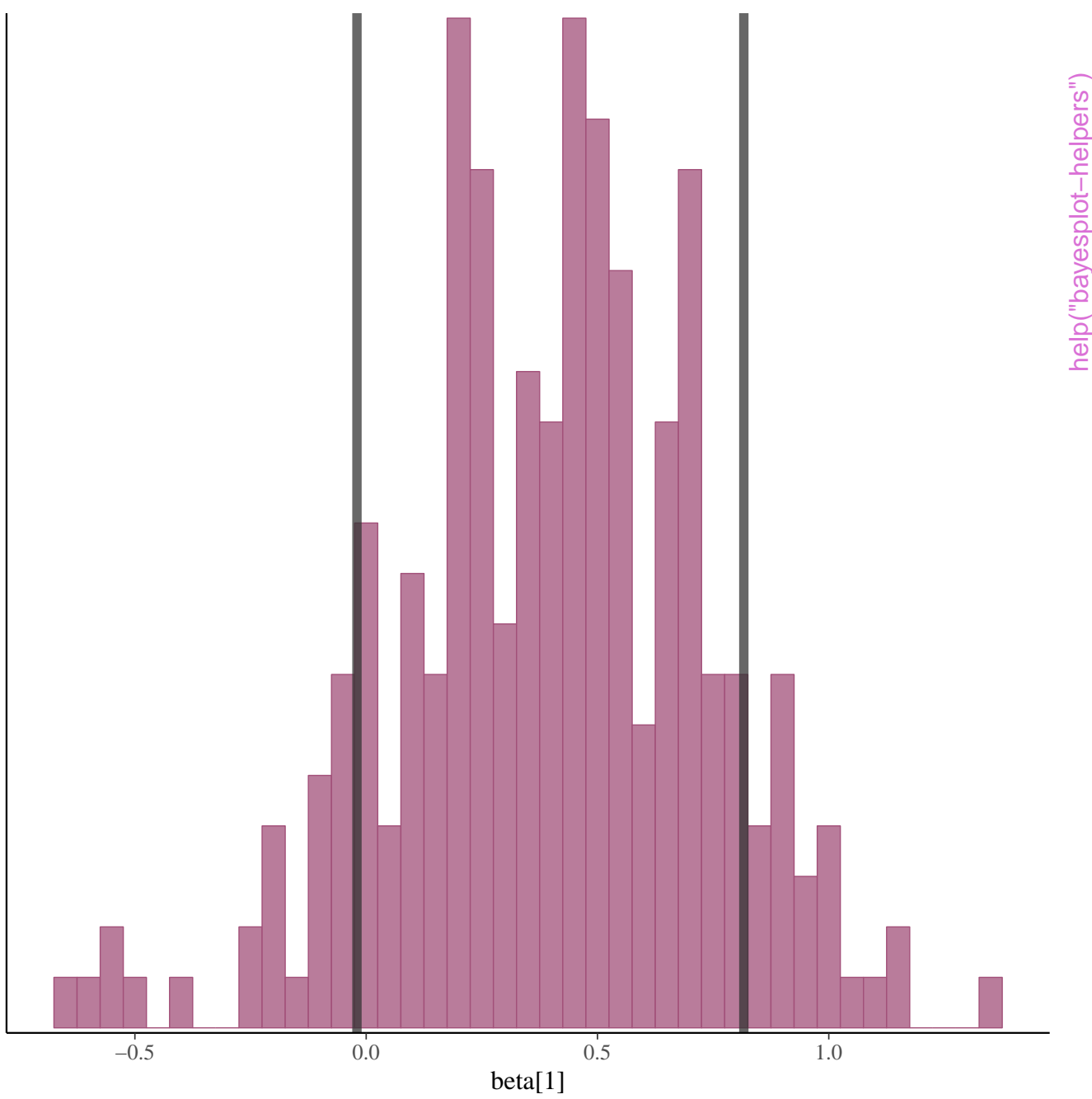


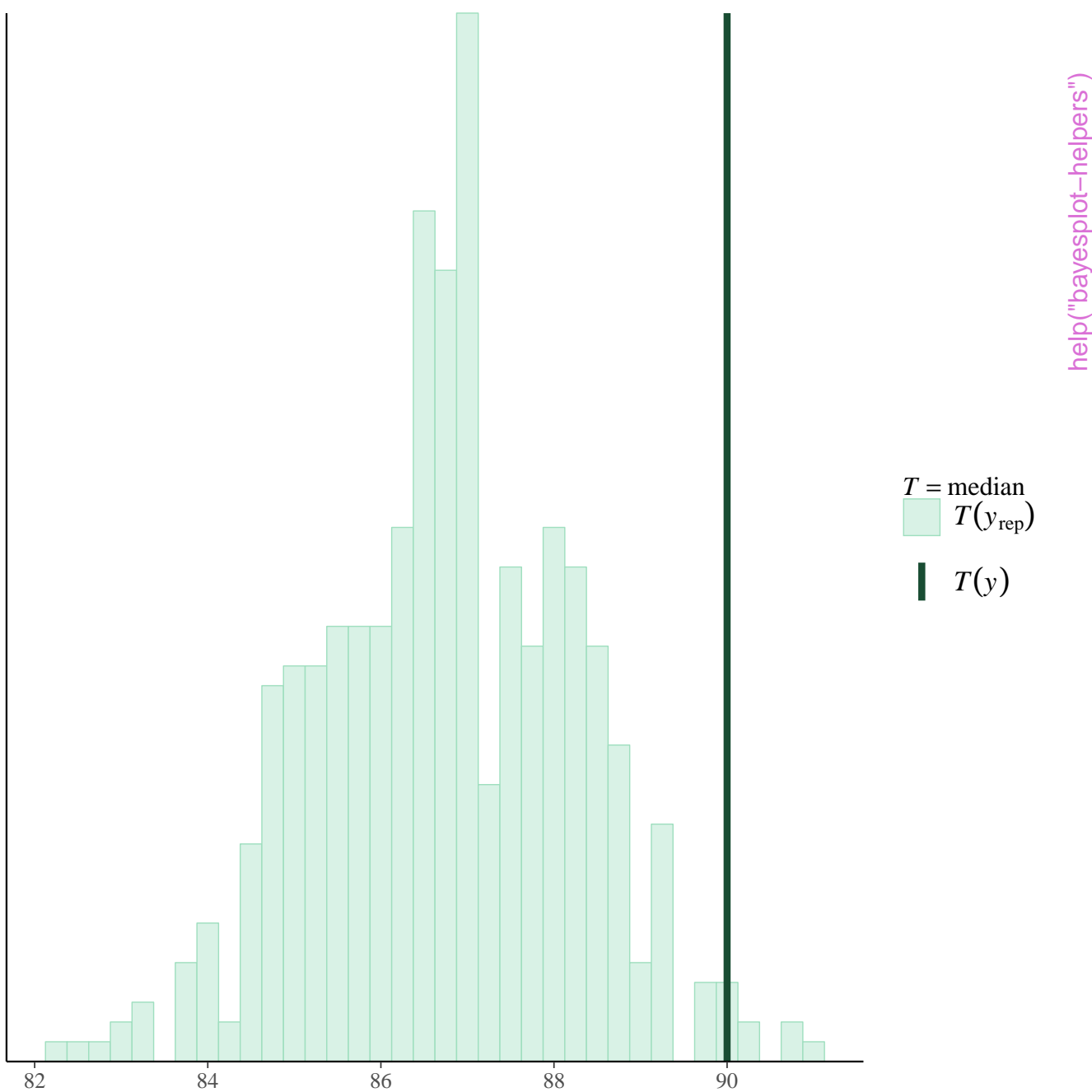


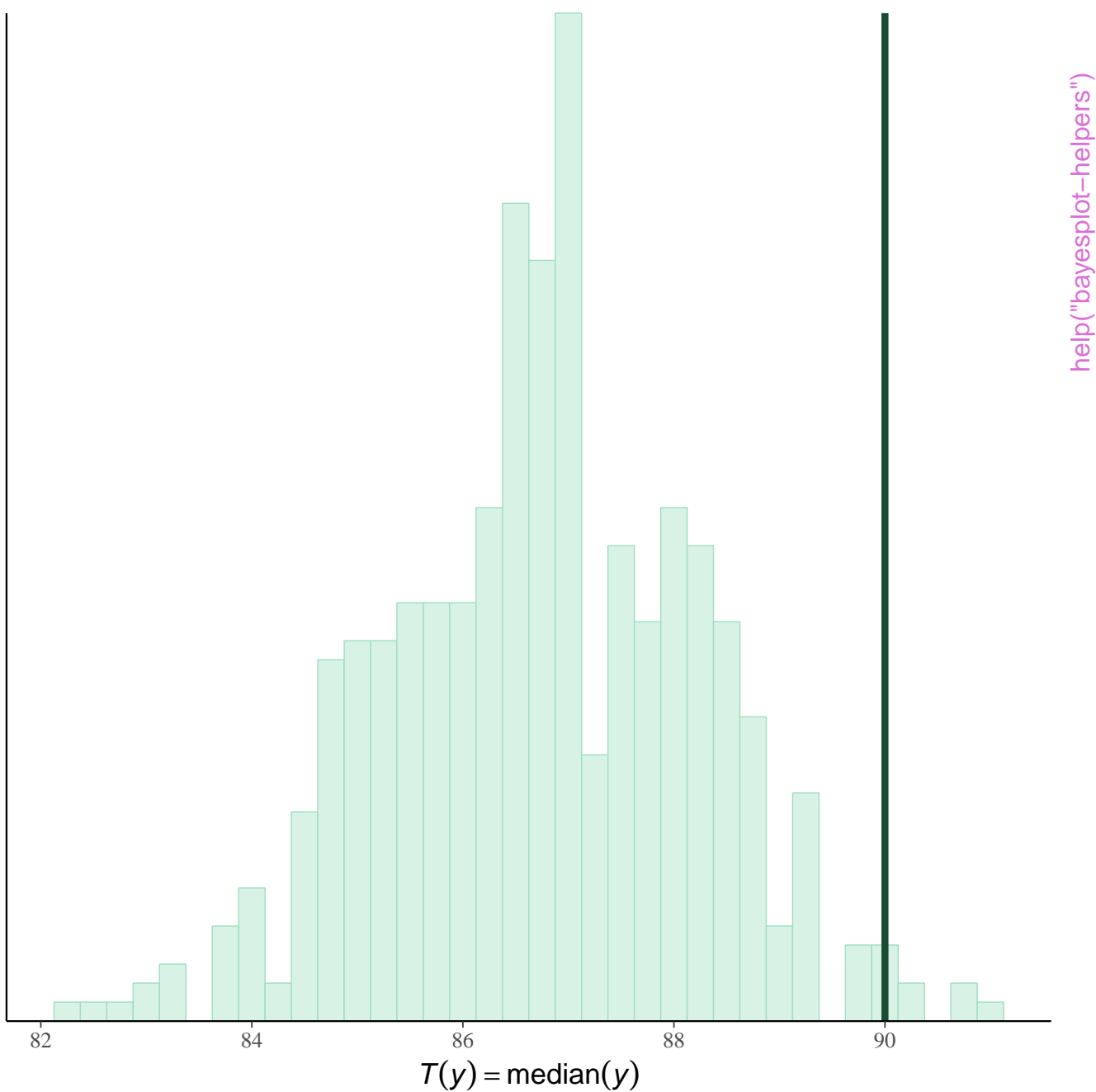




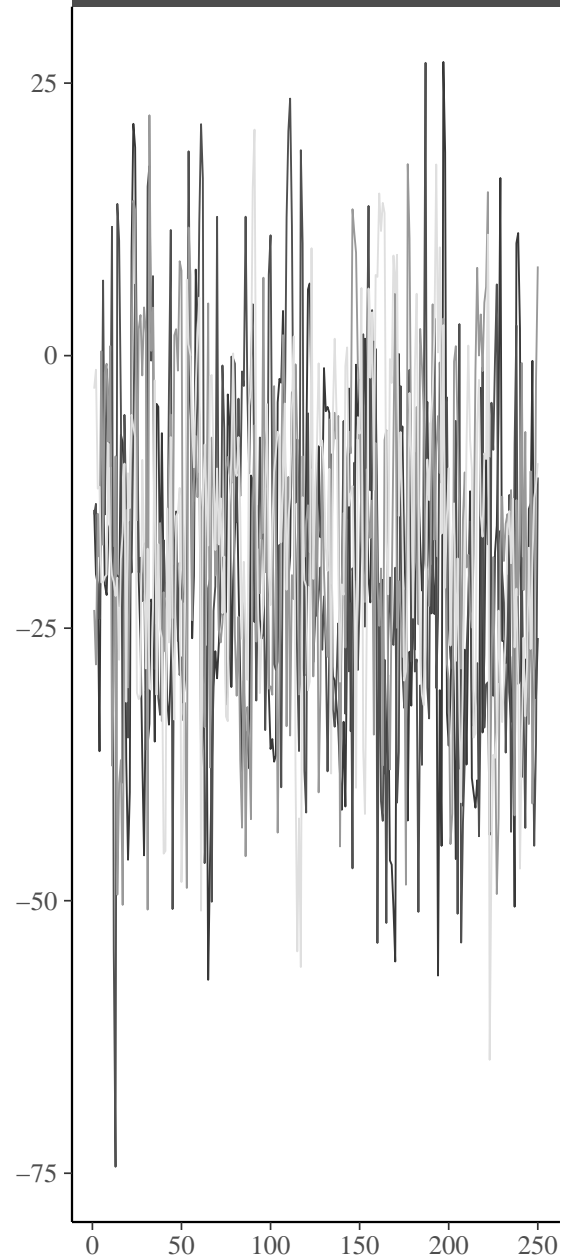




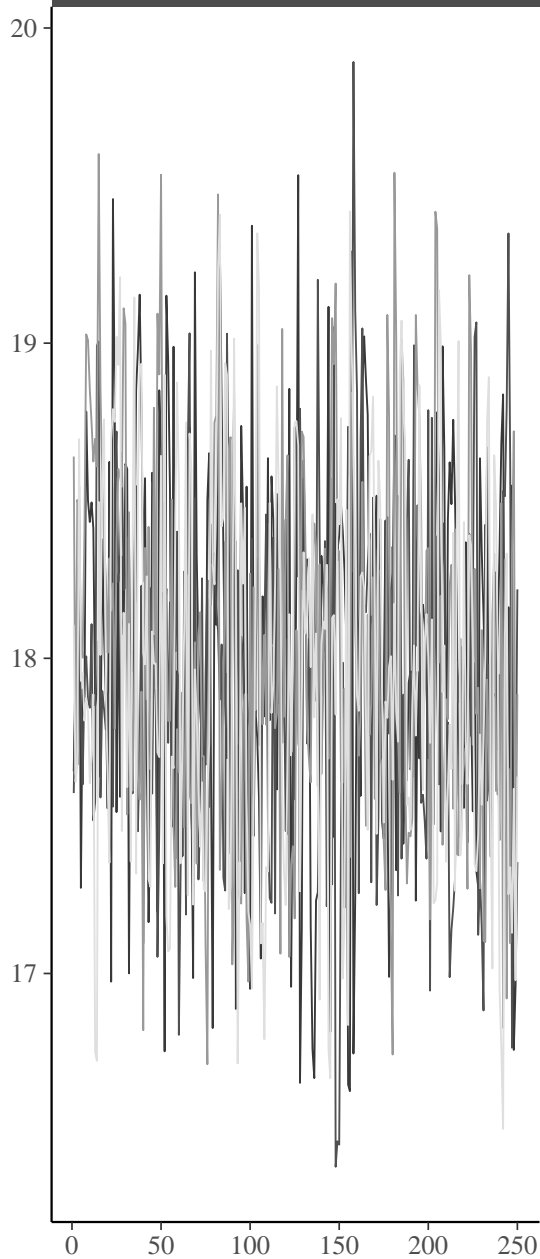




alpha



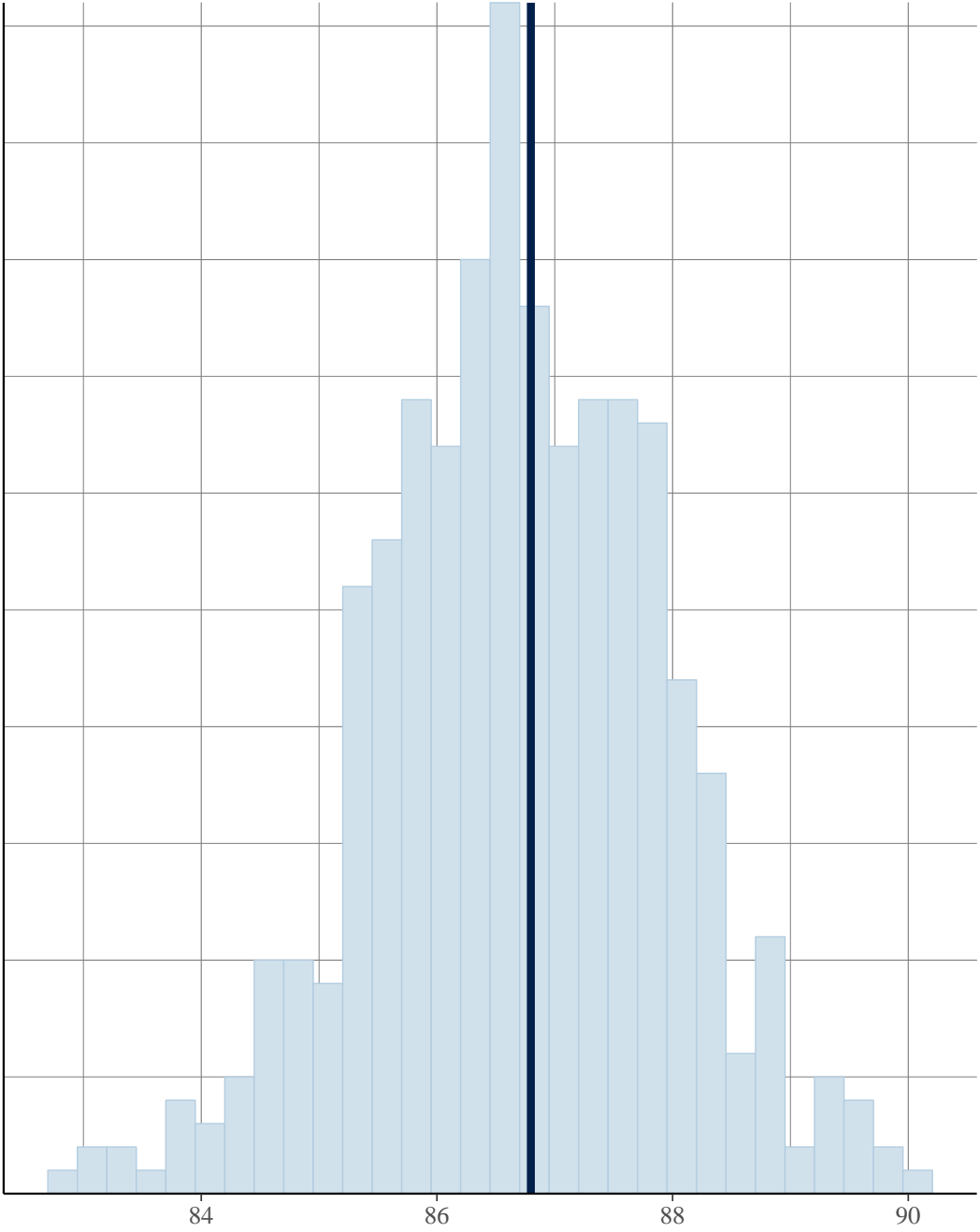
sigma



Chain

