

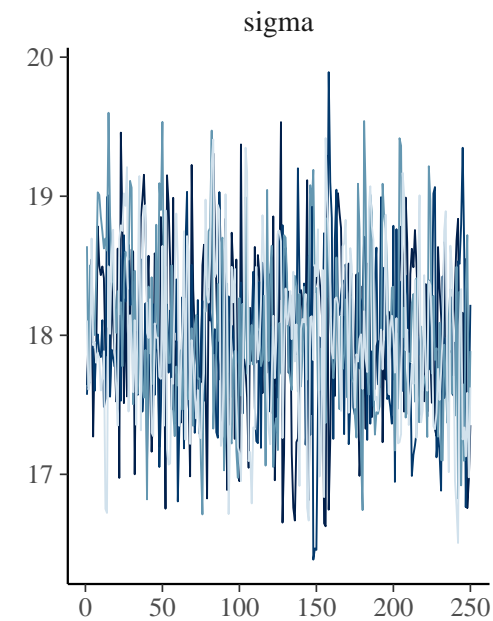
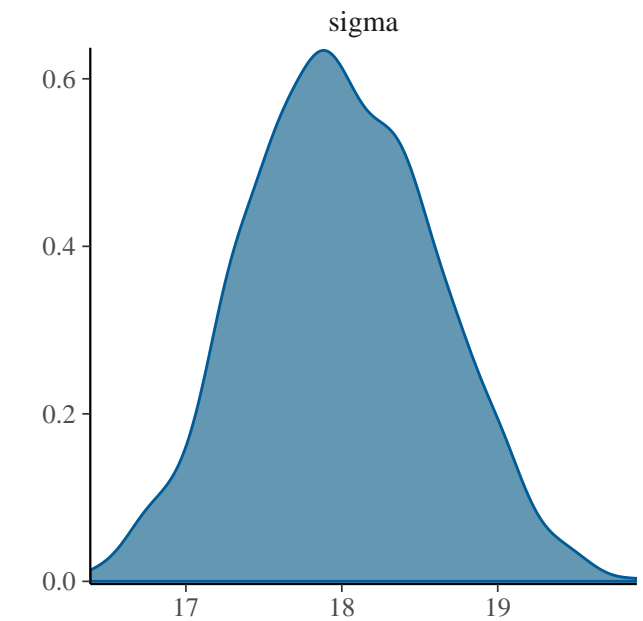
Chain

1

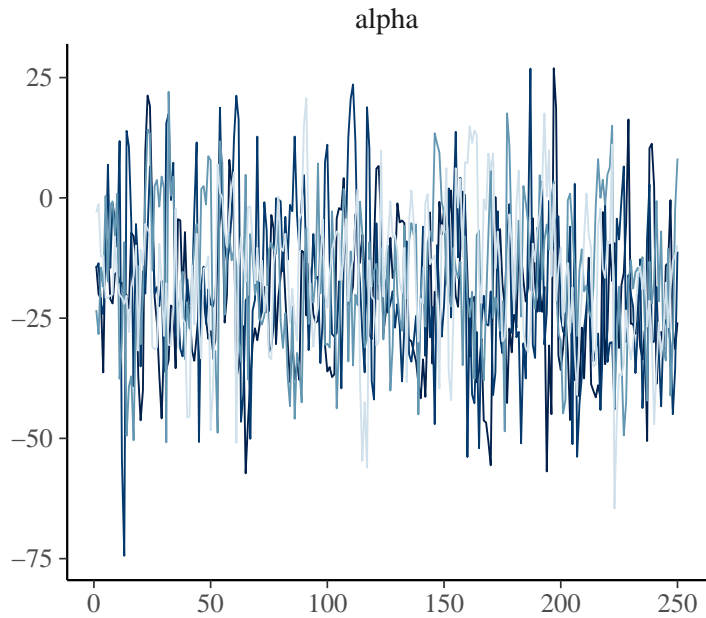
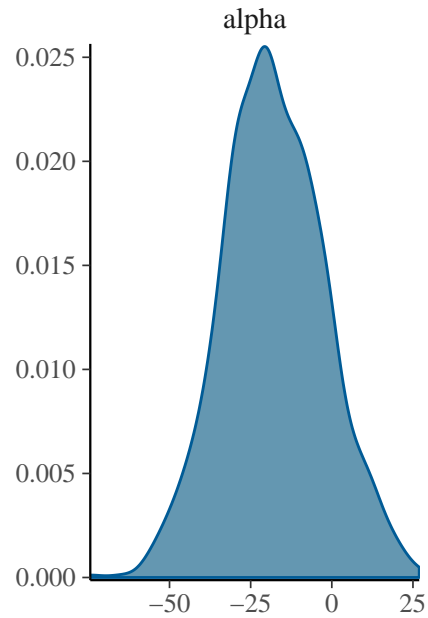
2

3

4



help("MCMC-combos")



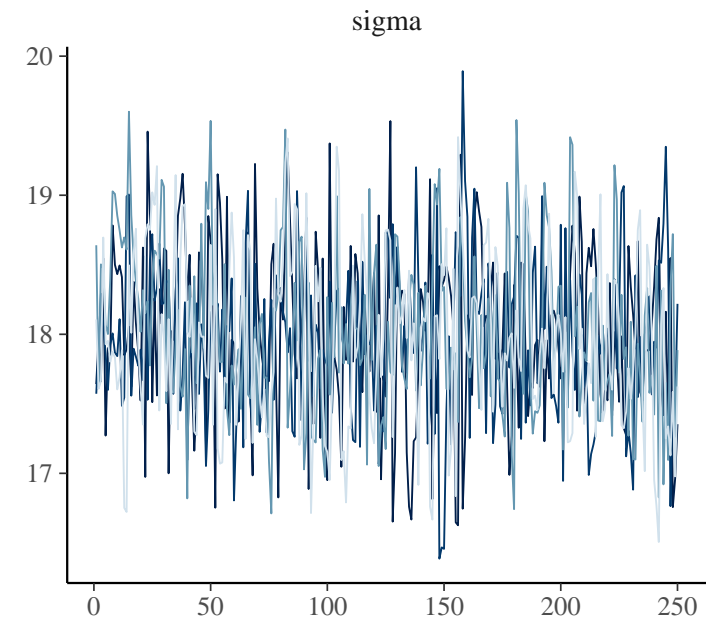
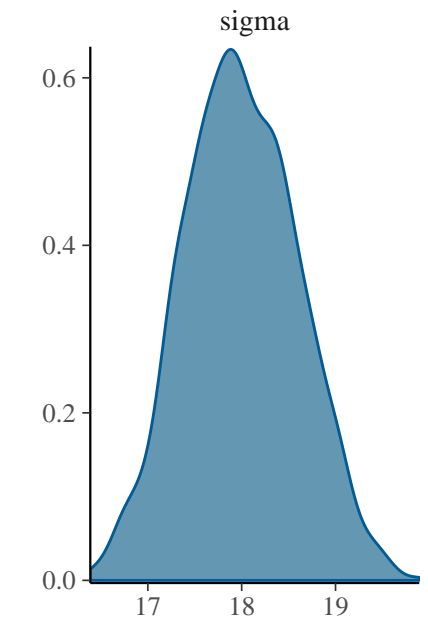
Chain

1

2

3

4



help("MCMC-combos")

alpha

beta[1]

help("MCMC-diagnostics")

1

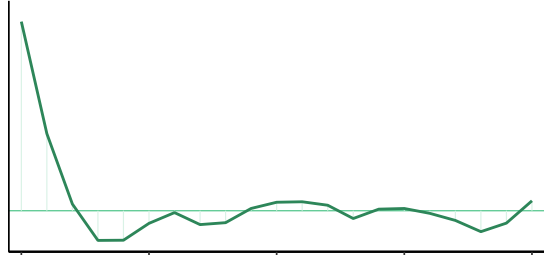
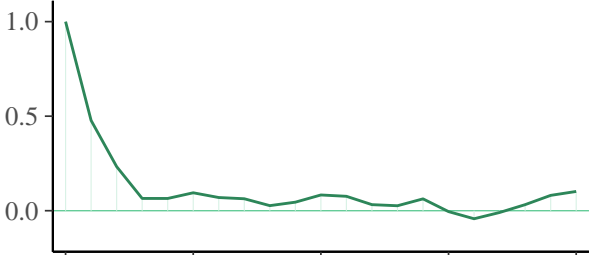
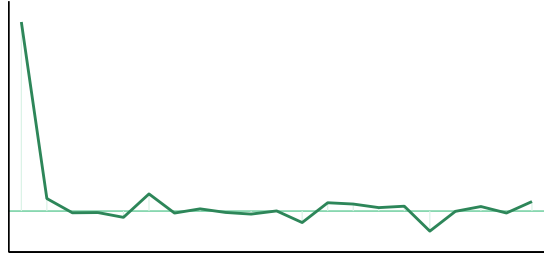
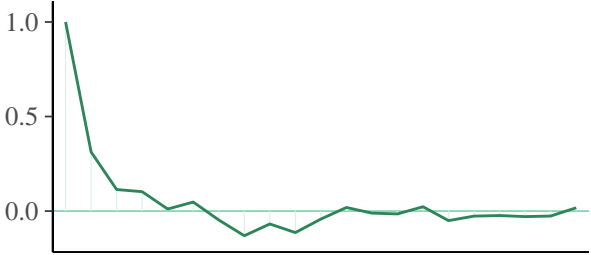
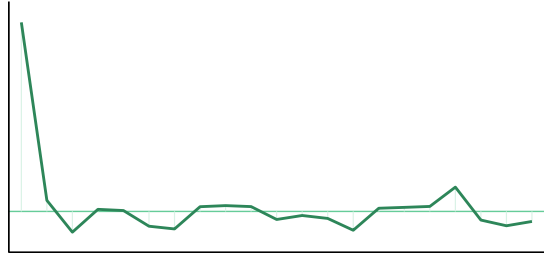
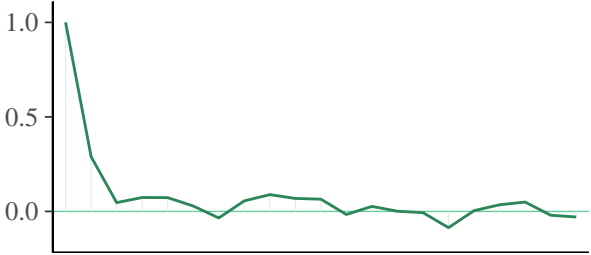
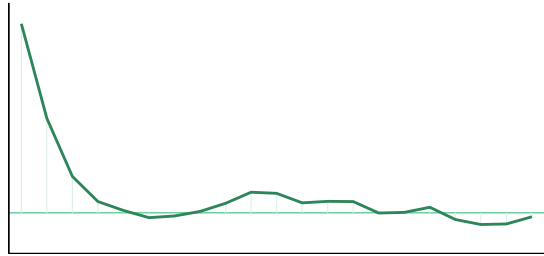
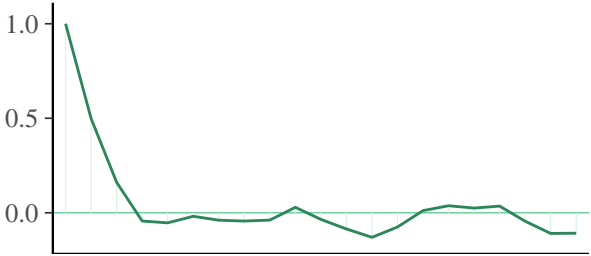
2

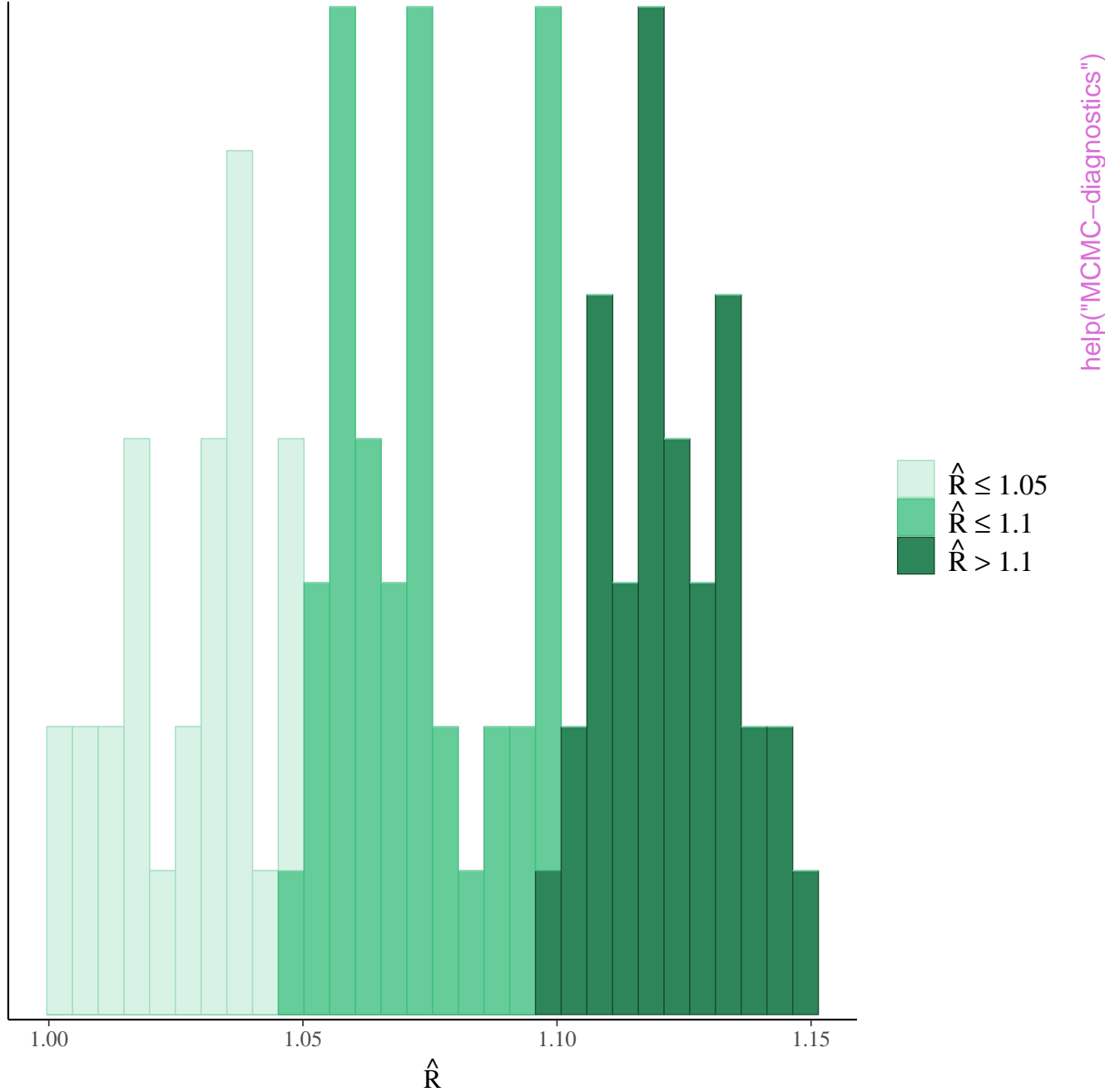
3

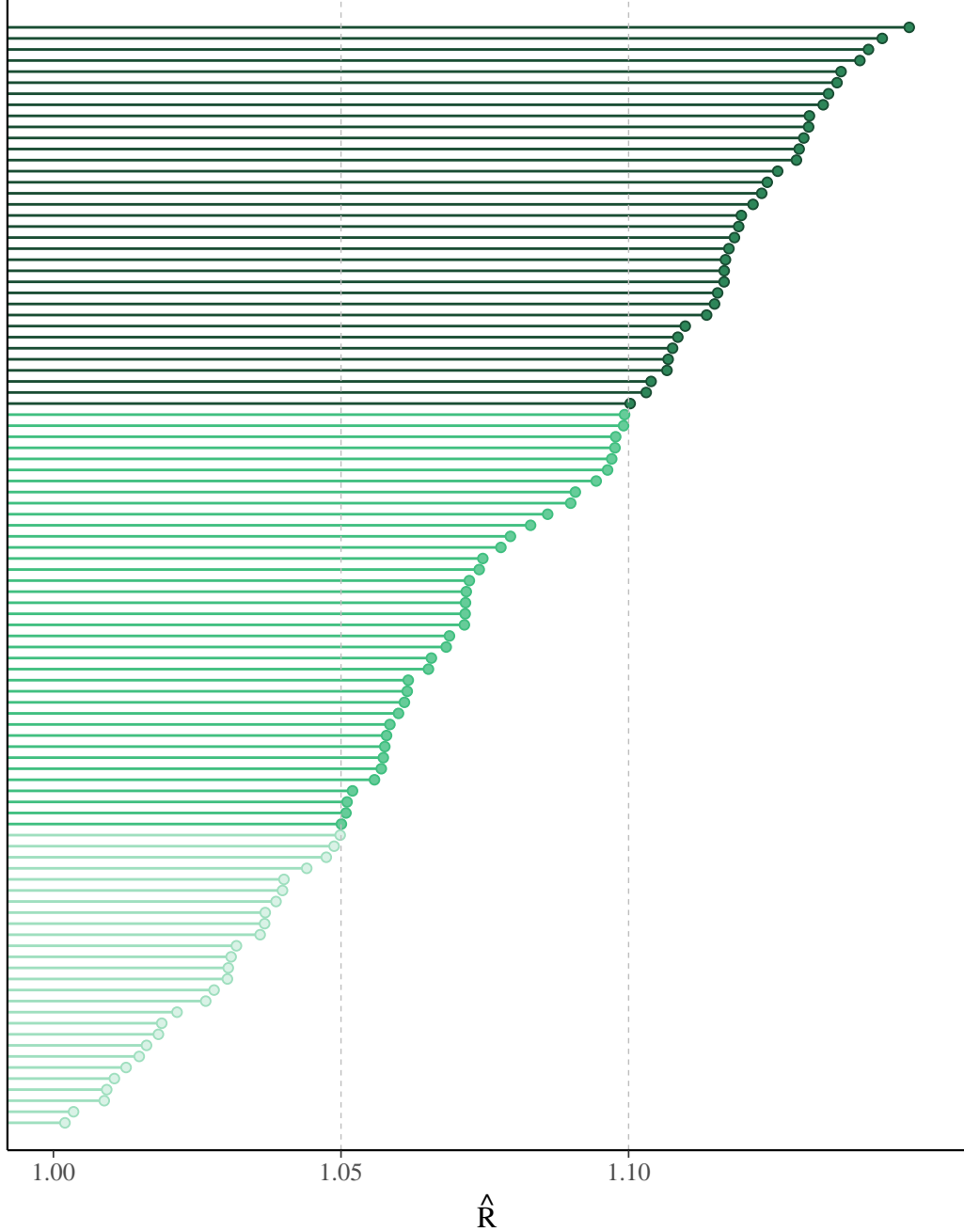
4

Autocorrelation

Lag

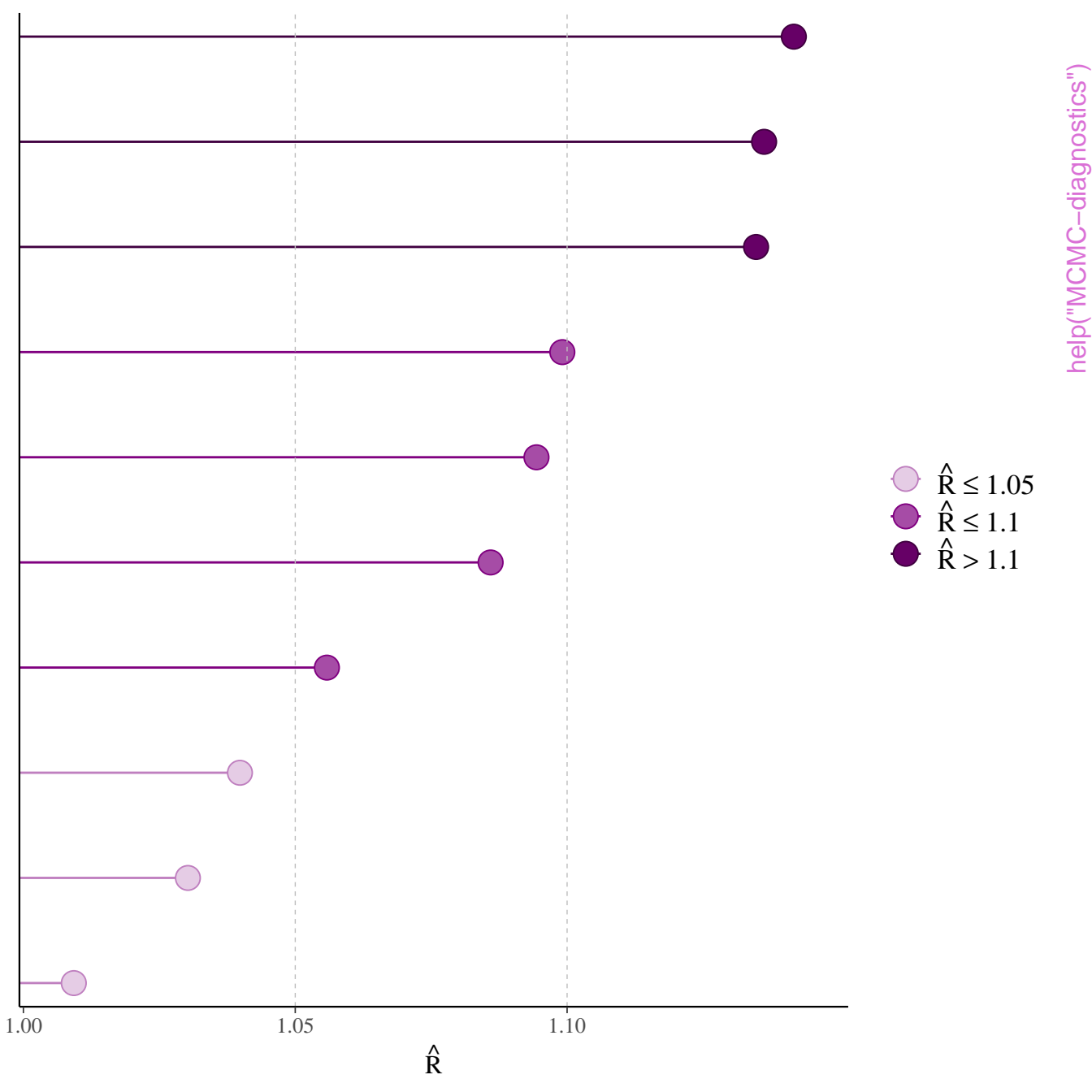


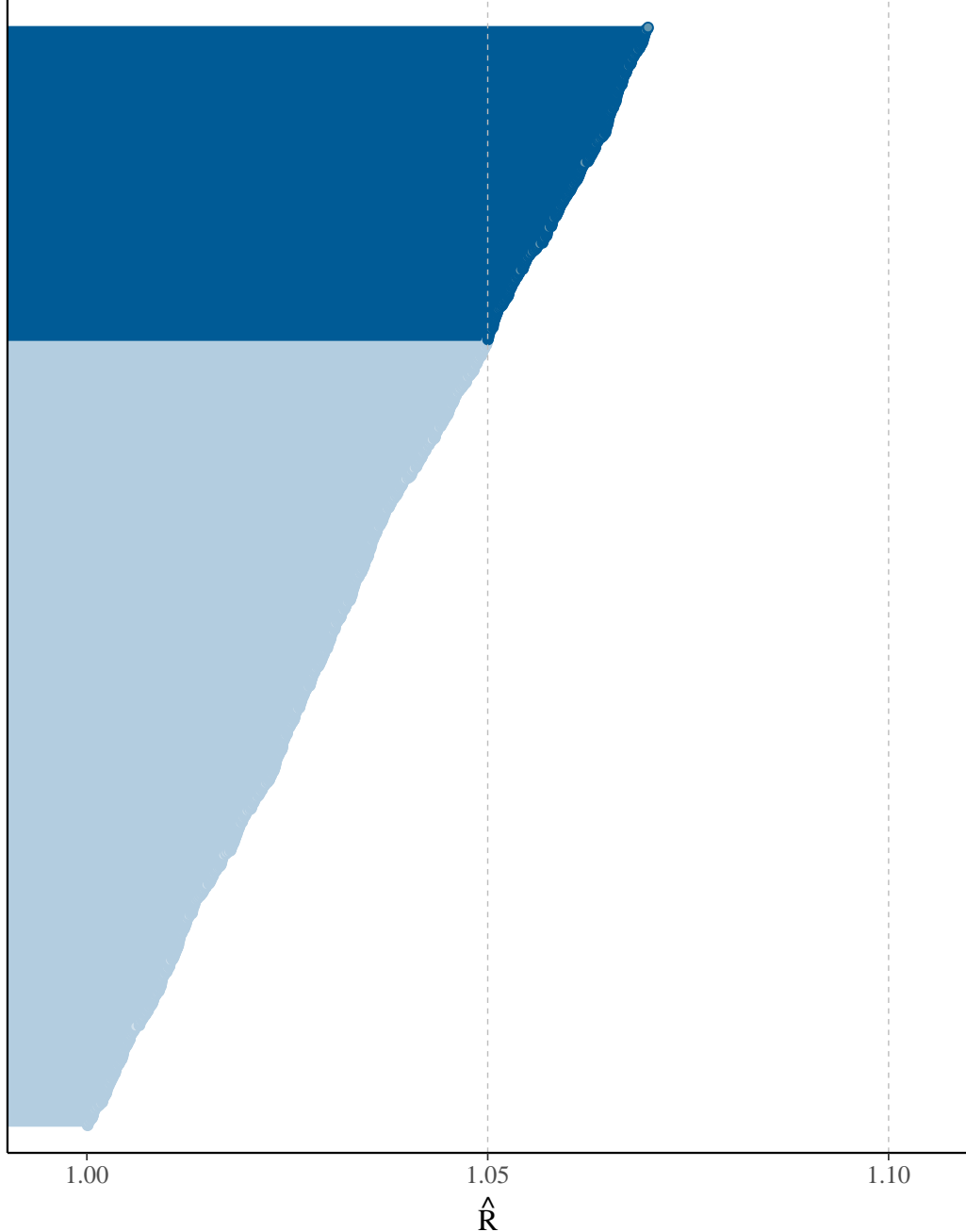




- $\hat{R} \leq 1.05$
- $1.05 < \hat{R} \leq 1.1$
- $\hat{R} > 1.1$

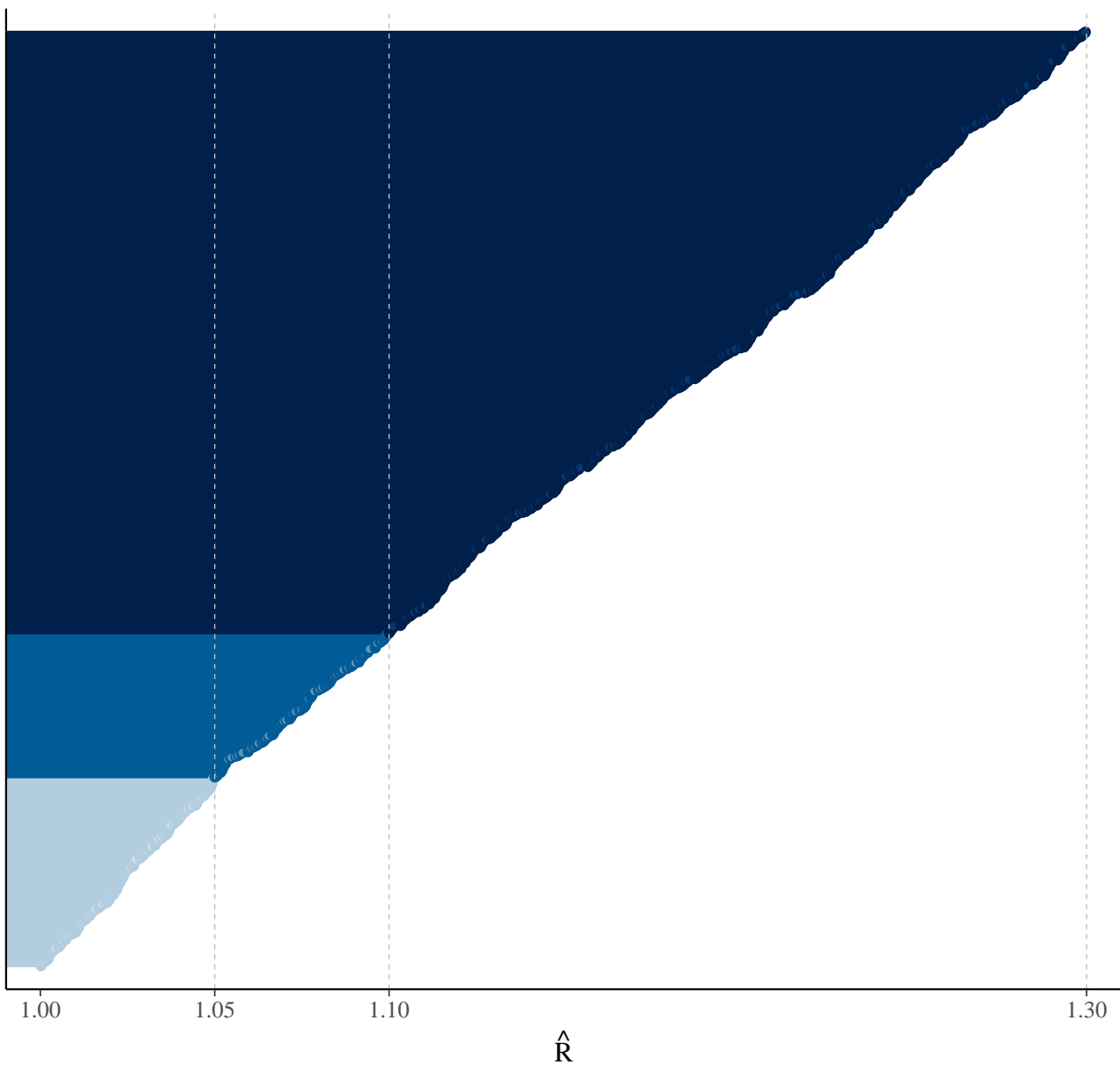
help("MCMC--diagnostics")



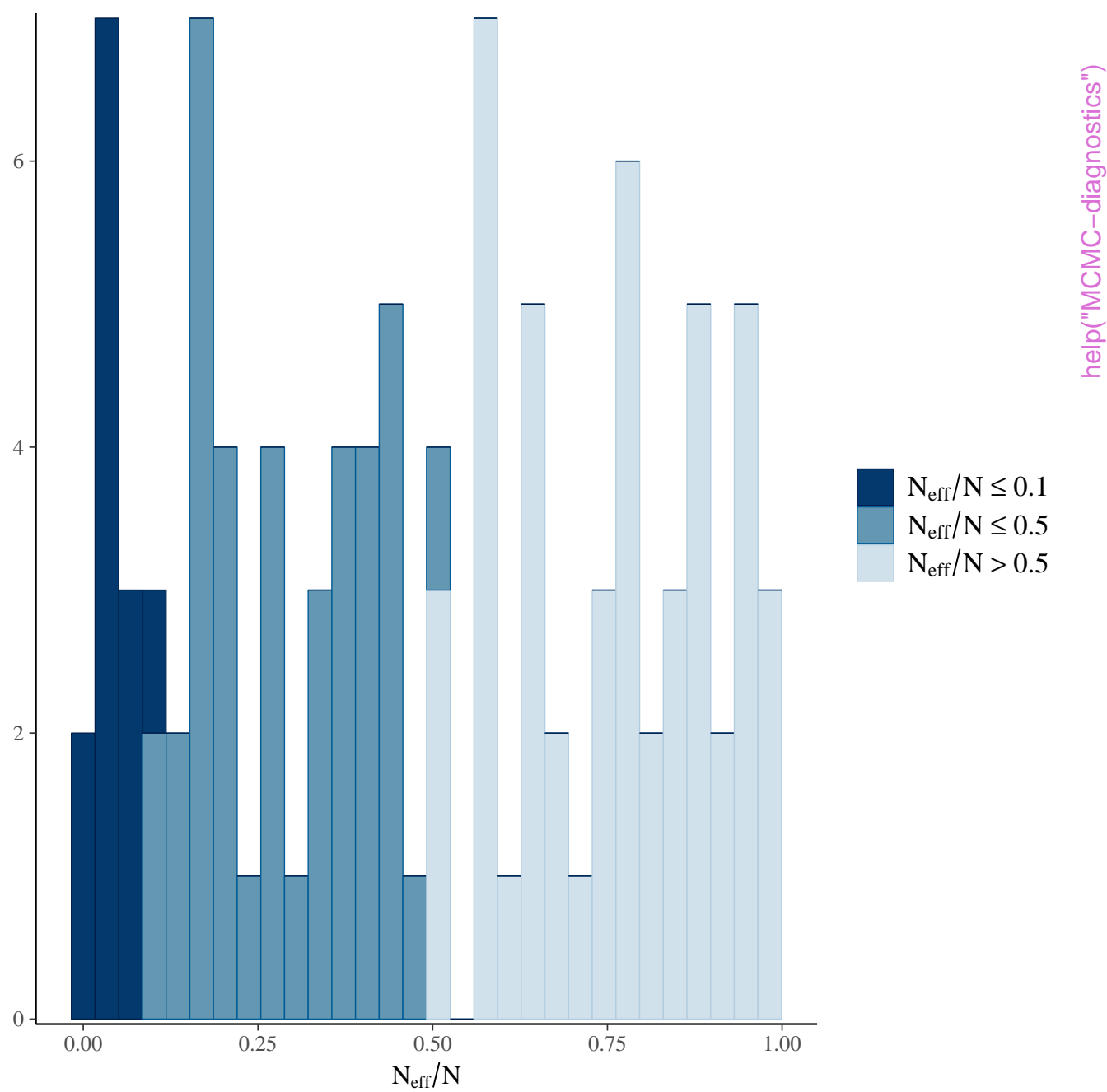


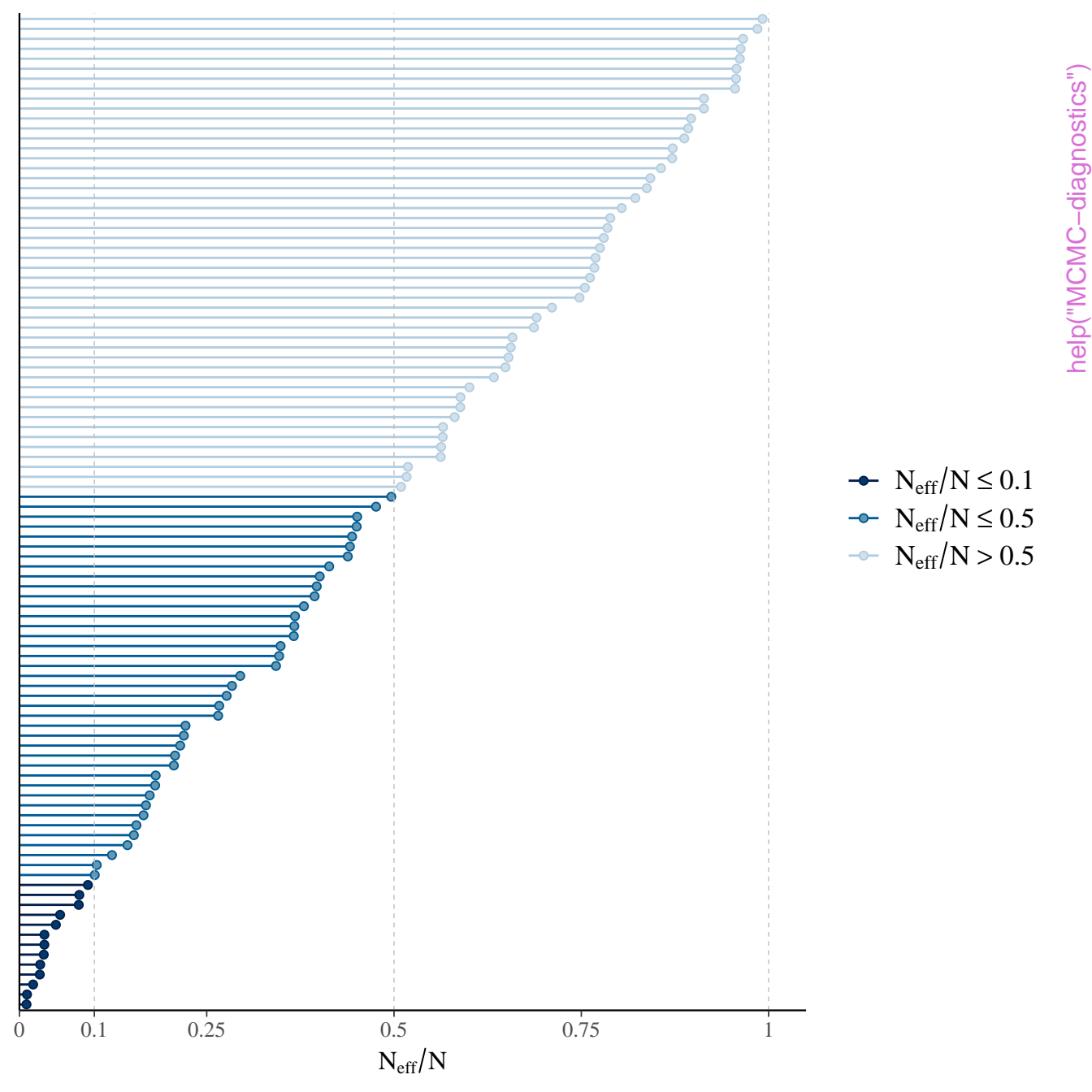
help("MCMC--diagnostics")