- 1
- 2
- 3
- 4

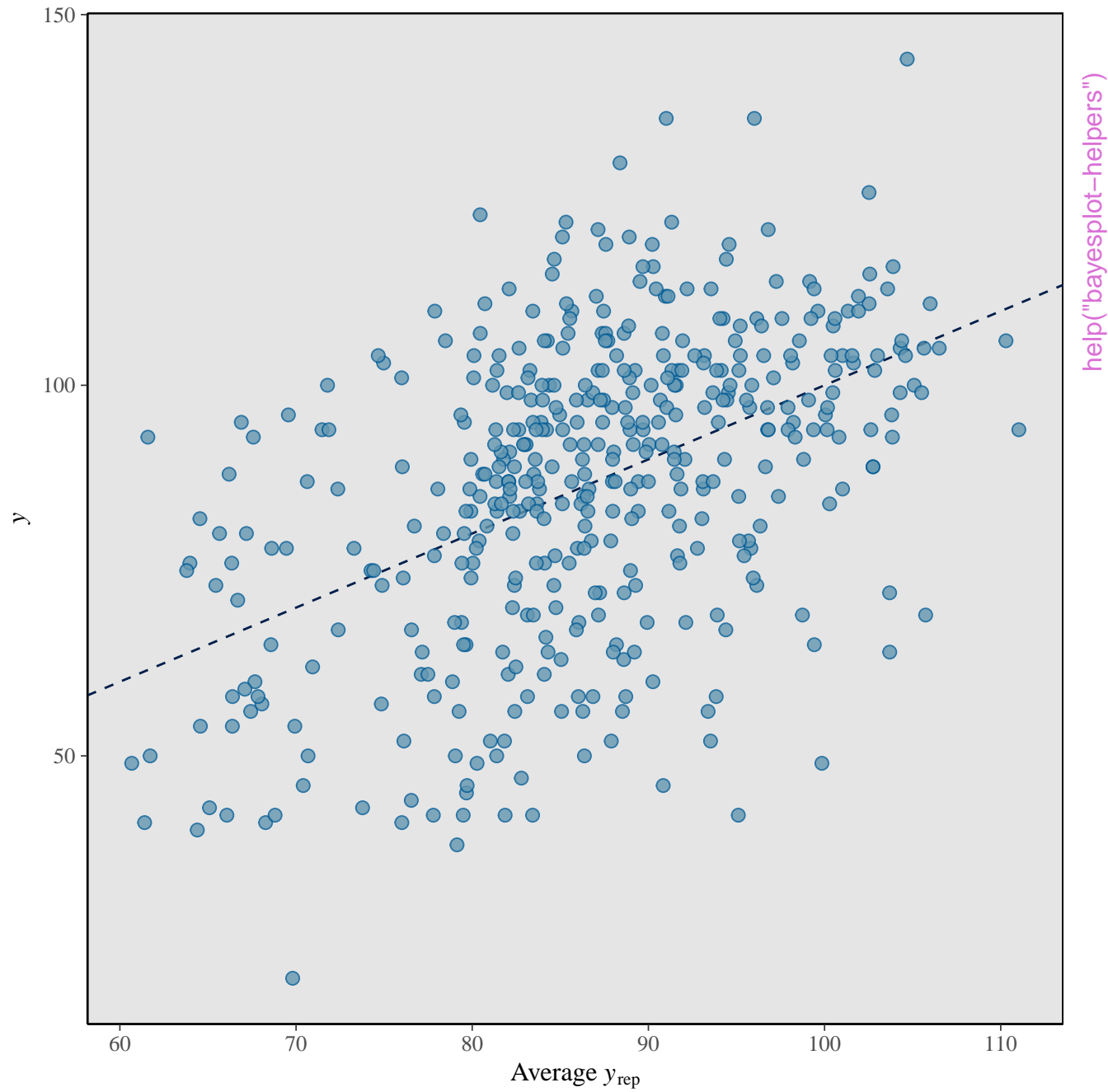
help("bayesplot-helpers")

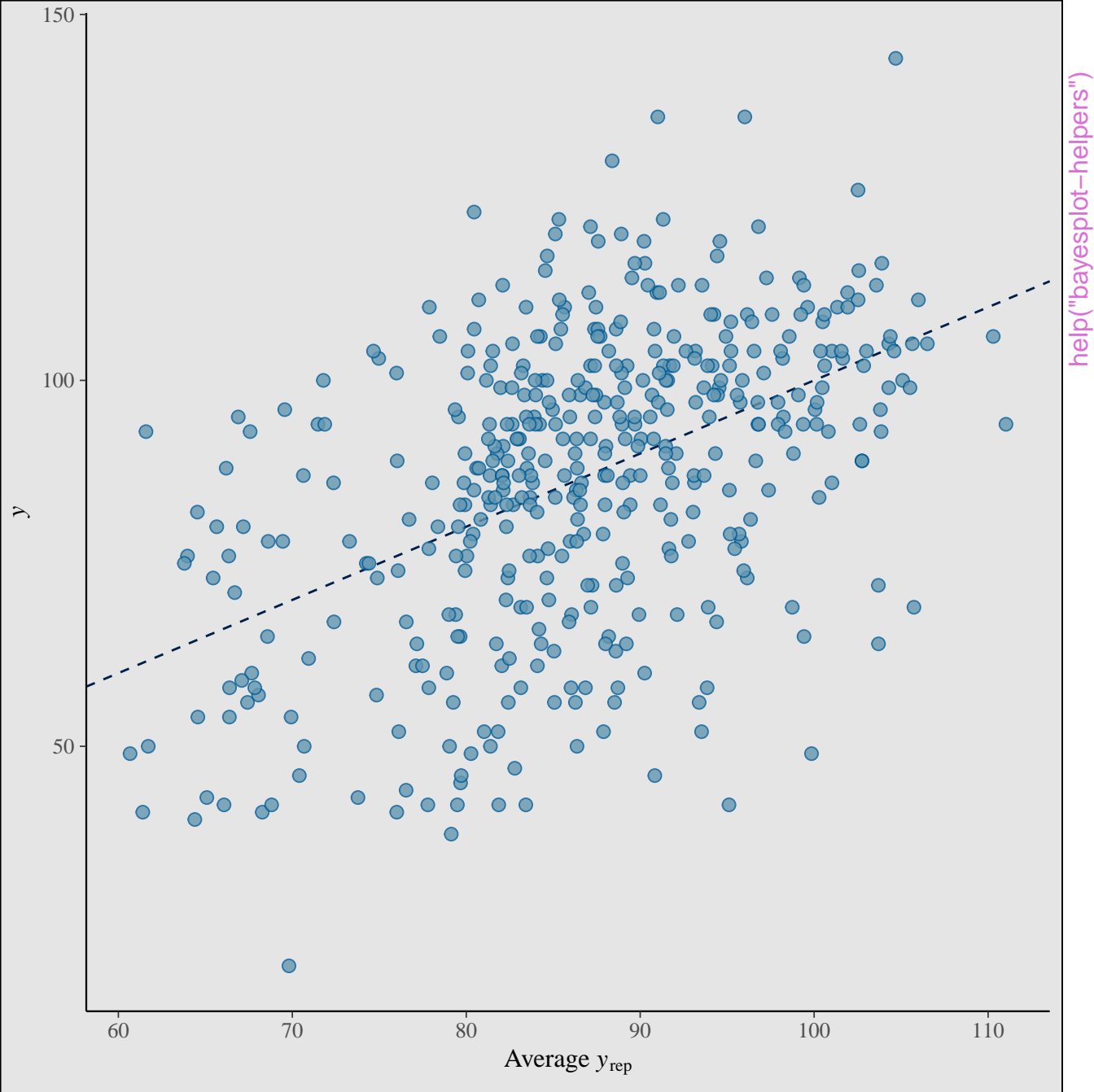


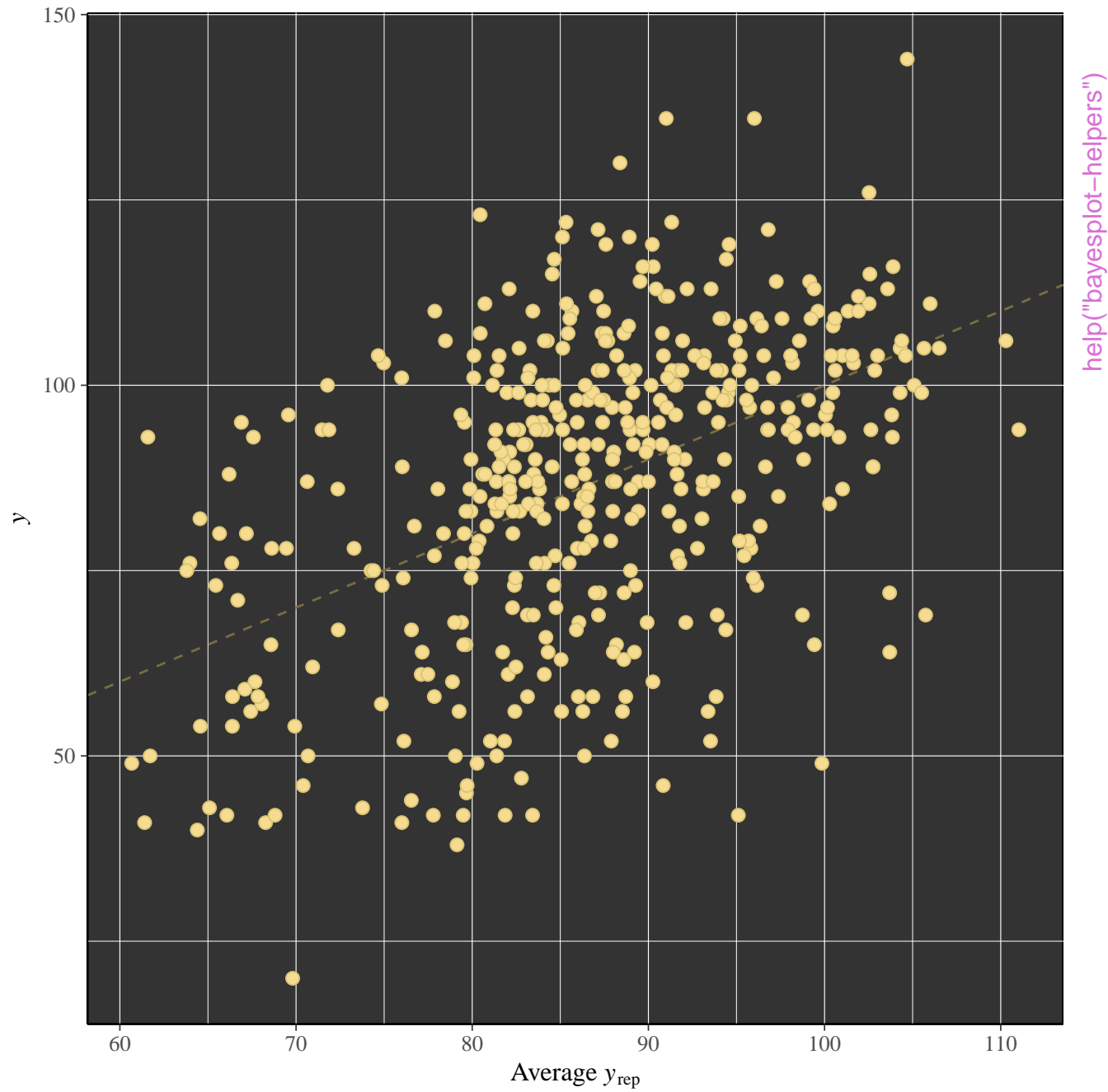
$T = \text{mean}$   
 $T(y_{\text{rep}})$   
 $T(y)$

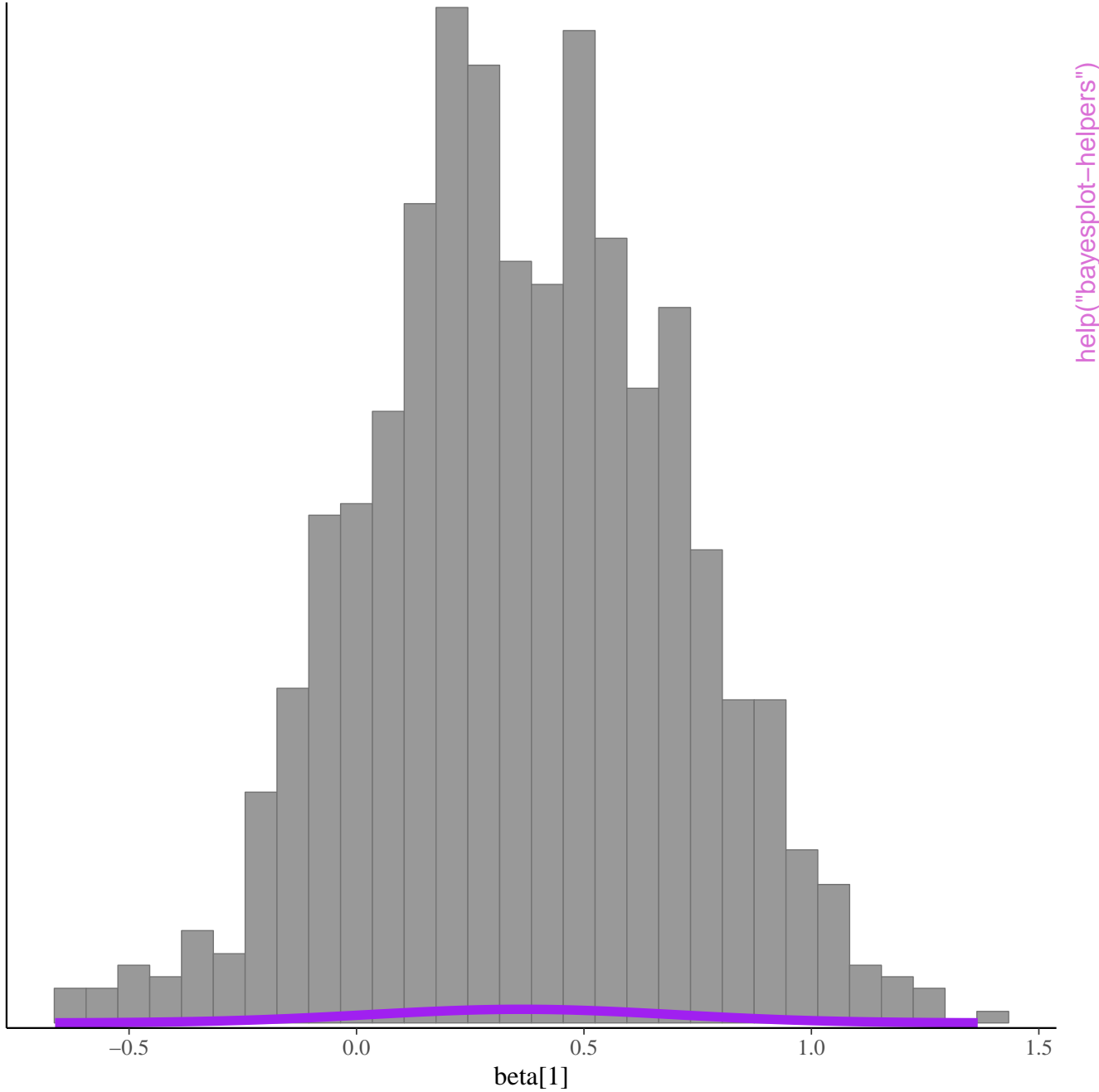
help("bayesplot-helpers")