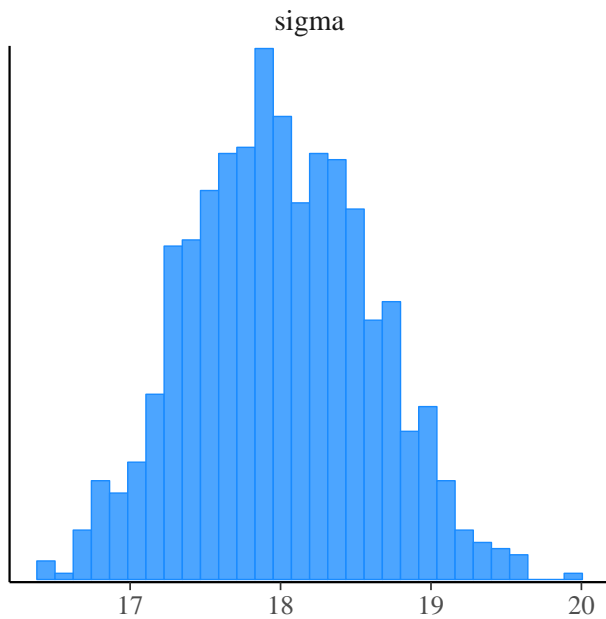
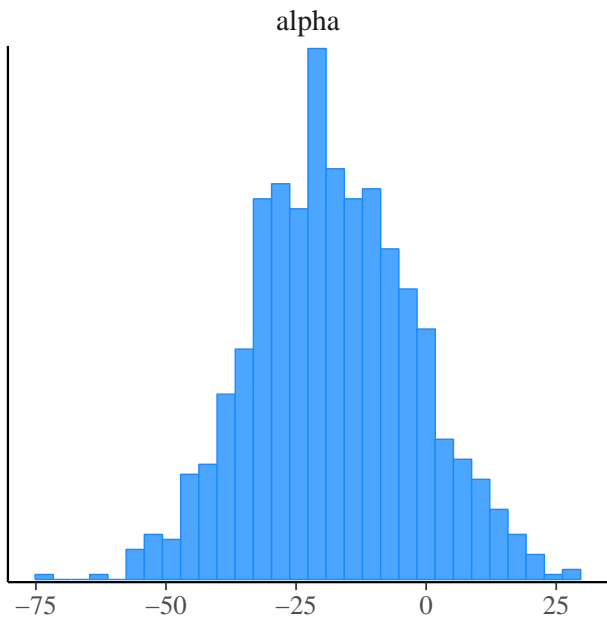
$\hat{R} \leq 1.05$ $\hat{R} \leq 1.1$ $\hat{R} > 1.1$



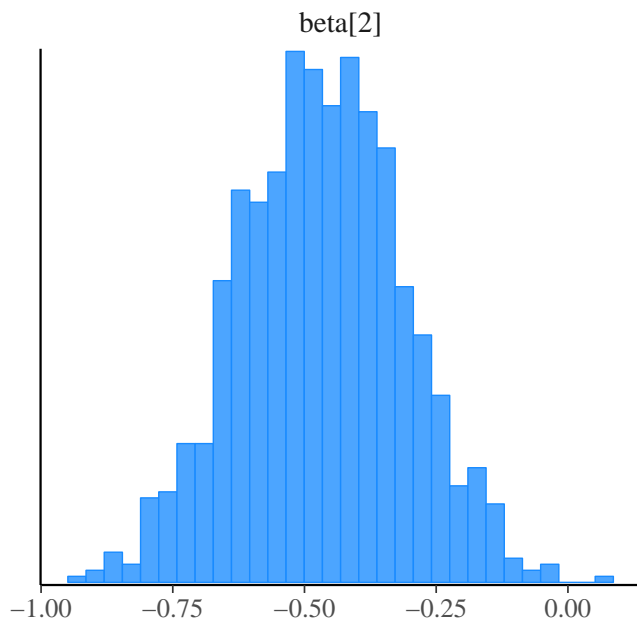
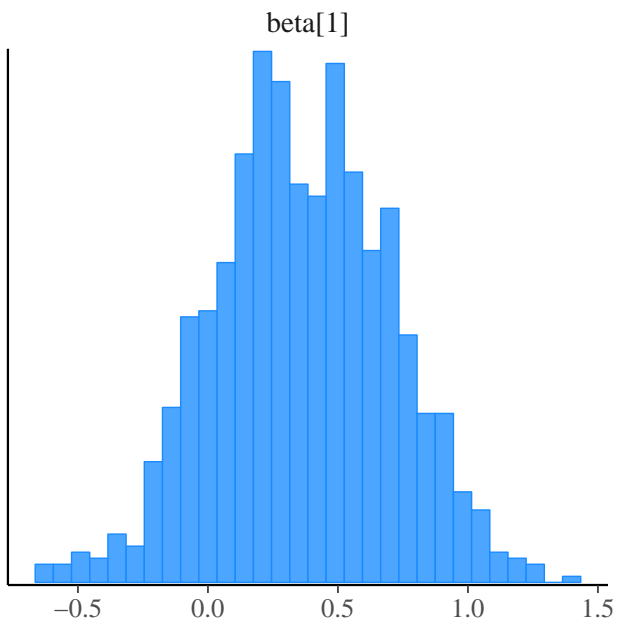
help("MCMC-diagnostics")



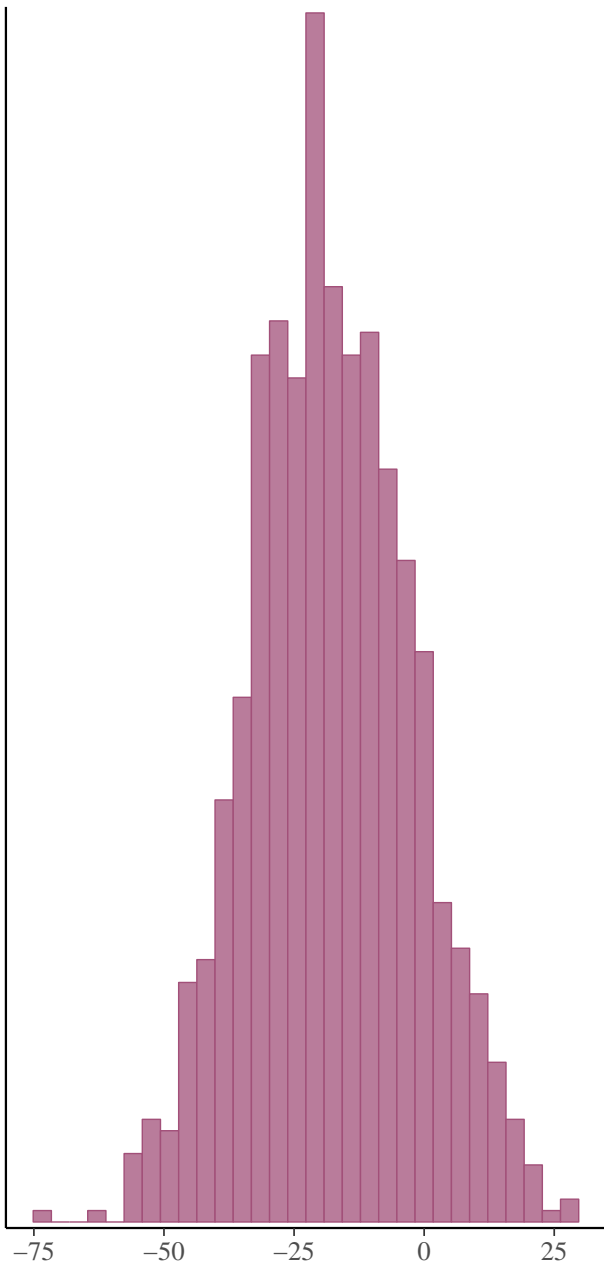




help("MCMC-distributions")



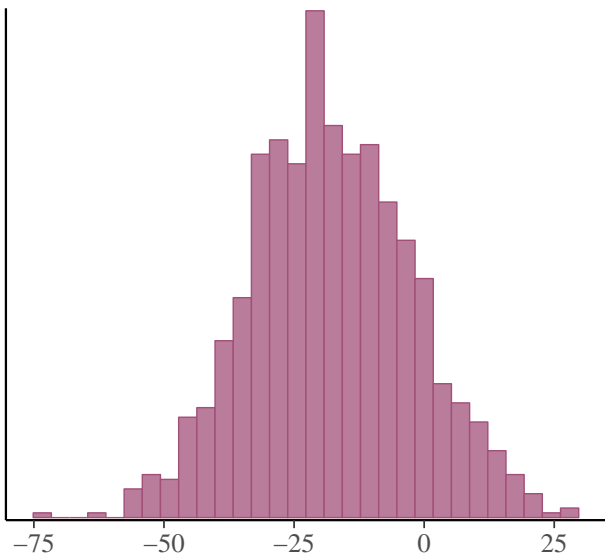
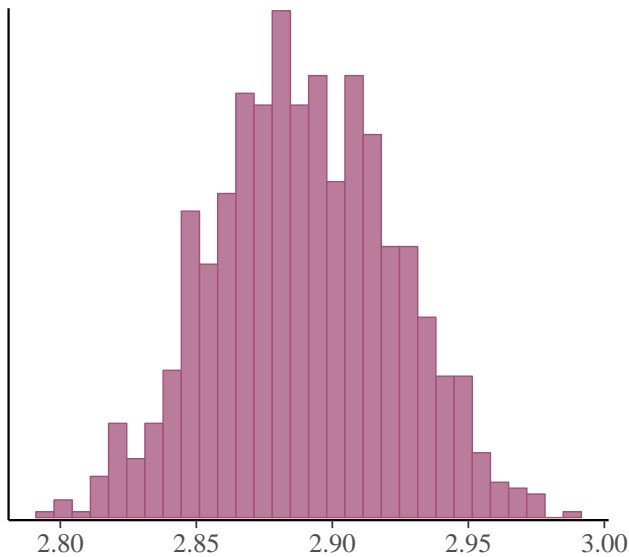
alpha



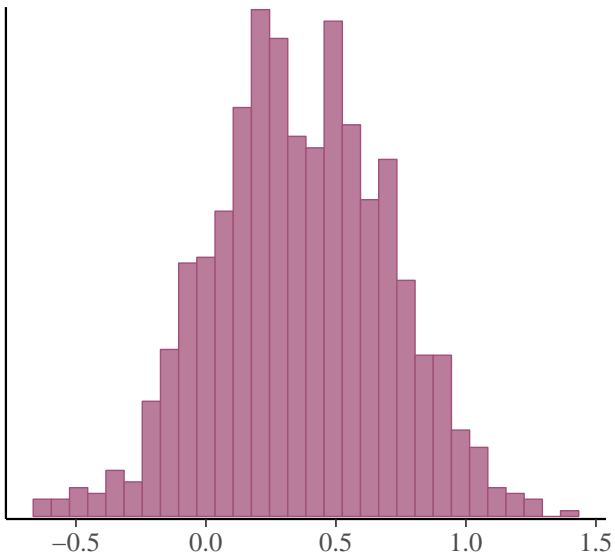
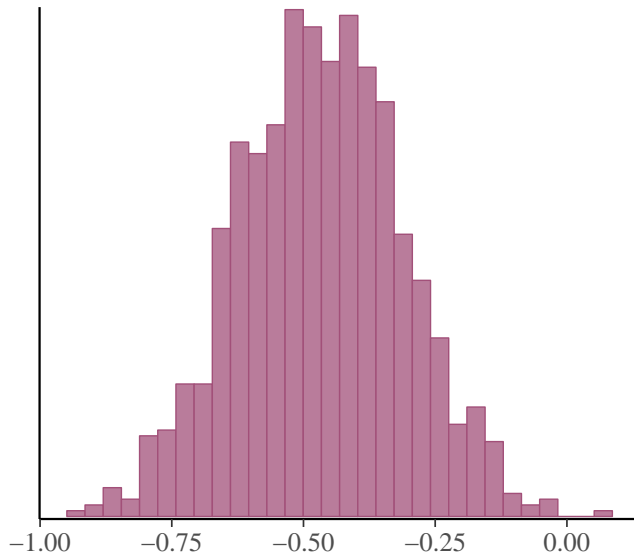
beta[2]

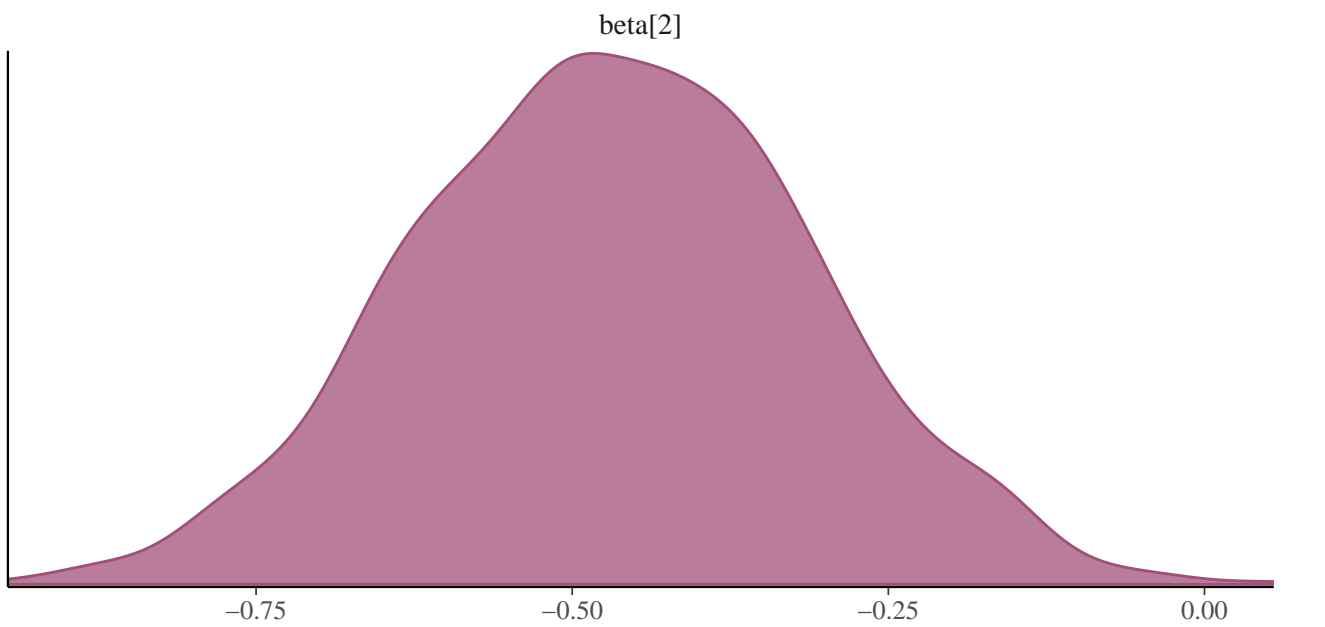
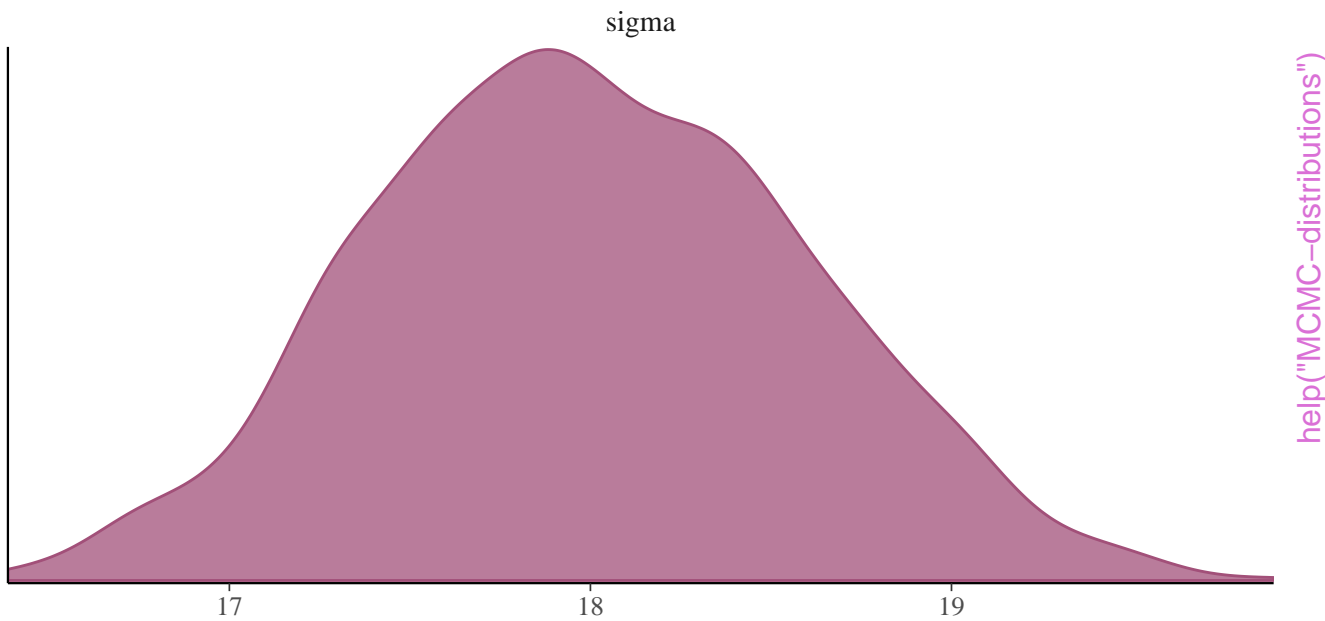


help("MCMC-distributions")

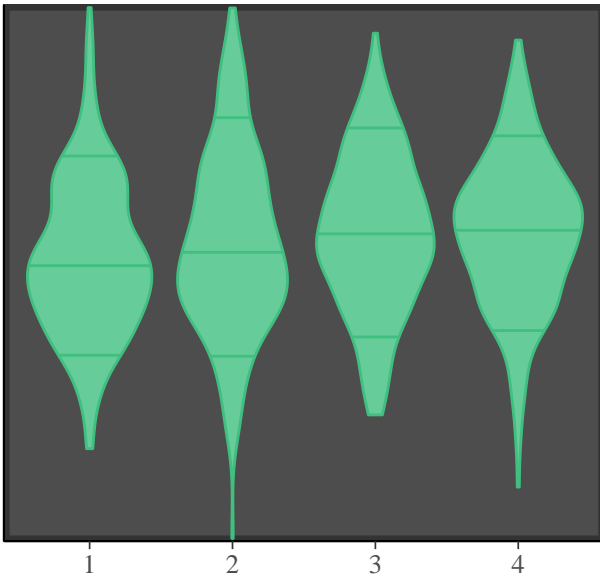
α  $\log(\sigma)$ 

help("MCMC-distributions")

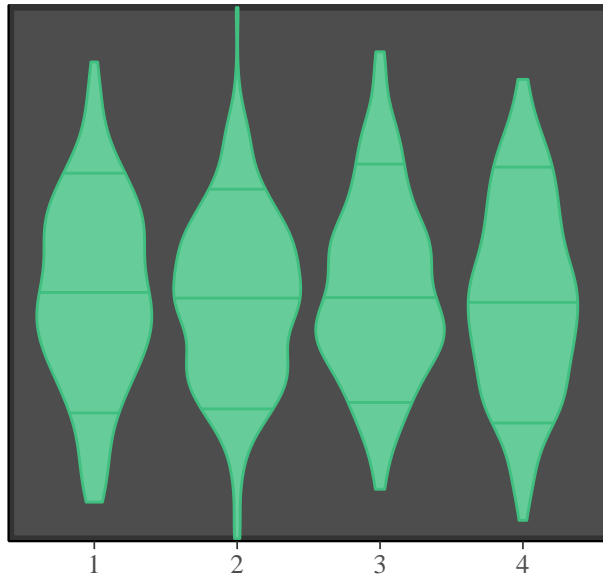
 β_1  β_2 



alpha

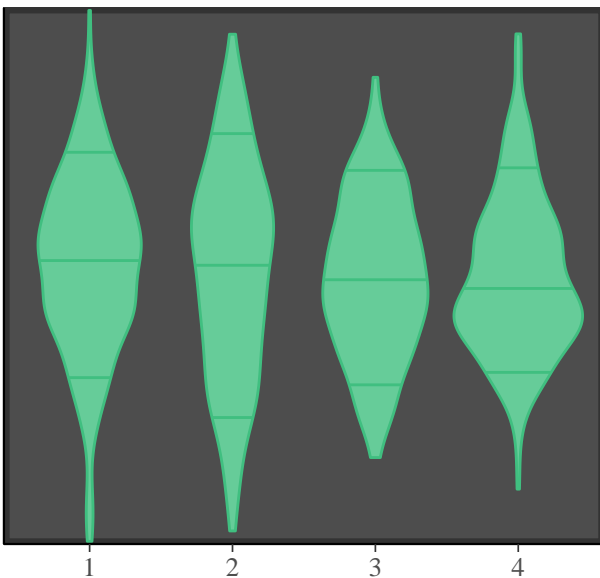


sigma

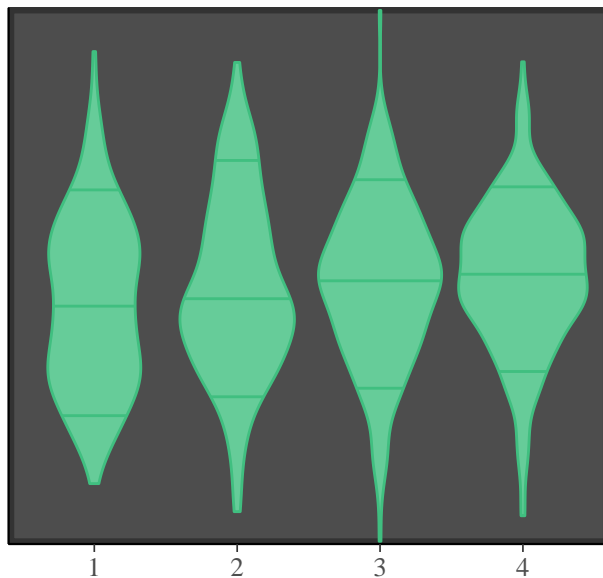


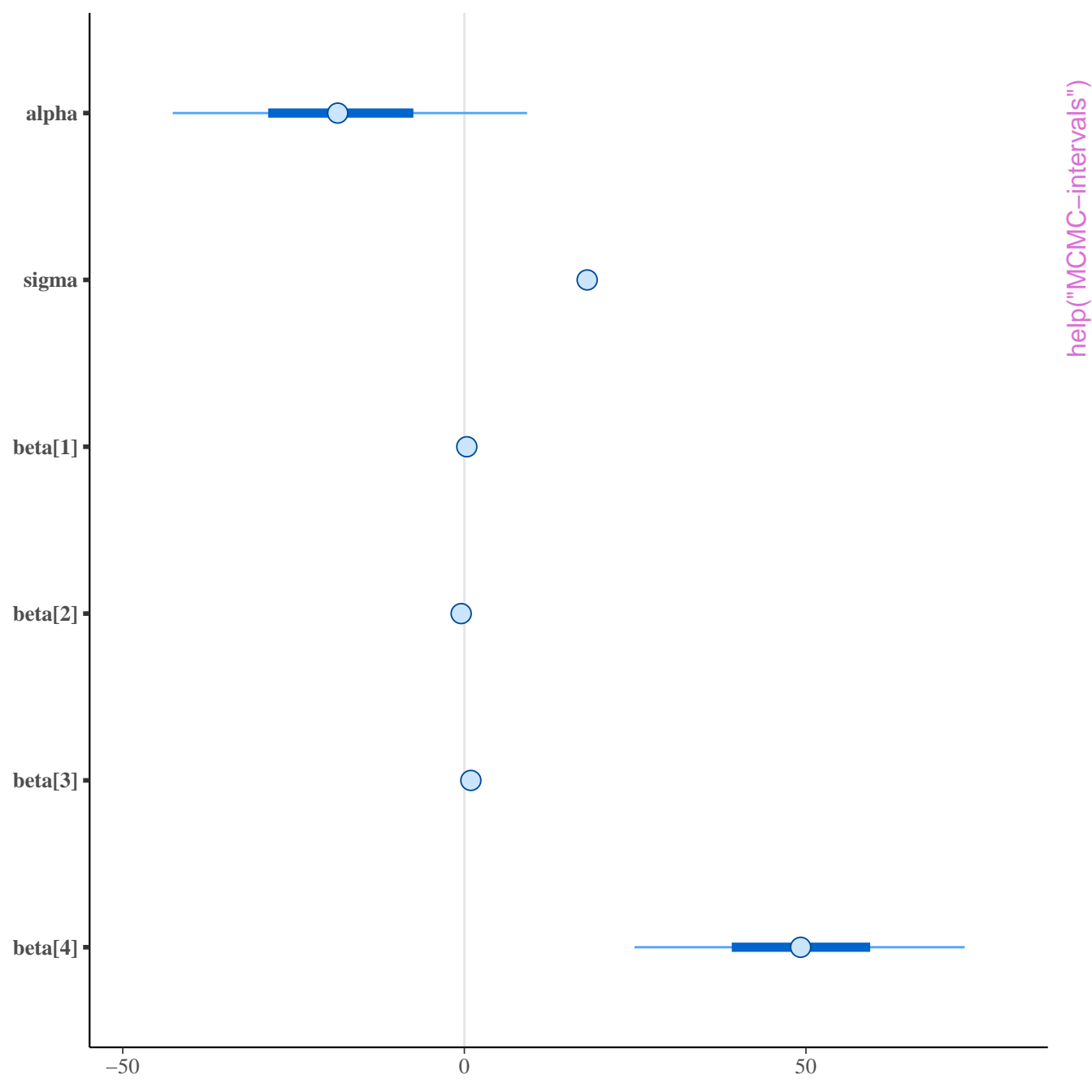
help("MCMC-distributions")

beta[1]

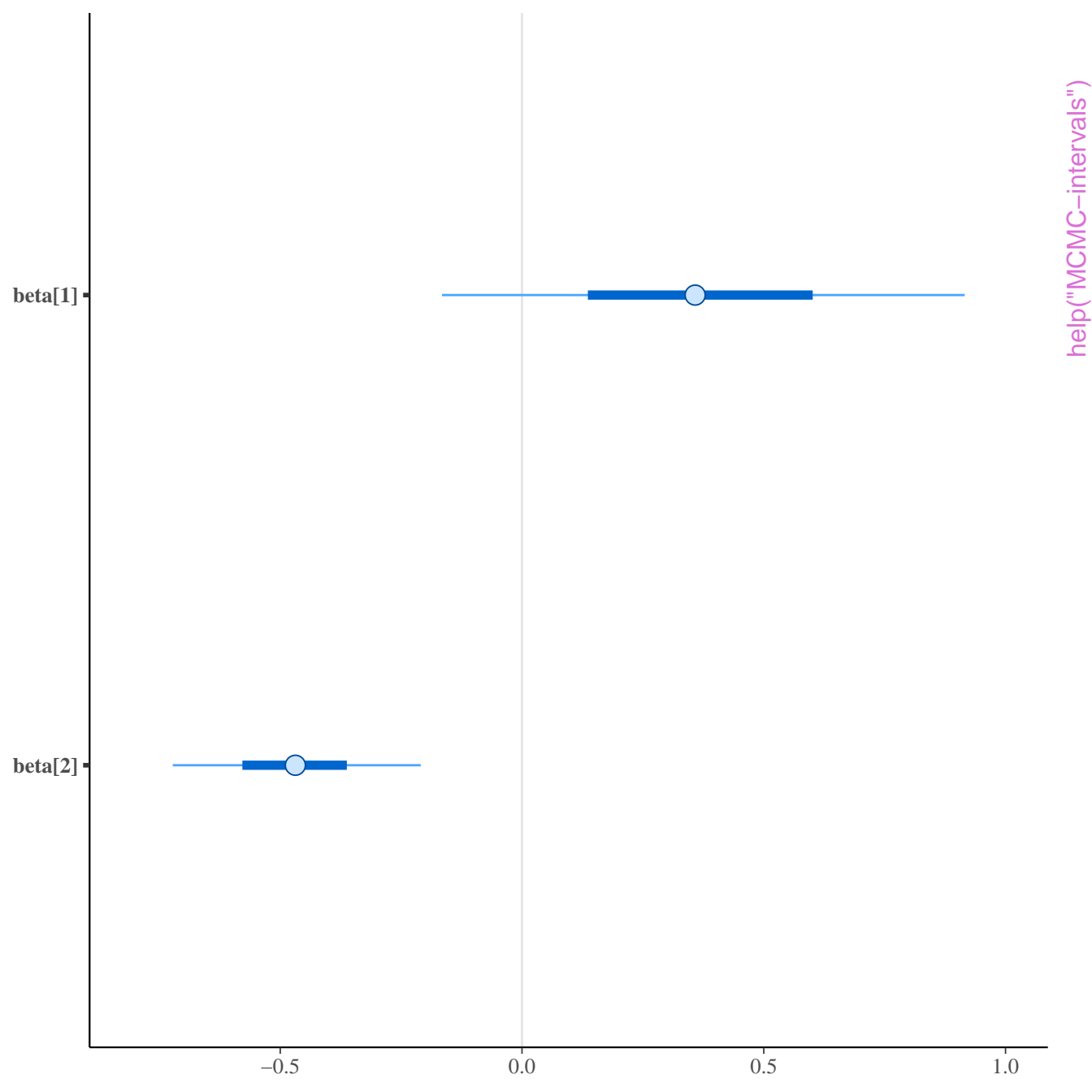


beta[2]

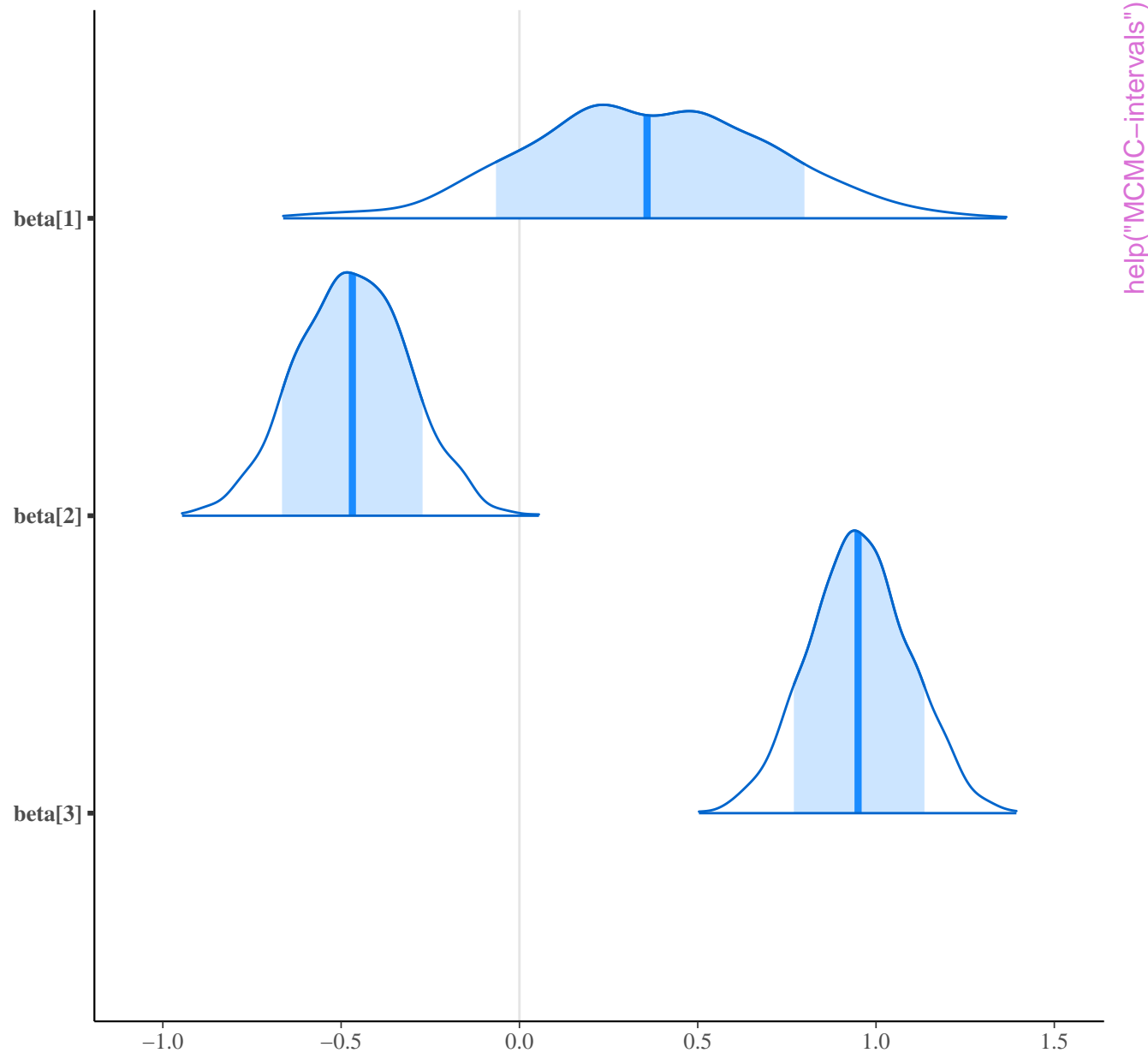




help("MCMC-intervals")



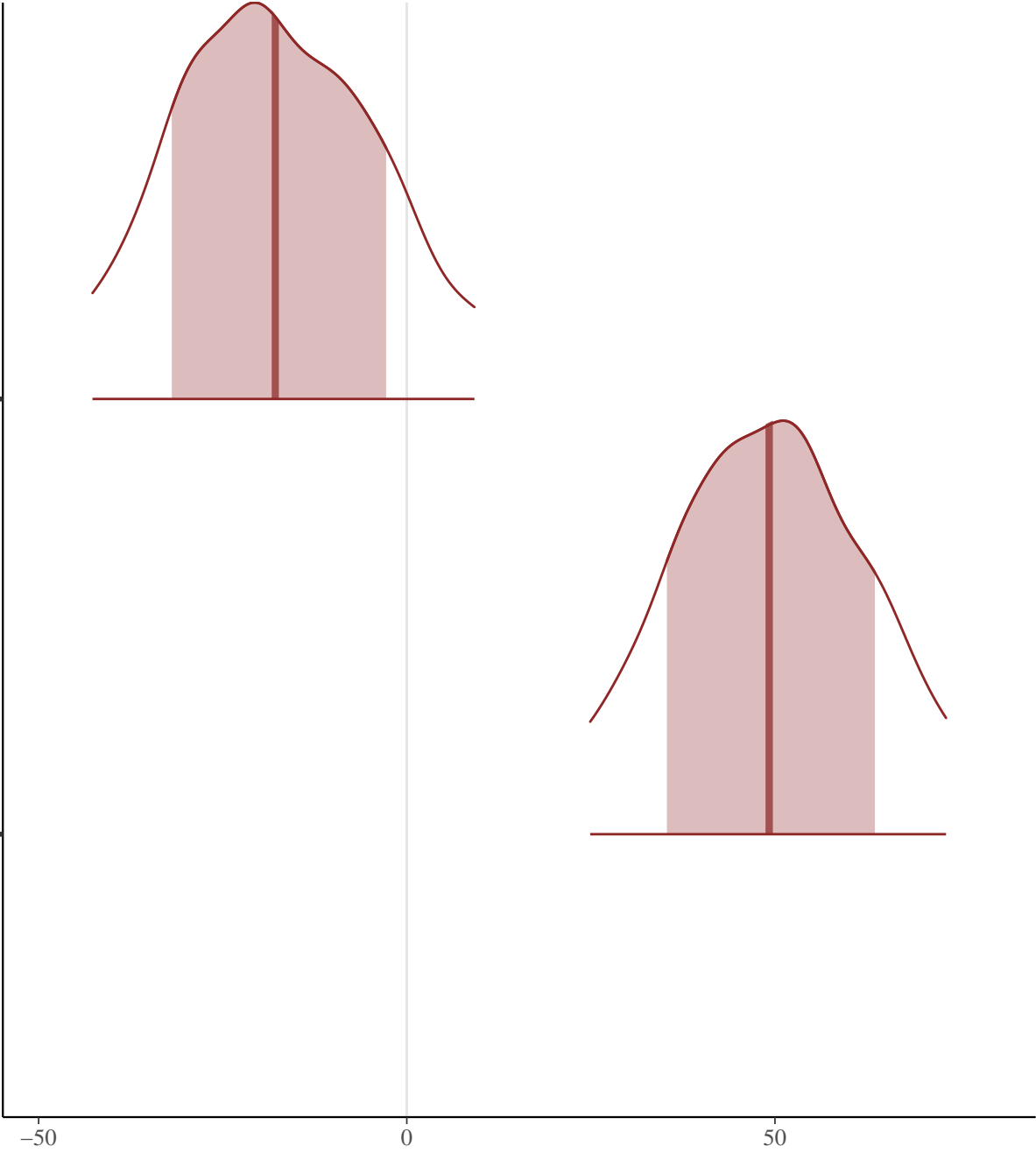
Posterior distributions
with medians and 80% intervals



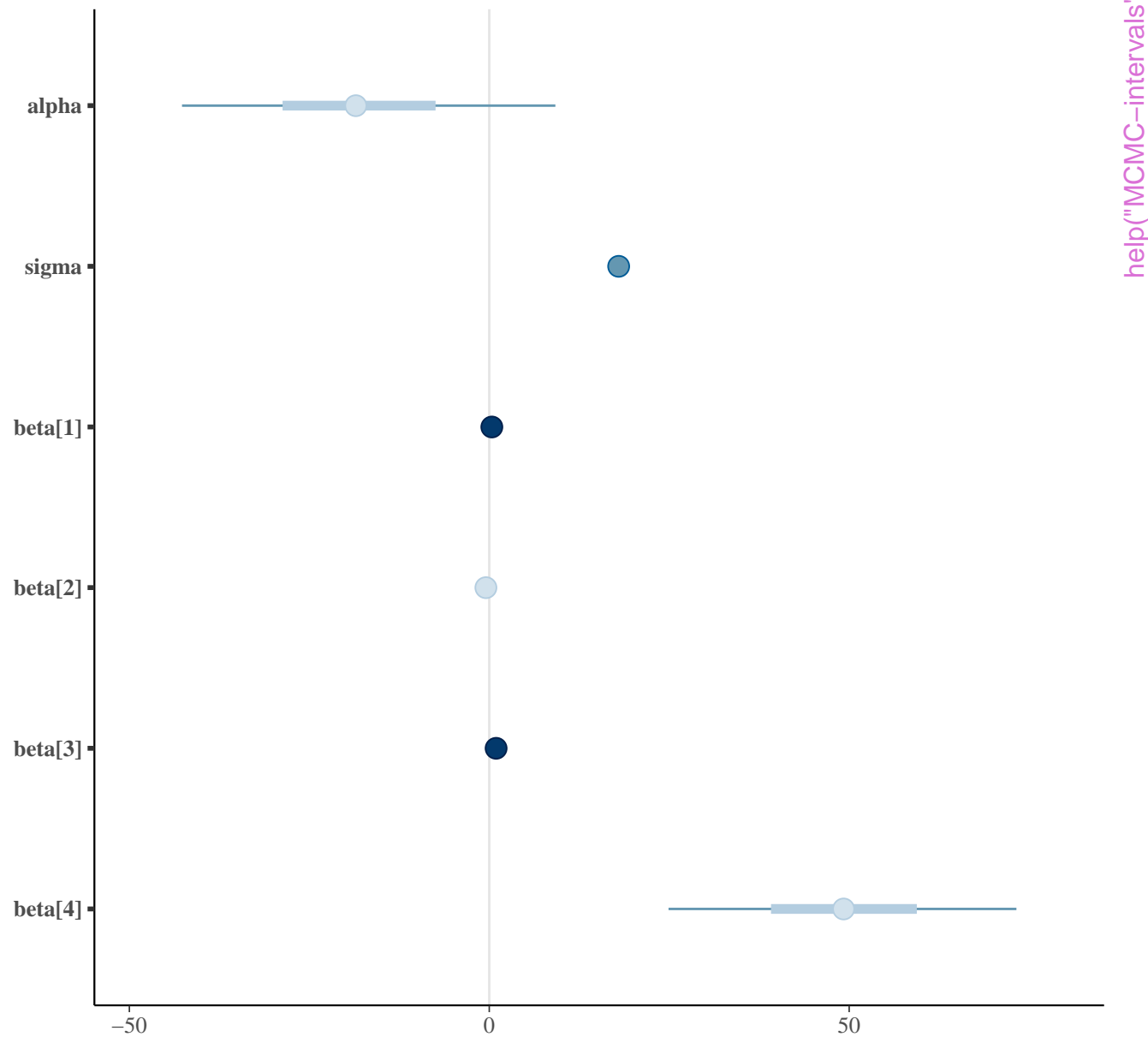
alpha

beta[4]

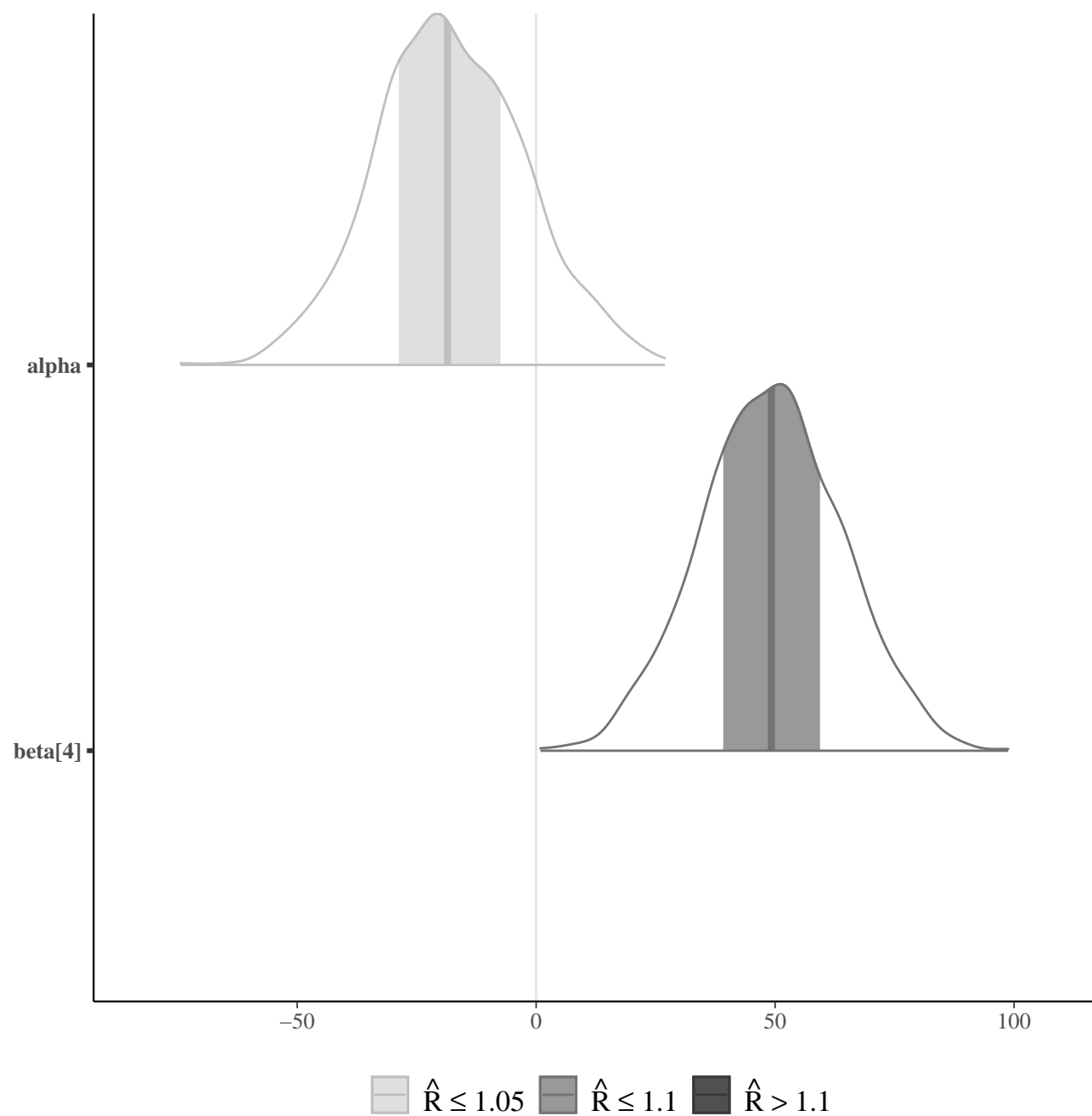
help("MCMC-intervals")



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

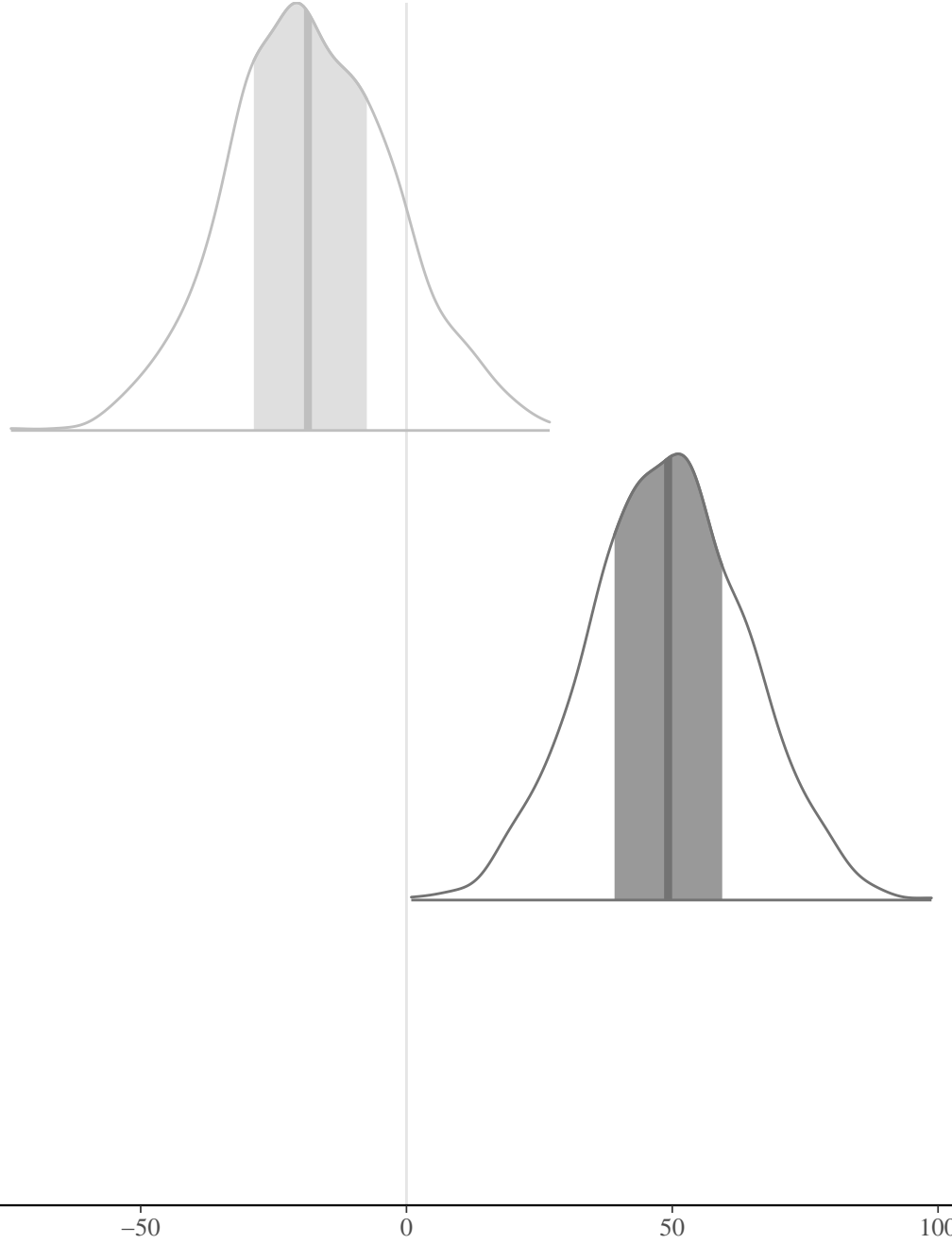


help("MCMC-intervals")

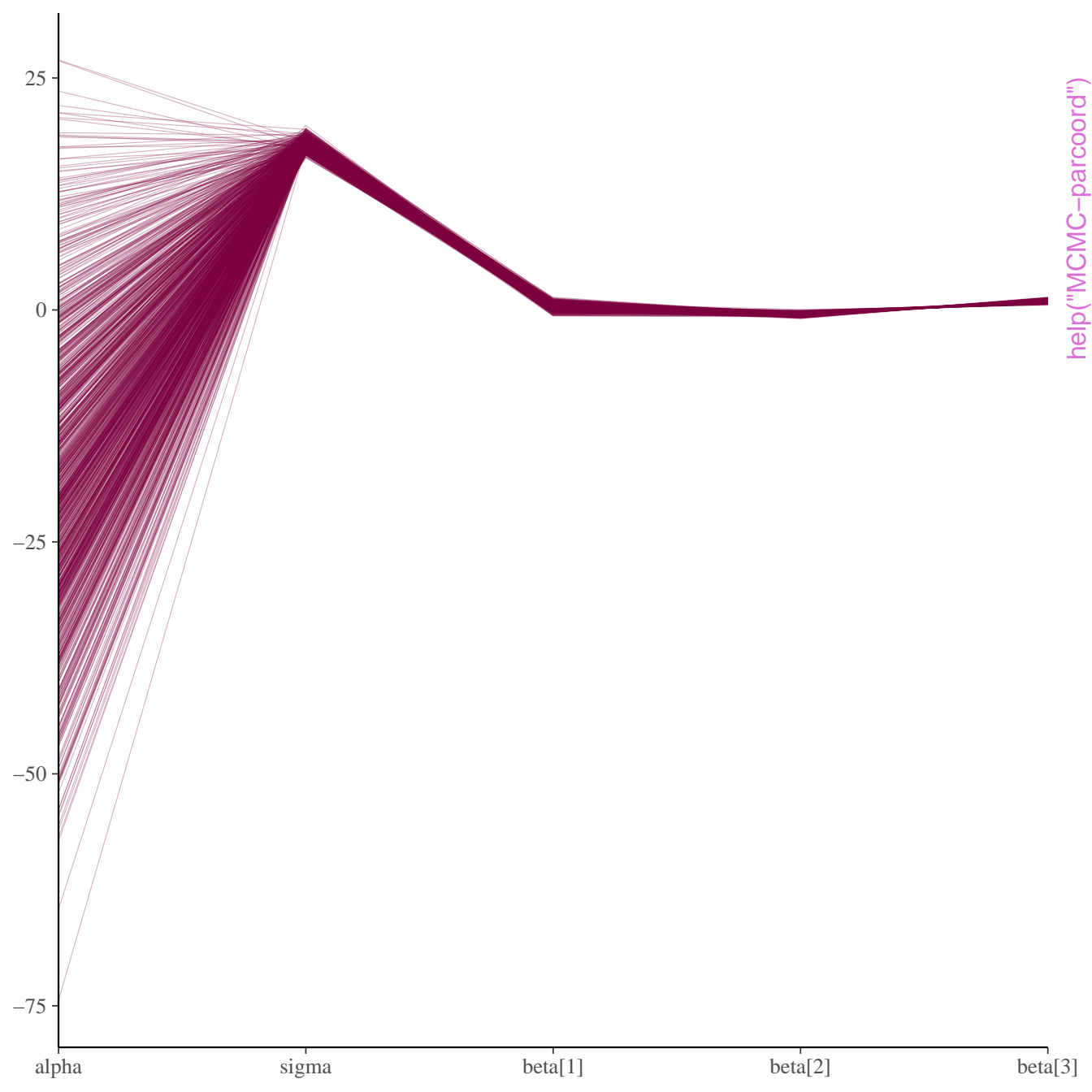


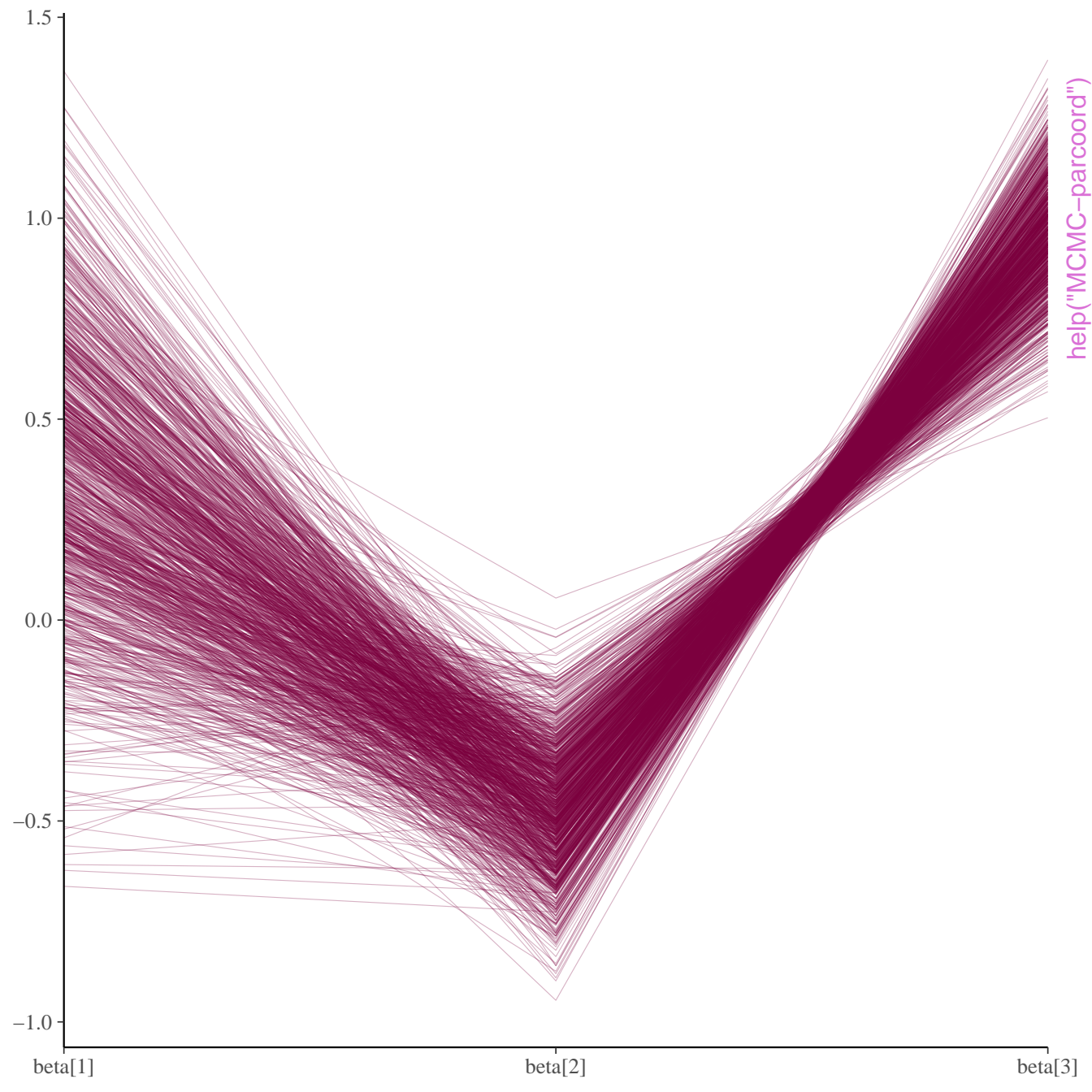
alpha

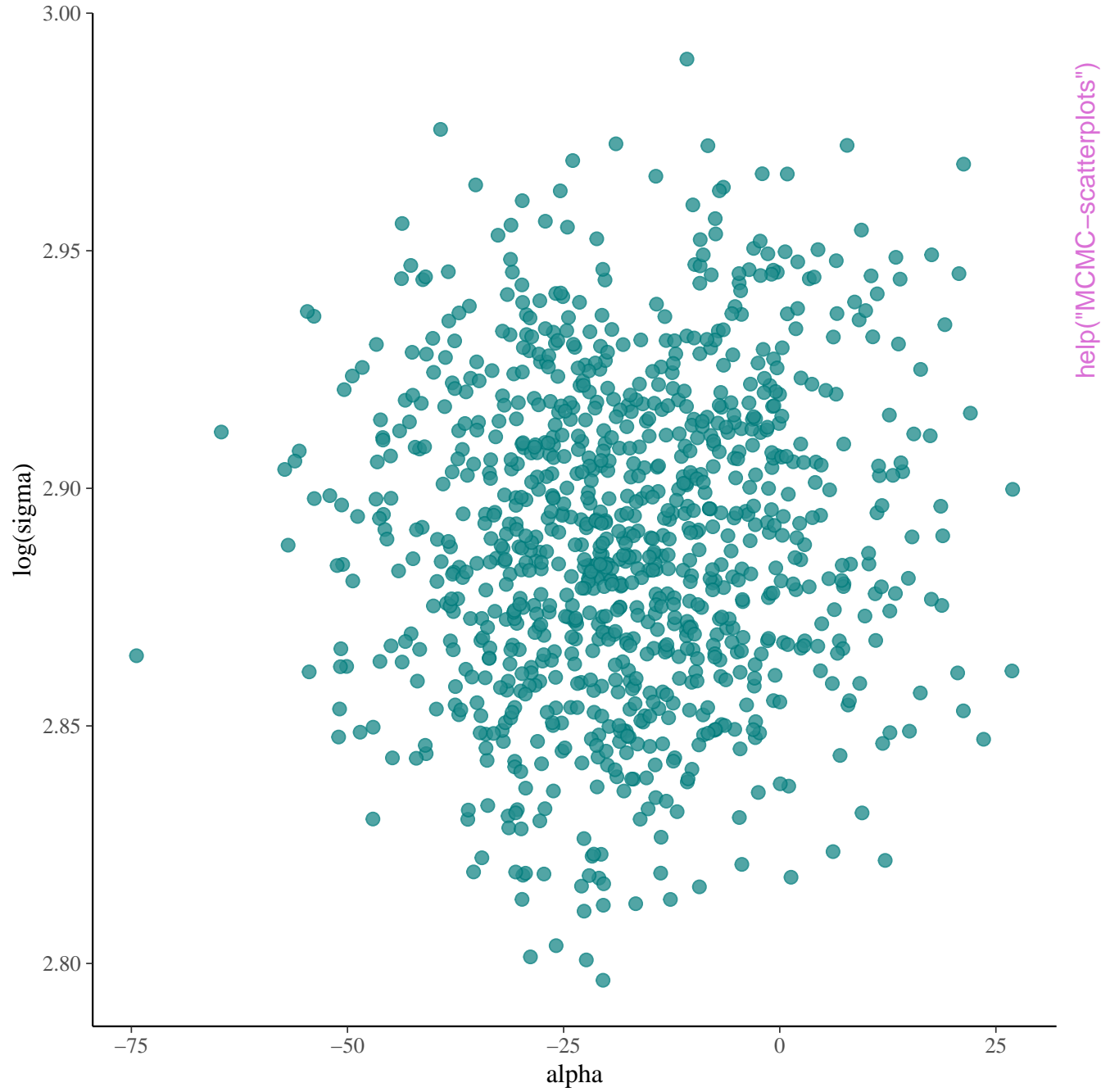
beta[4]



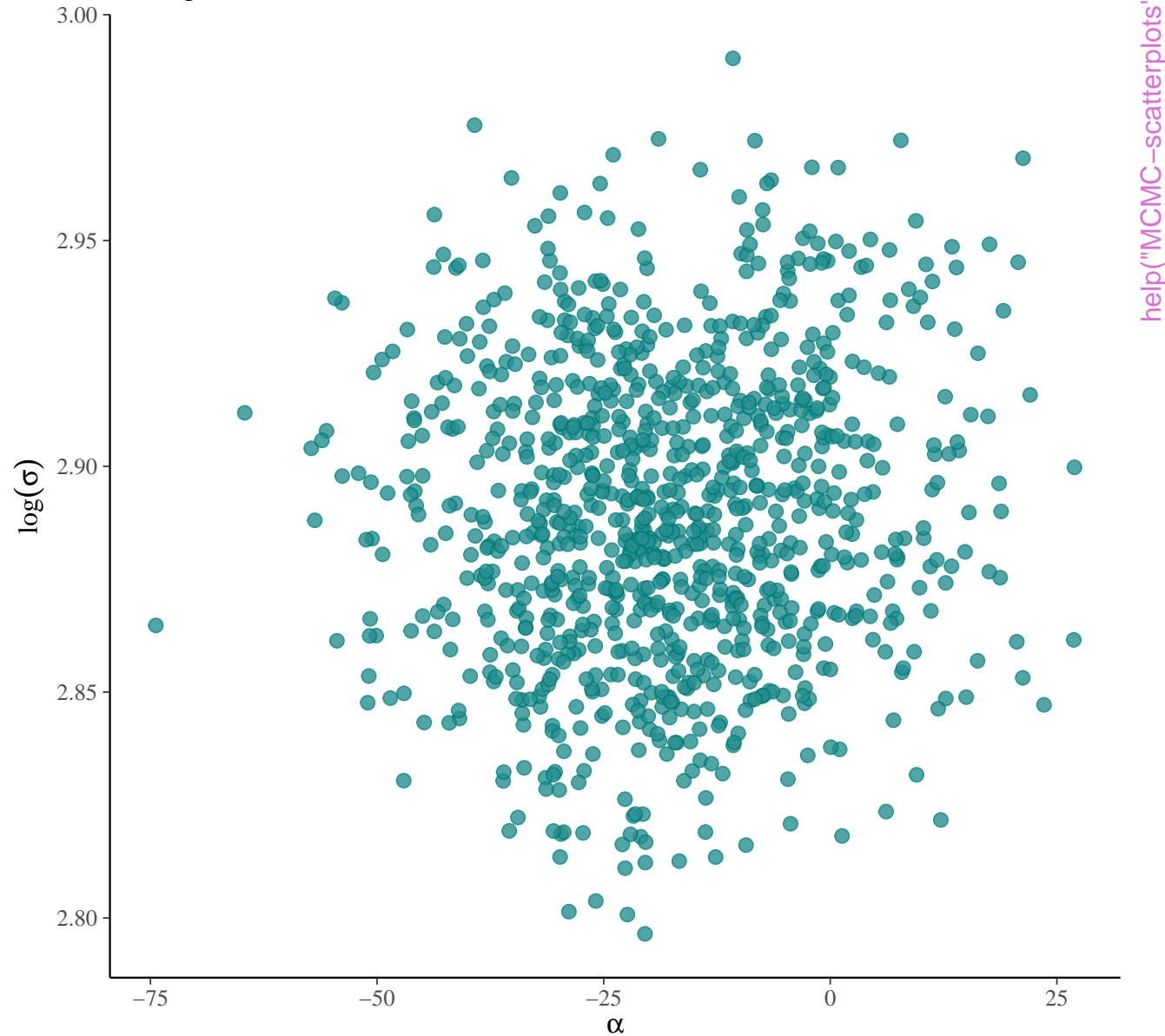
help("MCMC-intervals")

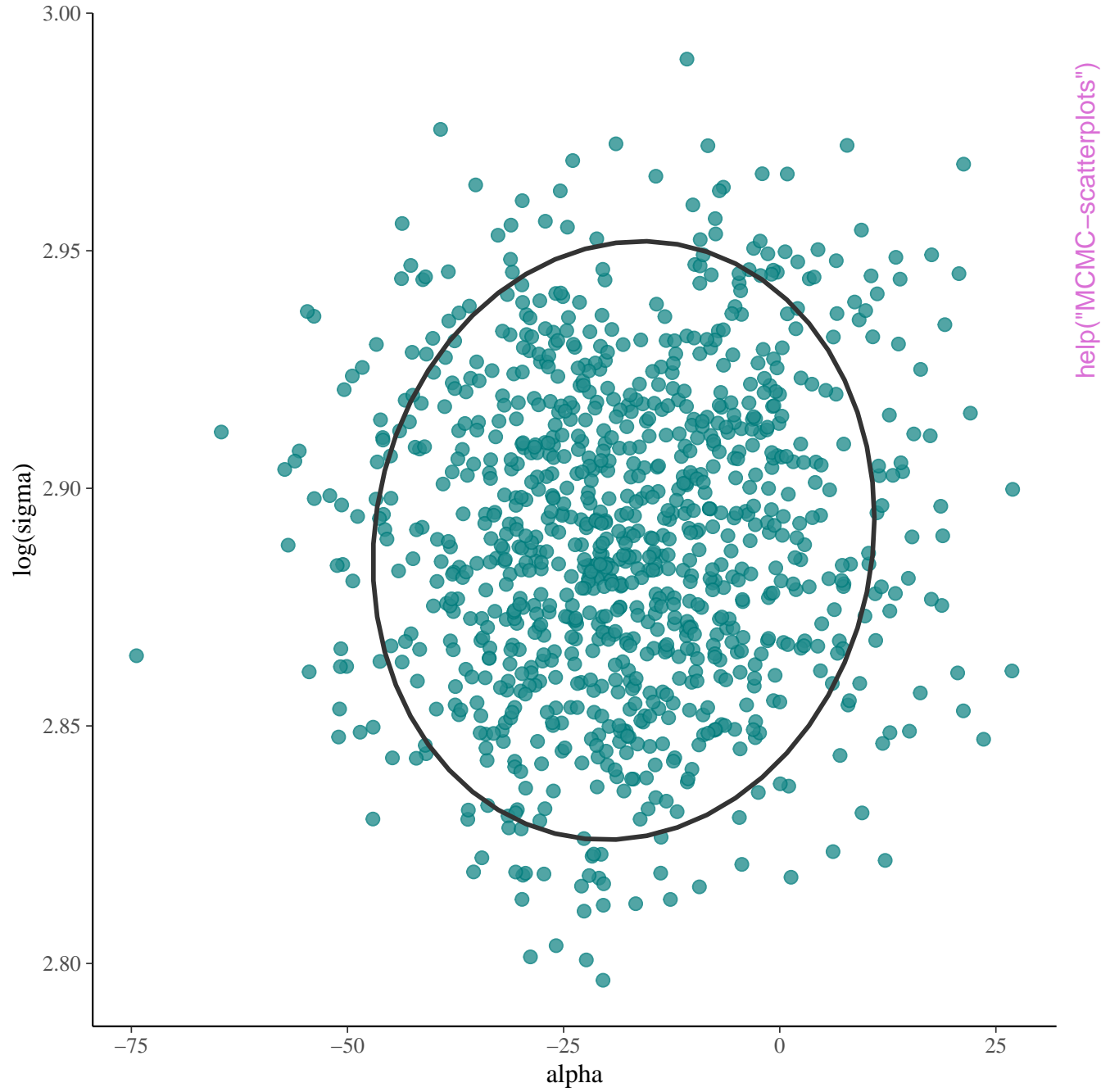


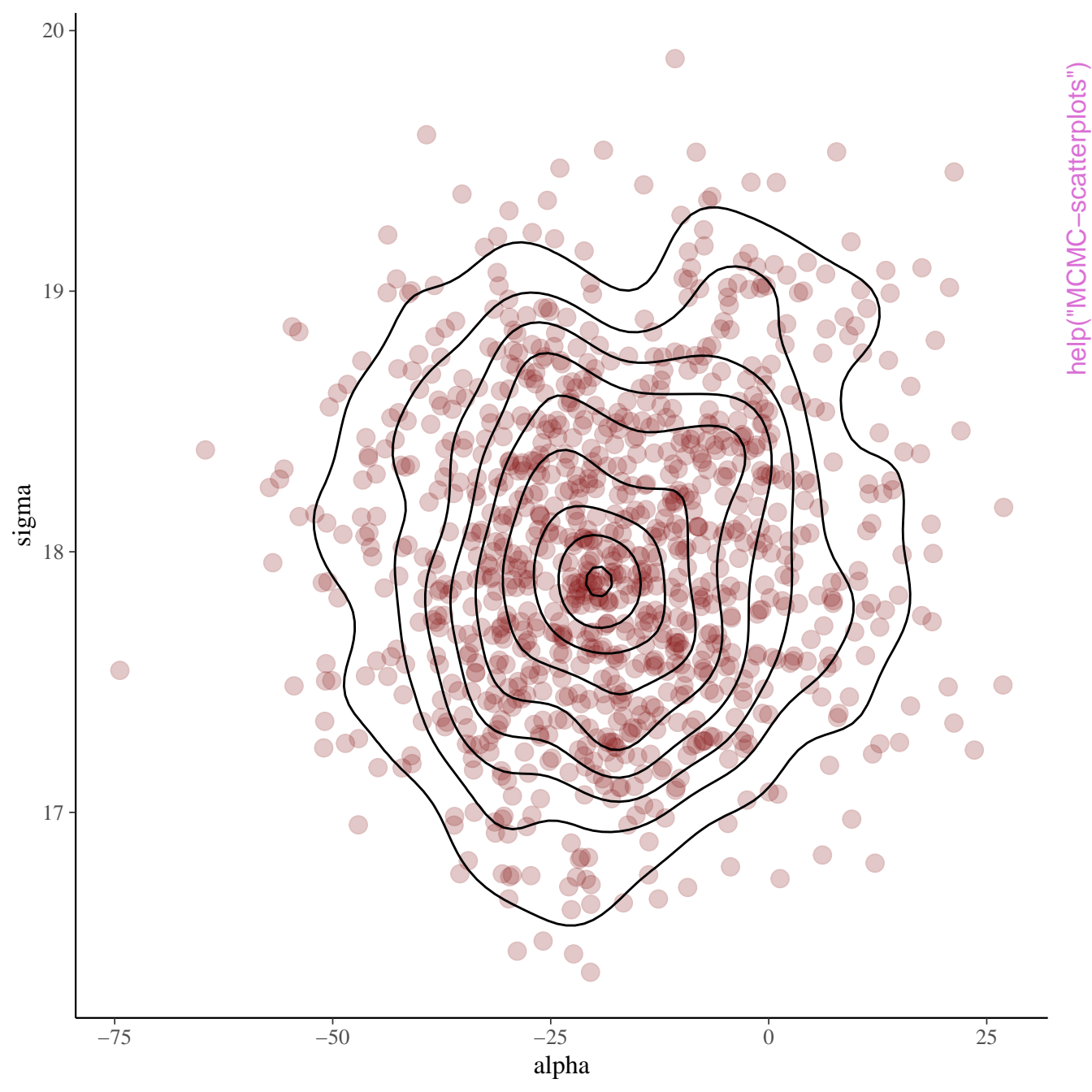


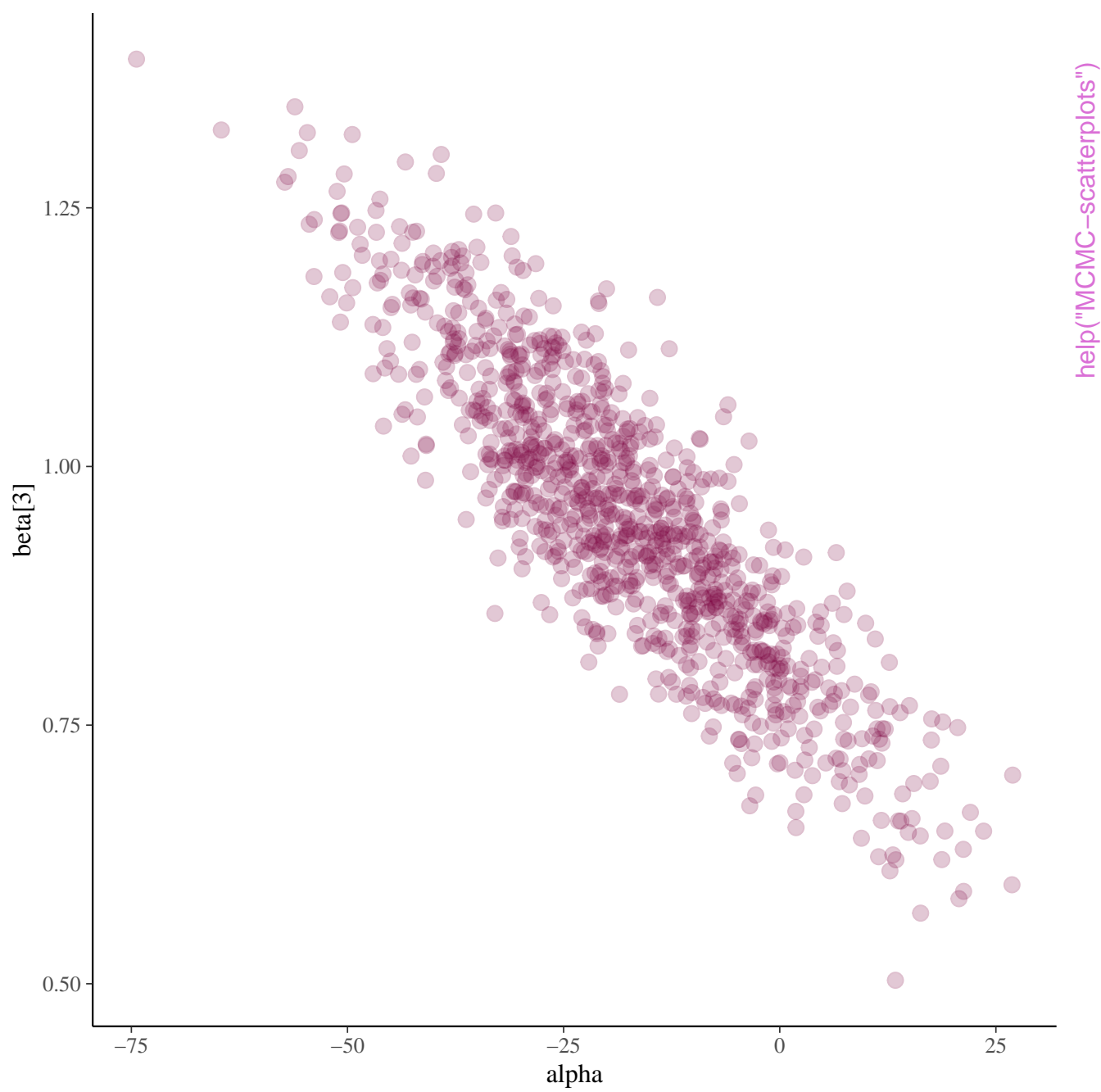


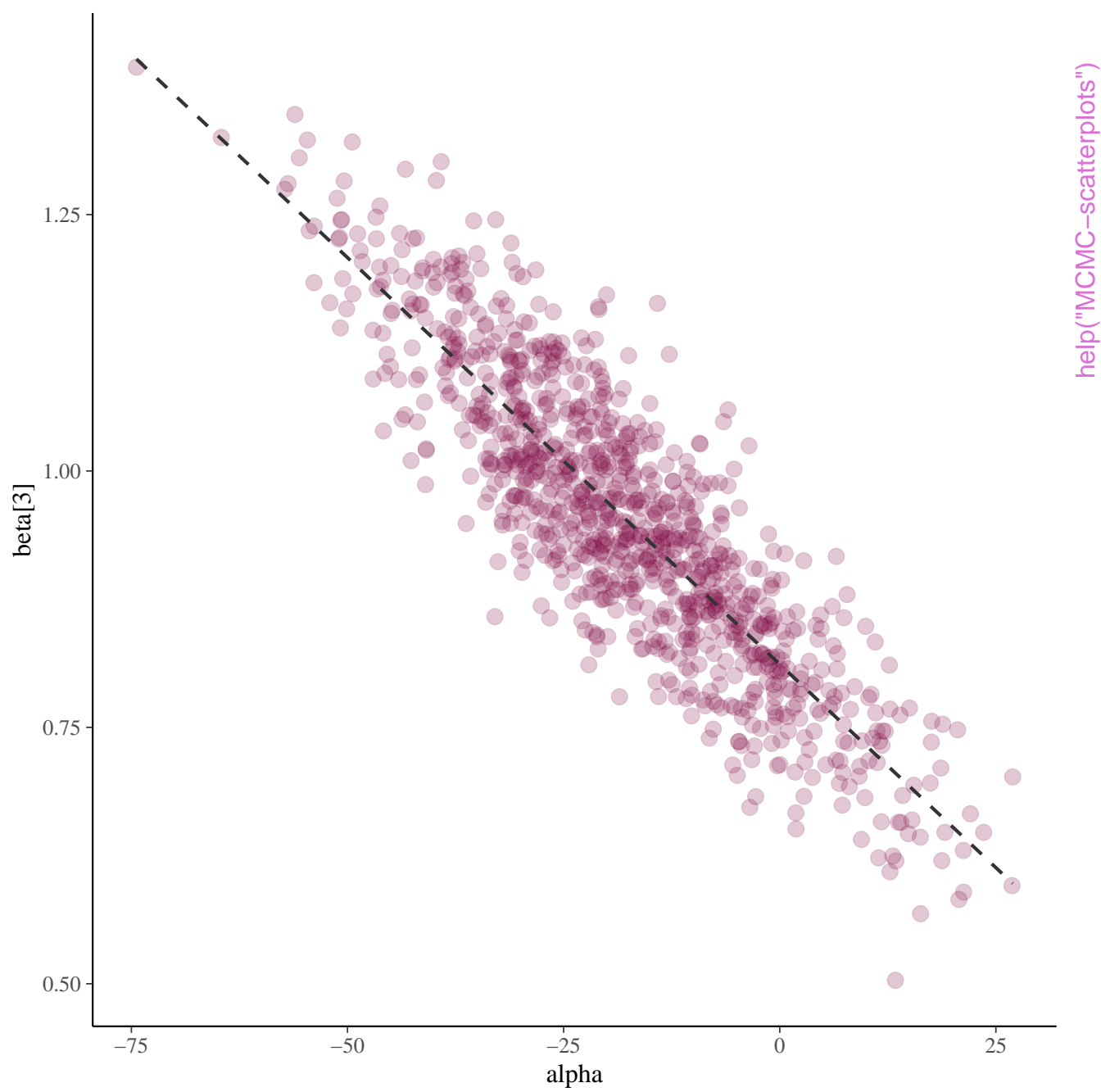
Insert your own headline—grabbing title
with a provocative subtitle