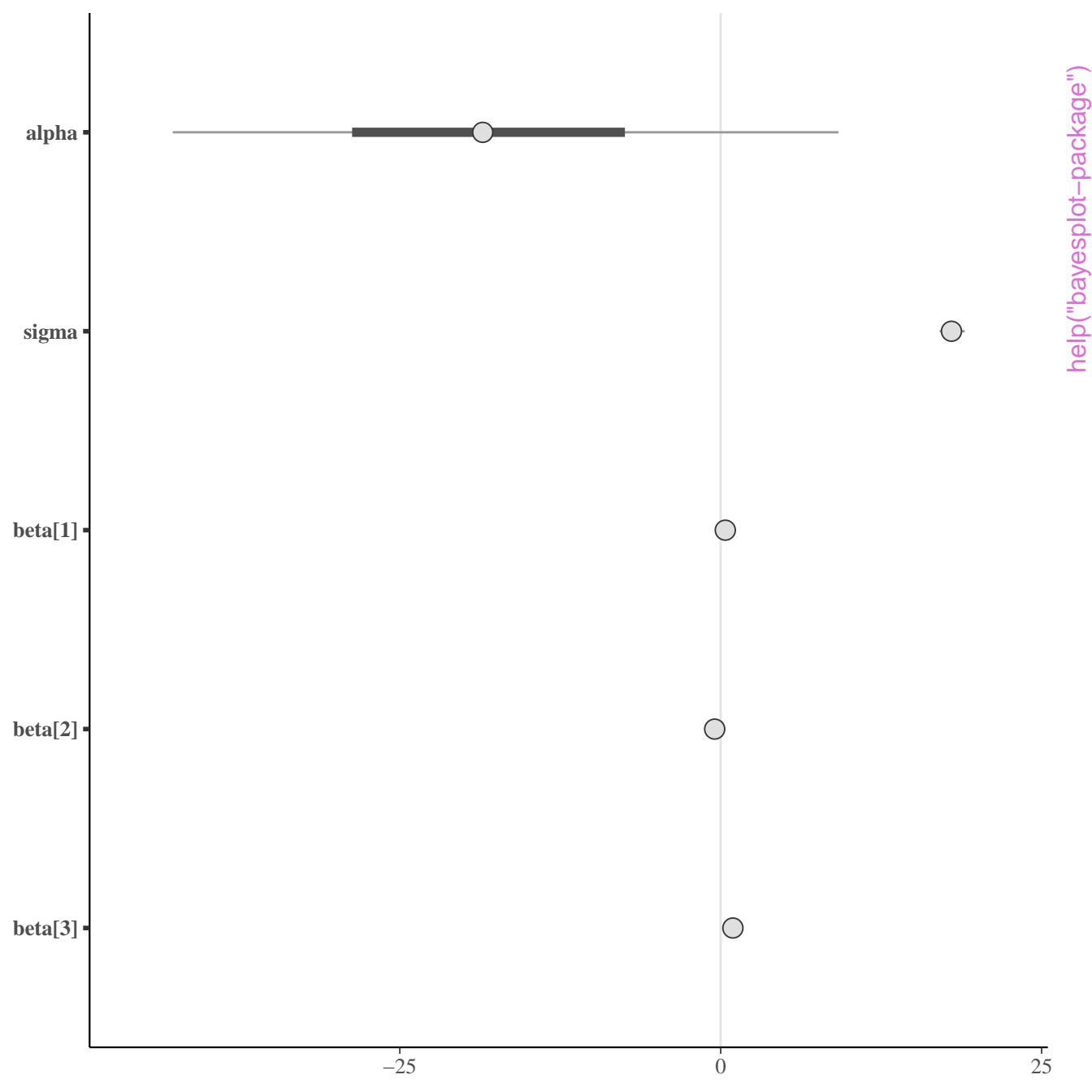


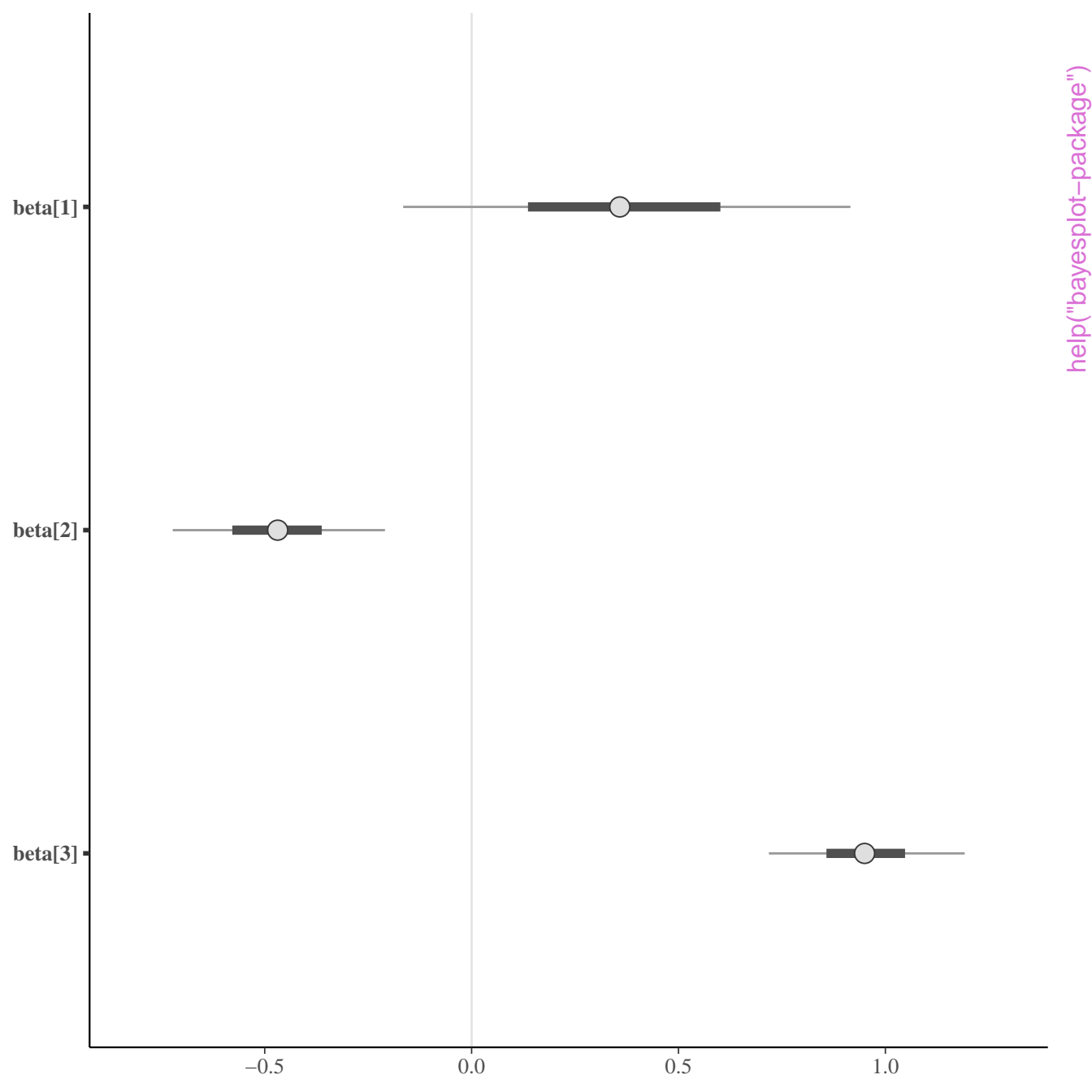




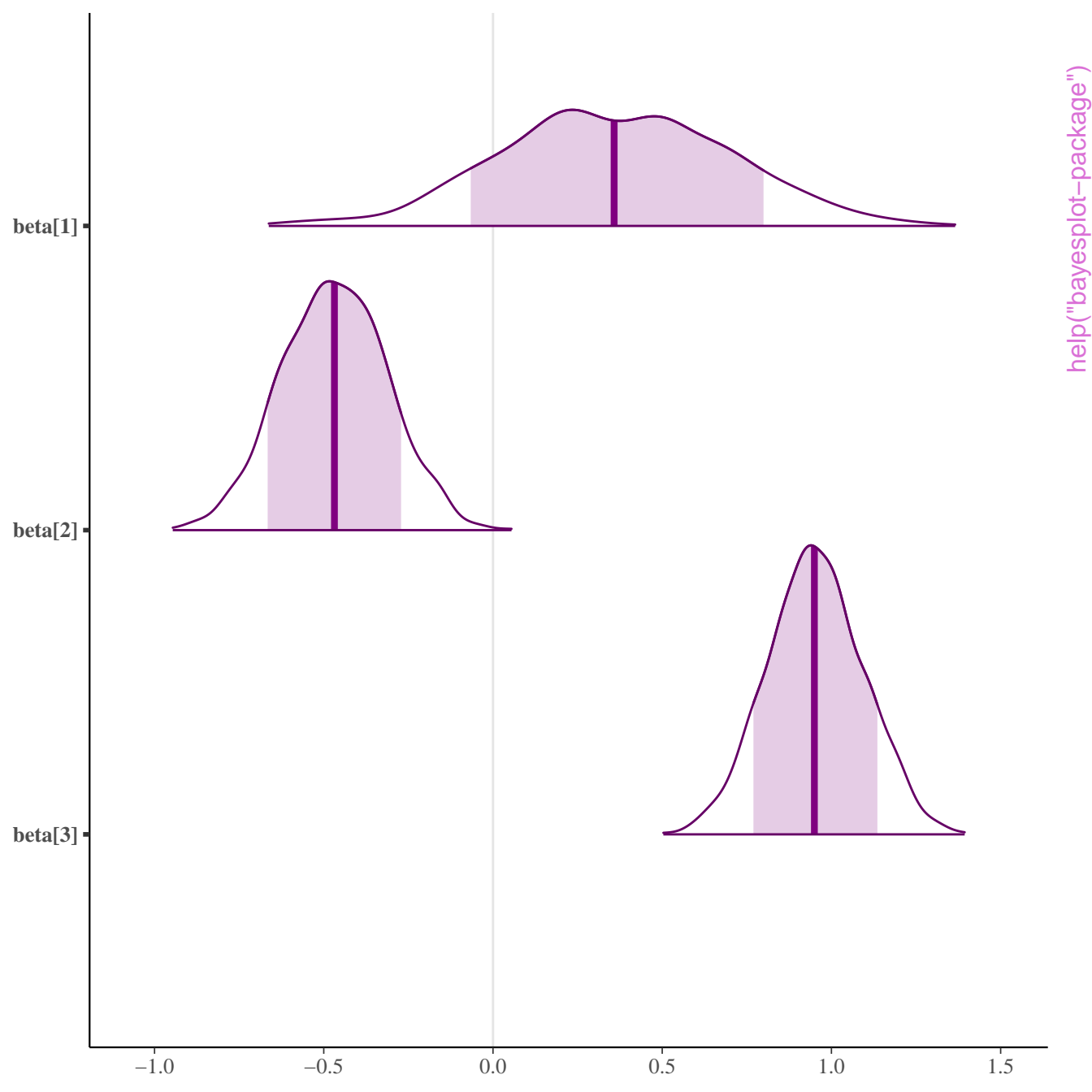




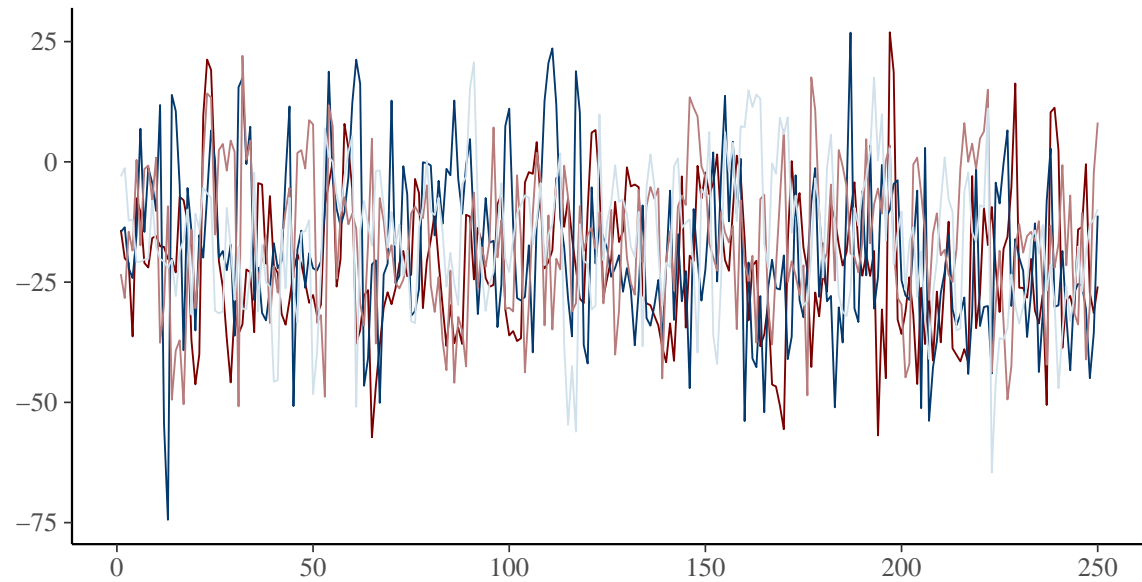




`help("bayesplot-package")`



alpha

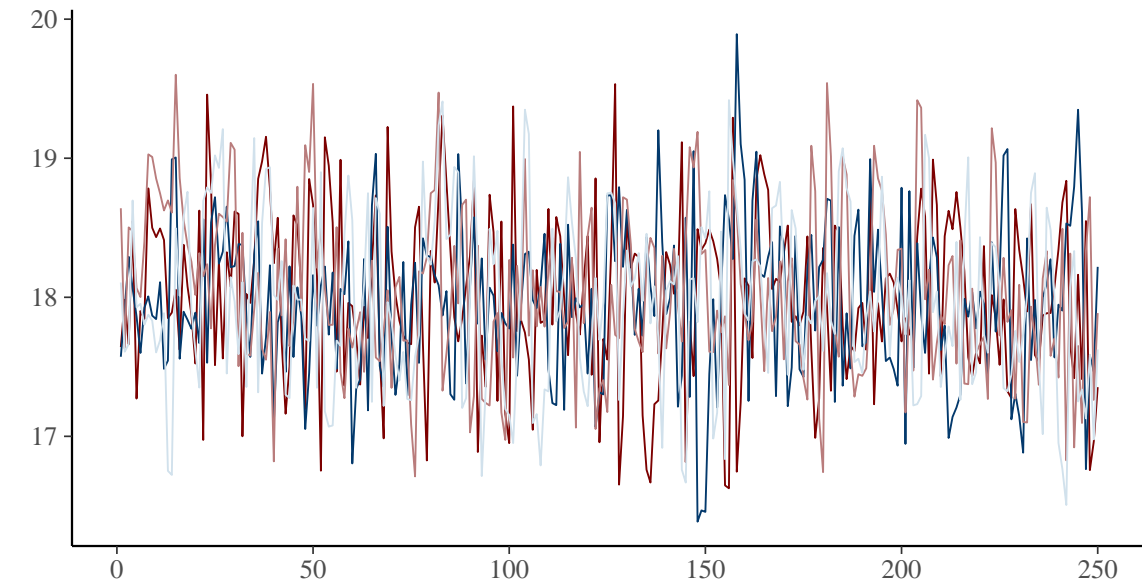


help("bayesplot-package")