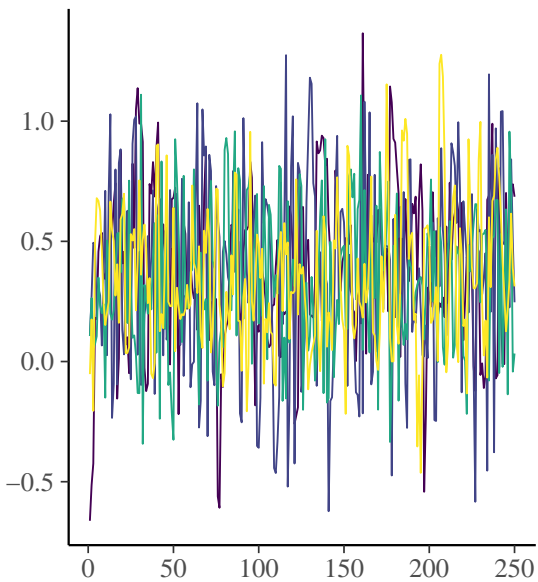




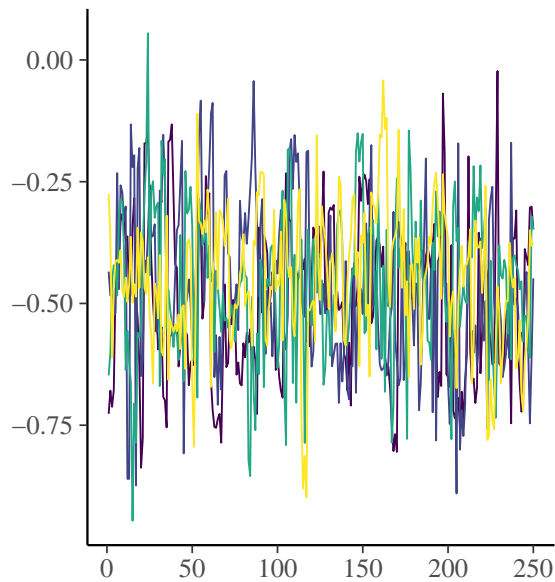




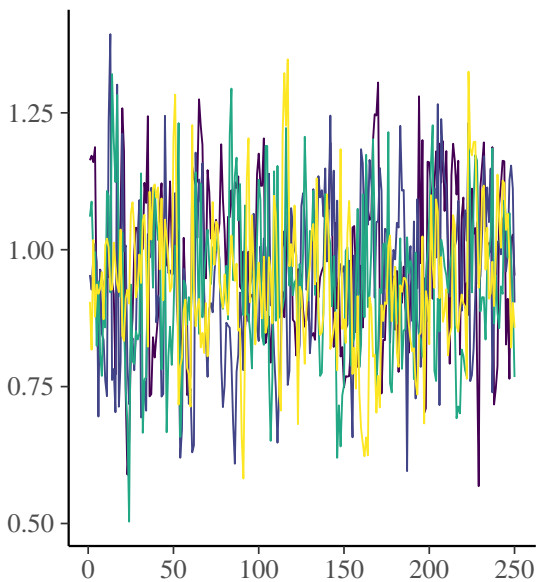
beta[1]



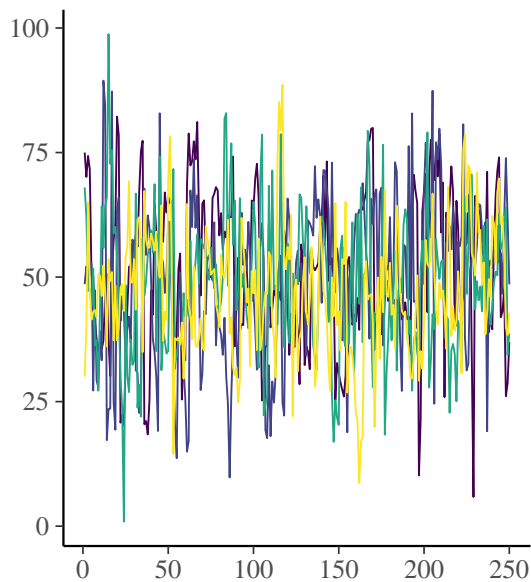
beta[2]



beta[3]



beta[4]

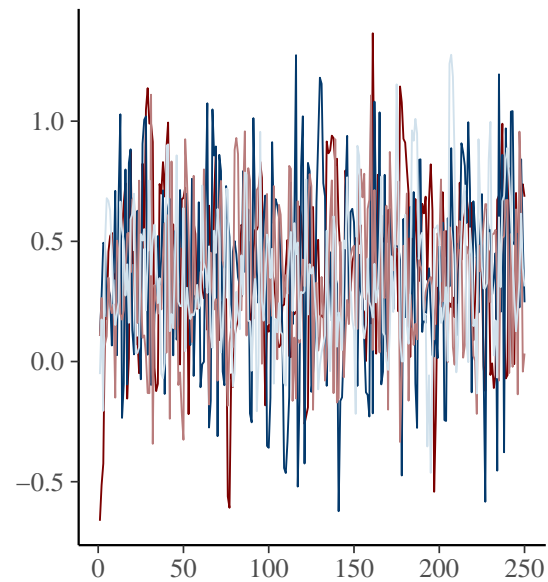


Chain

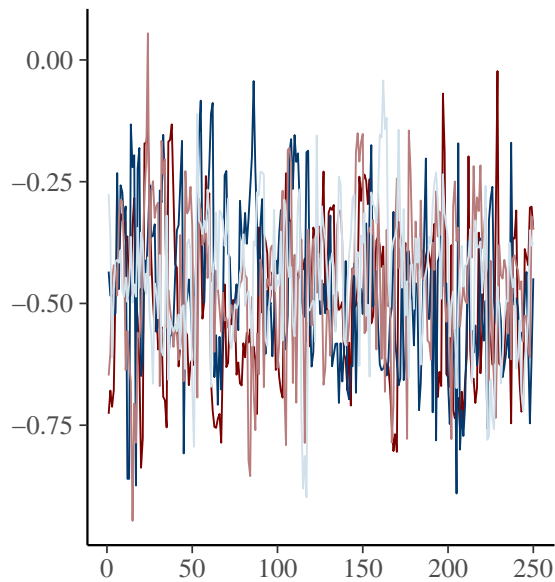
- 1
- 2
- 3
- 4

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

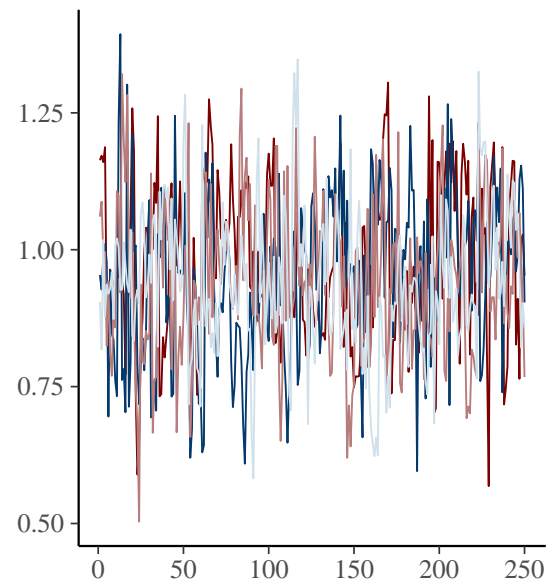

beta[1]



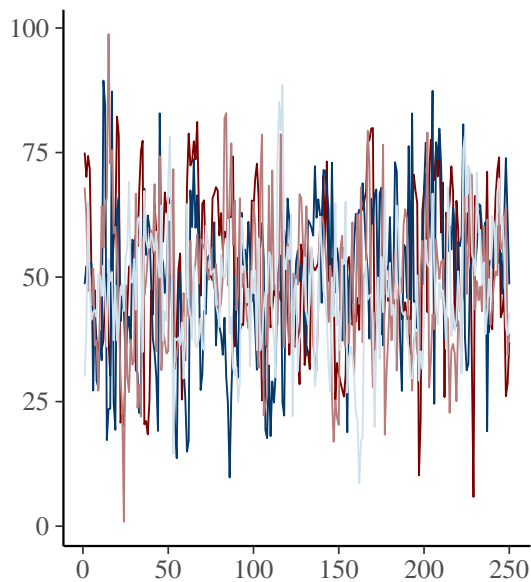
beta[2]



beta[3]



beta[4]

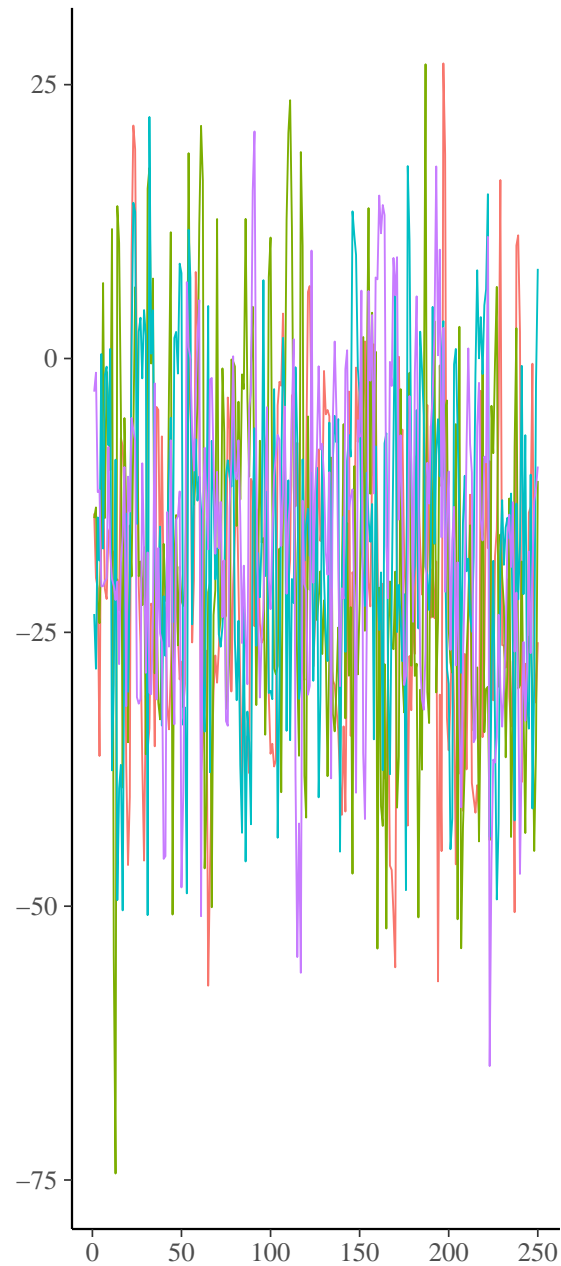


Chain

- 1
- 2
- 3
- 4

help("MCMC-traces")

alpha



sigma



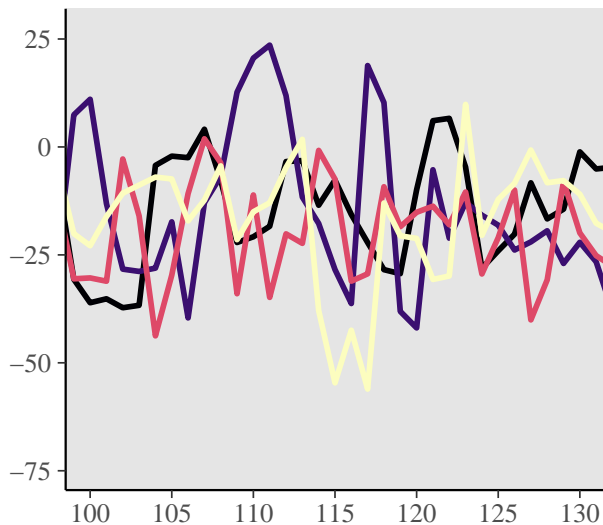
Chain

- 1
- 2
- 3
- 4

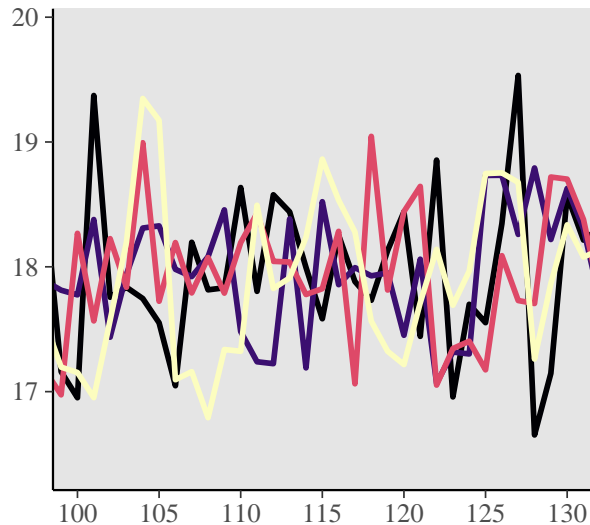
help("MCMC-traces")

Chain — 1 — 2 — 3 — 4

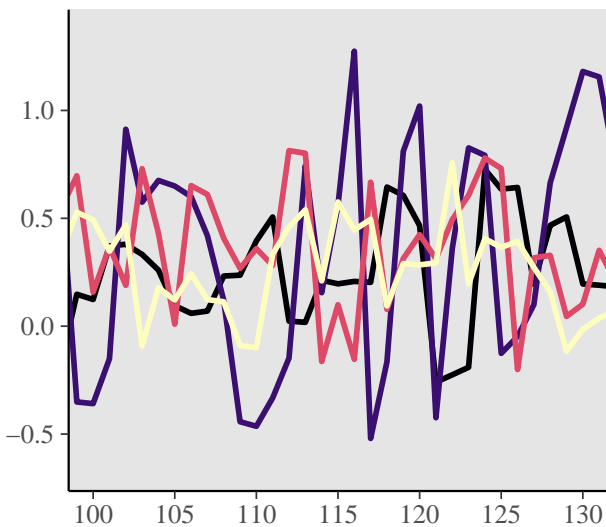
alpha



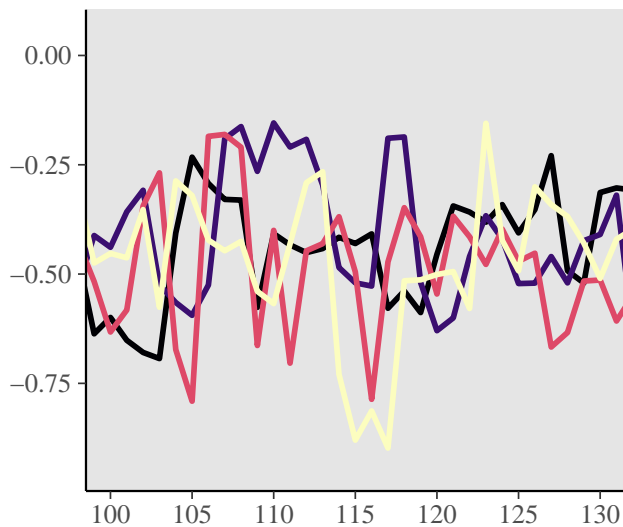
sigma



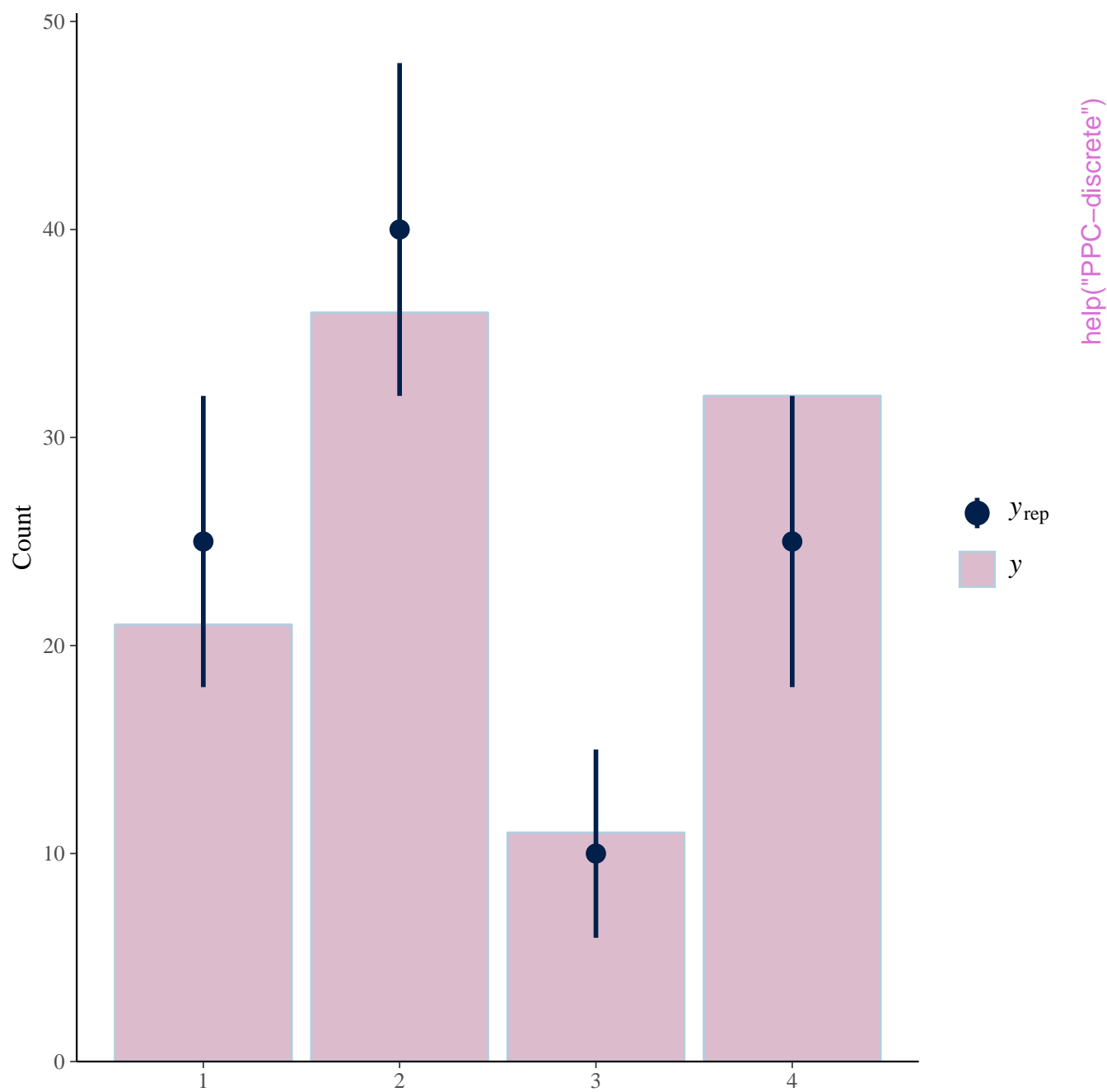
beta[1]



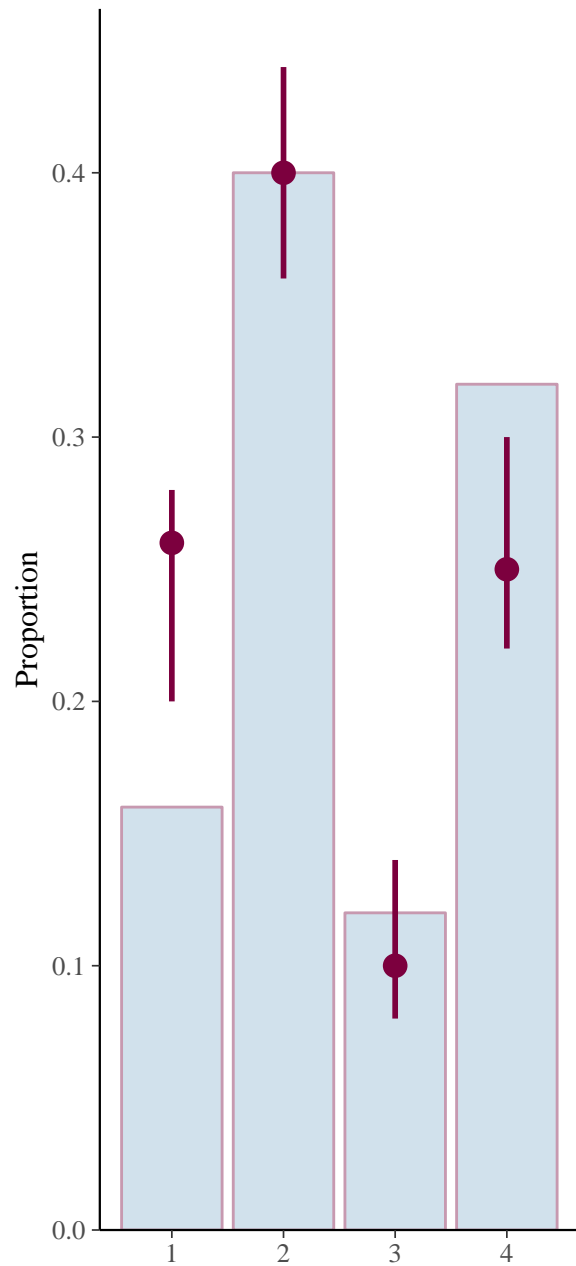
beta[2]



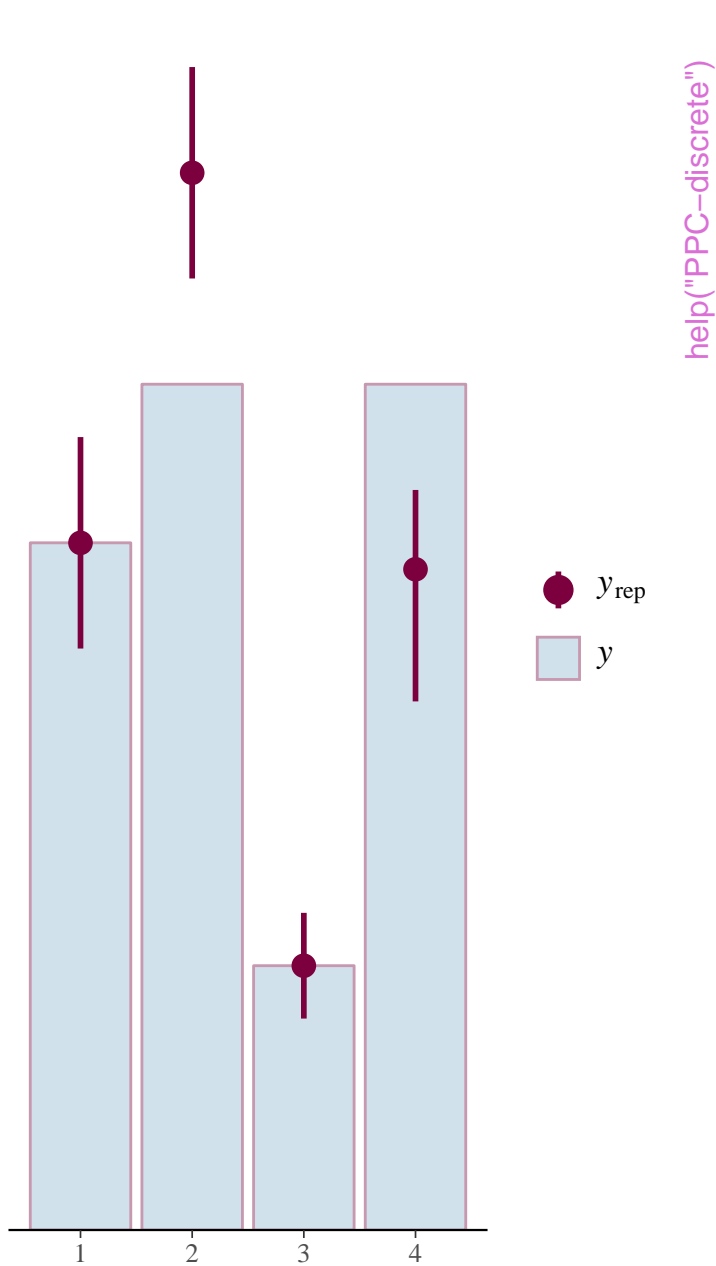
help("MCMC-traces")

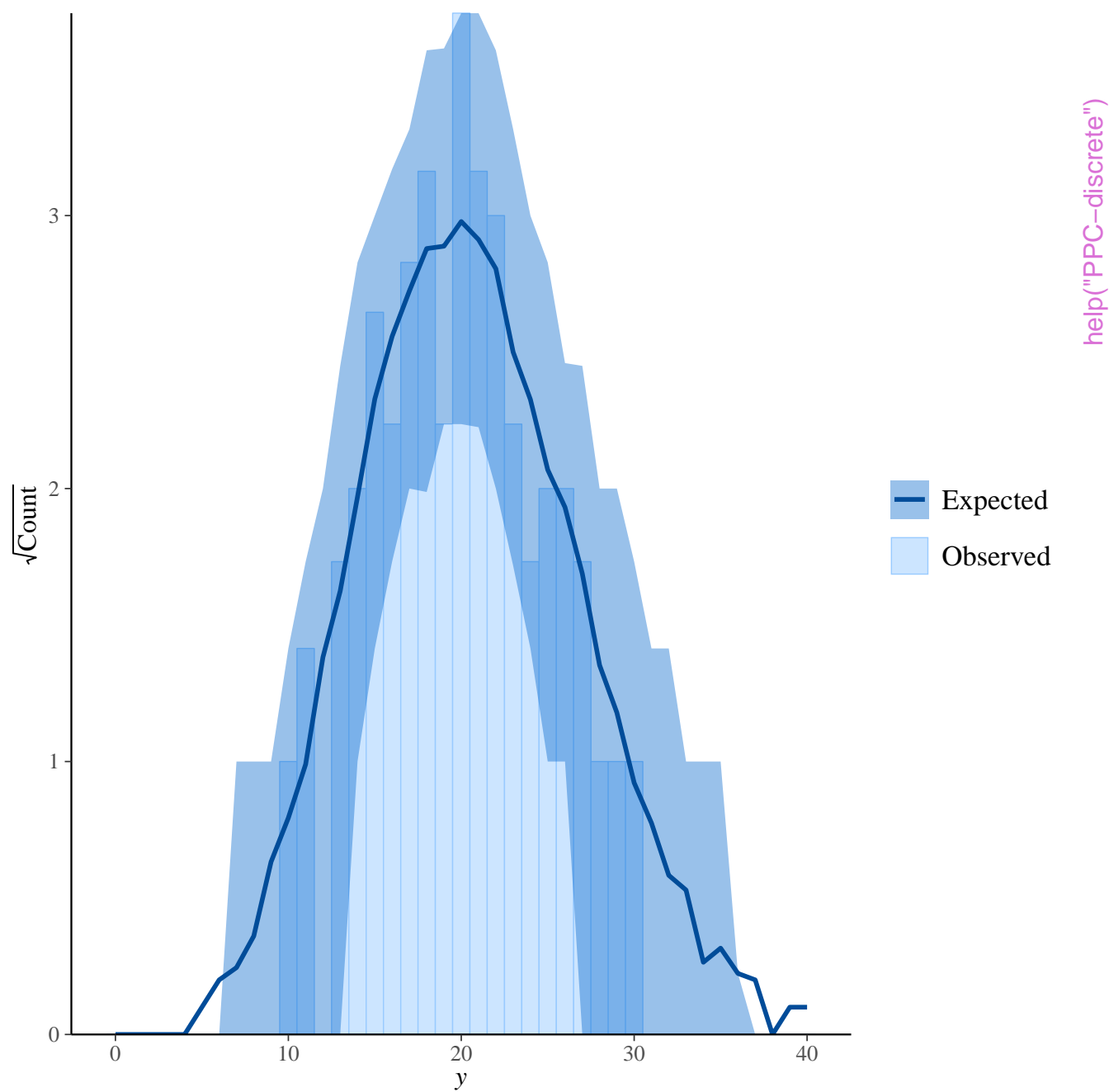


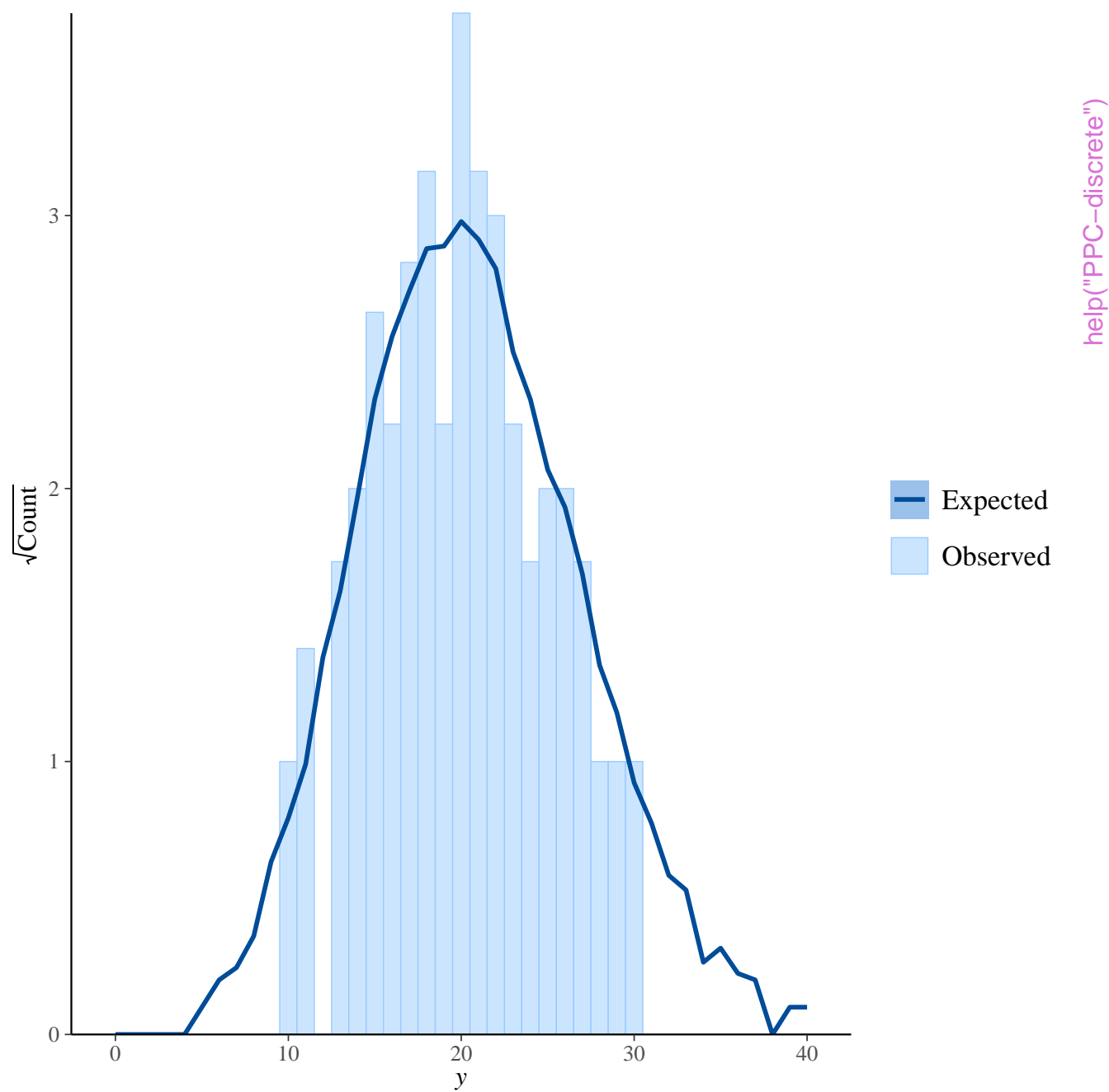
GroupA

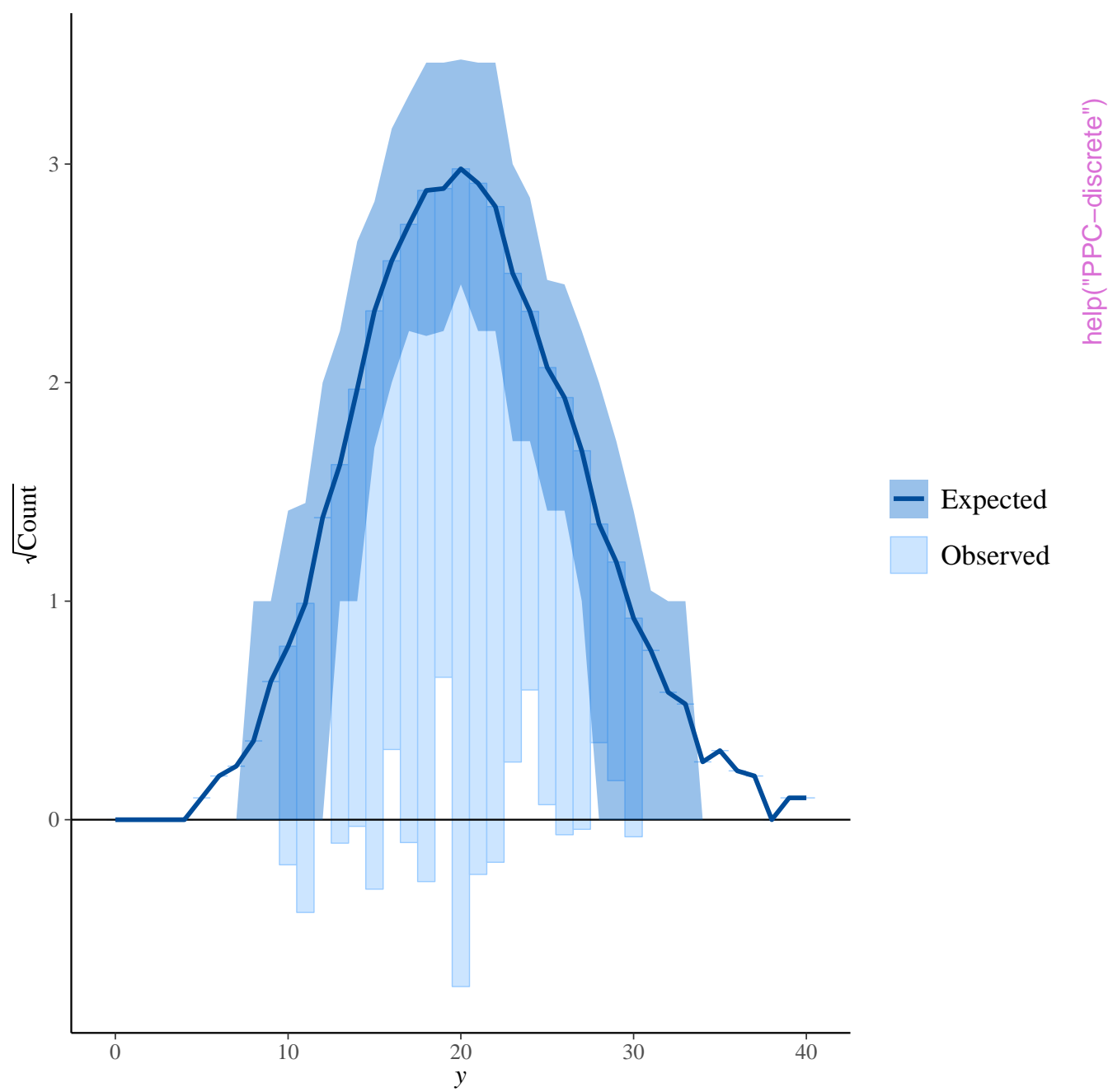


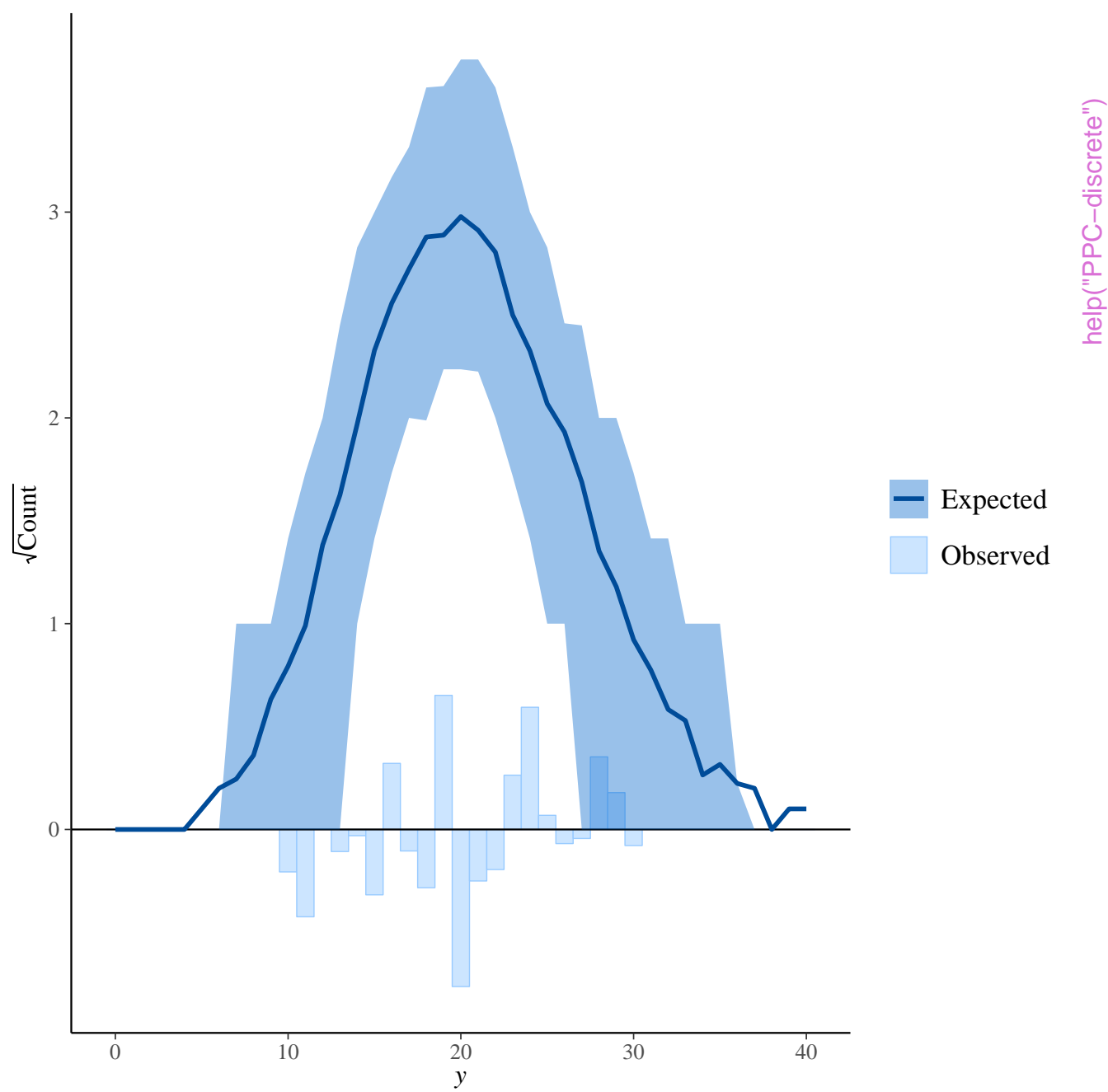
GroupB

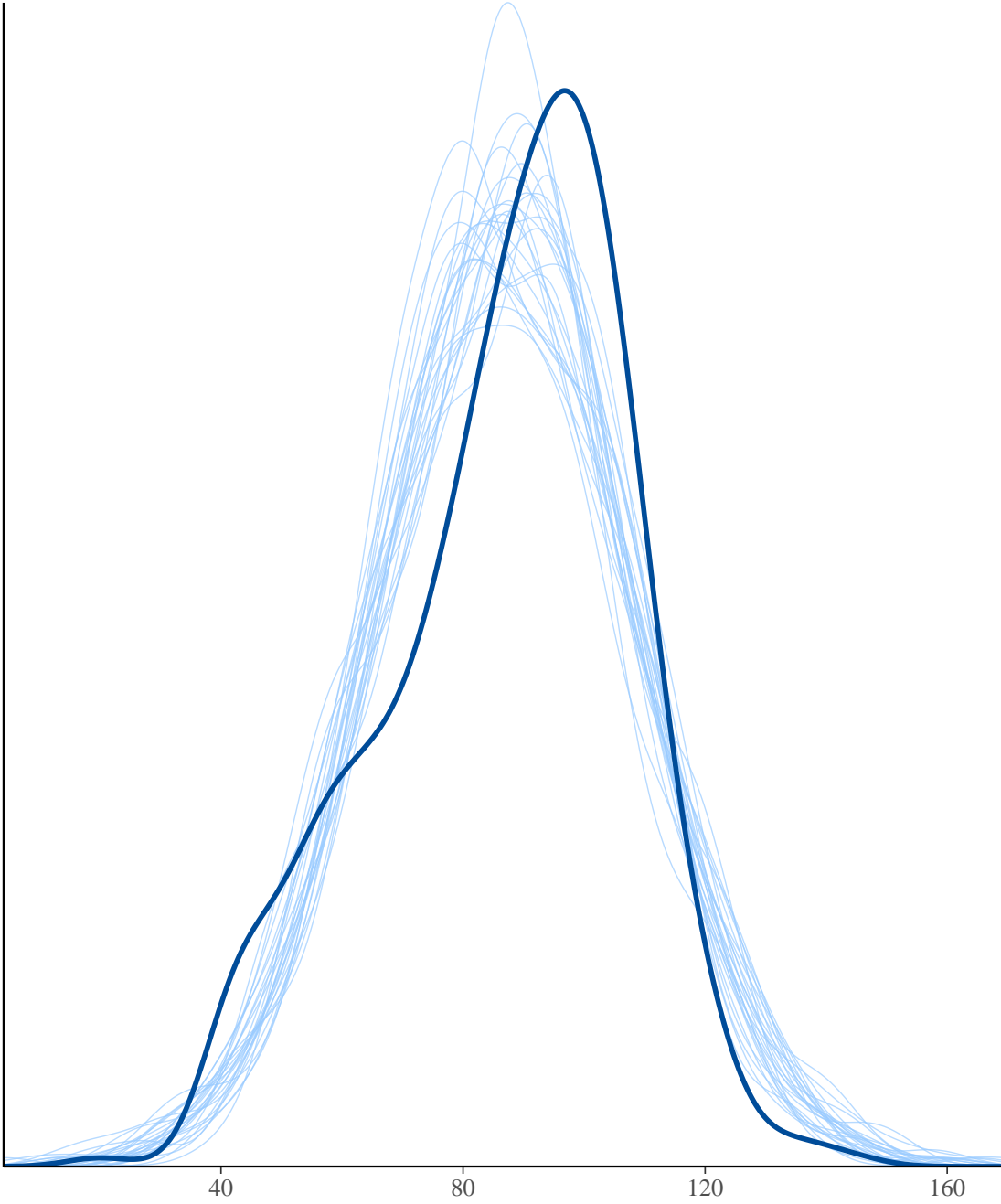






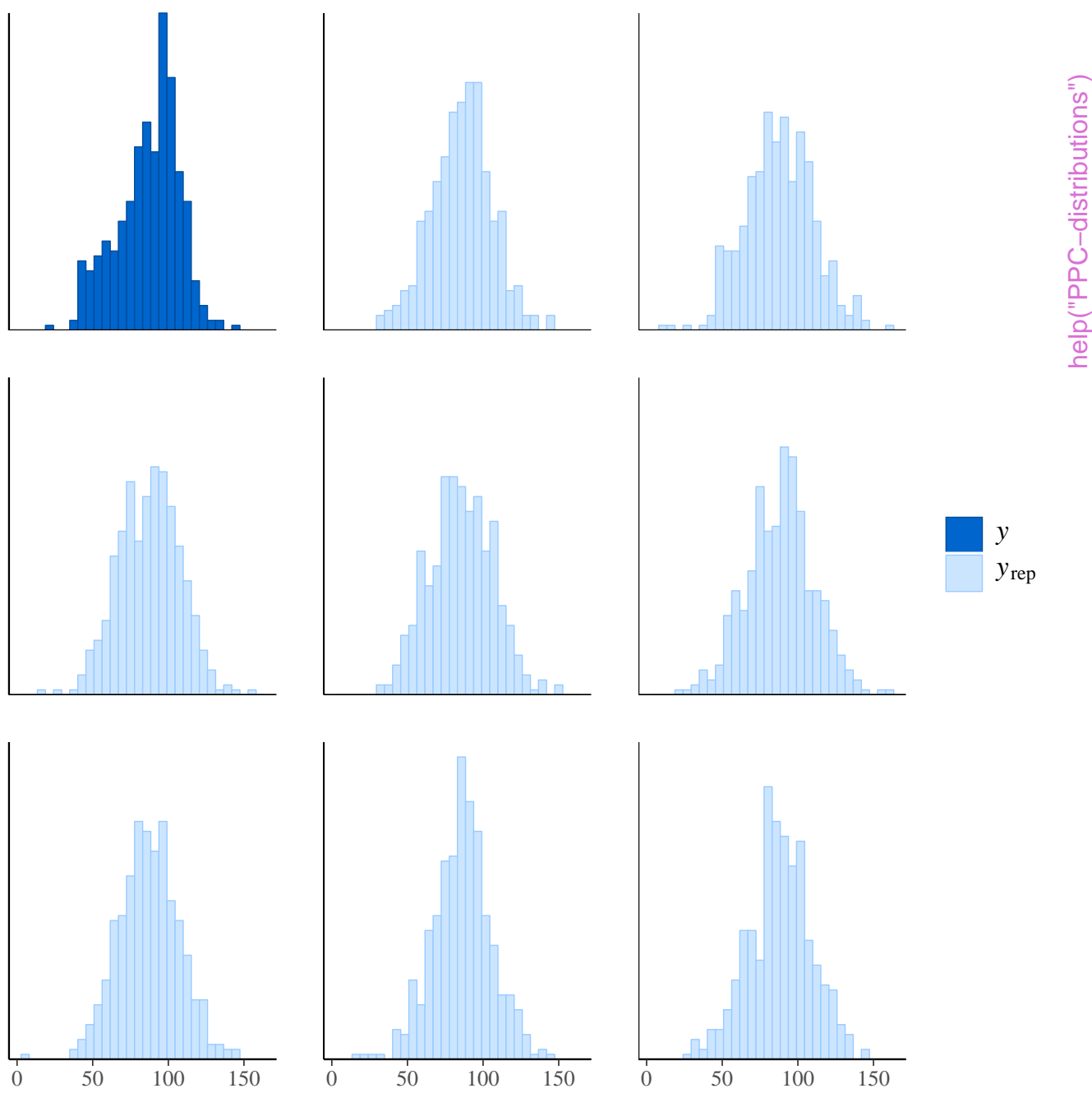


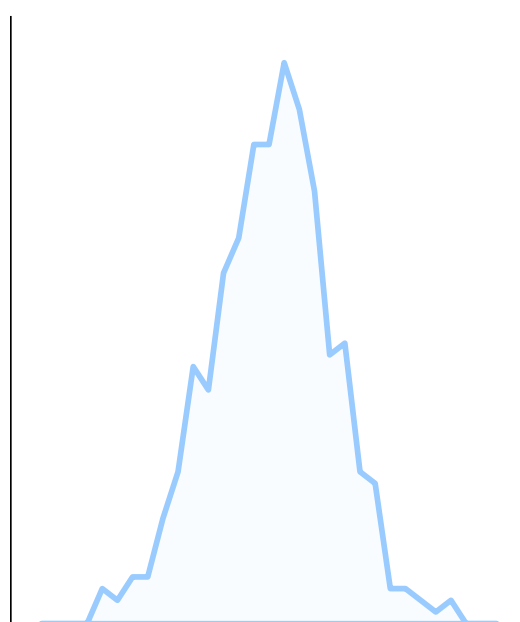
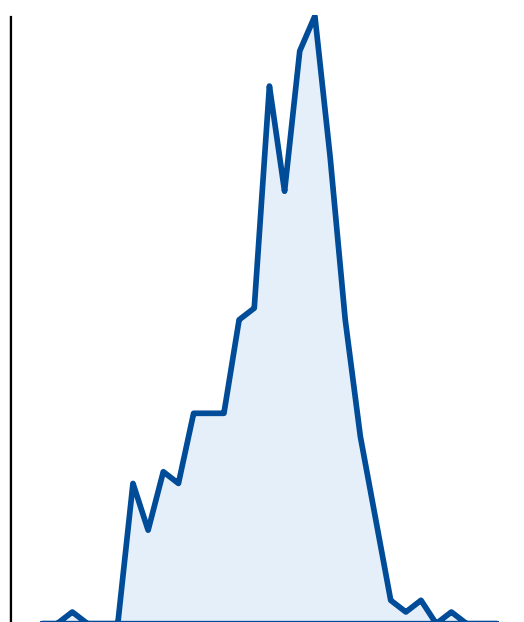




y
 y_{rep}

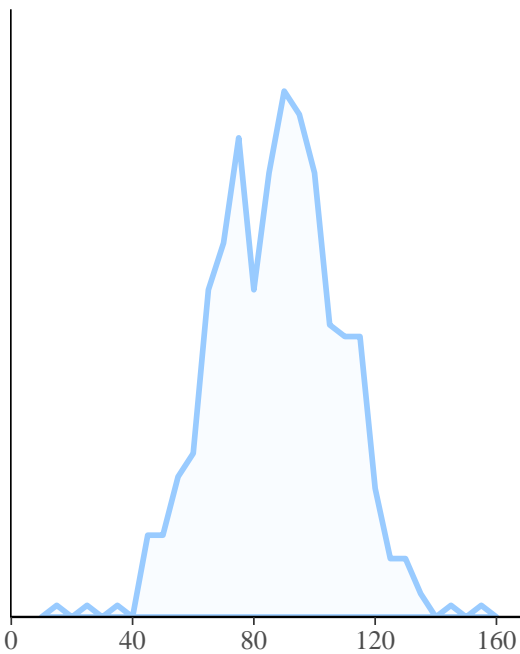
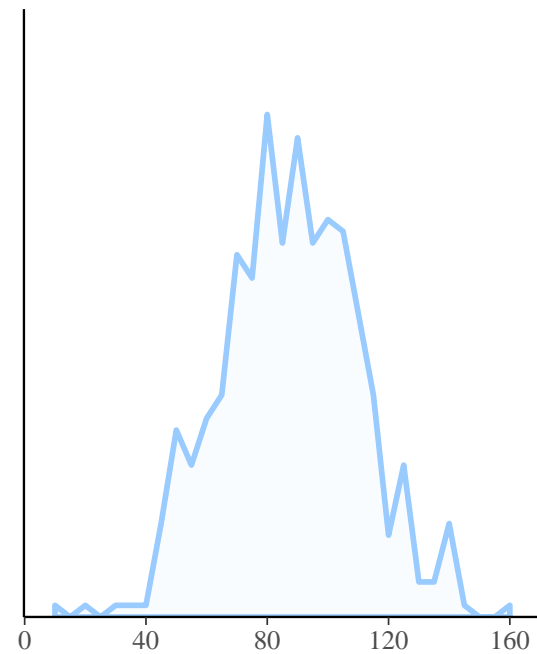
help("PPC-distributions")



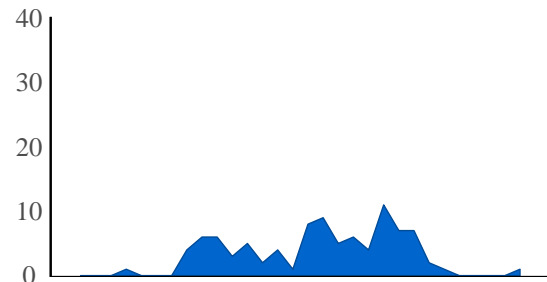


y
 y_{rep}

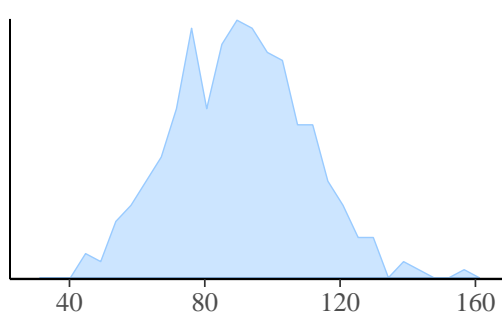
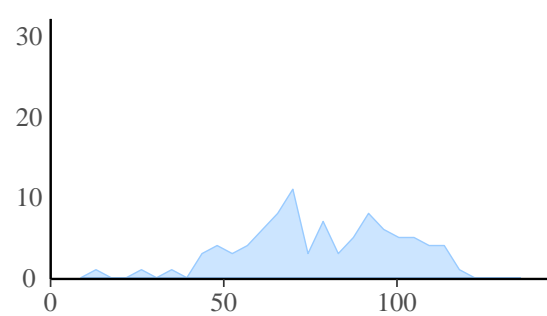
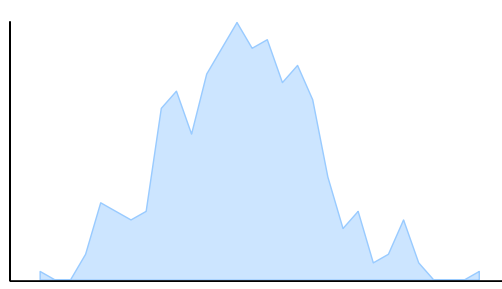
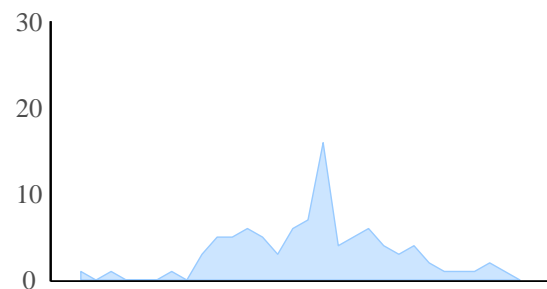
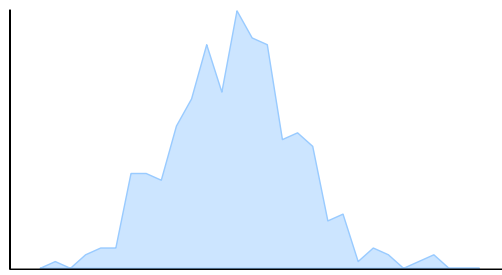
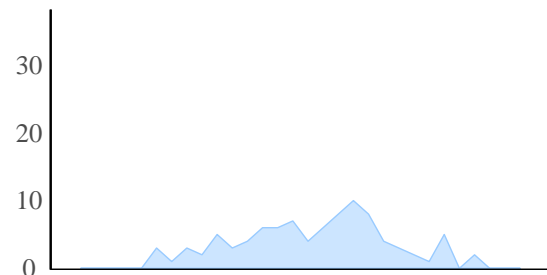
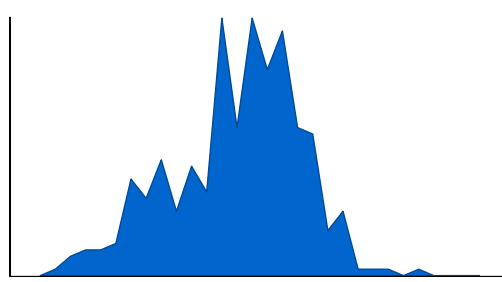
help("PPC-distributions")





GroupA

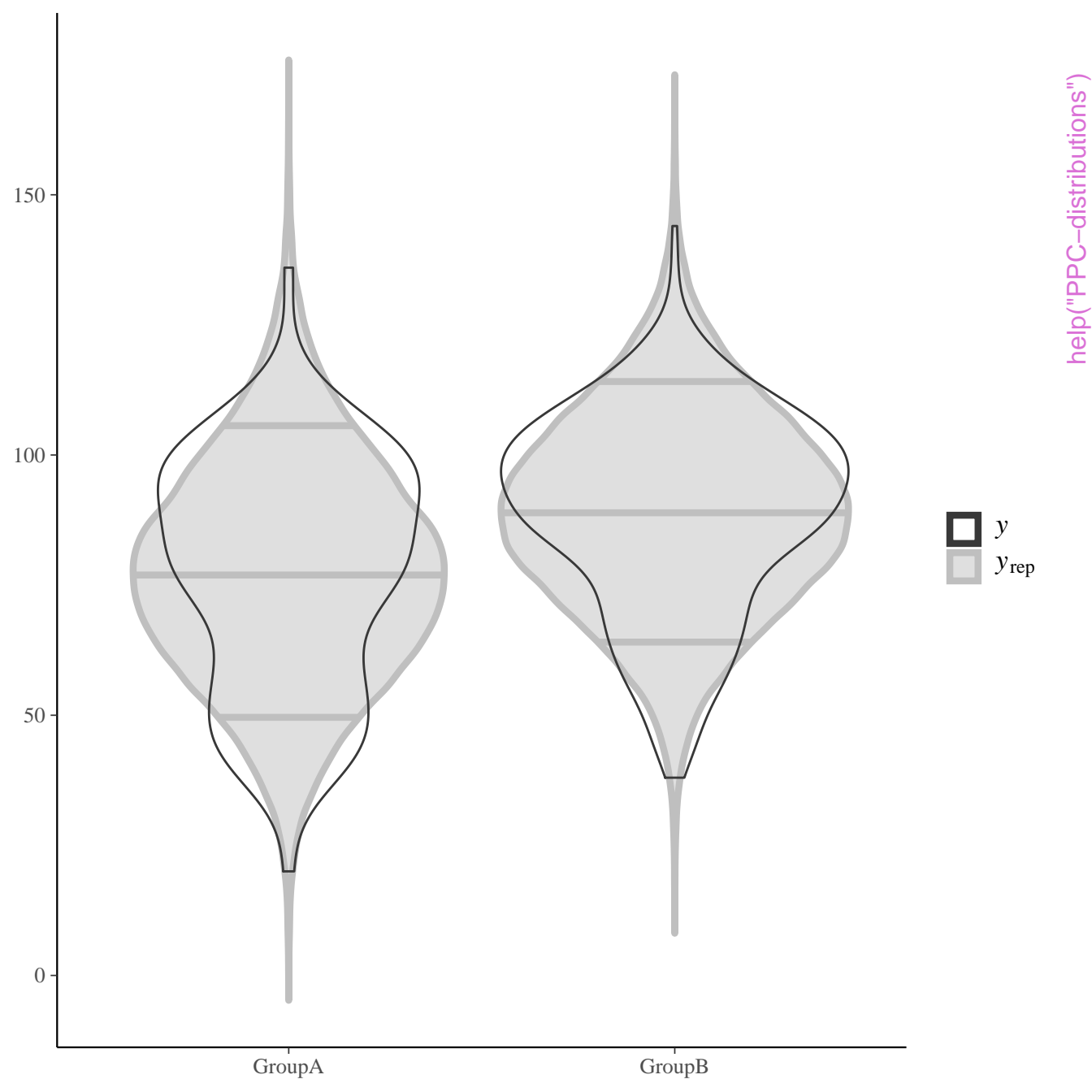


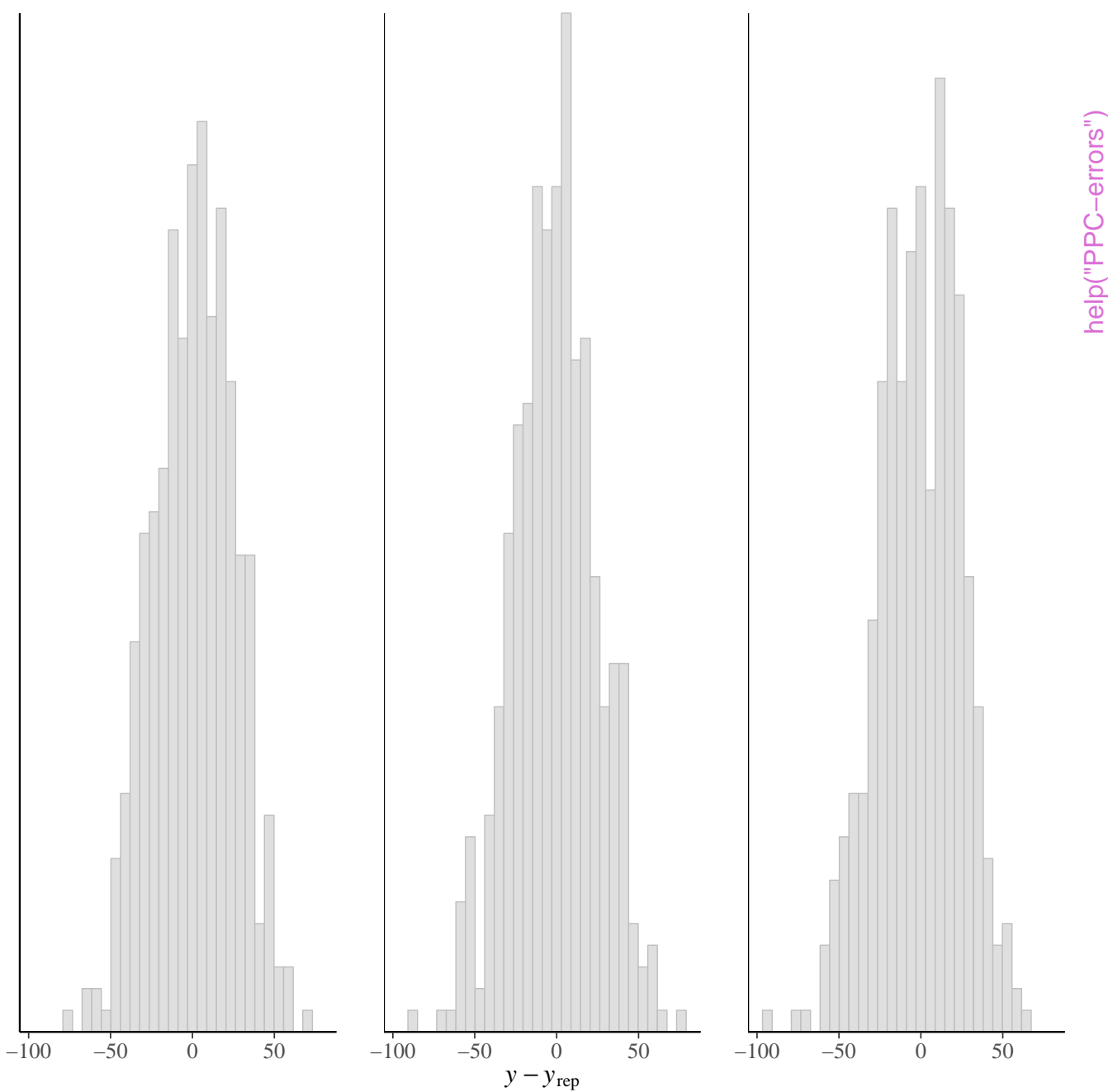
GroupB



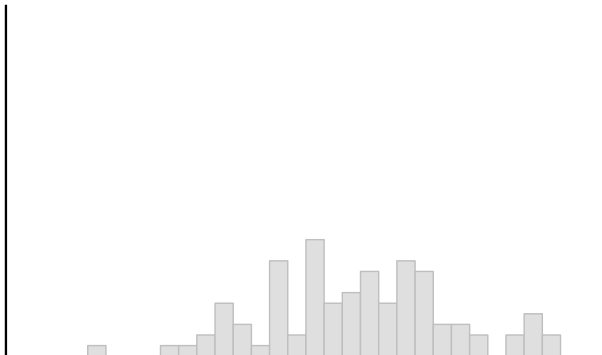
 y
 y_{rep}

help("PPC-distributions")

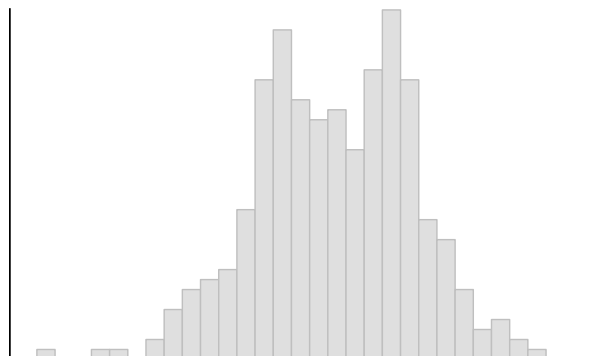
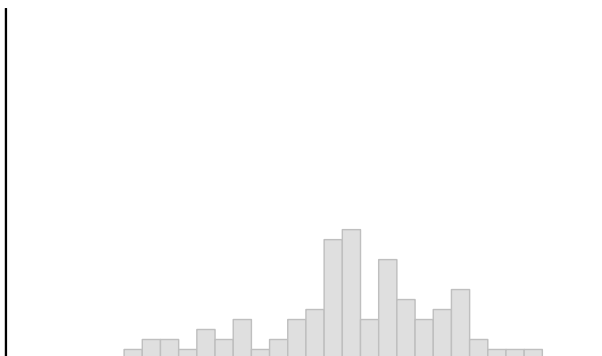
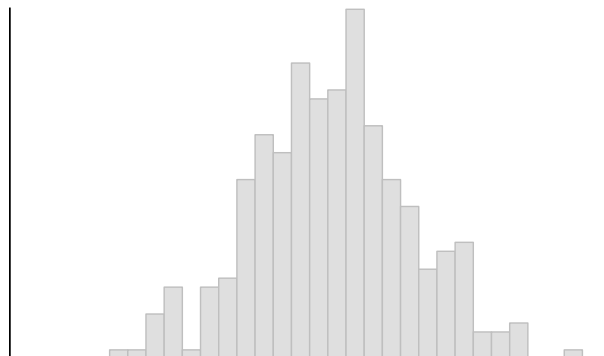
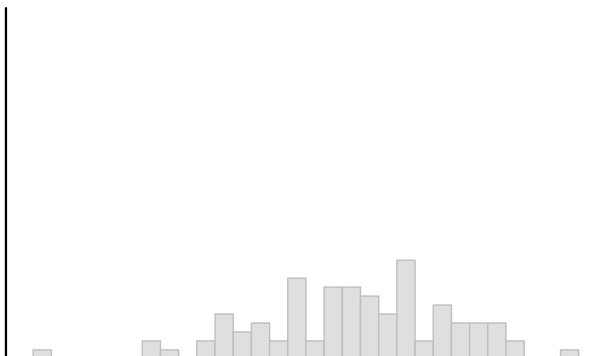
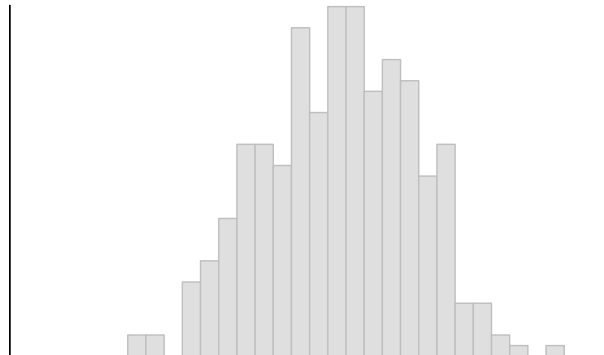




GroupA



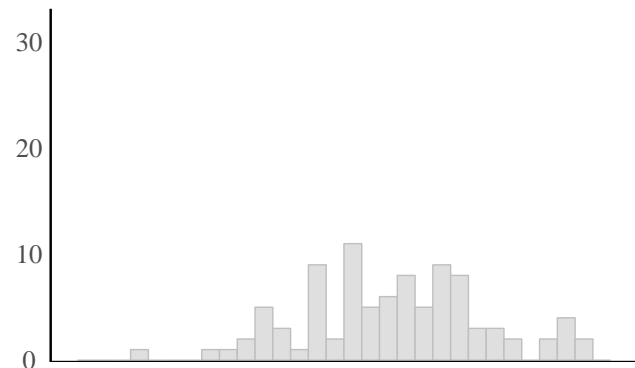
GroupB



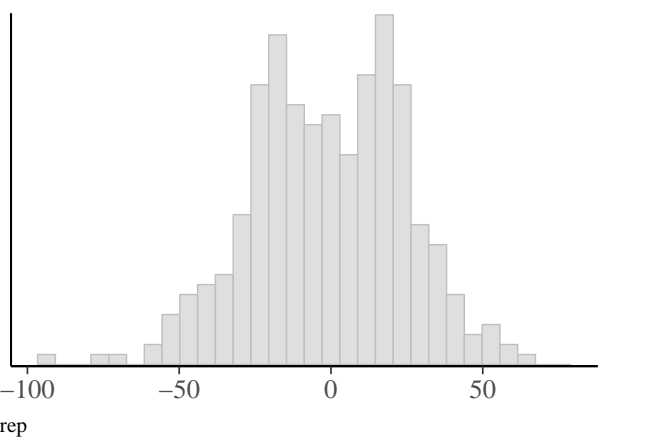
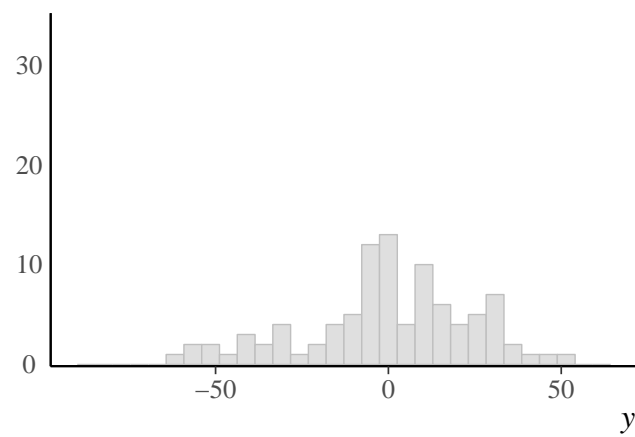
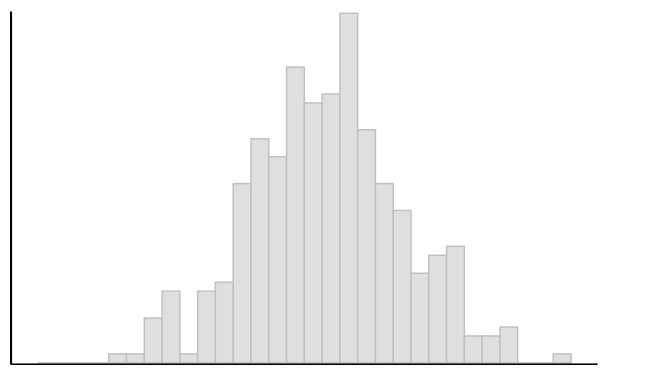
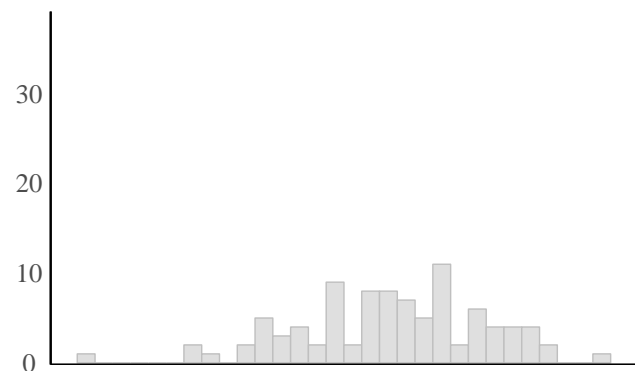
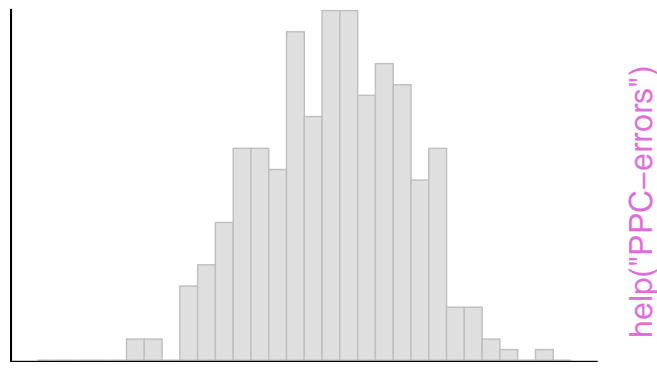
$y - y_{rep}$