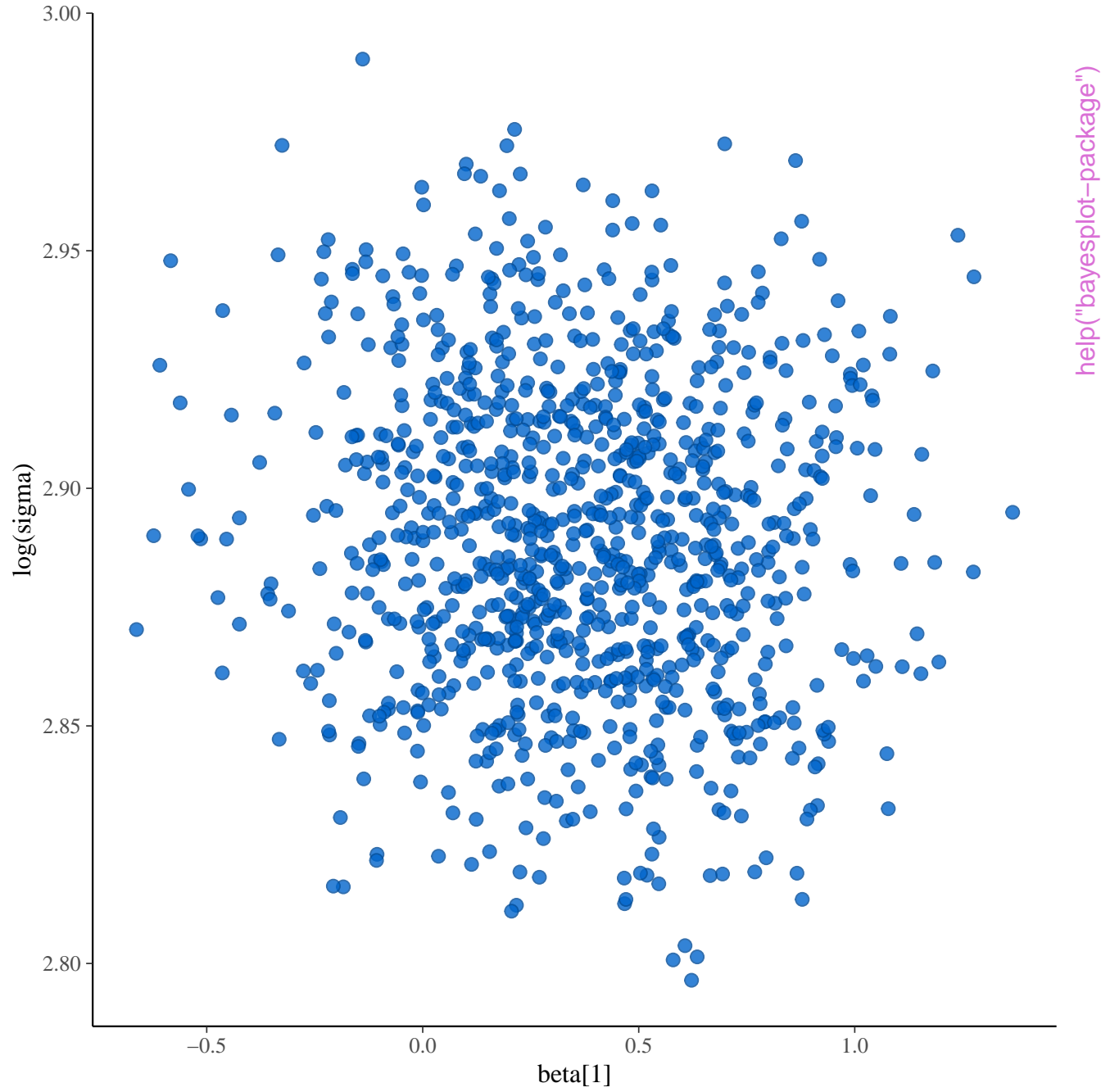
Chain

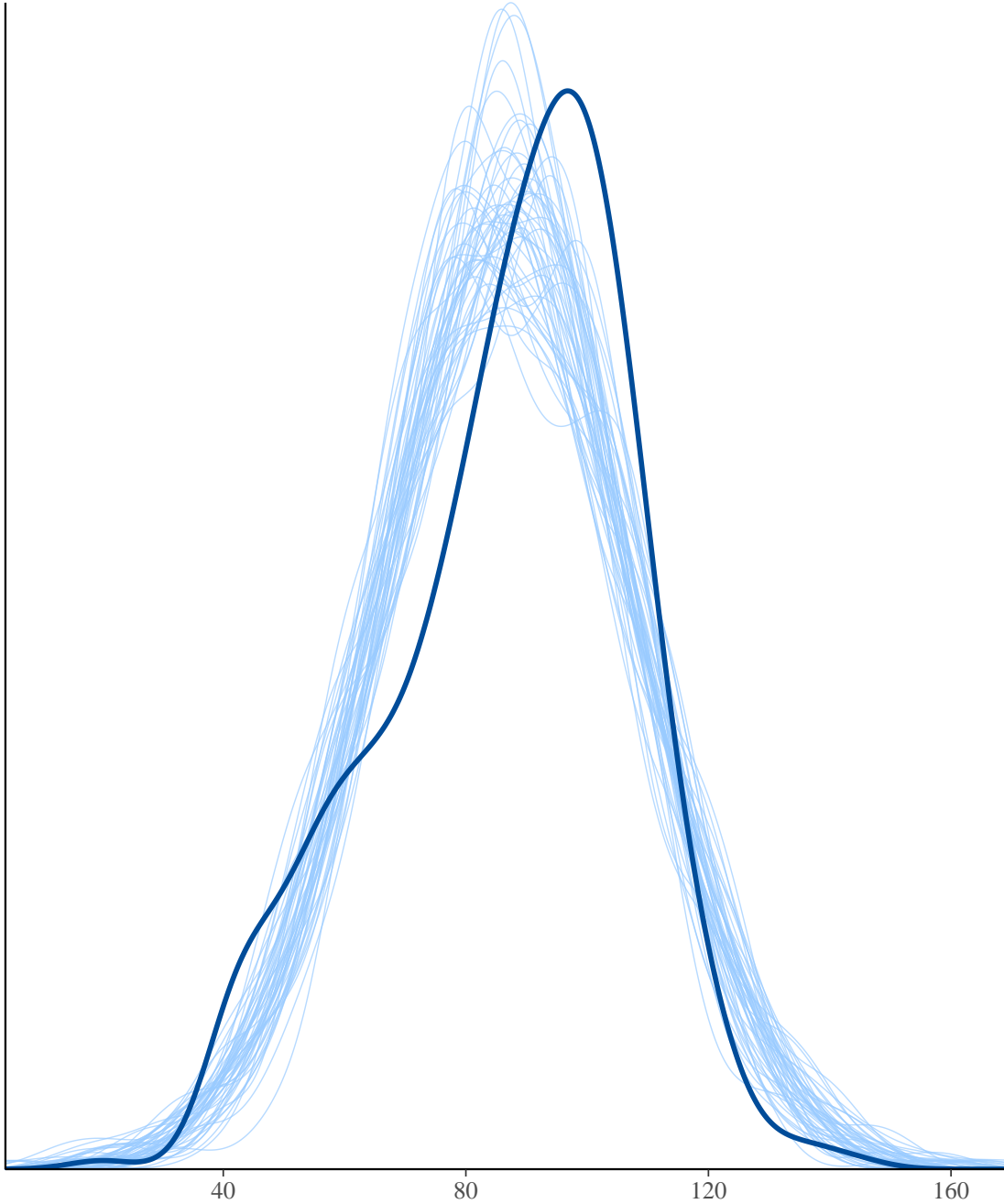
- 1
- 2
- 3
- 4

sigma

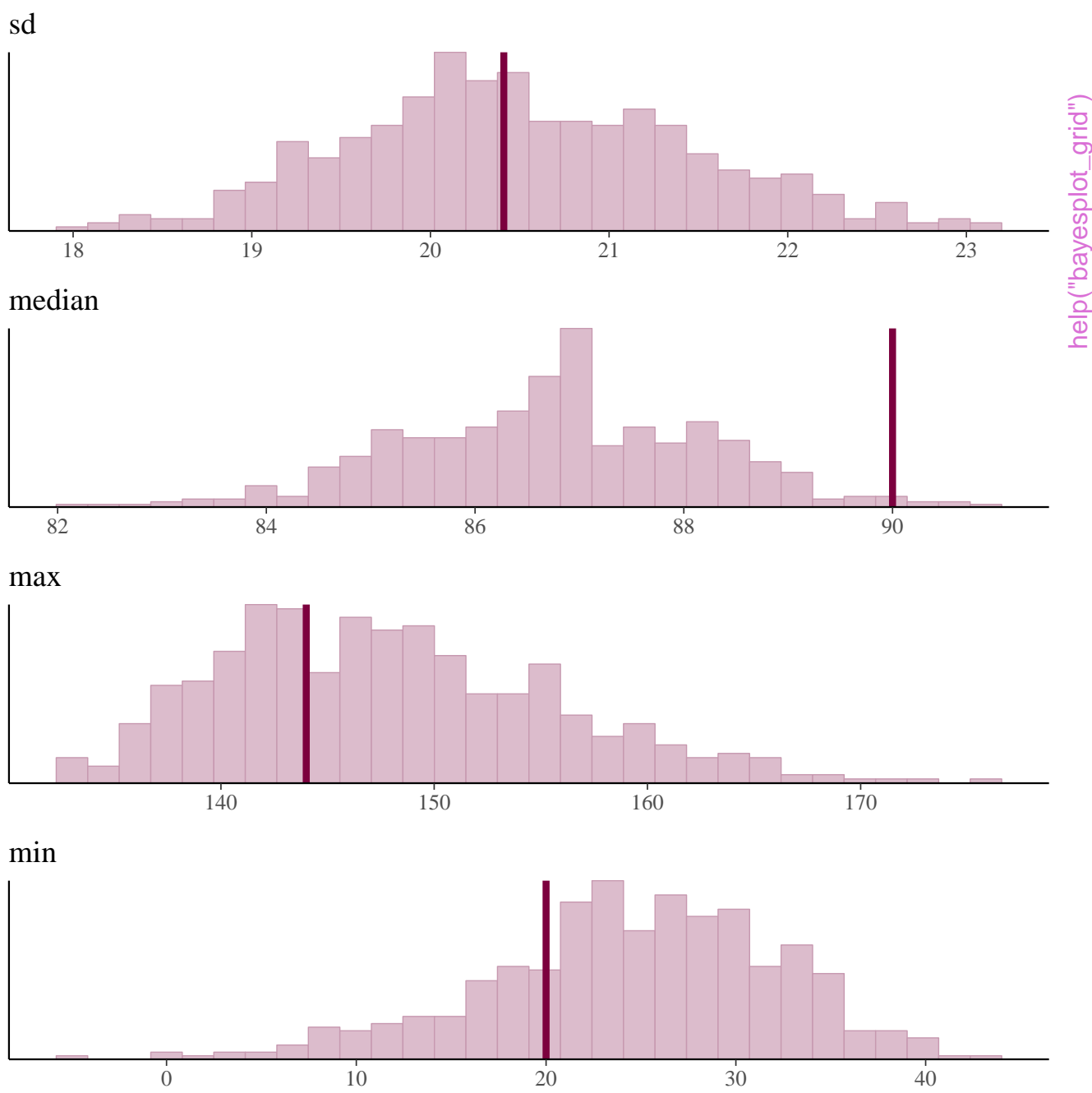


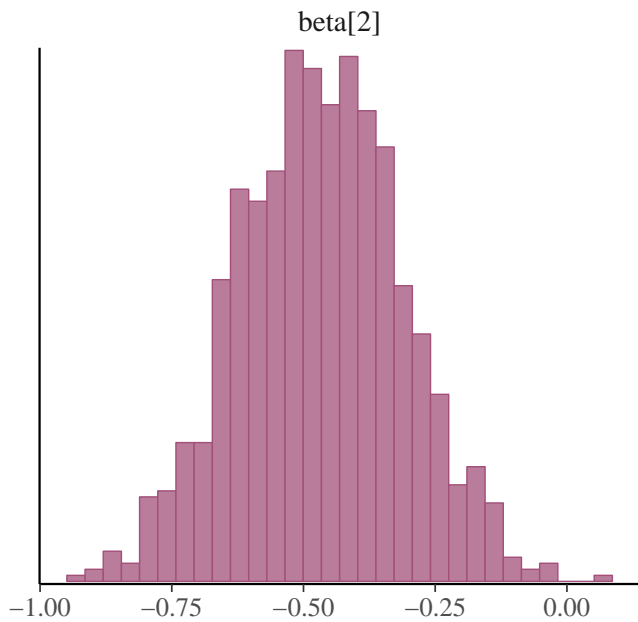
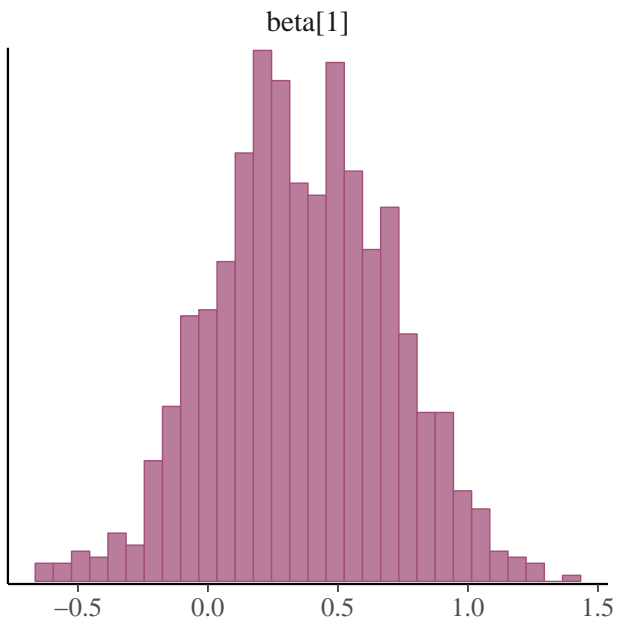
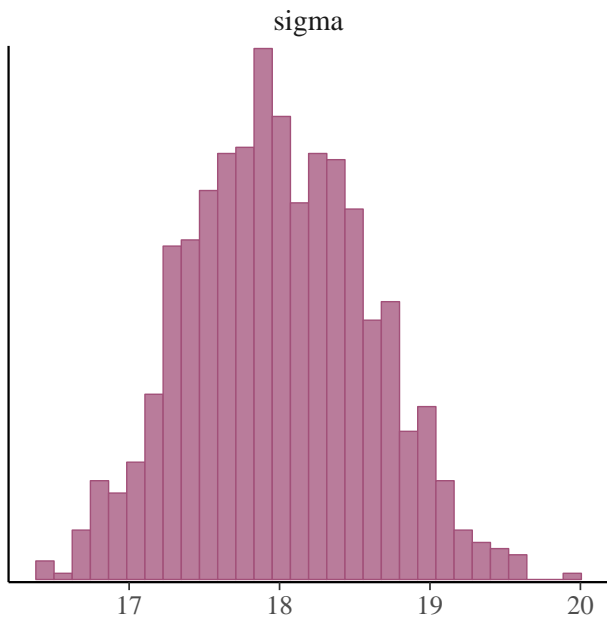
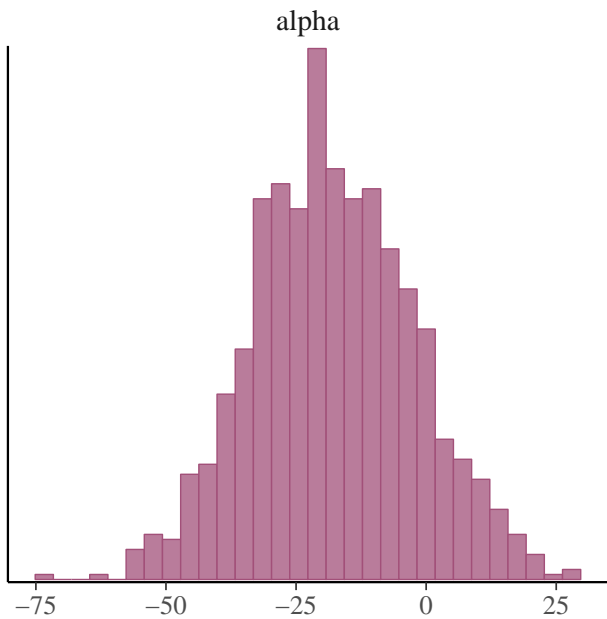






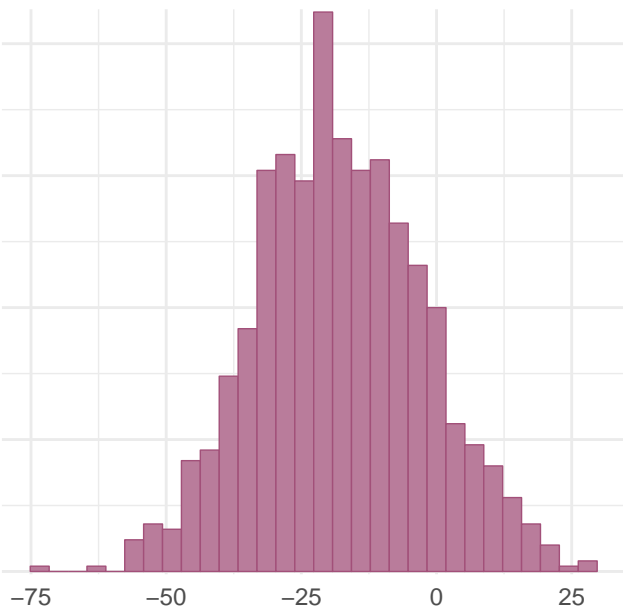
help("bayesplot-package")



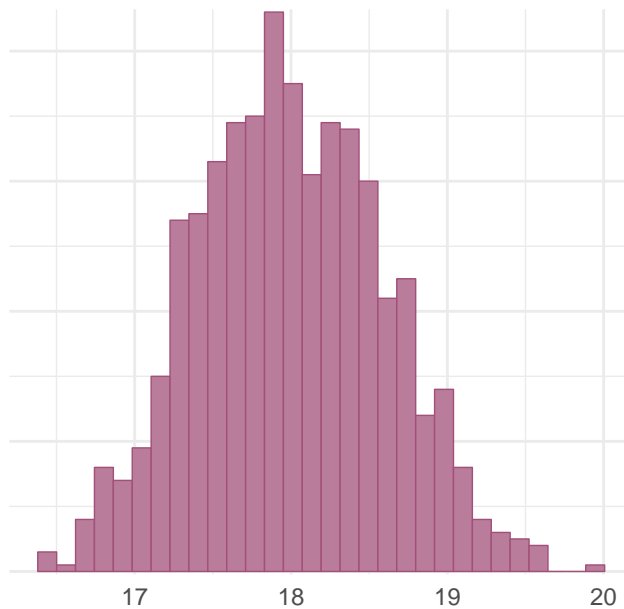


help("bayesplot\_theme\_get")

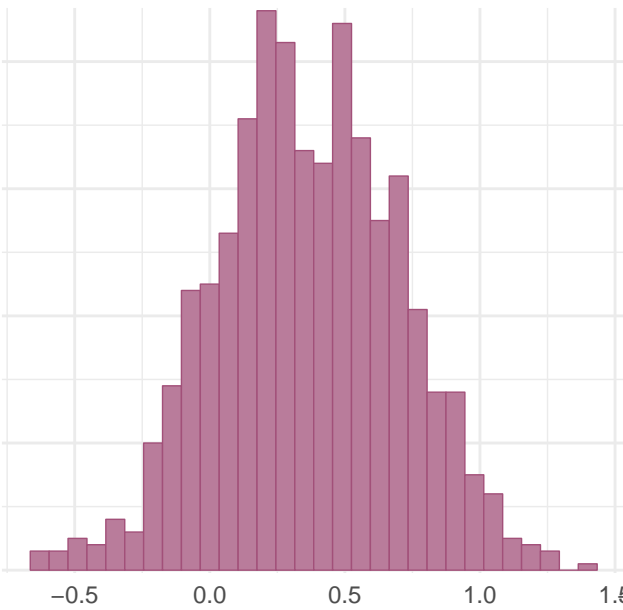
alpha



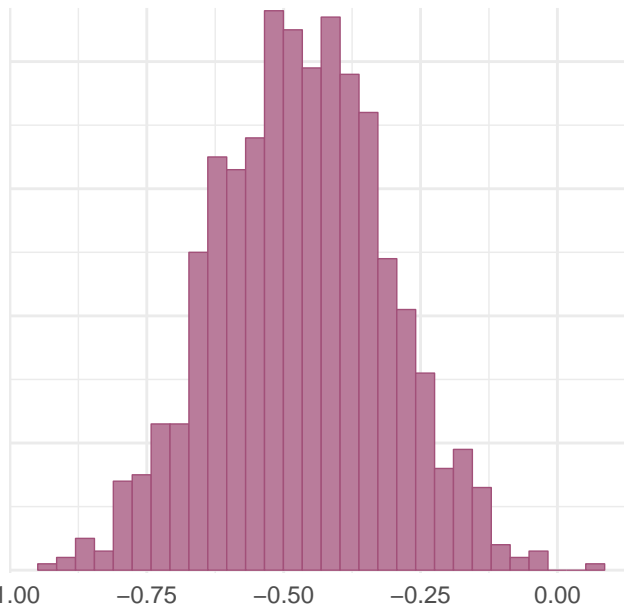
sigma



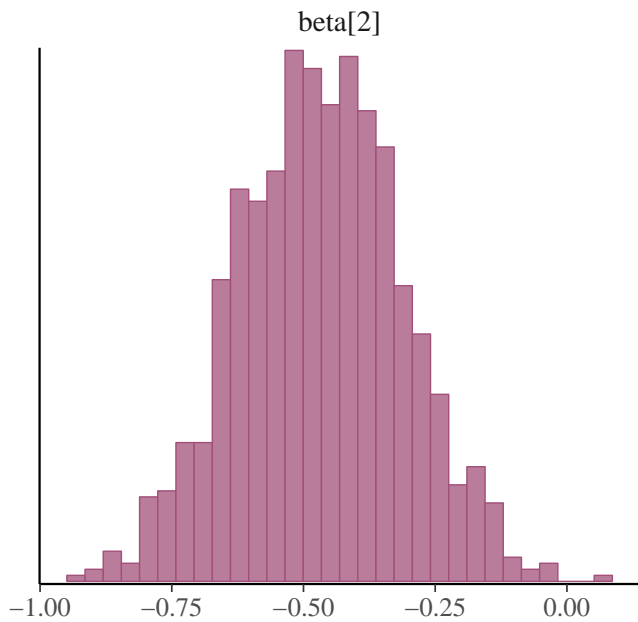
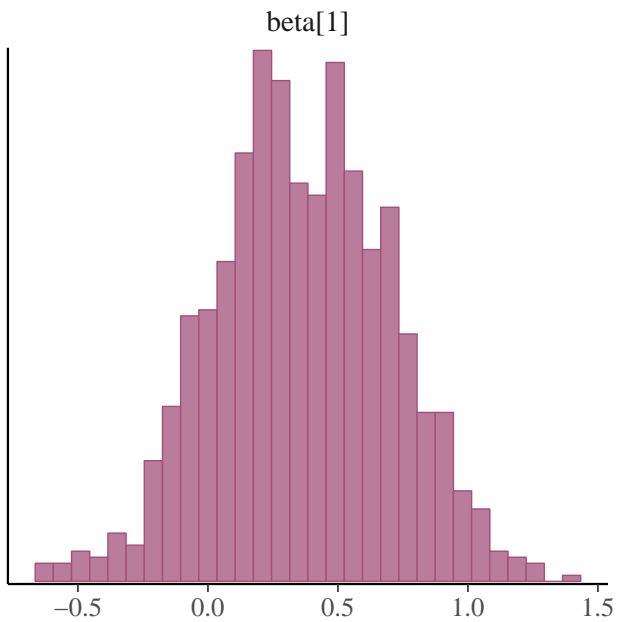
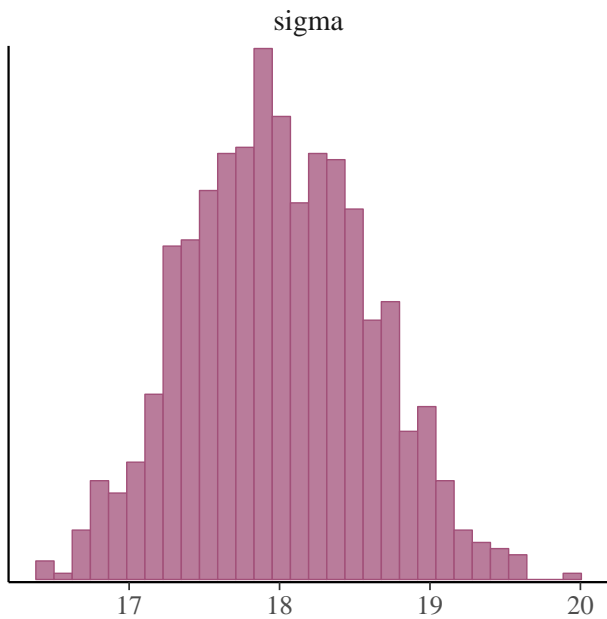
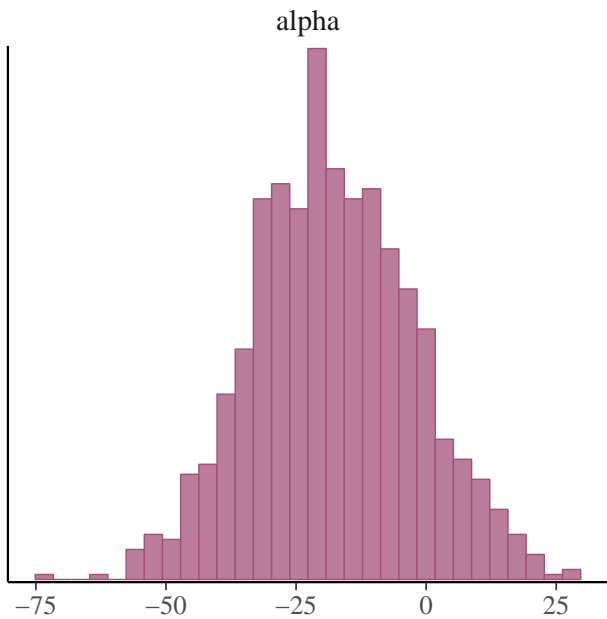
beta[1]



beta[2]

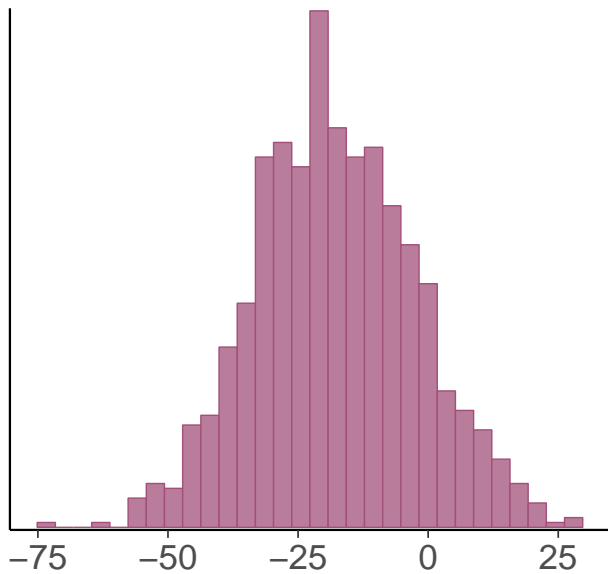


help("bayesplot\_theme\_get")

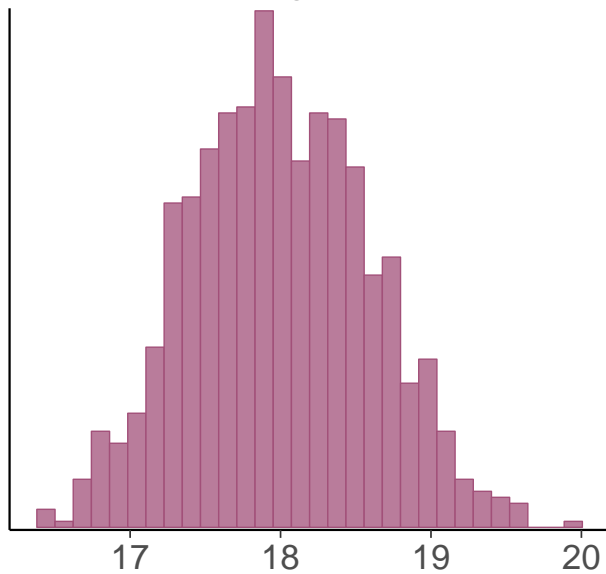


help("bayesplot\_theme\_get")

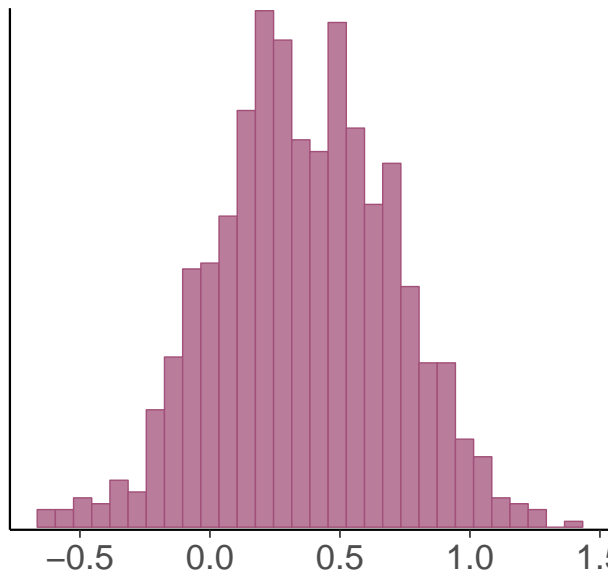
alpha



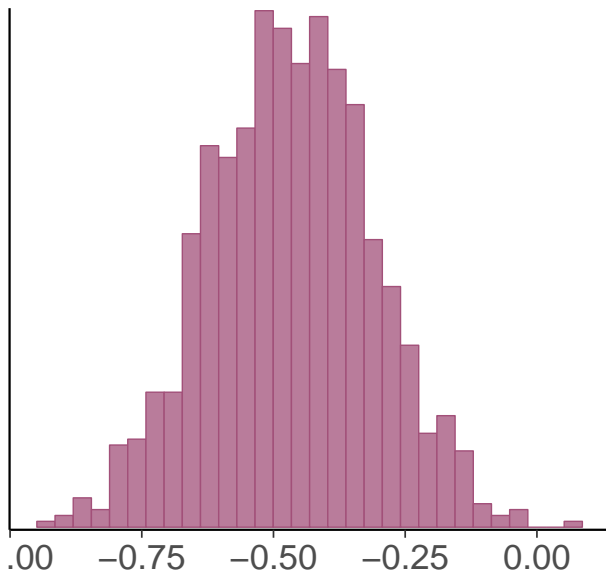
sigma



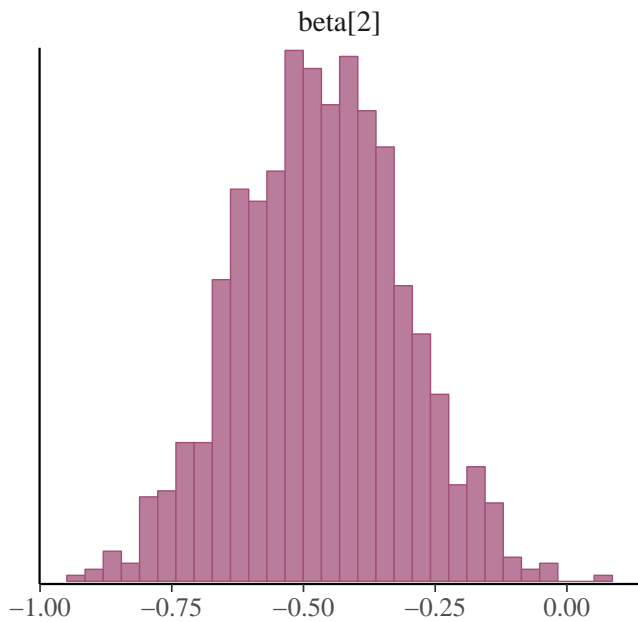
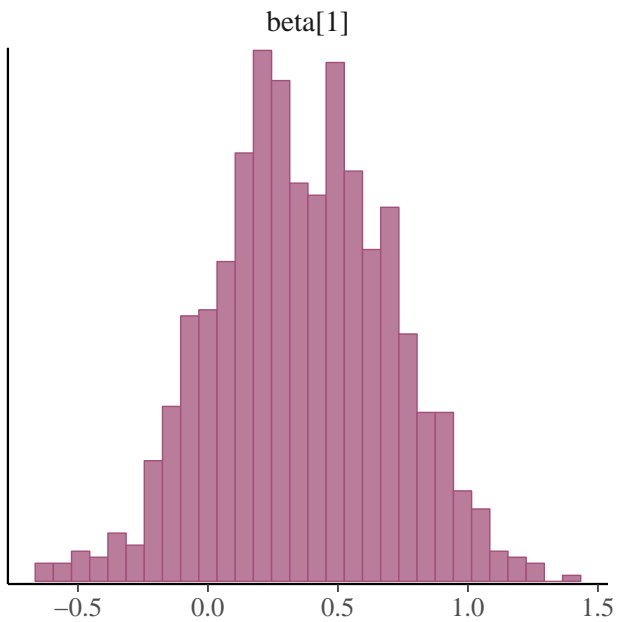
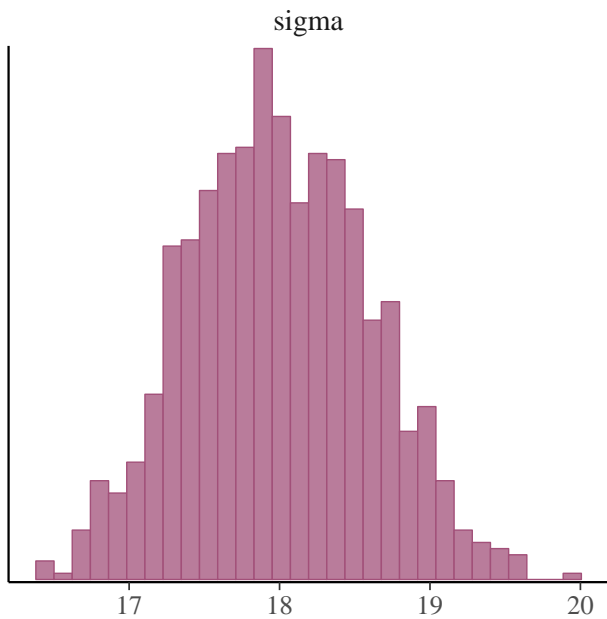
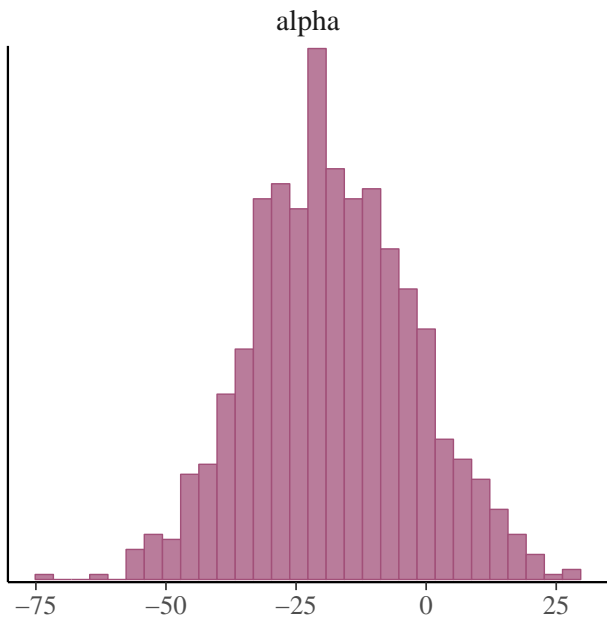
beta[1]



beta[2]