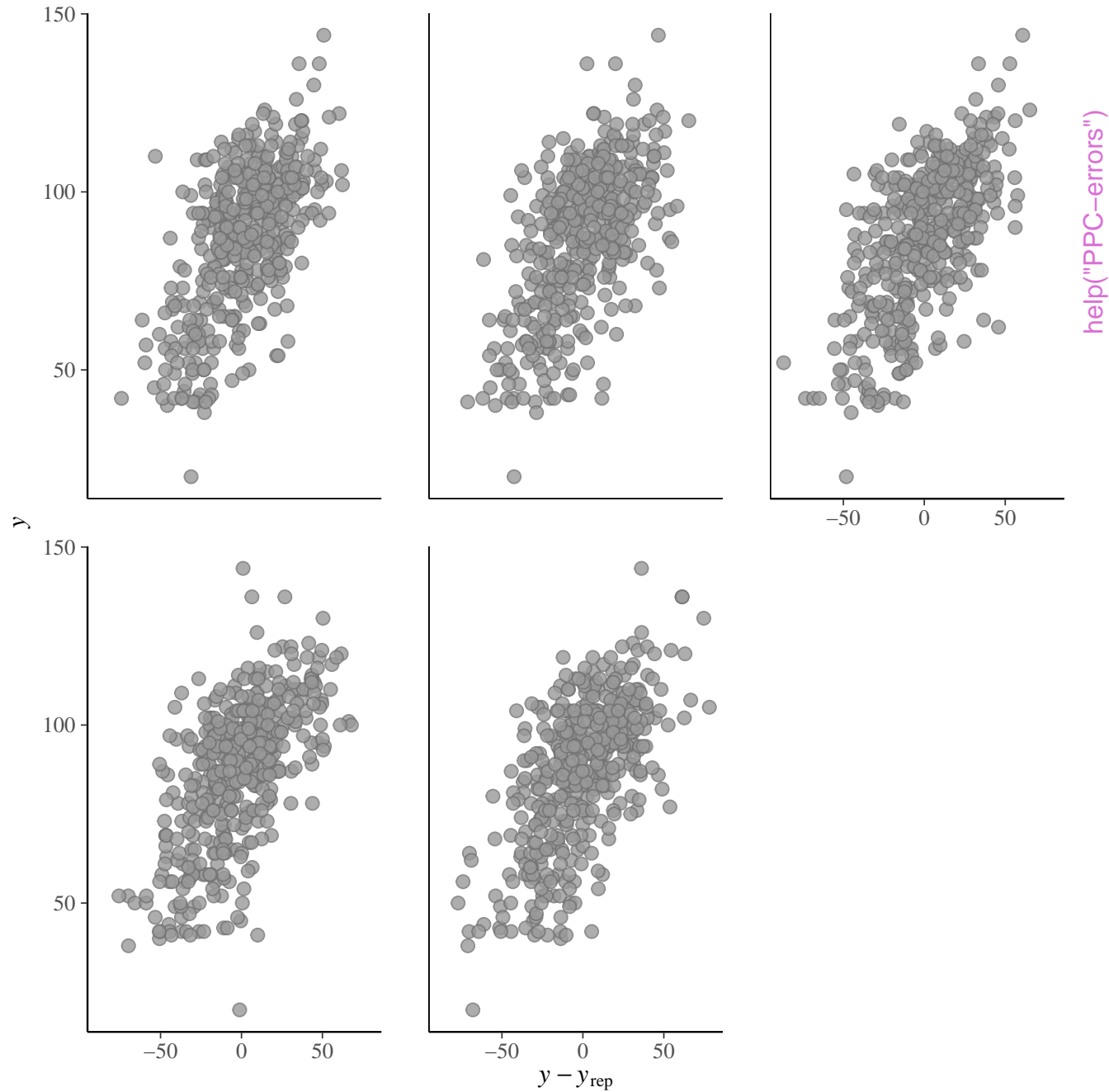
help("PPC-errors")

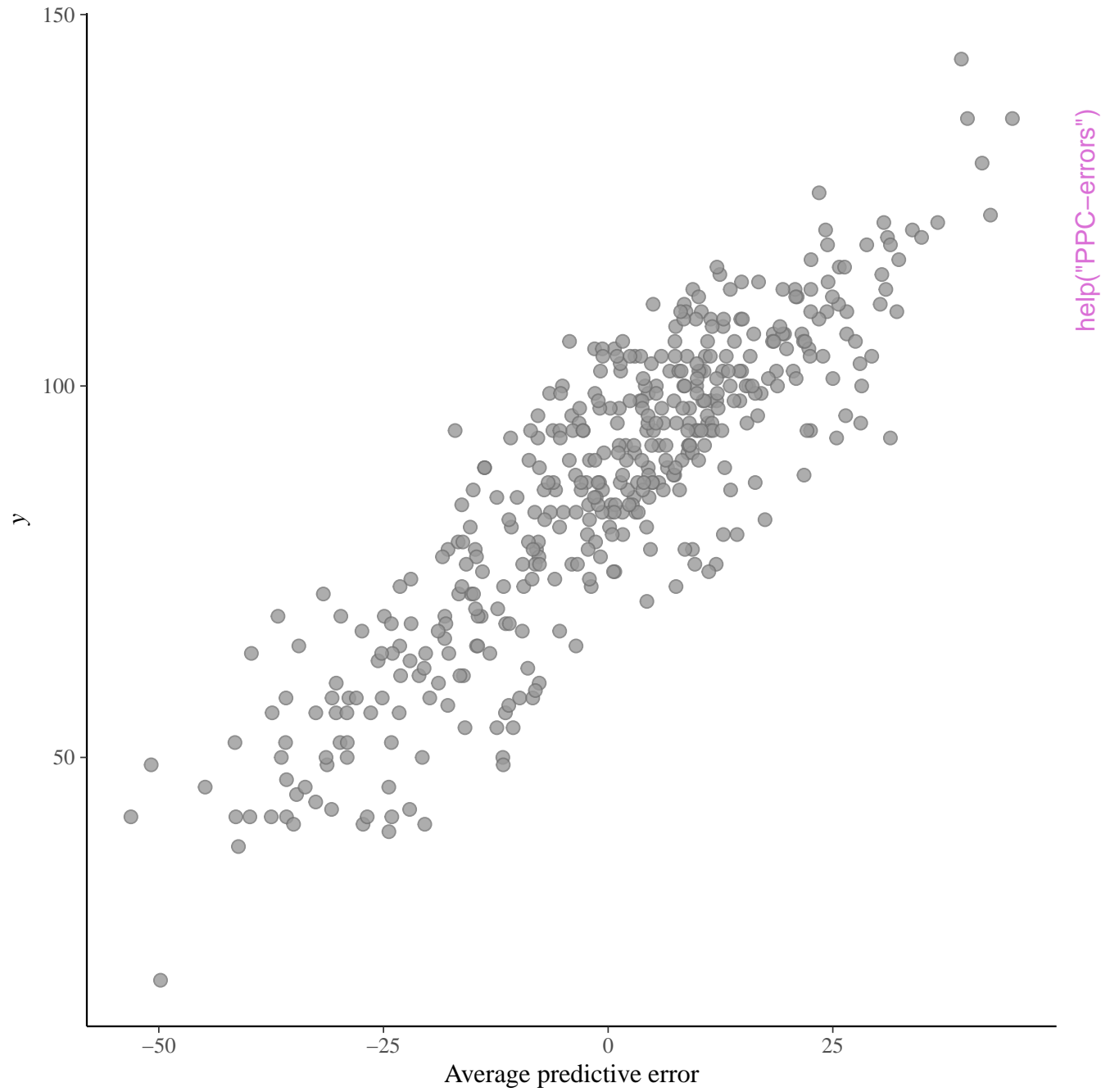
GroupA



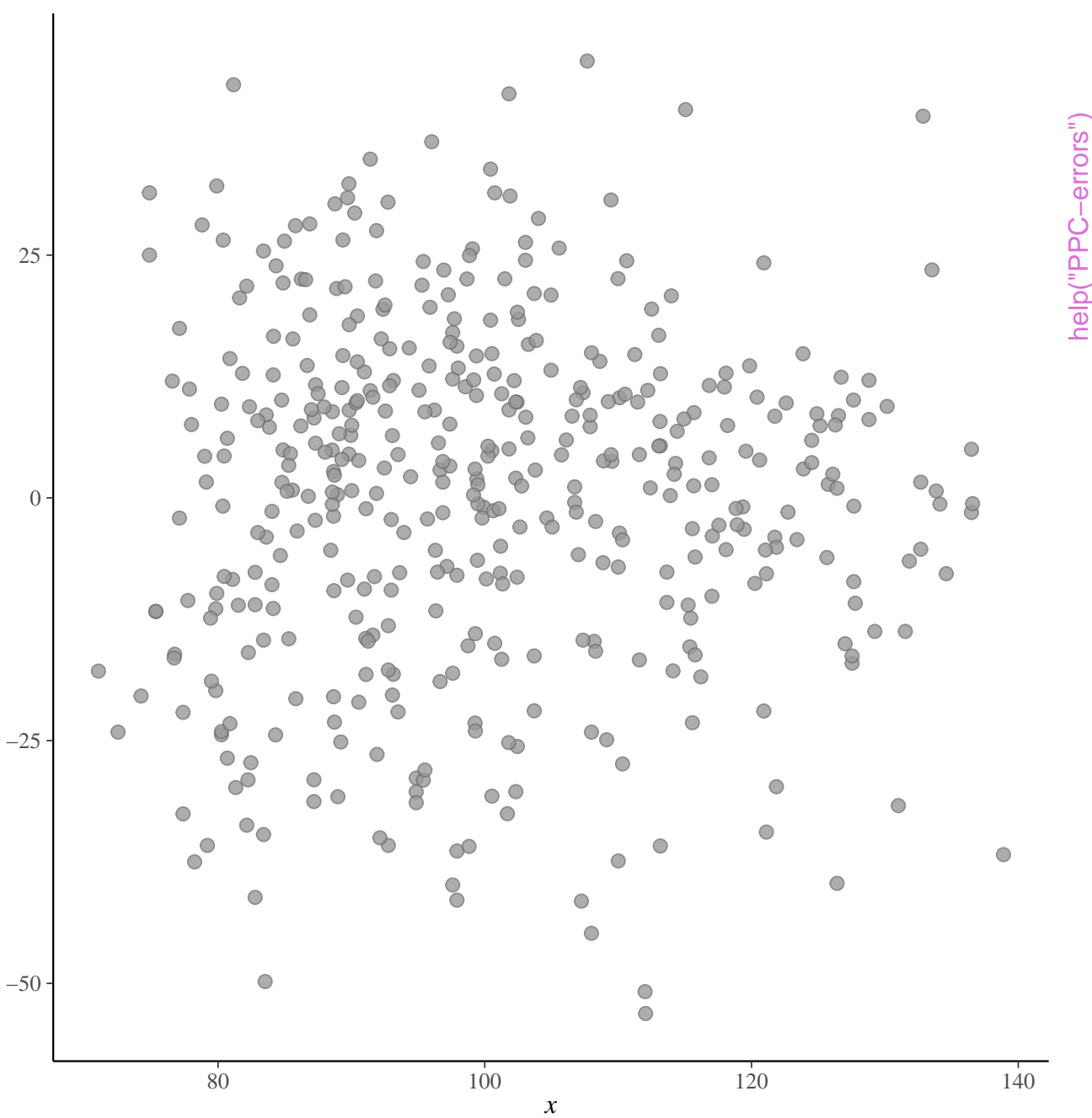
GroupB



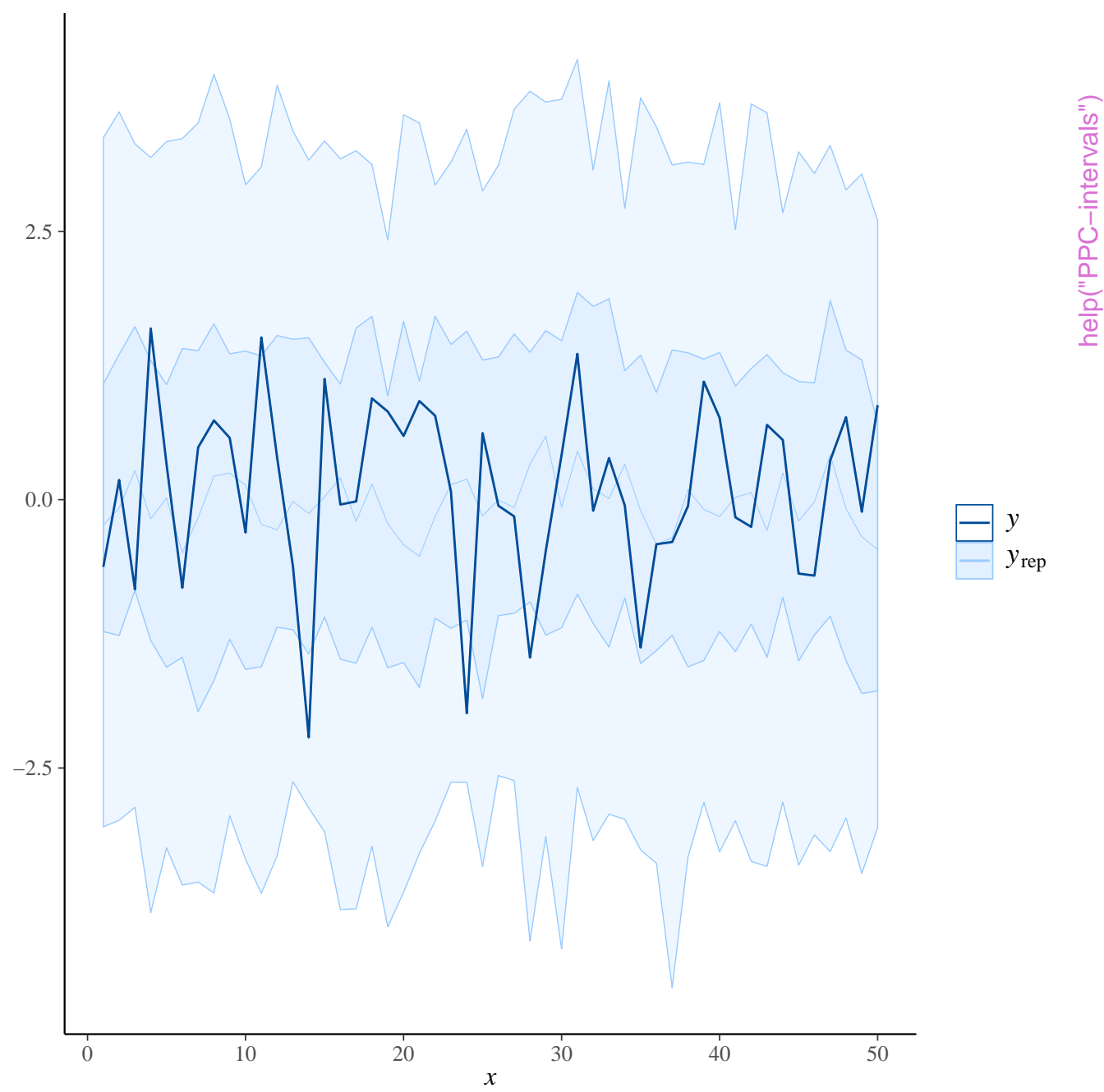


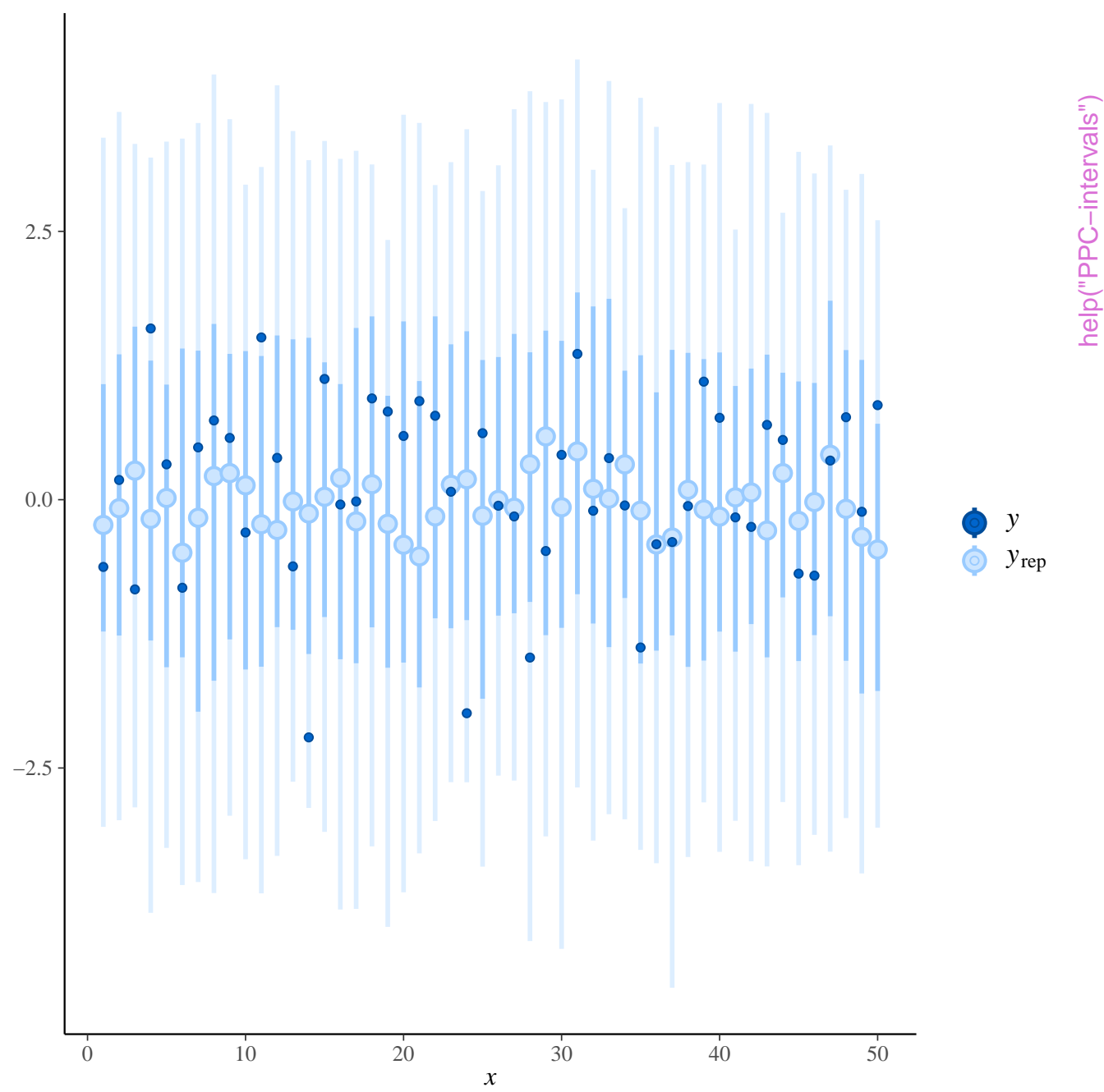


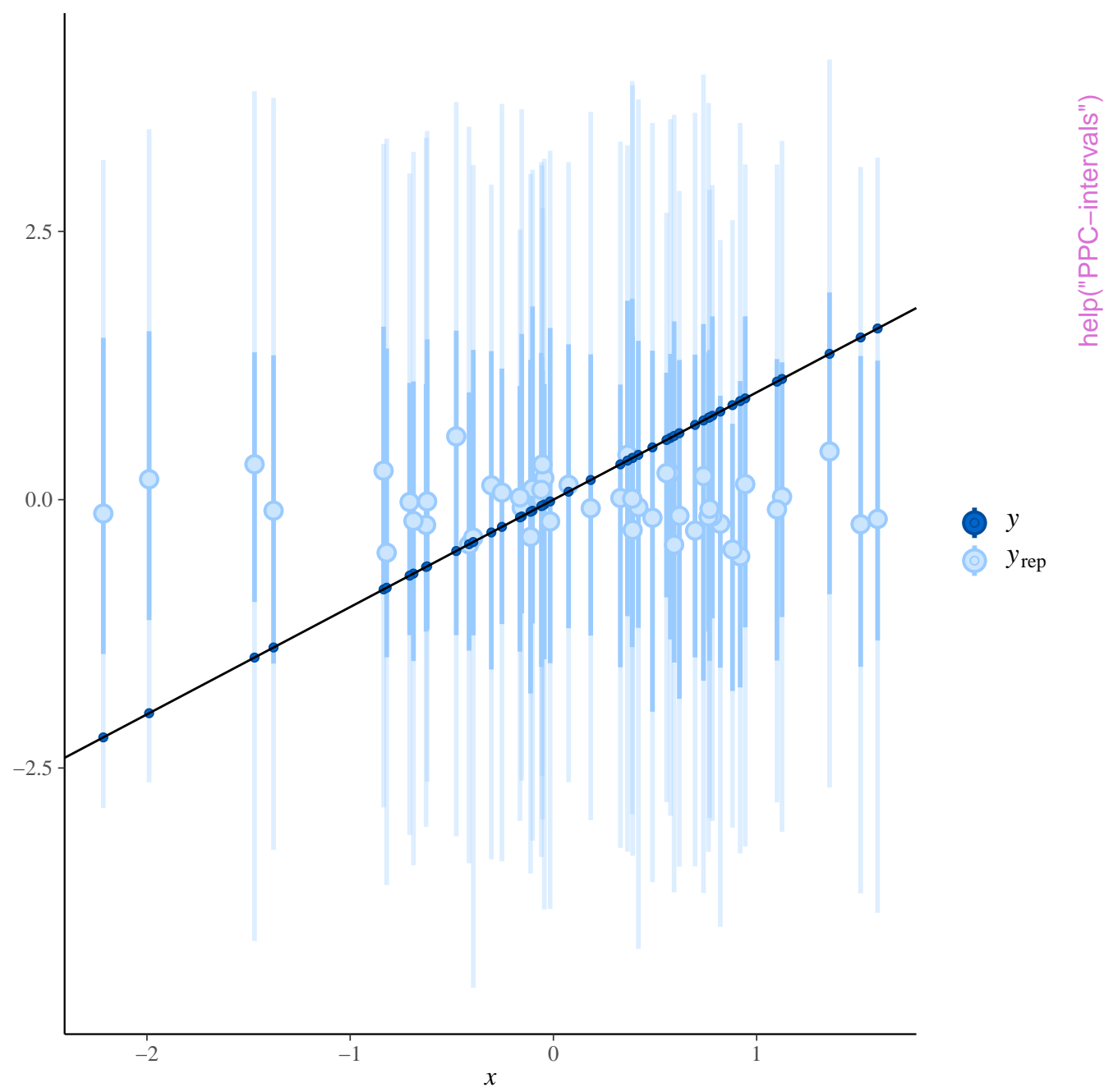
Average predictive error

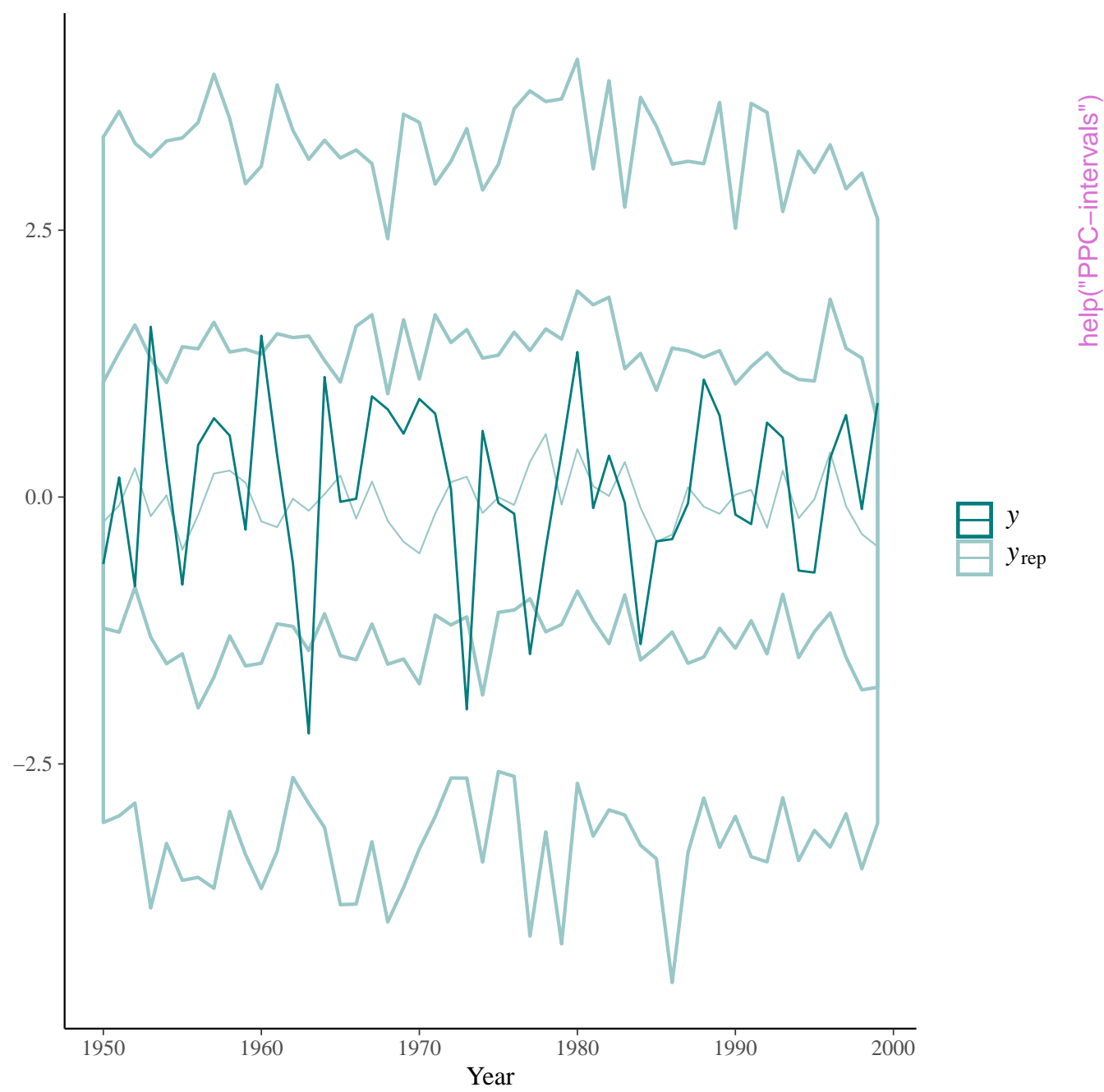


help("PPC-errors")

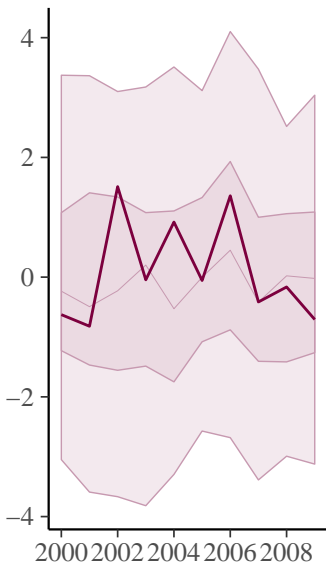




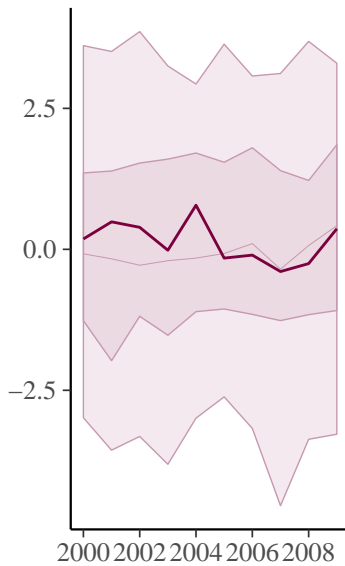




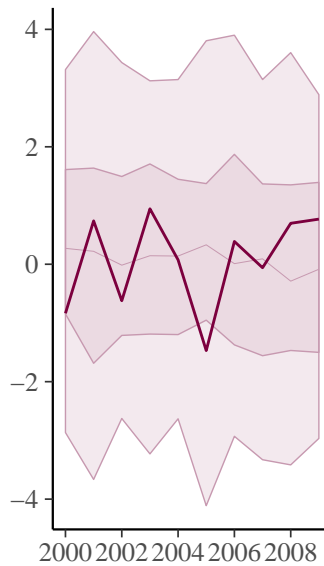
A



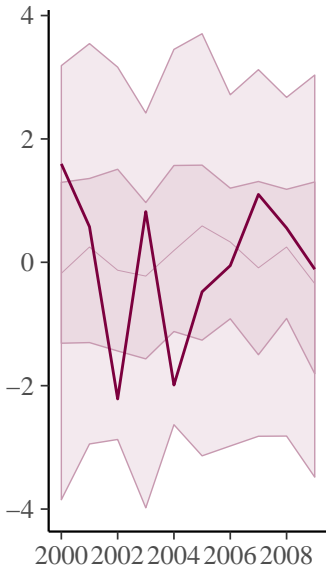
B



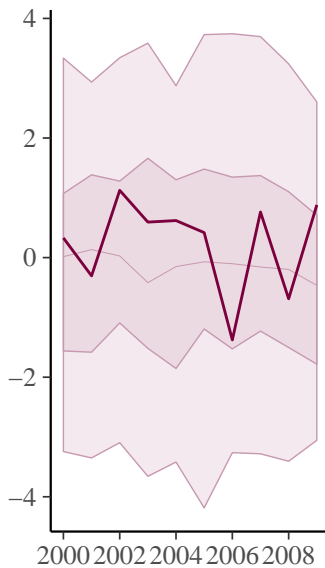
C



D



E

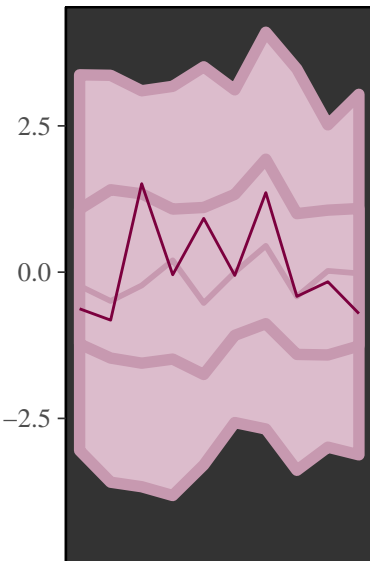


y
 y_{rep}

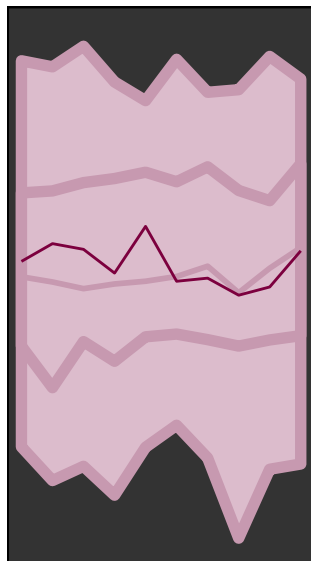
help("PPC-intervals")

x

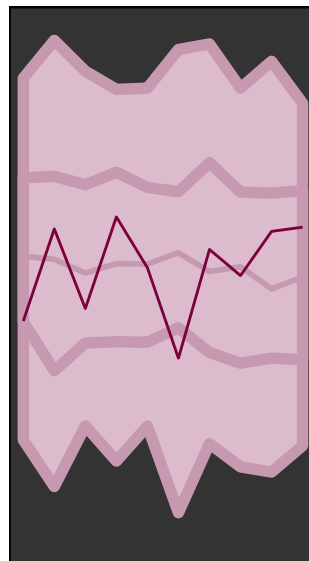
A



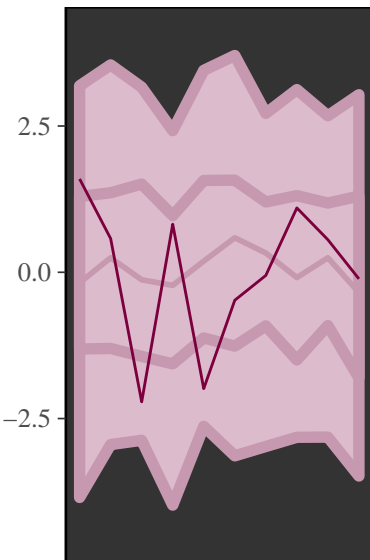
B



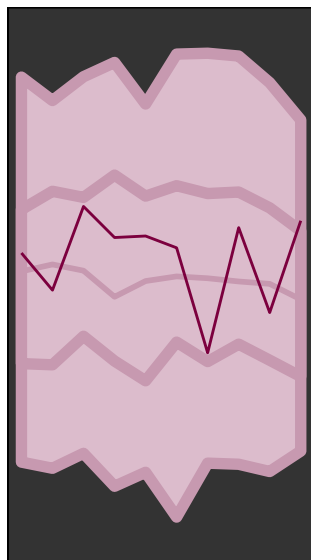
C





D

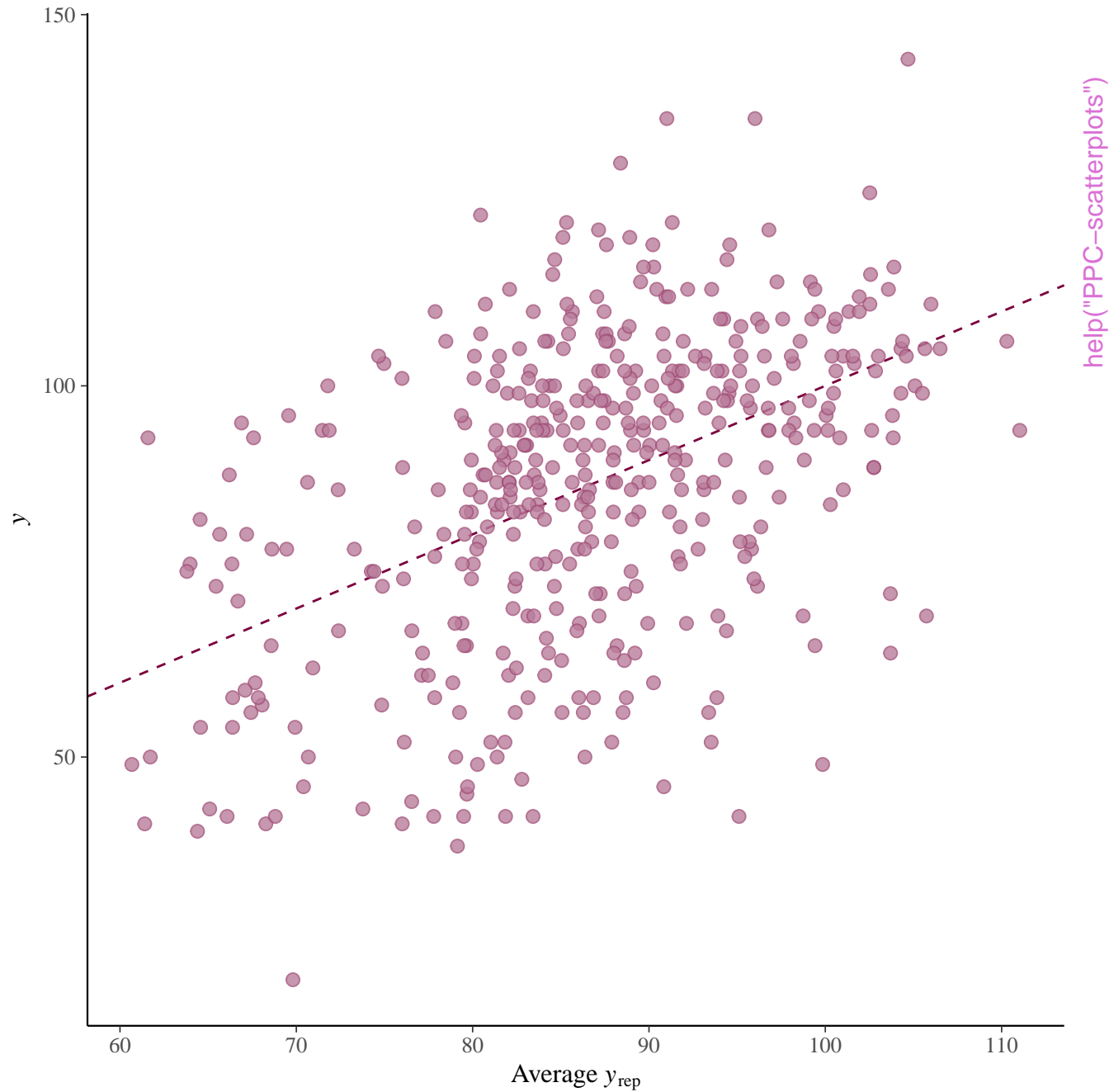


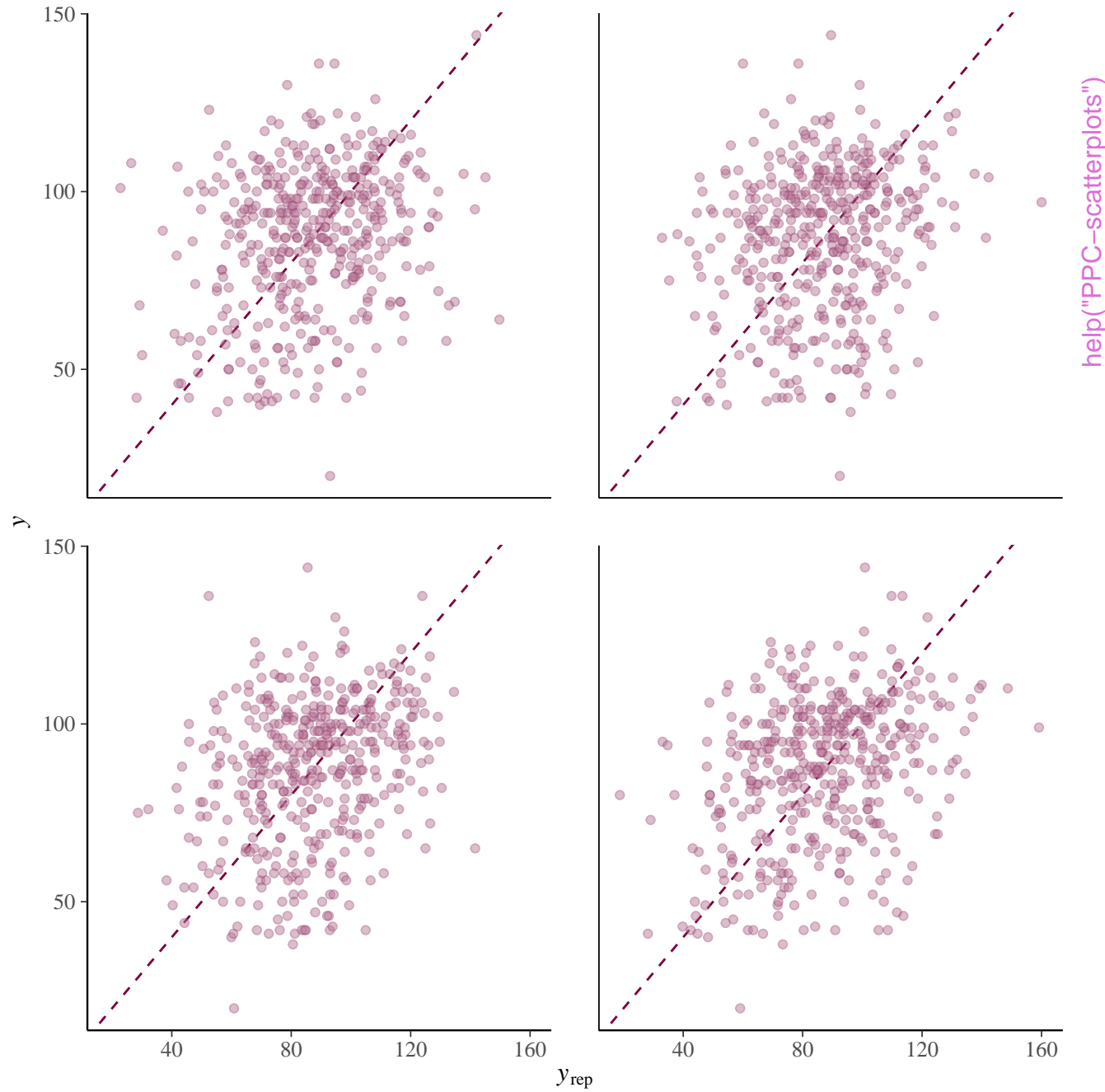
E

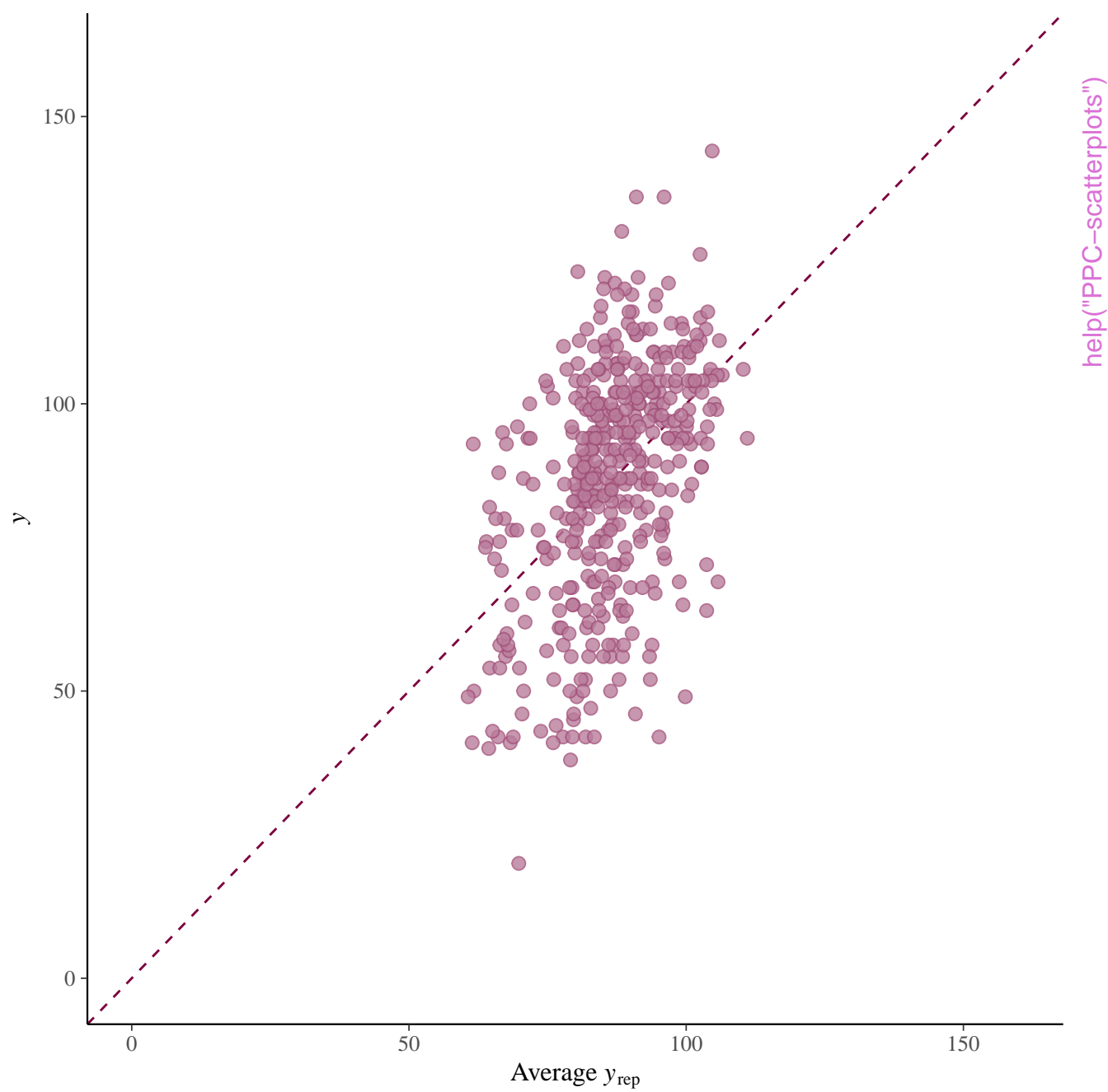
 x

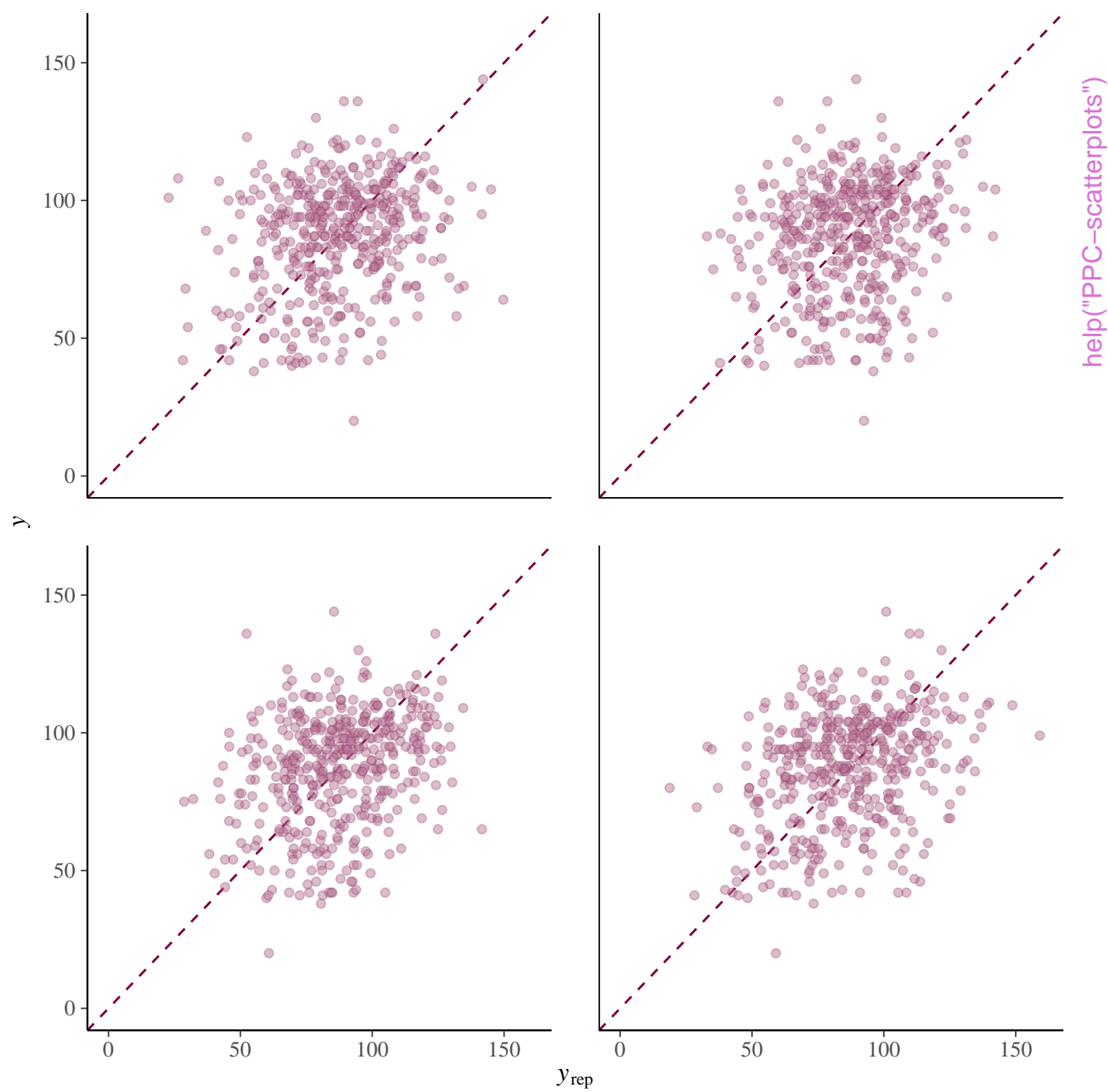
 y
 y_{rep}

help("PPC-intervals")

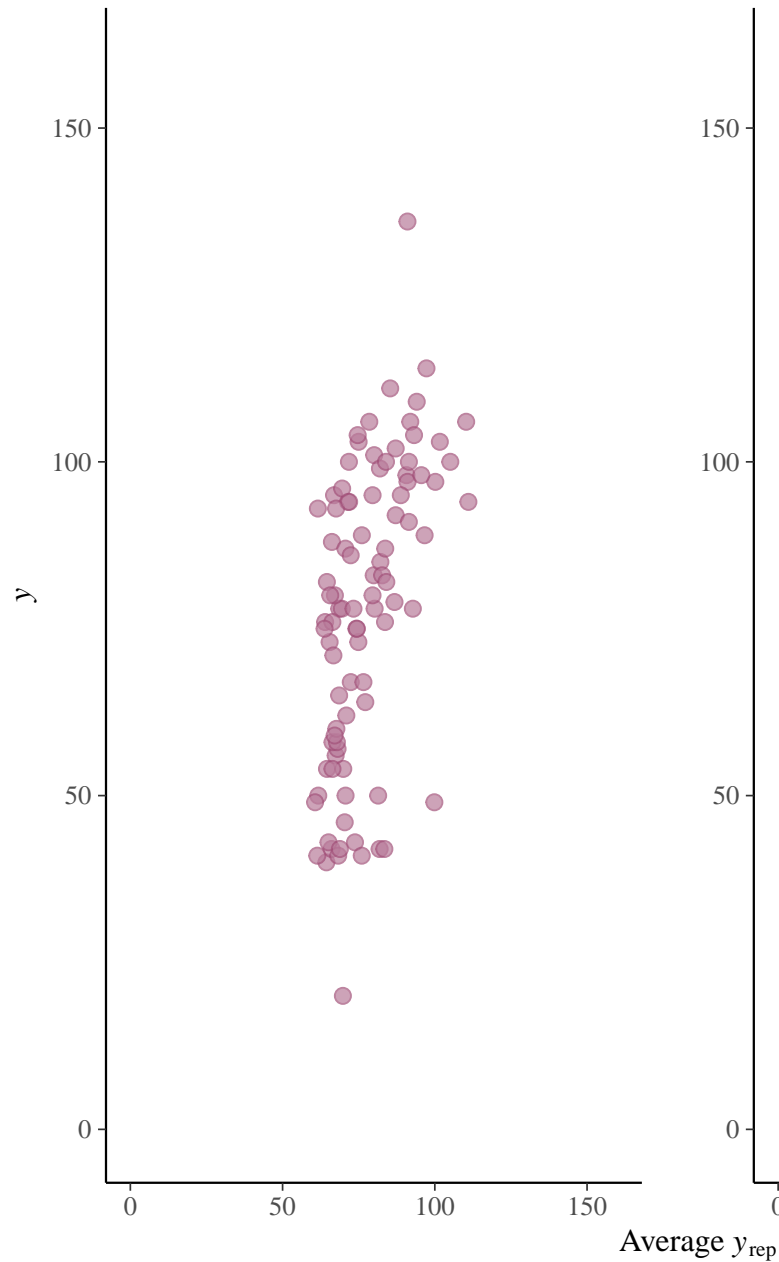




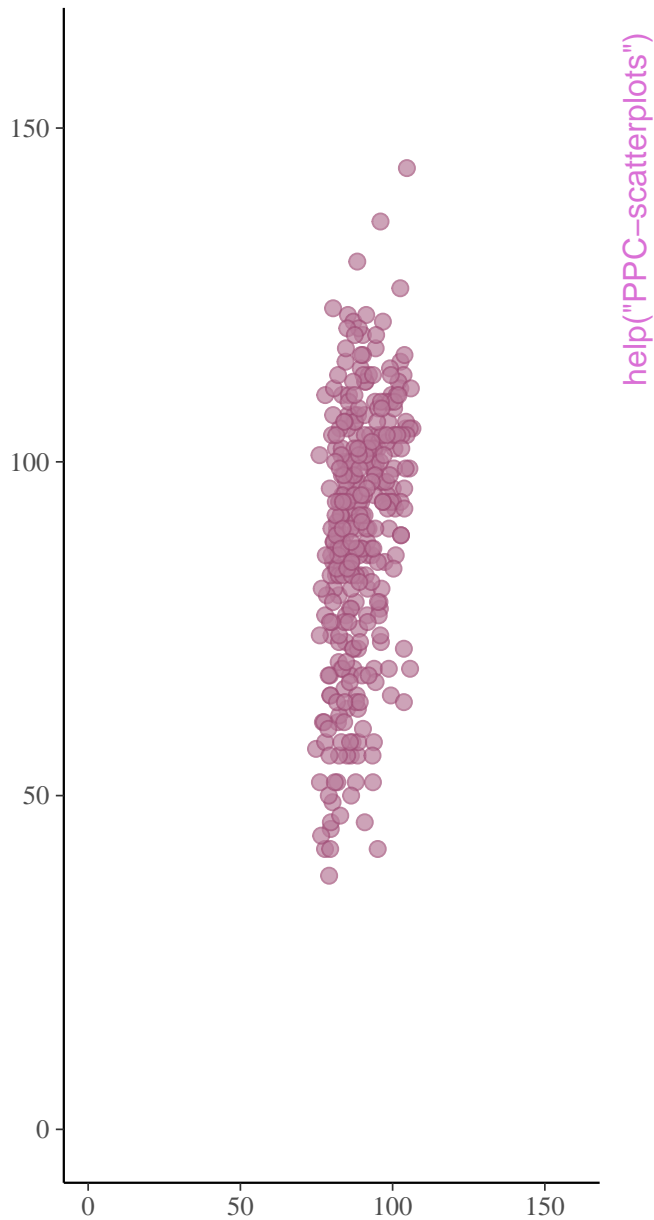




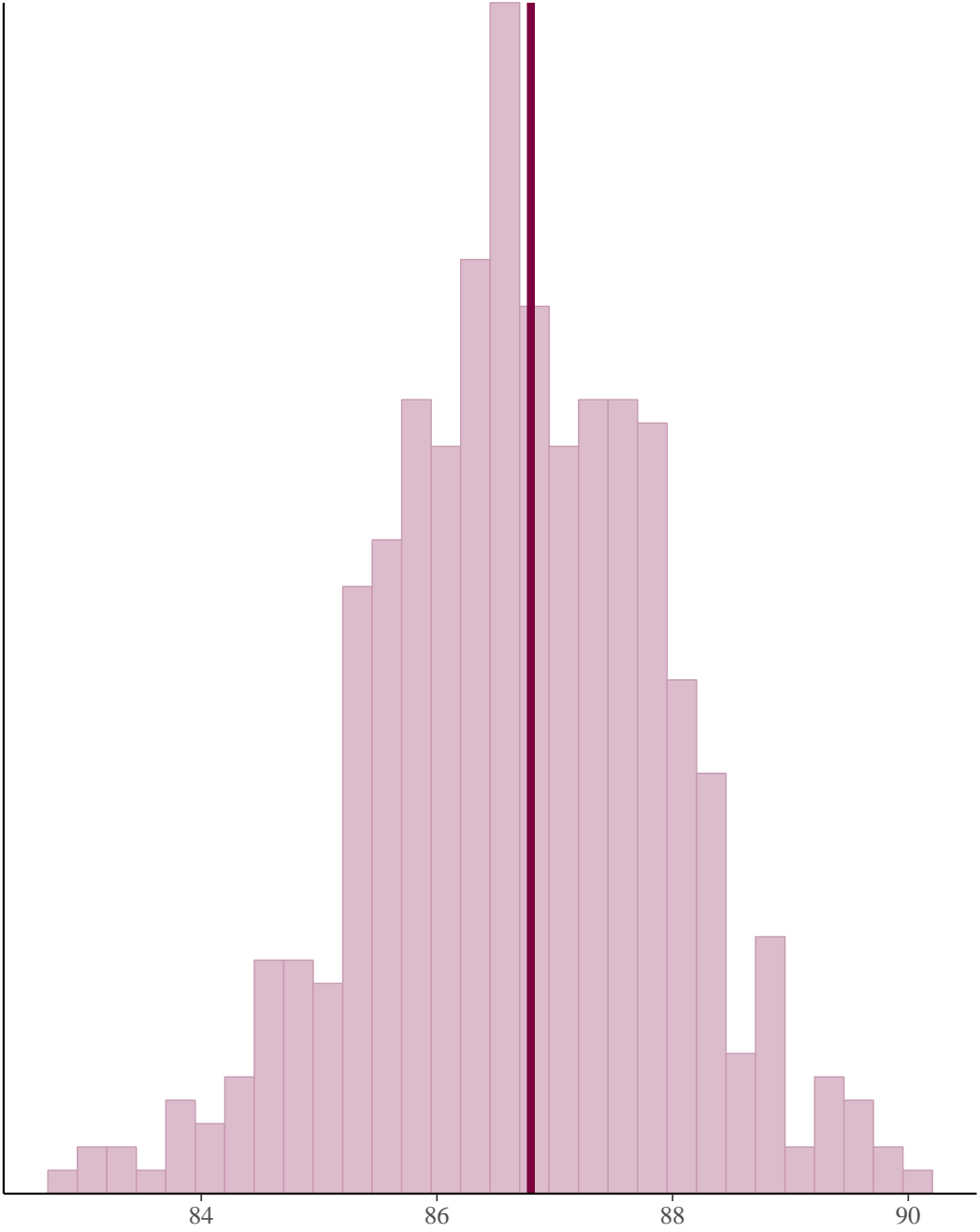
GroupA



GroupB

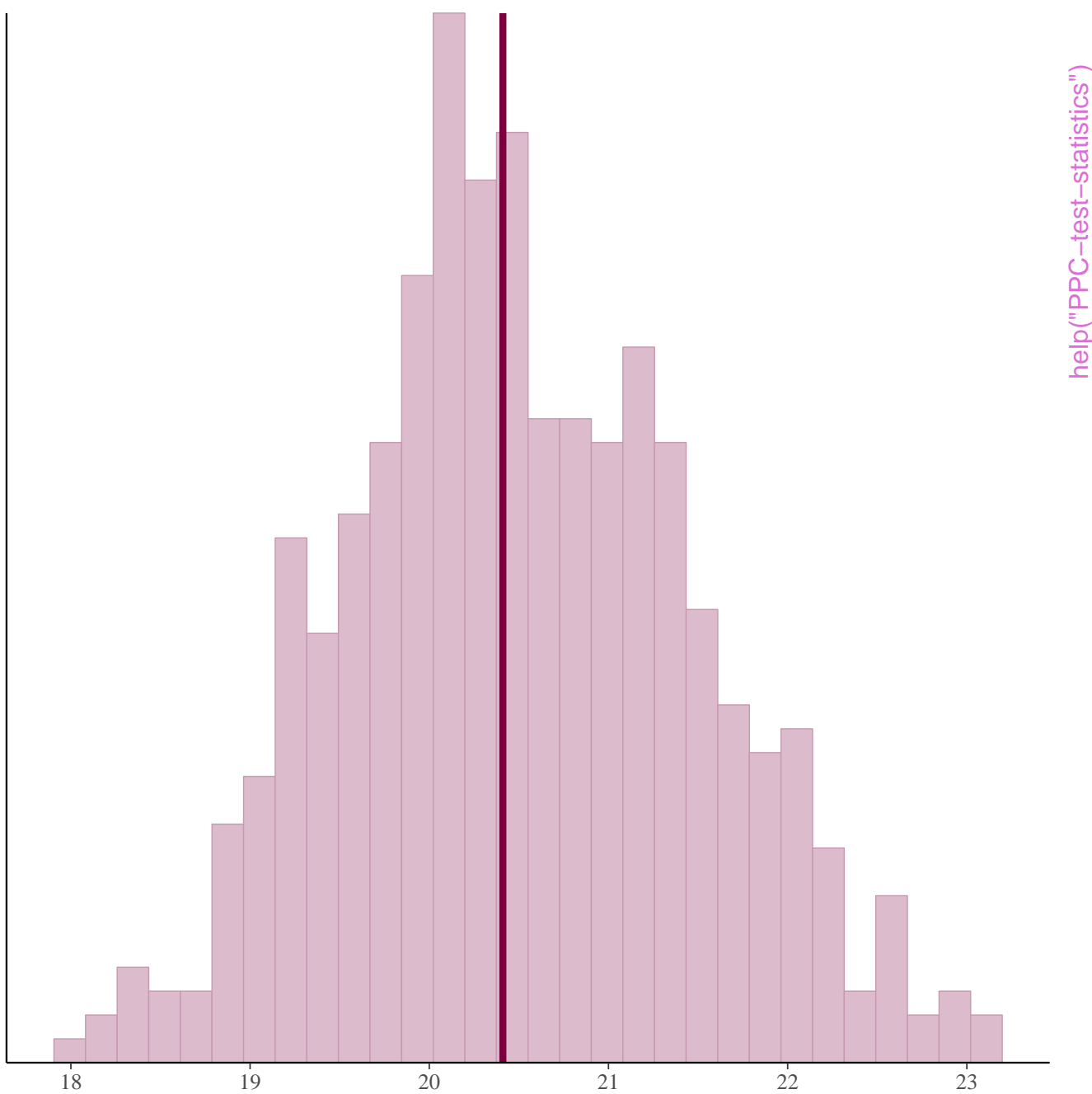


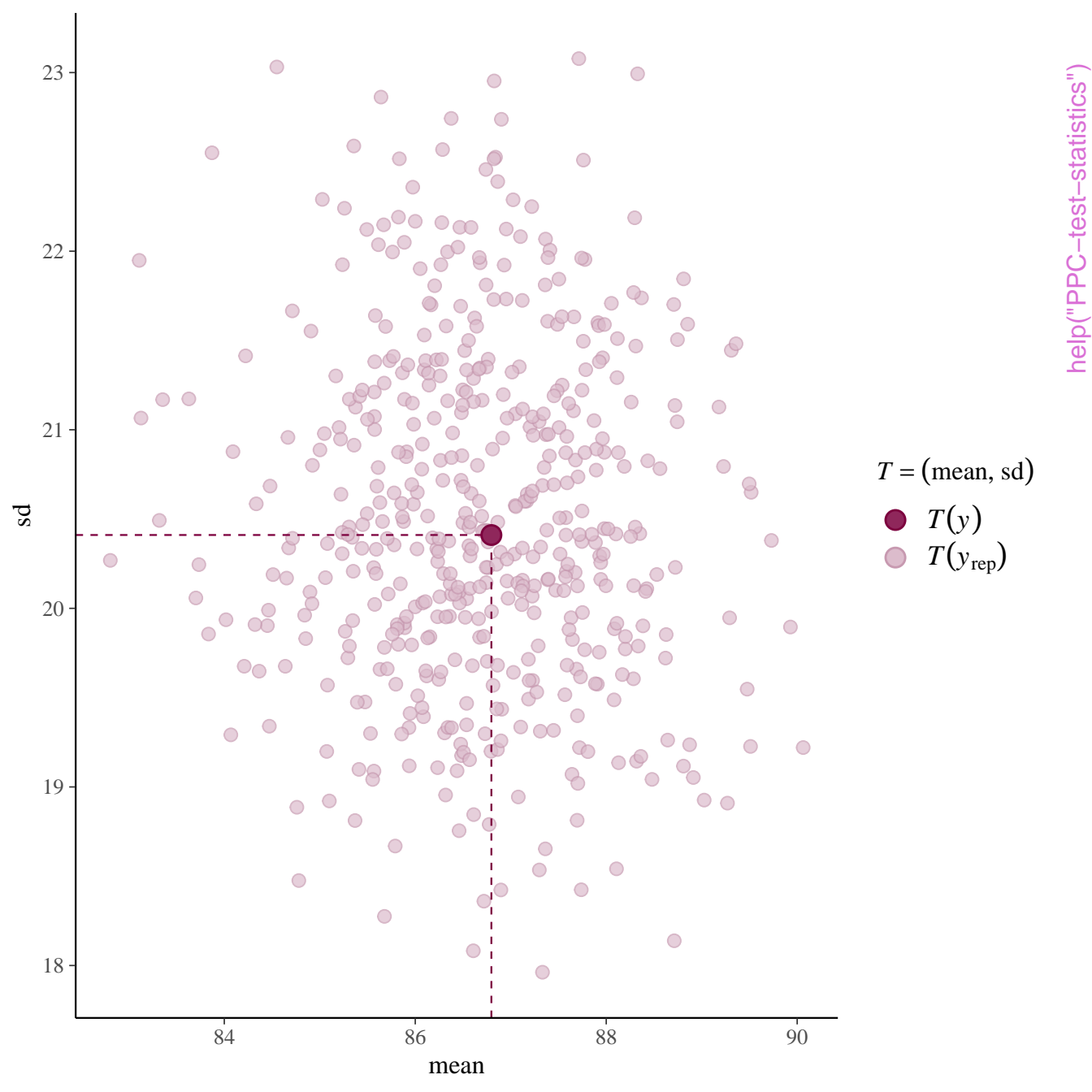
help("PPC-scatterplots")



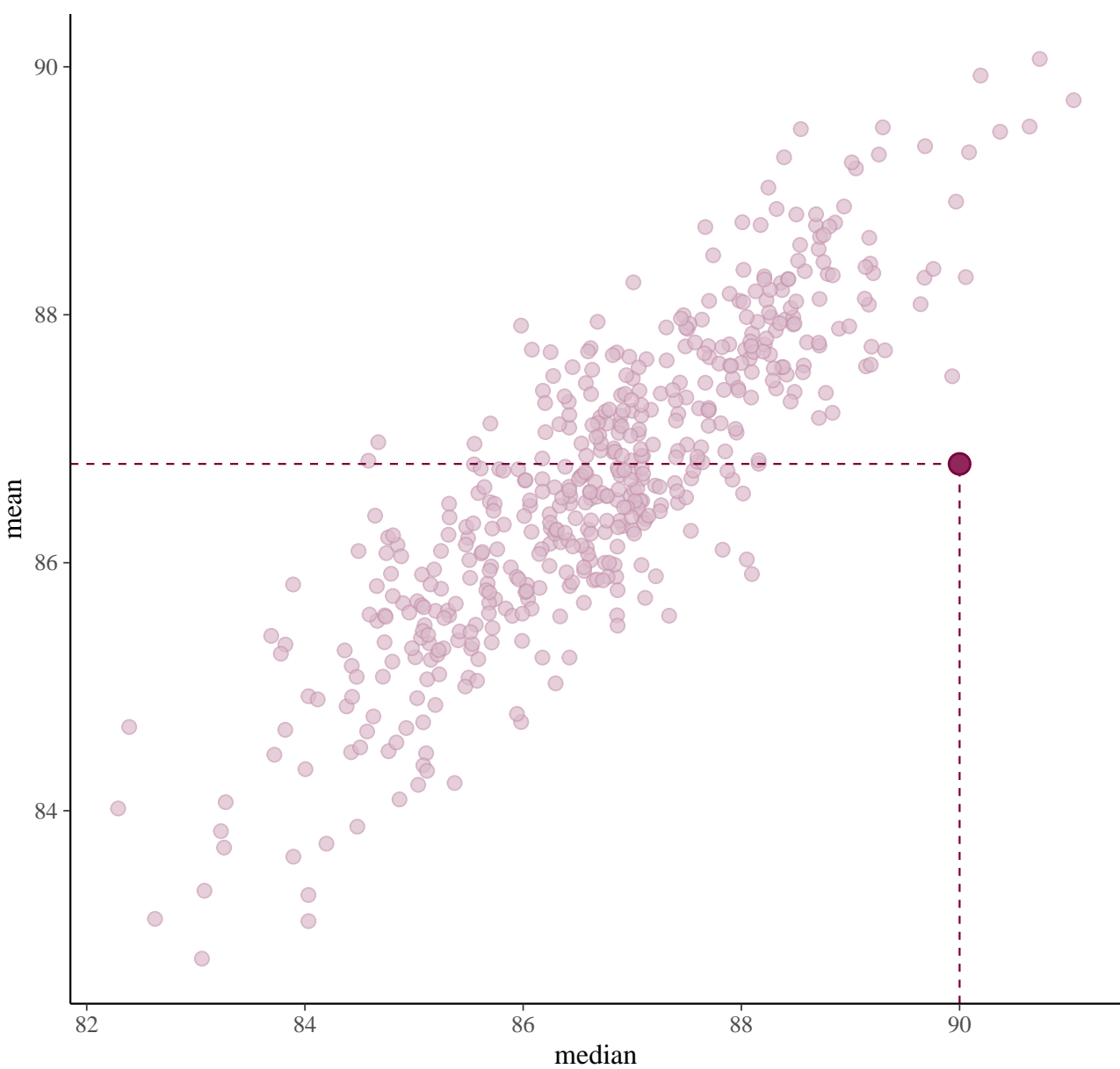
$T = \text{mean}$
 $T(y_{\text{rep}})$
 $T(y)$

help("PPC-test-statistics")



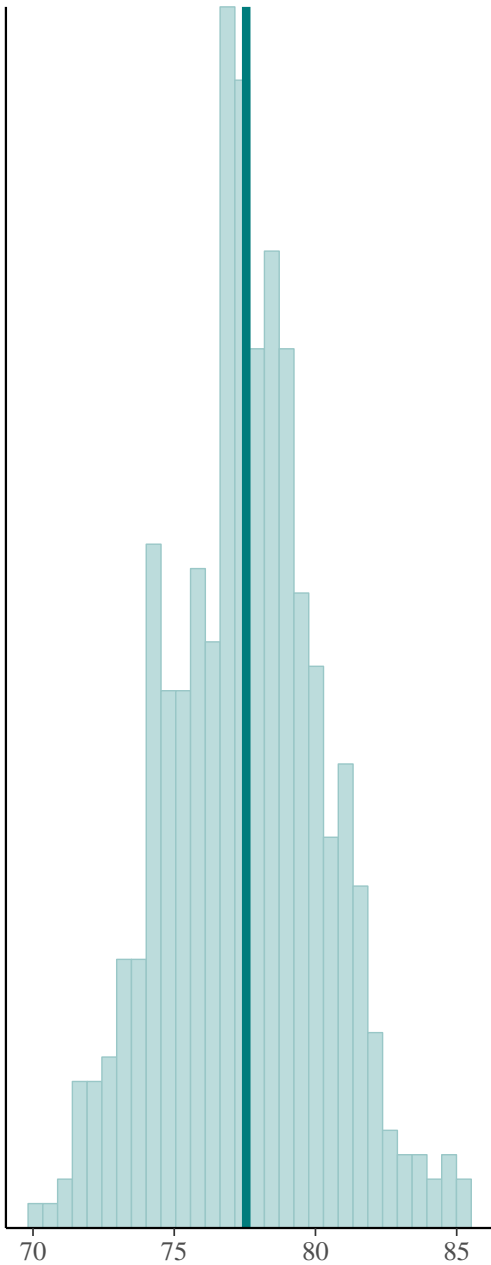


help("PPC-test-statistics")