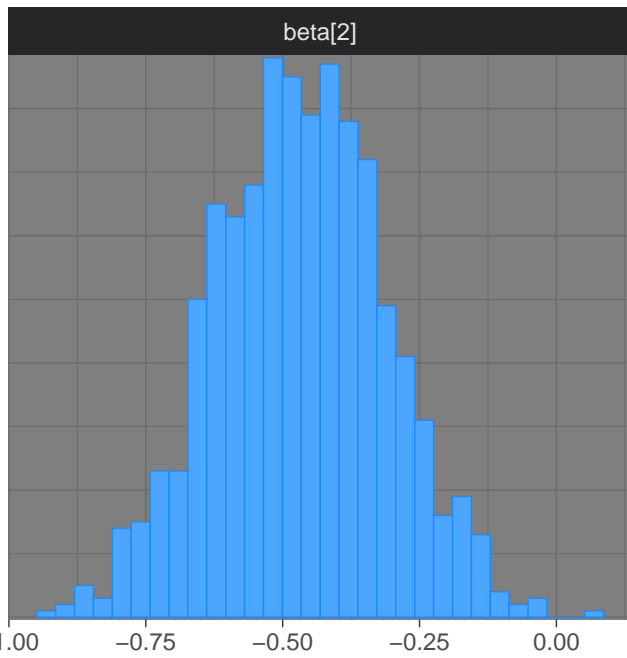
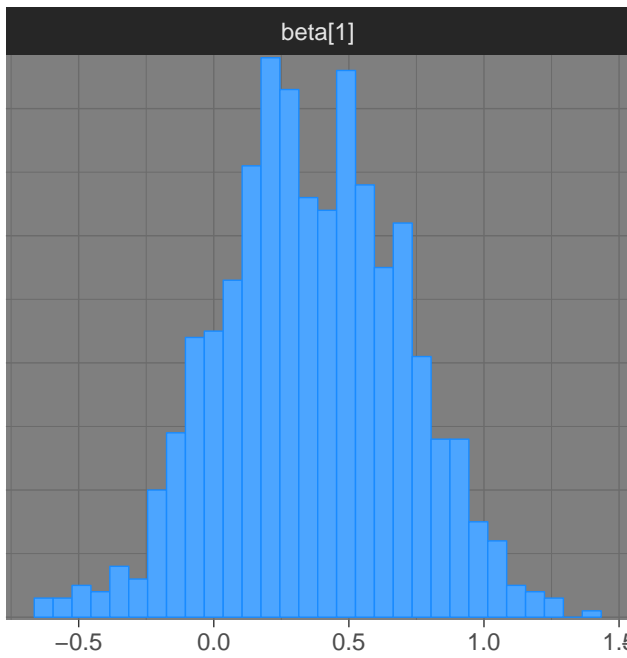
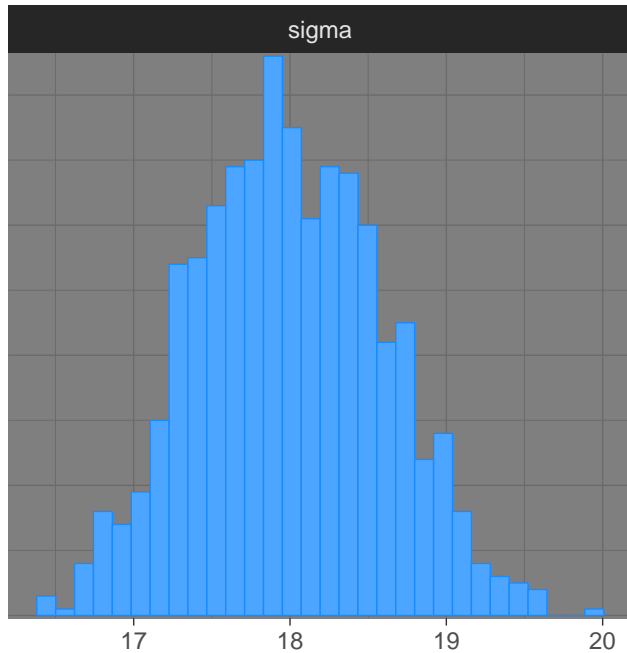
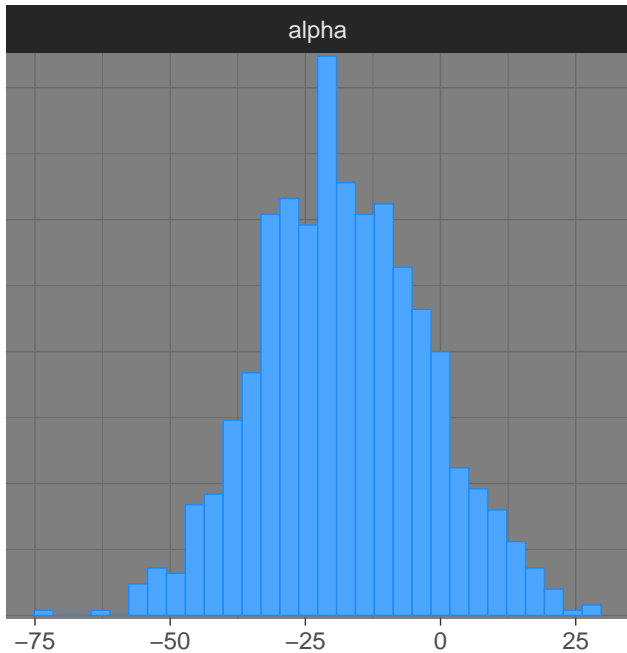


help("bayesplot\_theme\_get")

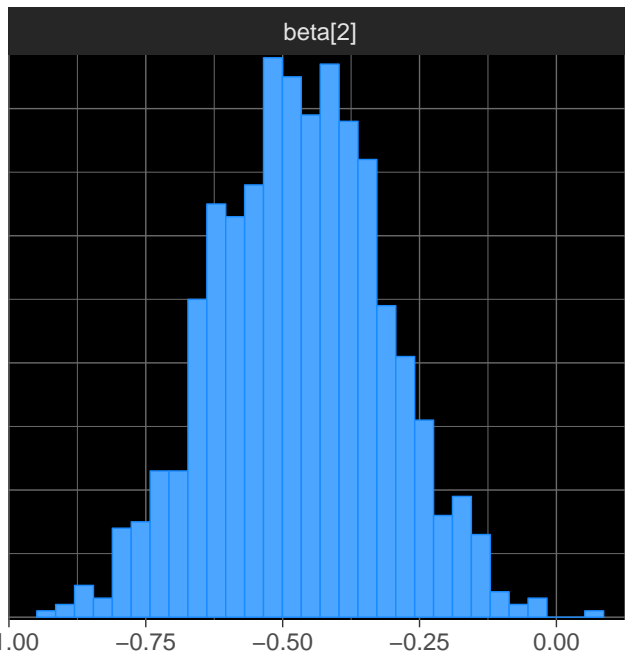
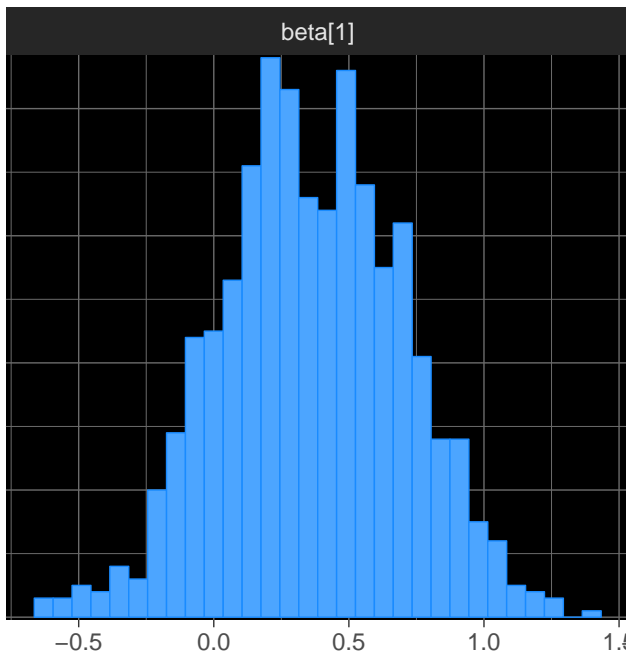
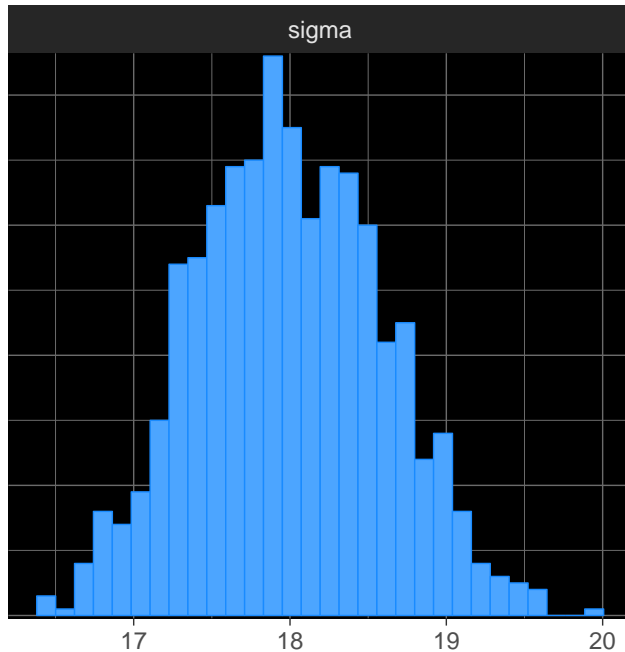
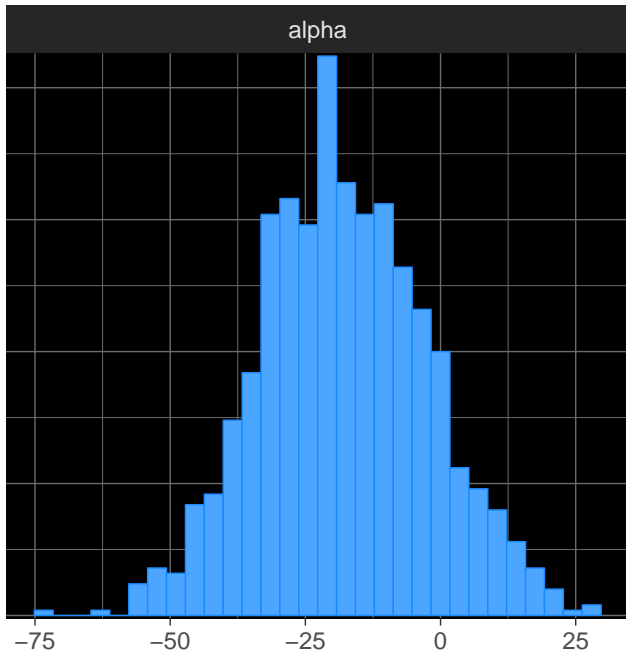


help("bayesplot\_theme\_get")

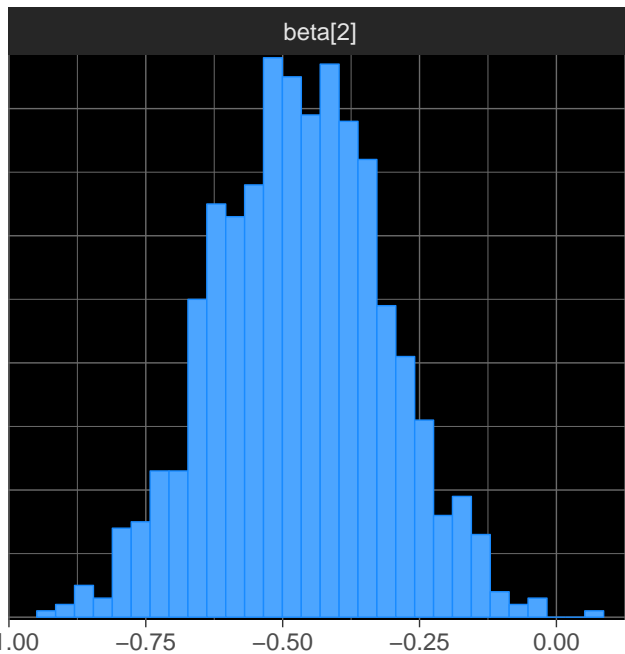
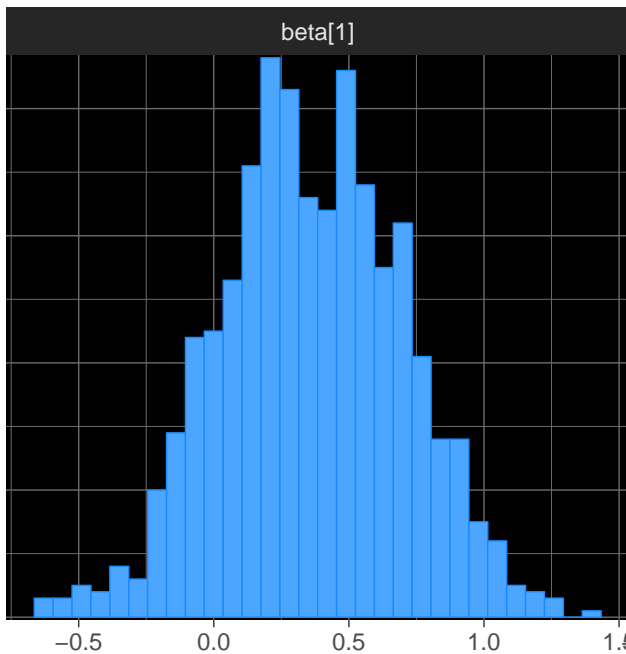
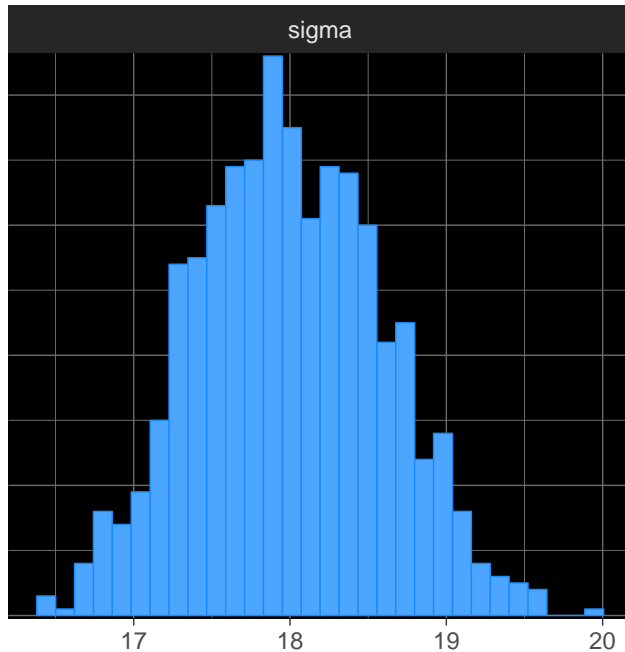
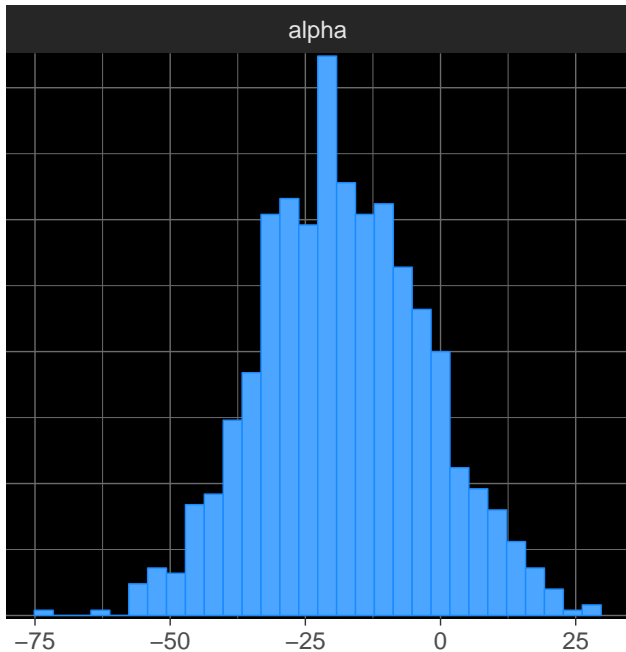




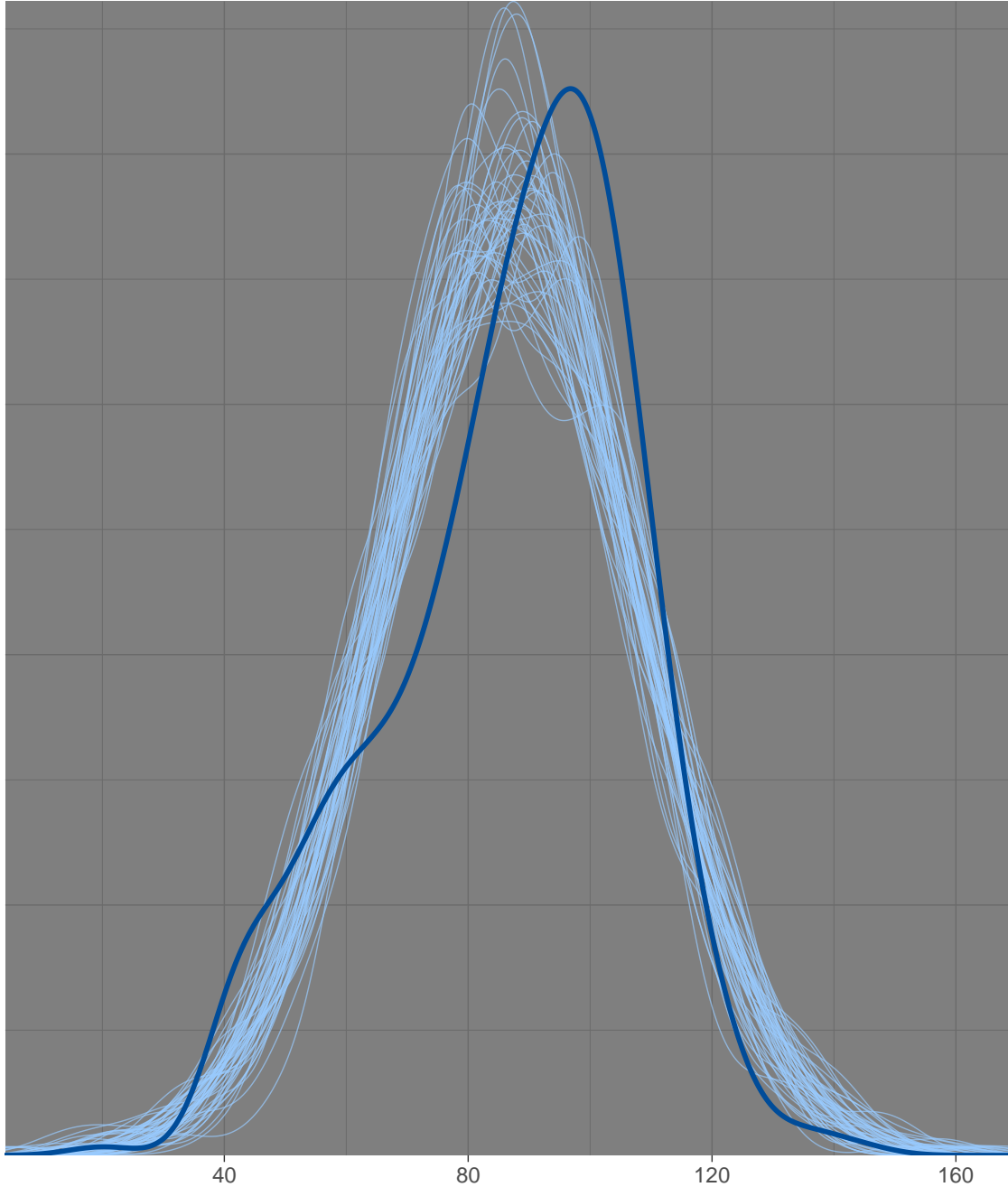
[help\("bayesplot\\_theme\\_get"\)](#)



`help("bayesplot_theme_get")`



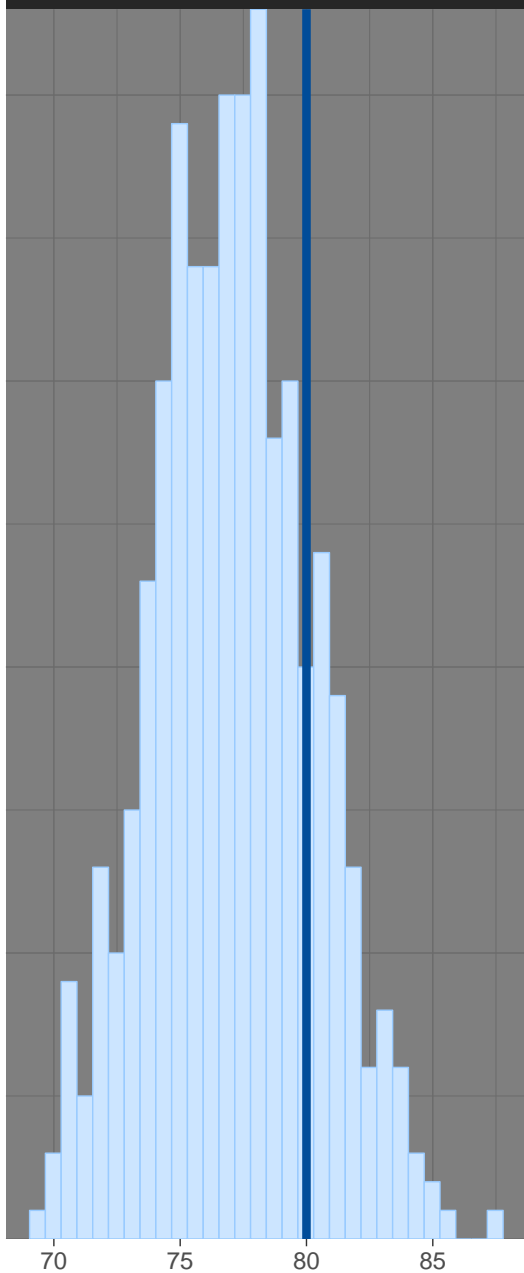
`help("bayesplot_theme_get")`



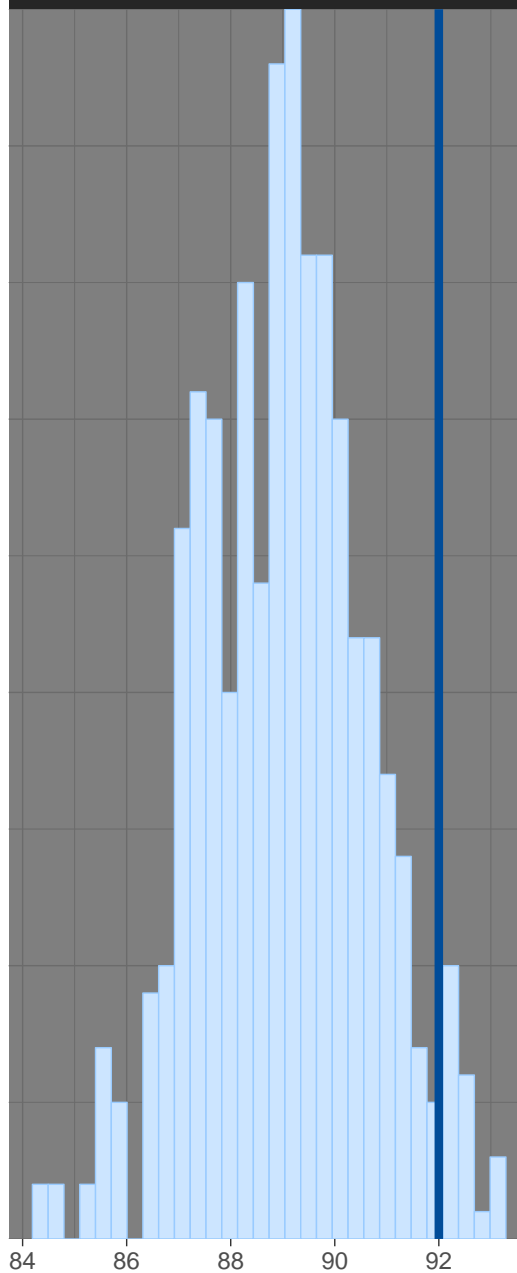
$y$   
 $y_{\text{rep}}$

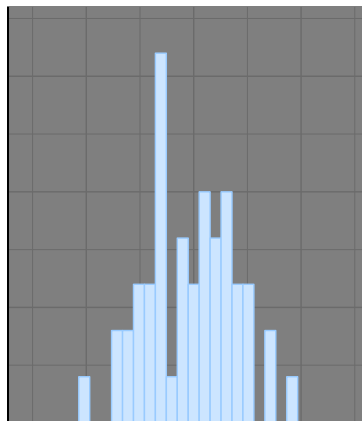
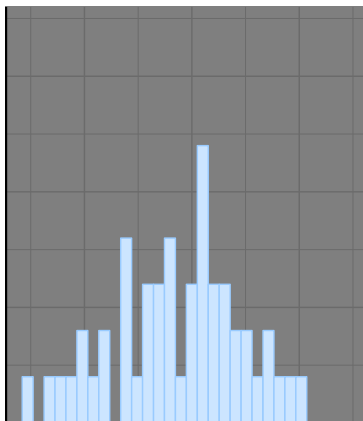
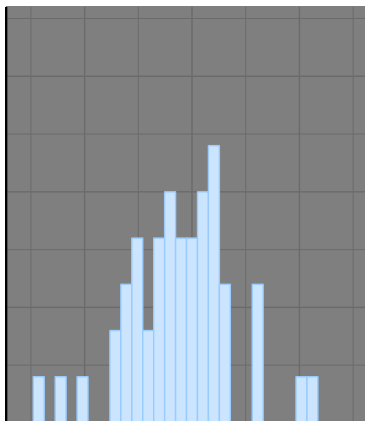
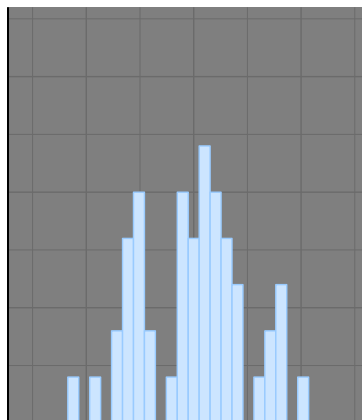
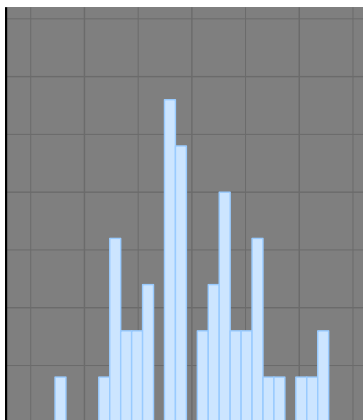
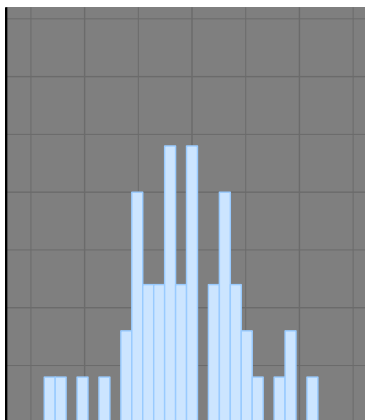
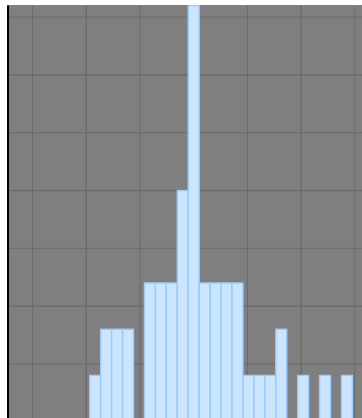
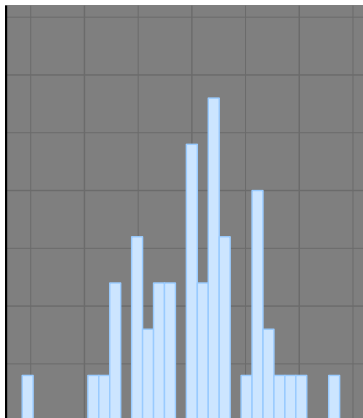
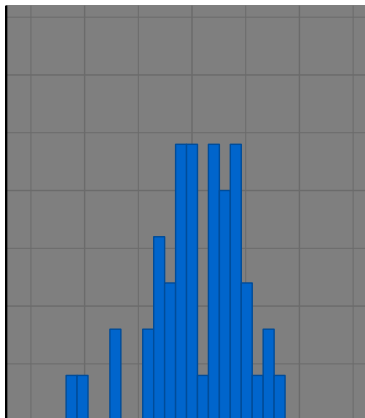
help("pp\_check")

GroupA



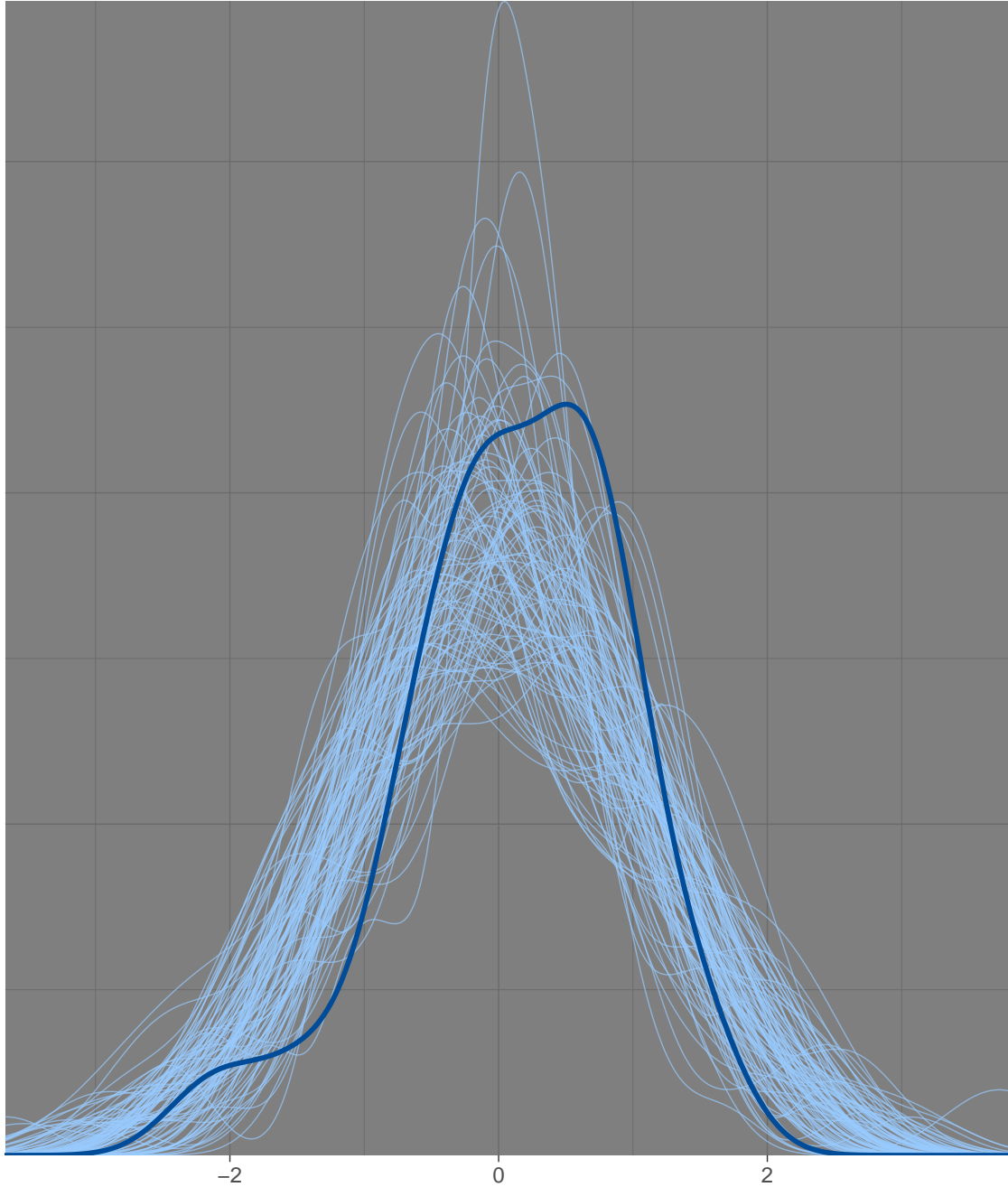
GroupB

 $T = \text{median}$  $T(y_{\text{rep}})$  $T(y)$ `help("pp_check")`



$y$   
 $y_{\text{rep}}$

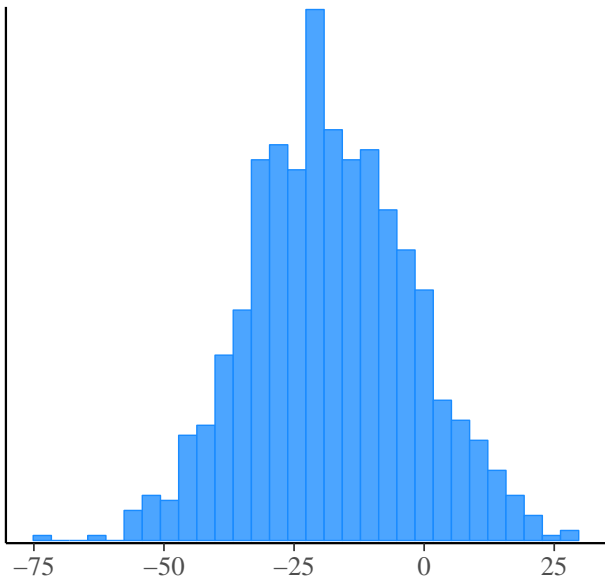
help("pp\_check")



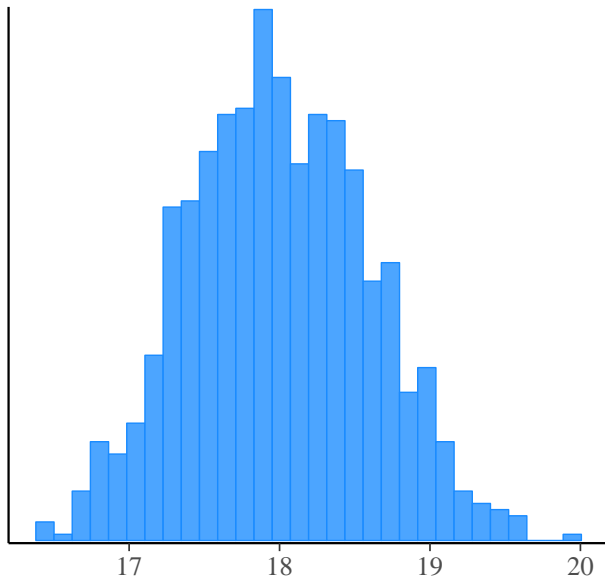
$y$   
 $y_{\text{rep}}$

help("pp\_check")

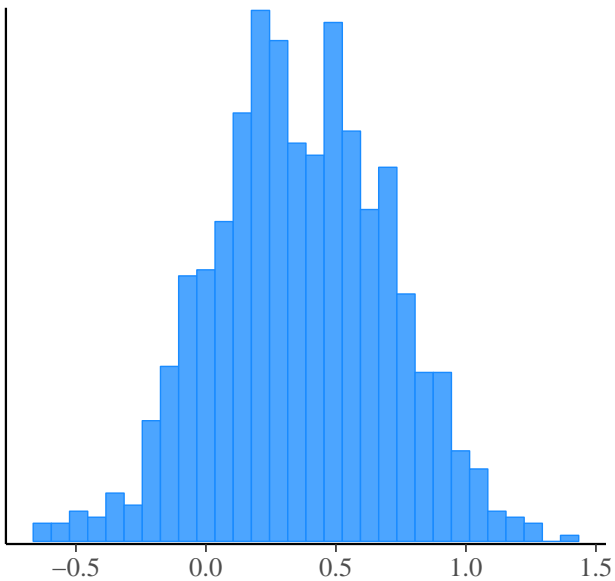
alpha



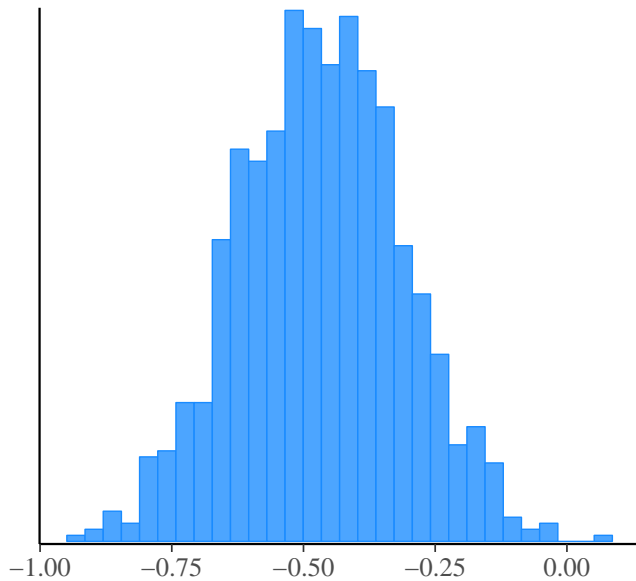
sigma



beta[1]



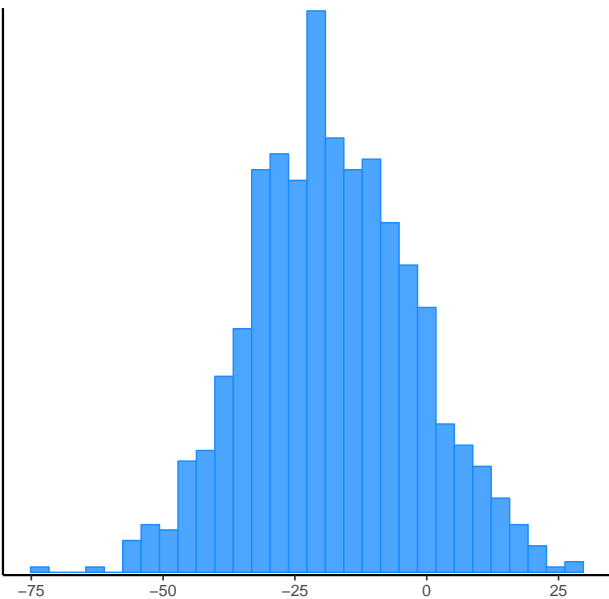
beta[2]



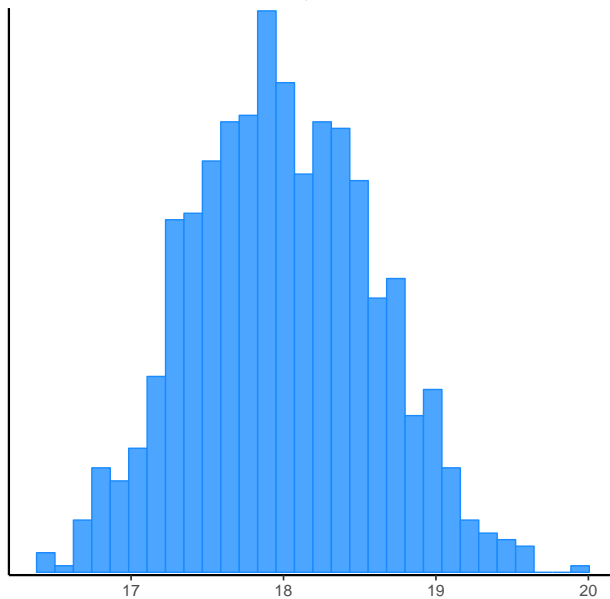
help("theme\_default")



alpha

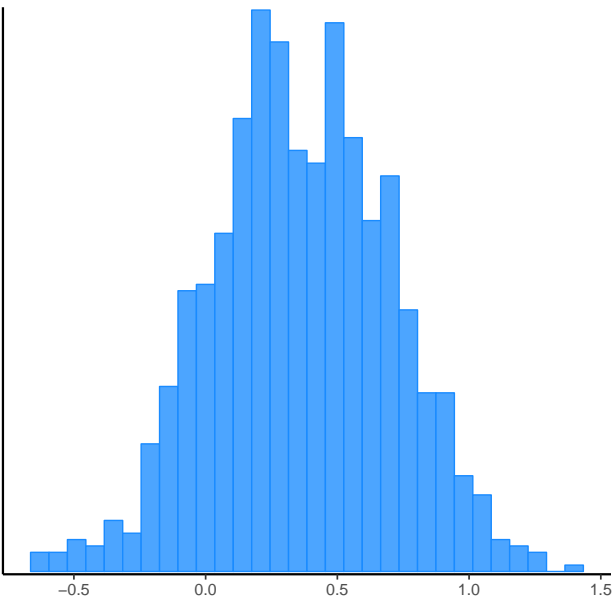


sigma

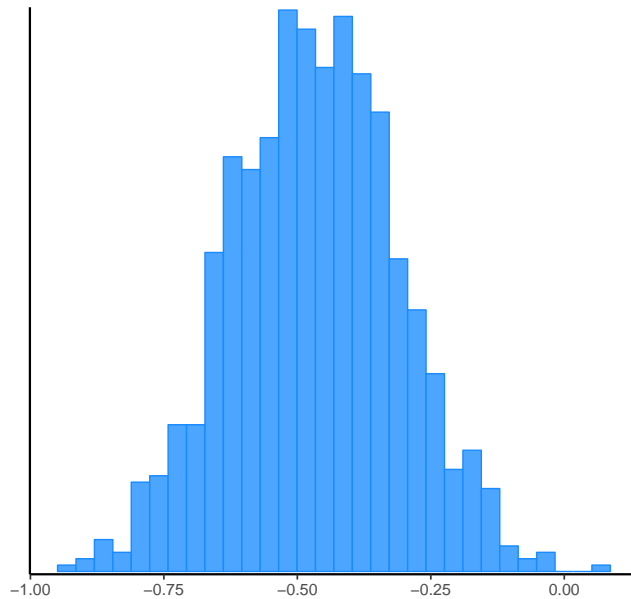


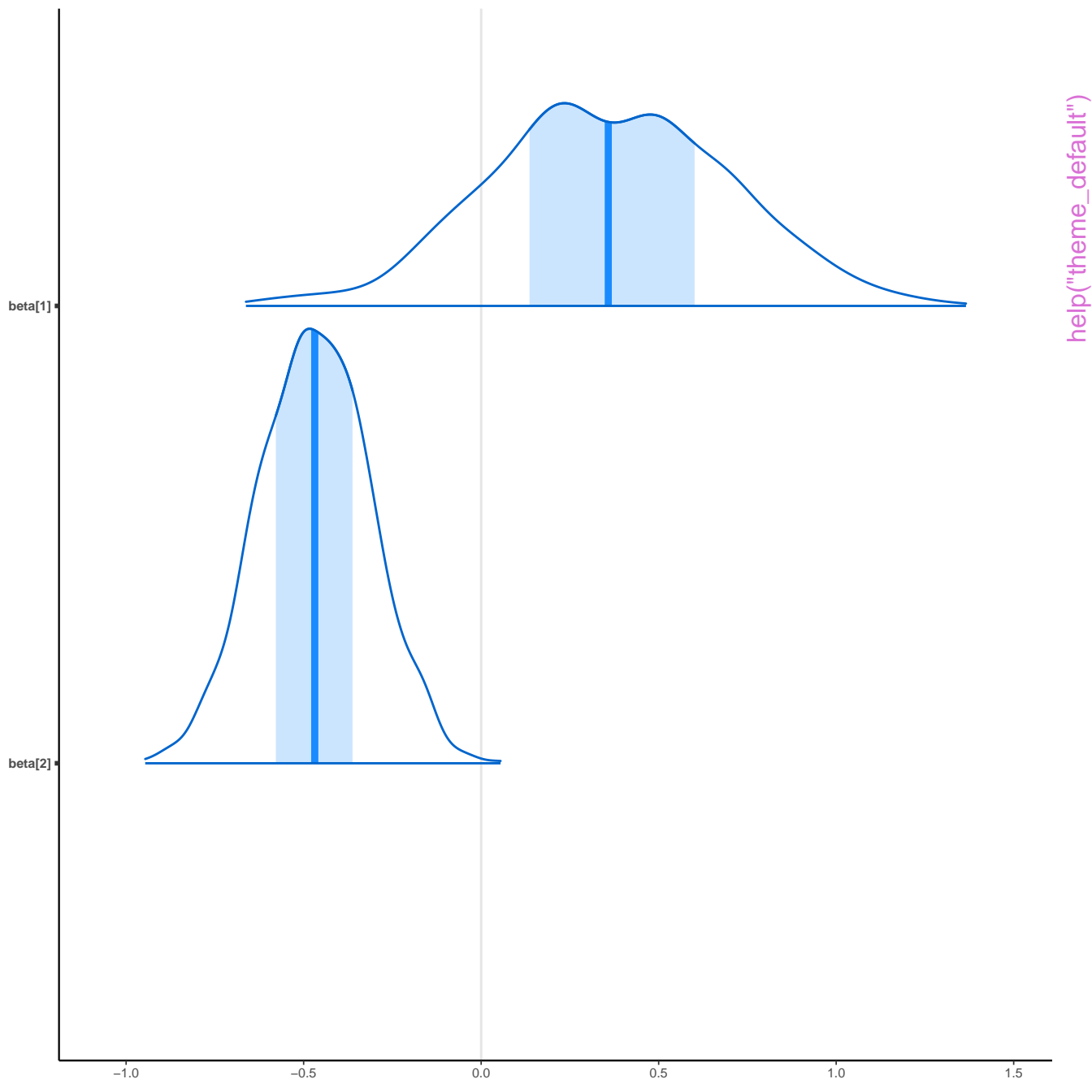
help("theme\_default")

beta[1]



beta[2]

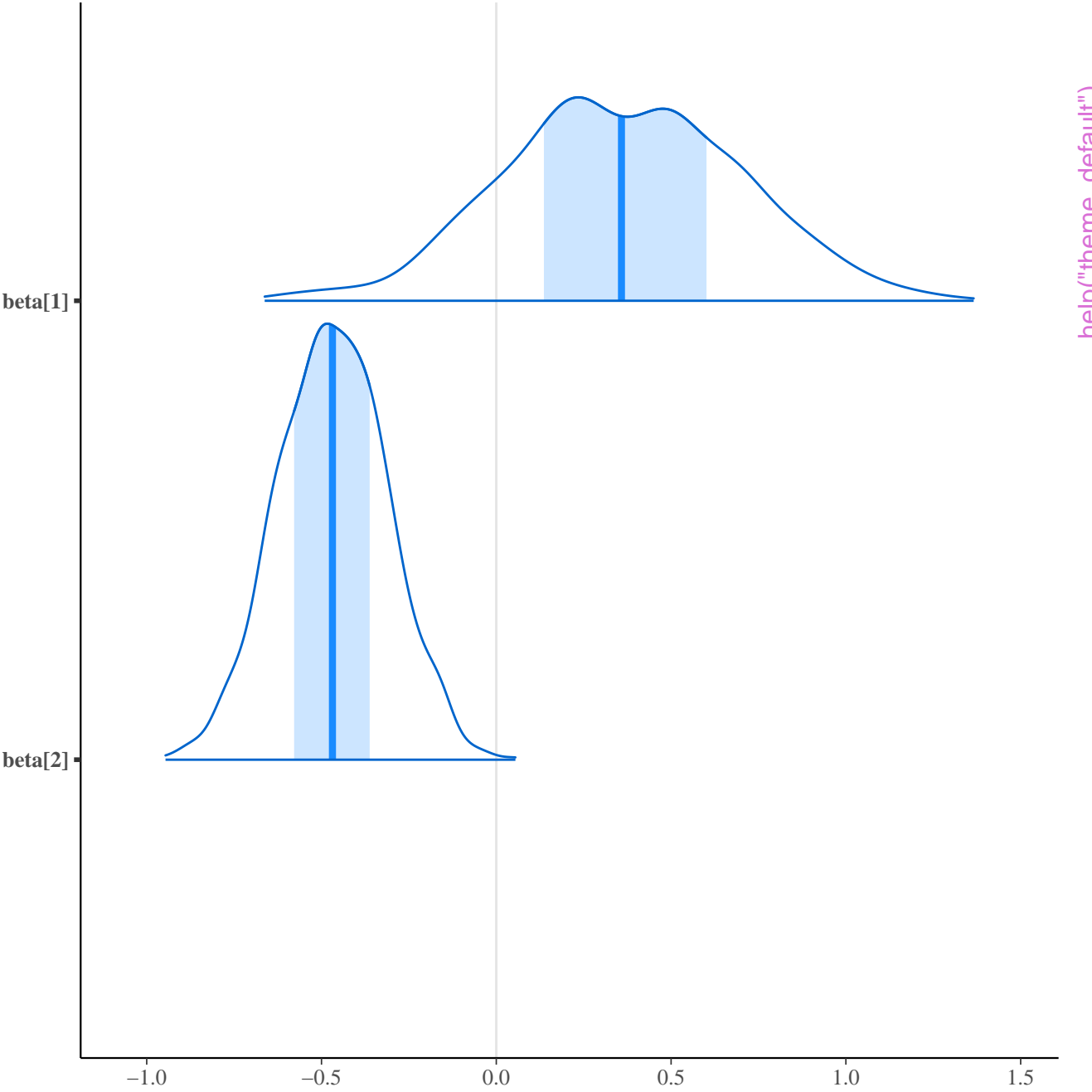




`help("theme_default")`

beta[1]

beta[2]



help("theme\_default")