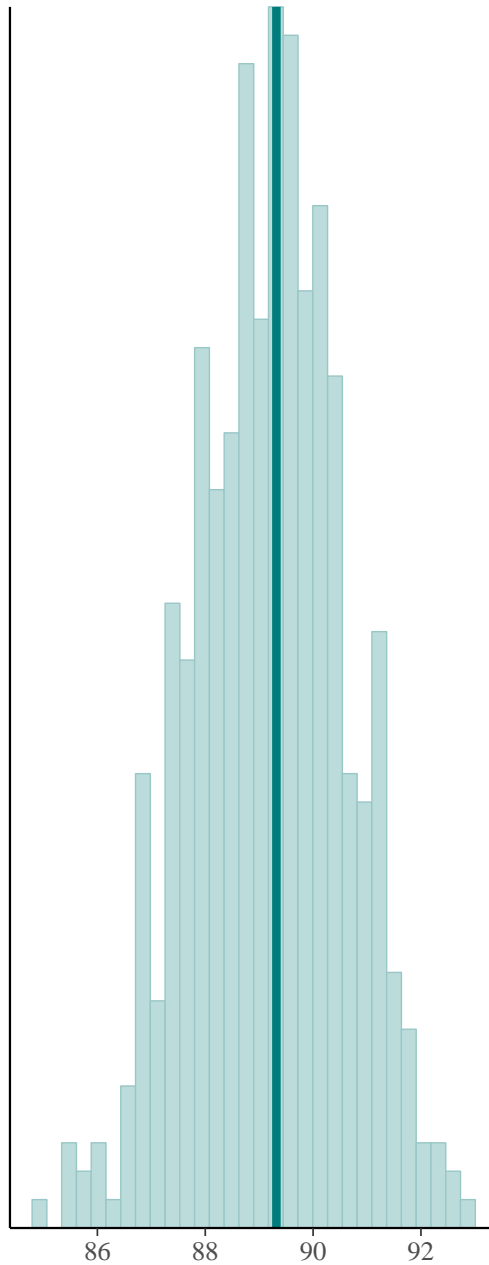


$T = (\text{median}, \text{mean})$ \bullet $T(y)$ \bullet $T(y_{\text{rep}})$

GroupA

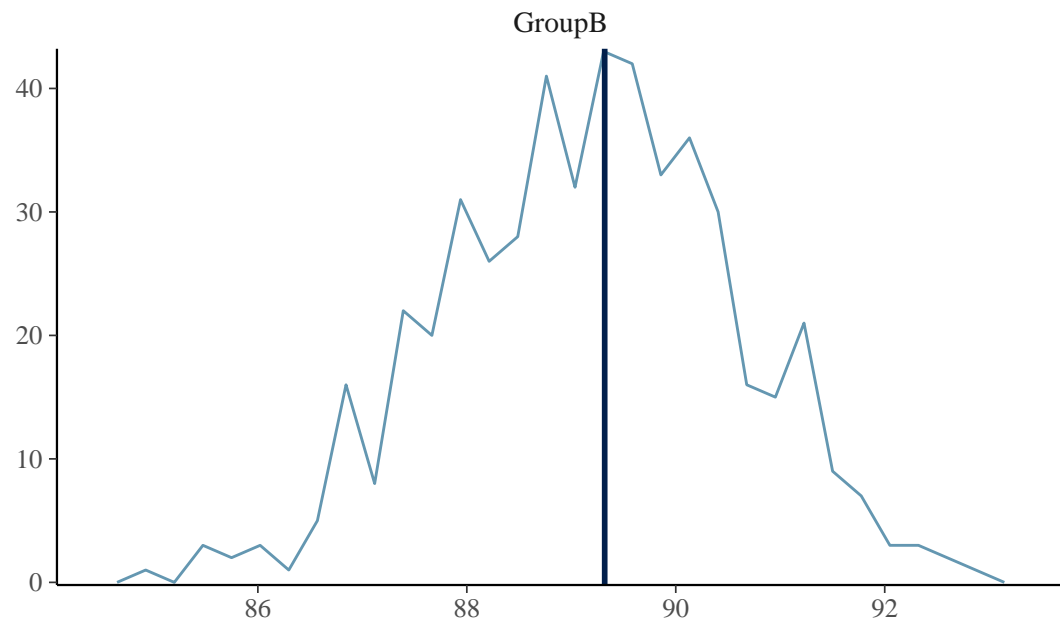
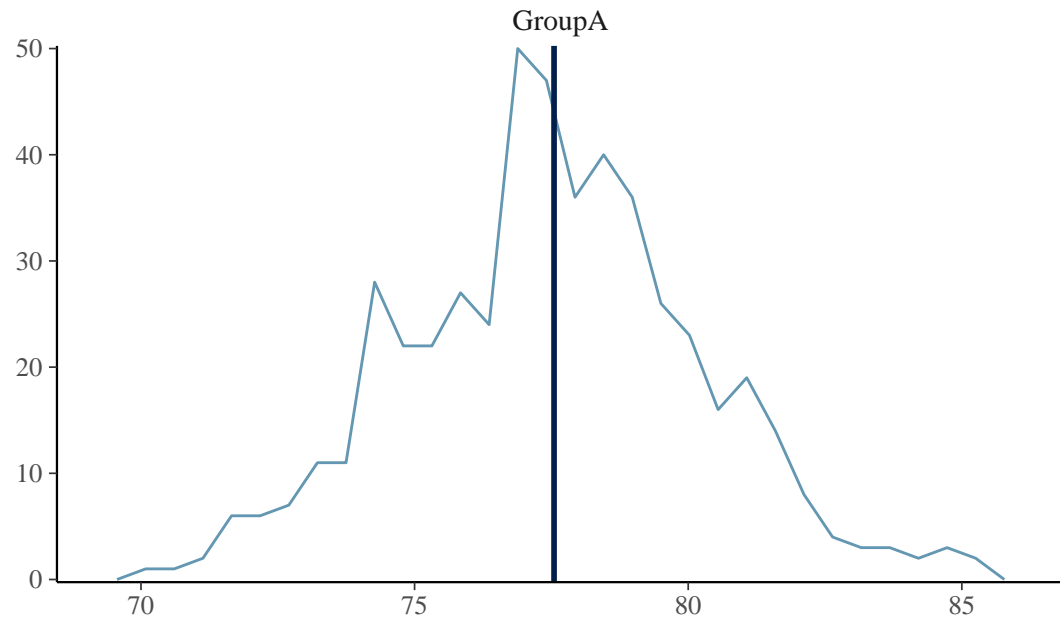


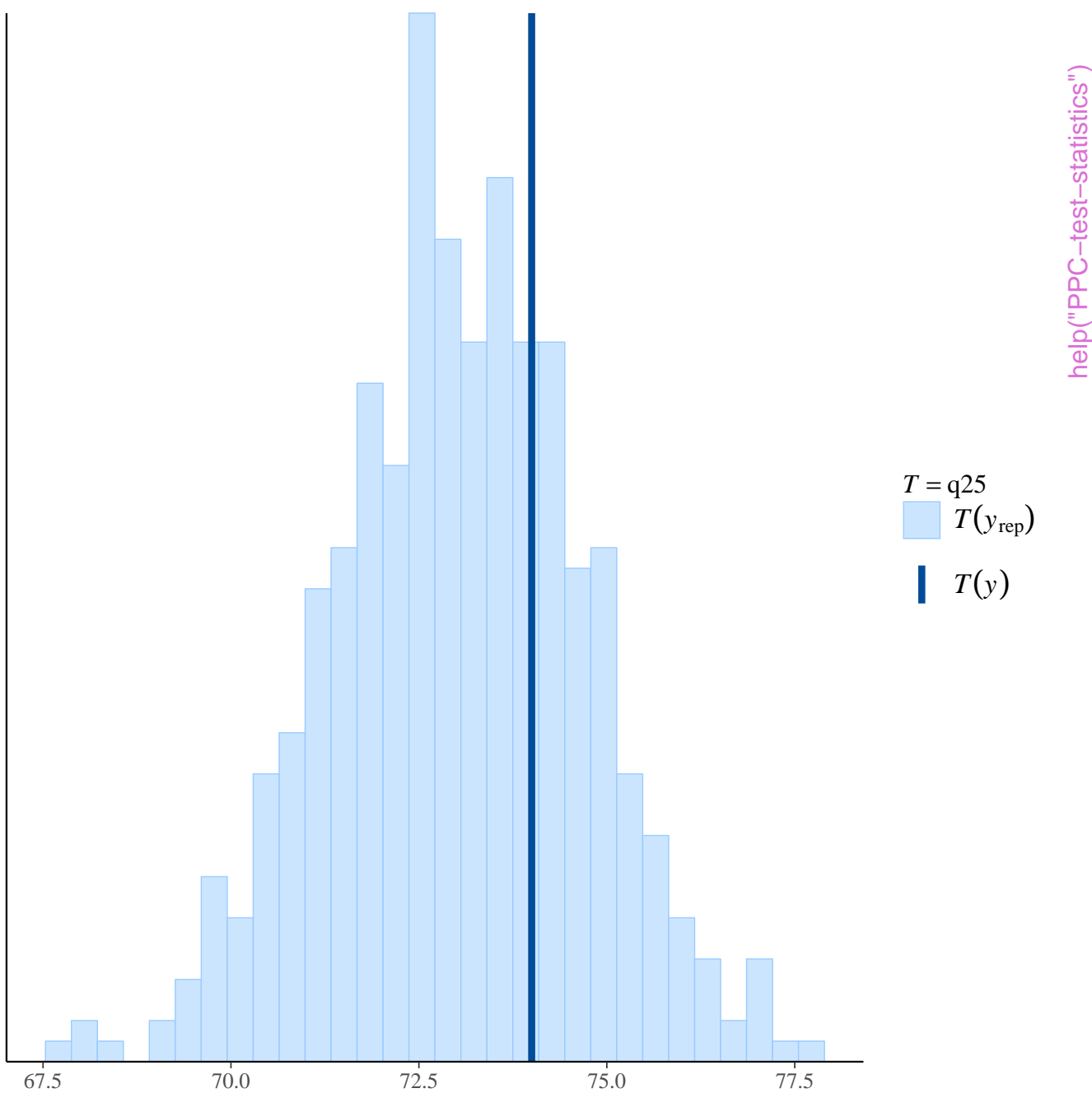
GroupB

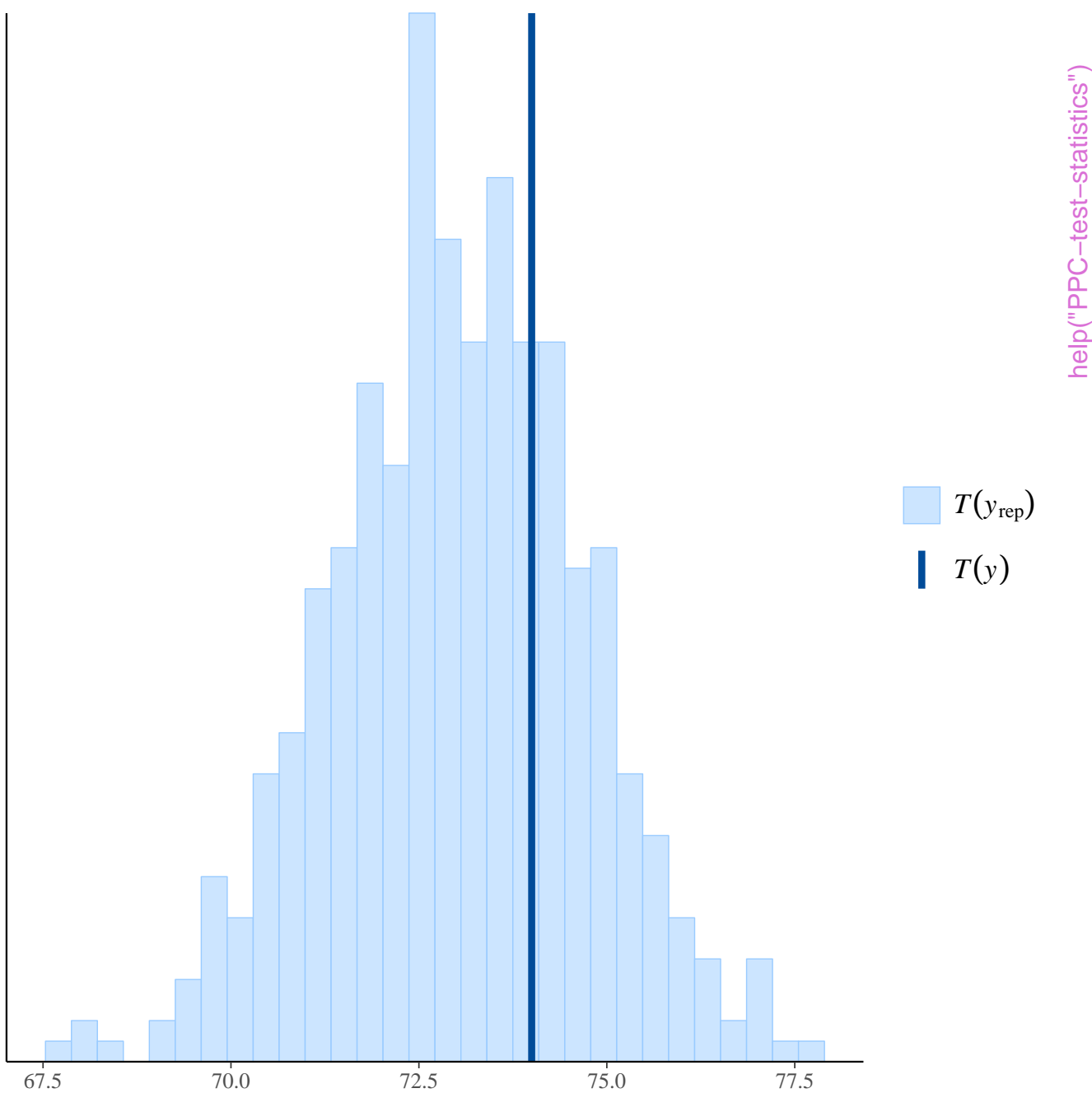


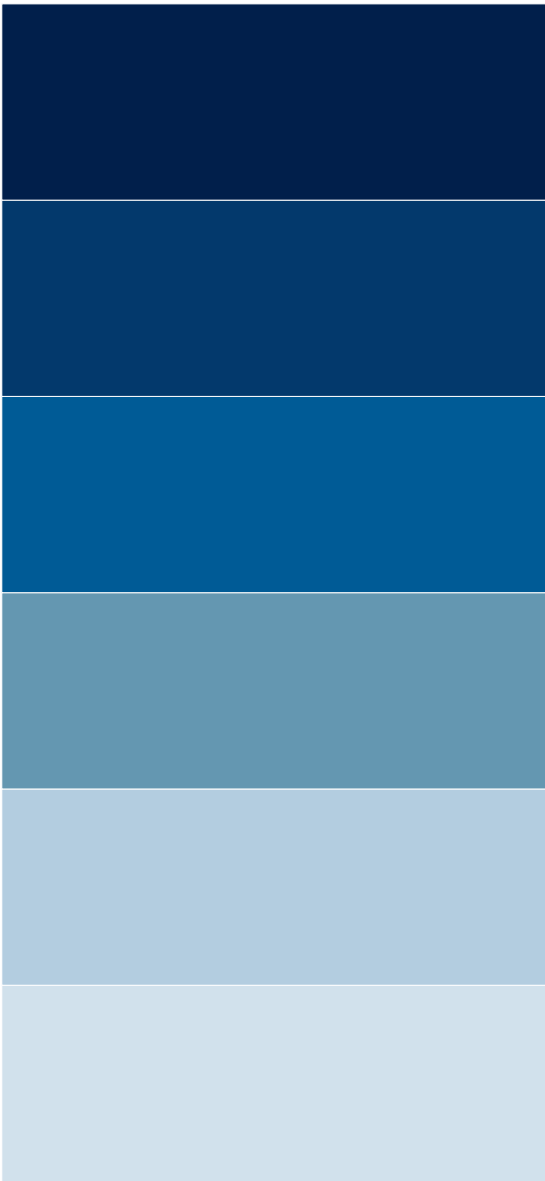
$T = \text{mean}$
 $T(y_{\text{rep}})$
 $T(y)$

help("PPC-test-statistics")

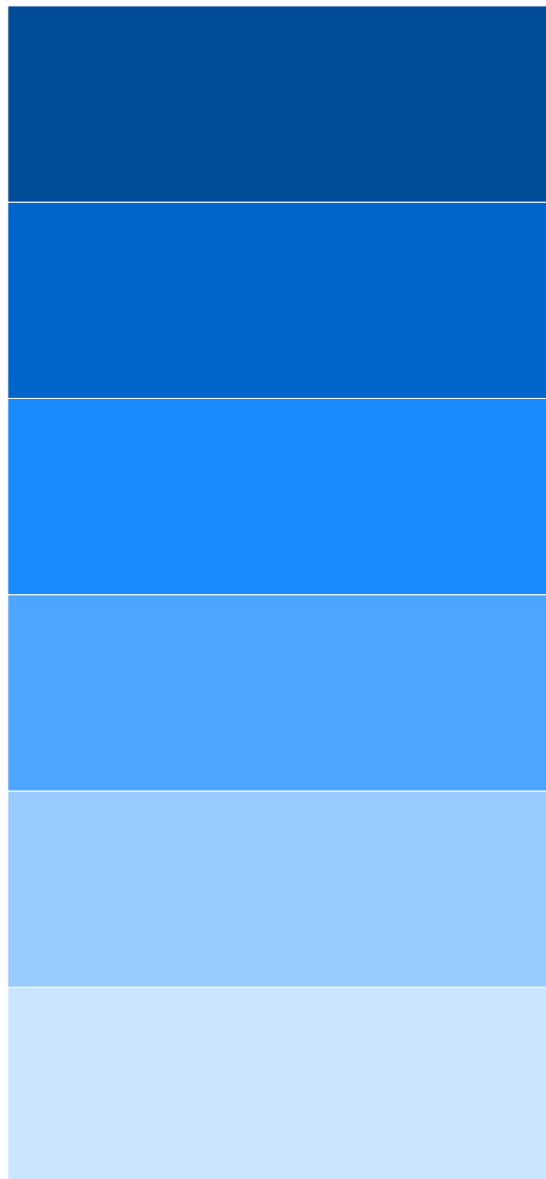






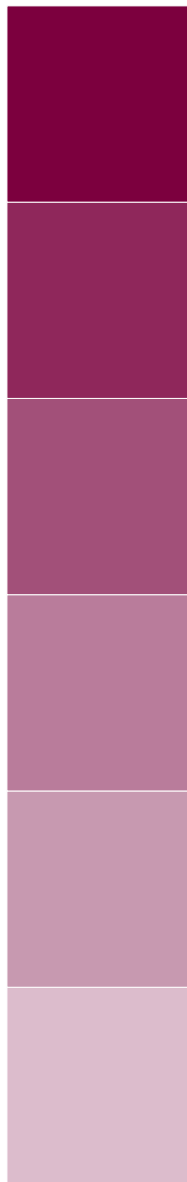


`help("bayesplot-colors")`



brightblue

help("bayesplot-colors")



pink



gray



teal

help("bayesplot-colors")



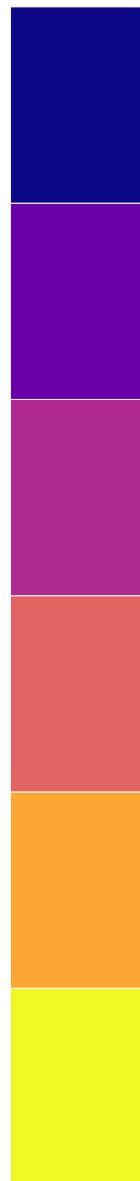
viridis



viridisA

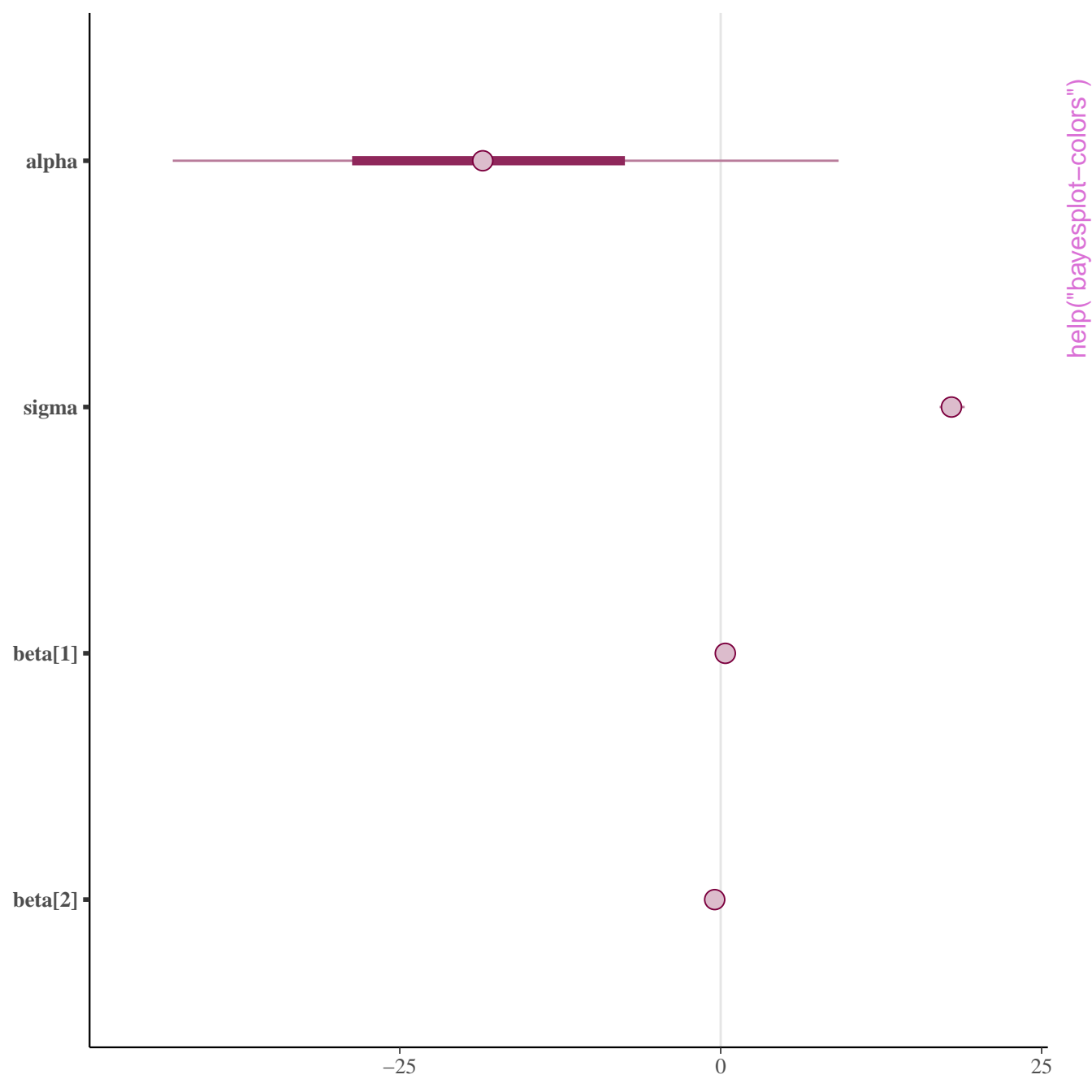


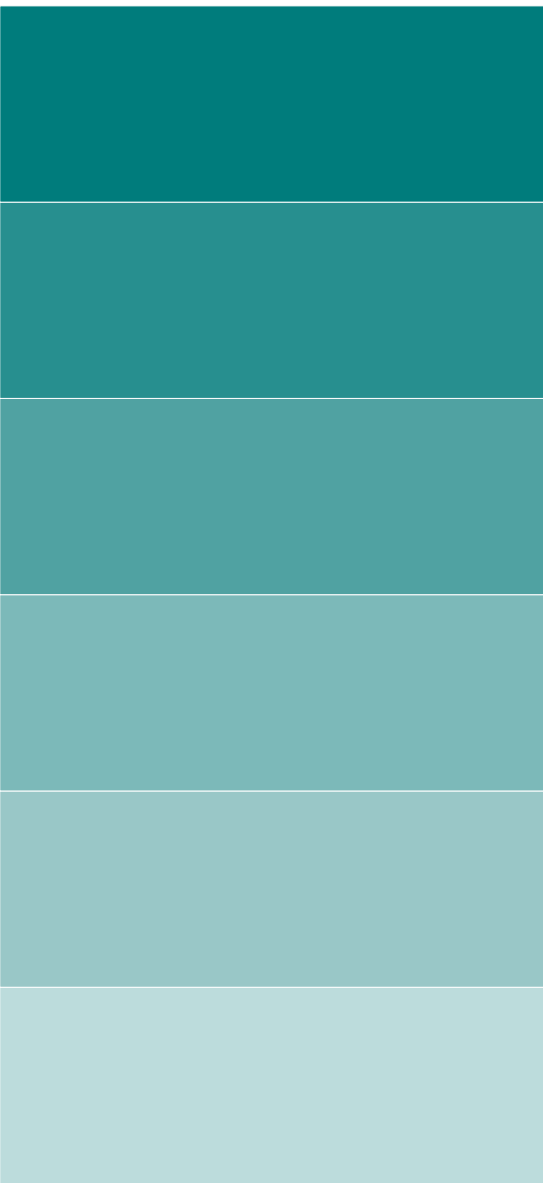
viridisB



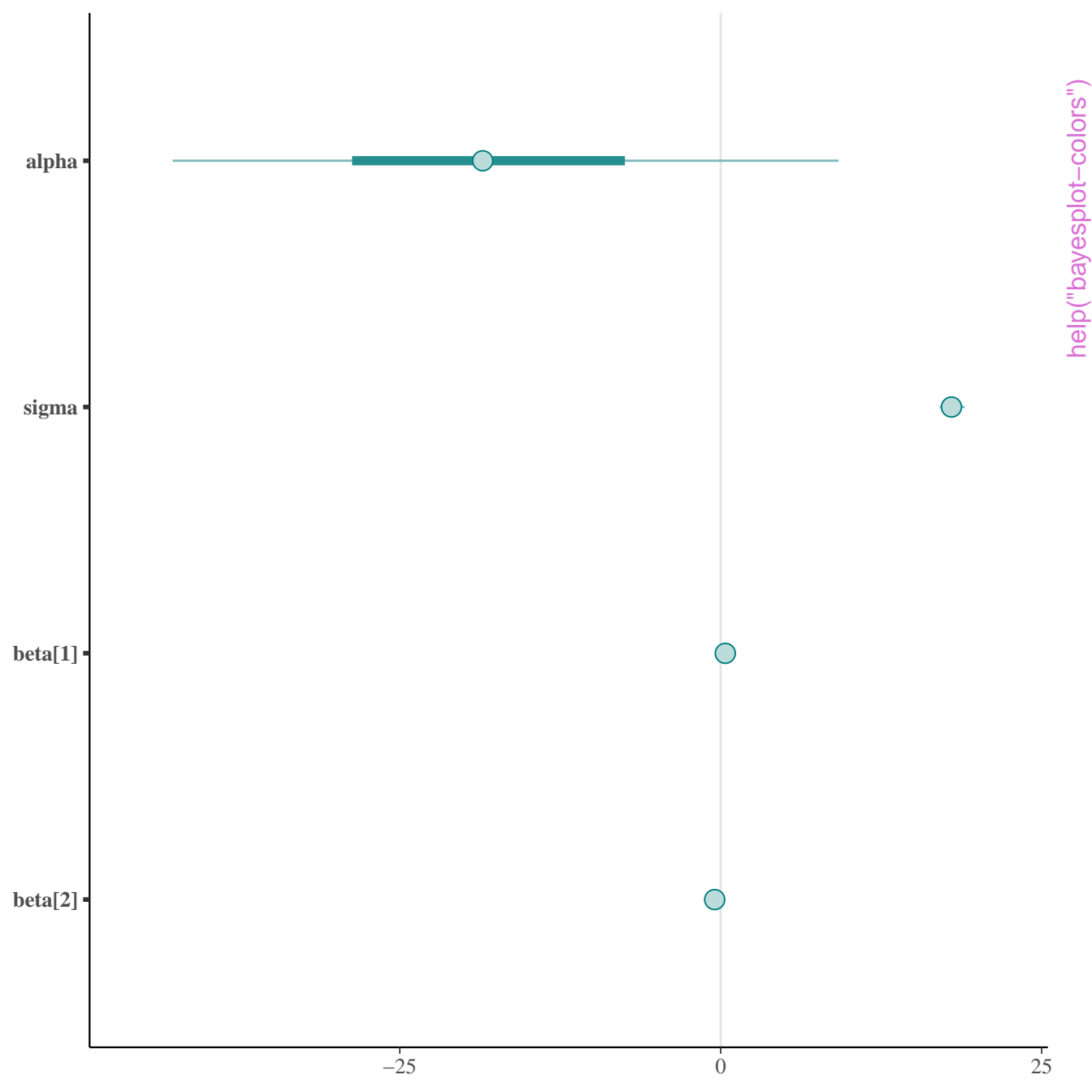
viridisC

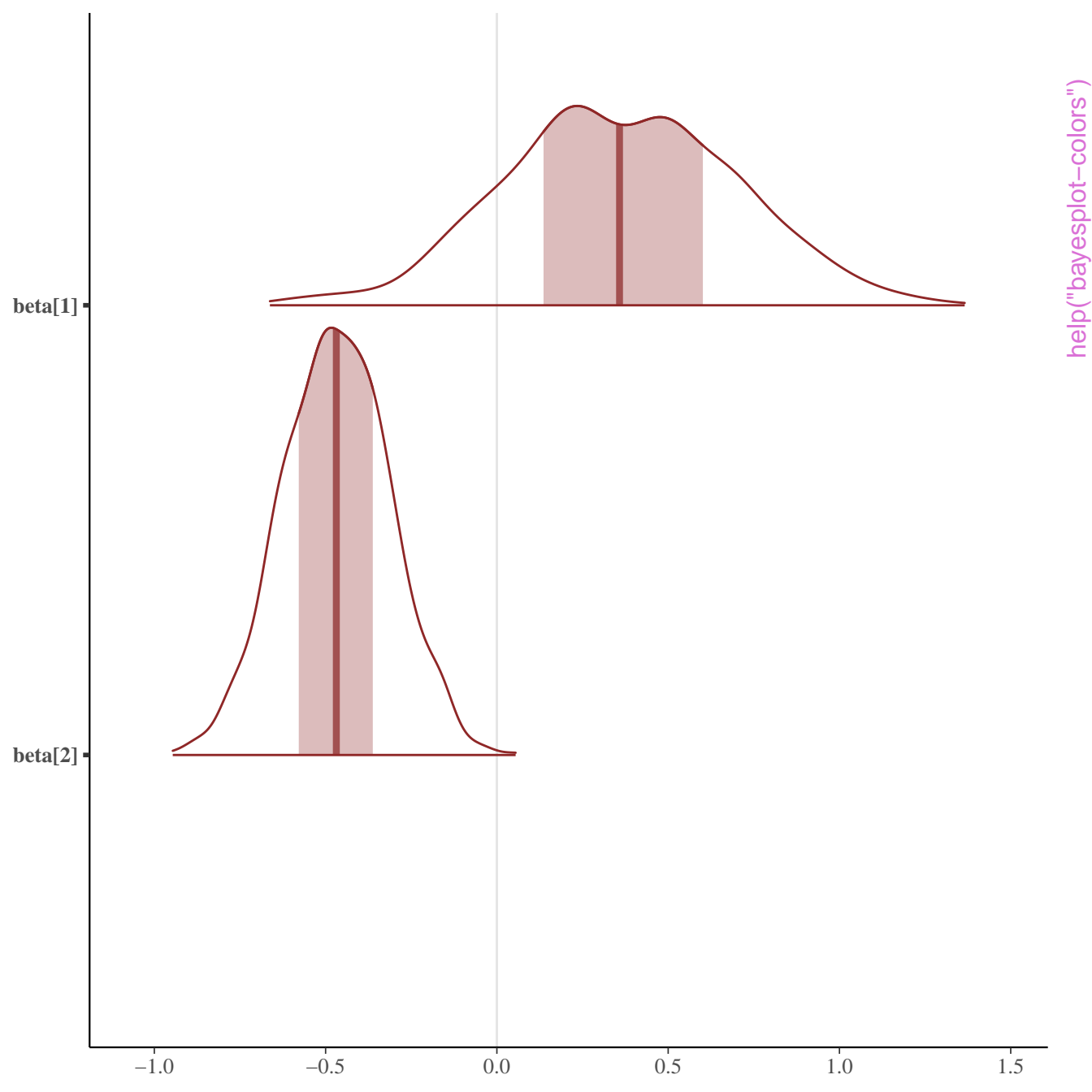
help("bayesplot-colors")

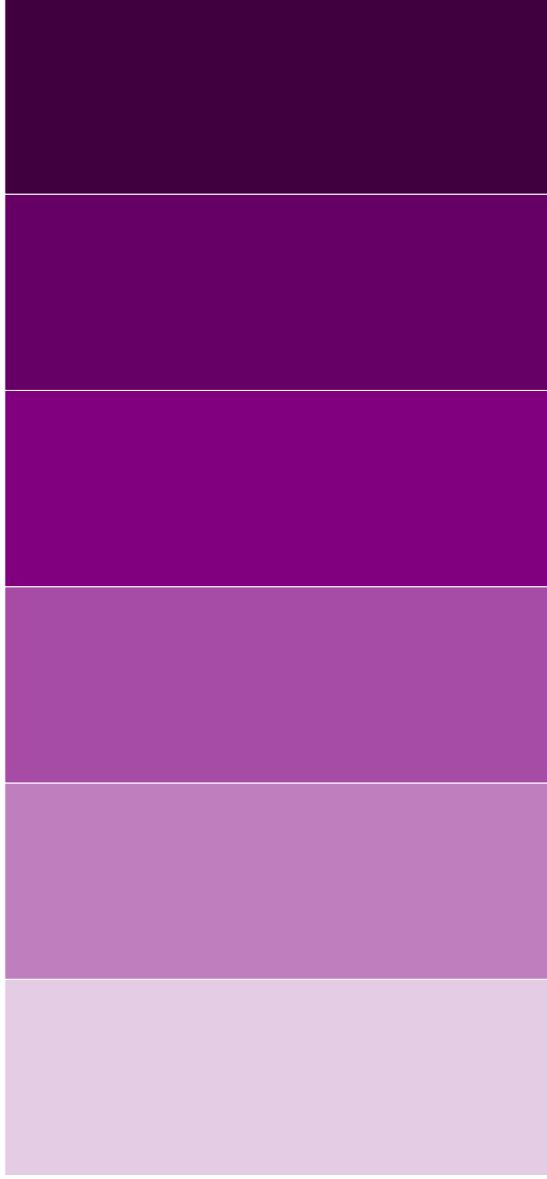




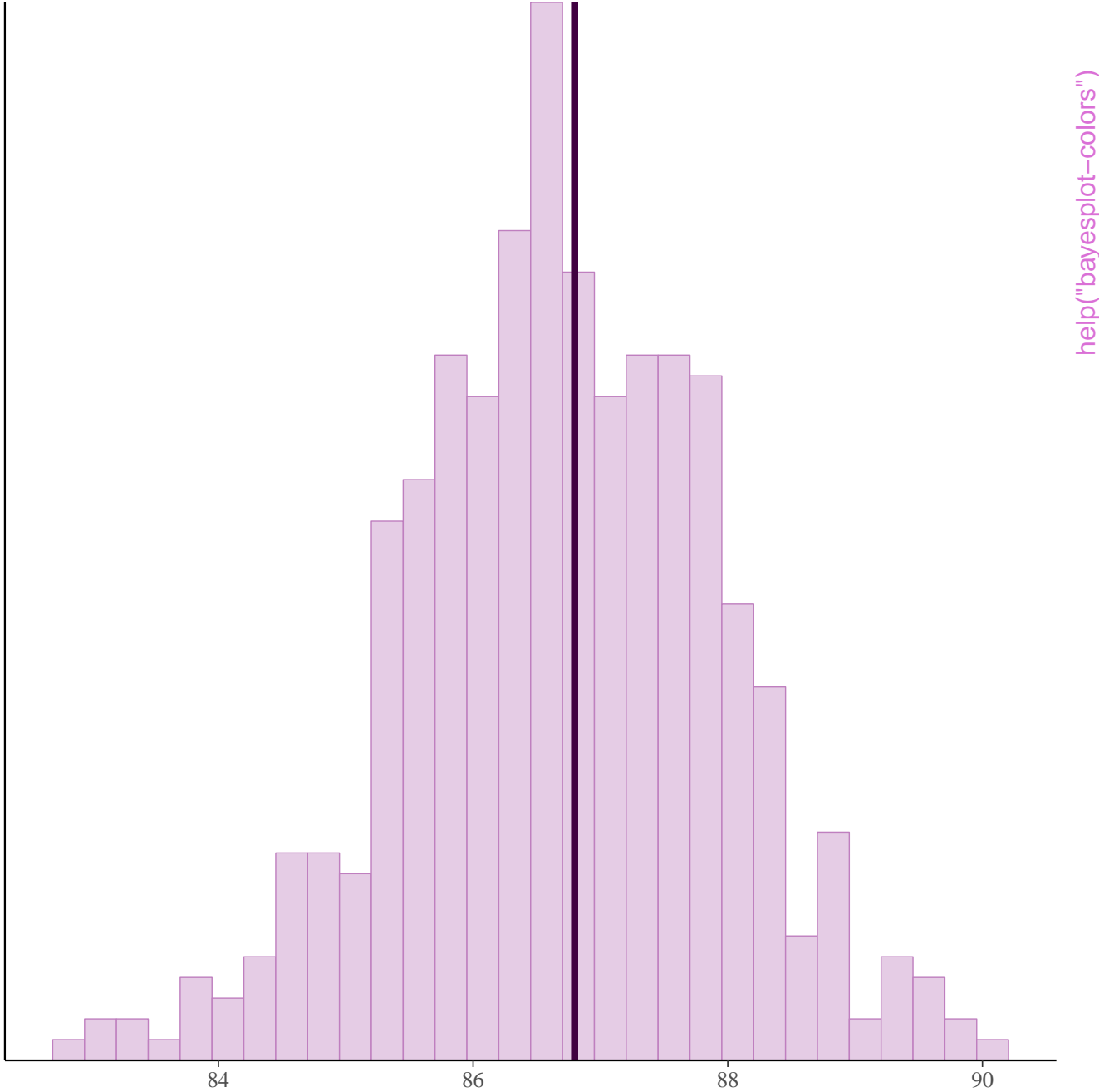
`help("bayesplot-colors")`







`help("bayesplot-colors")`



alpha

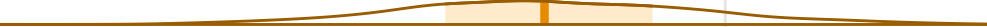
-60

-30

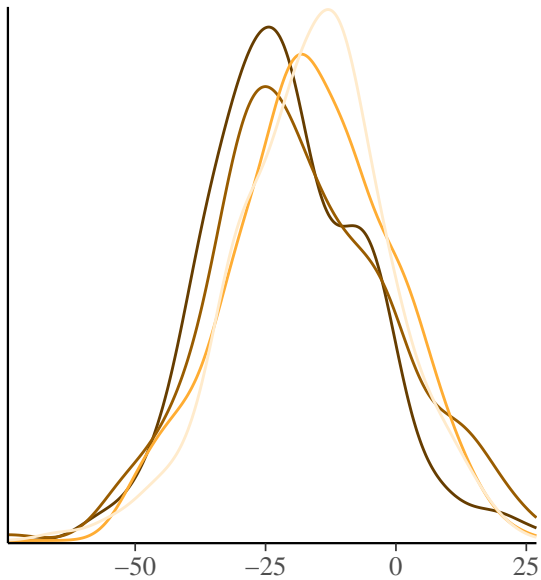
0

30

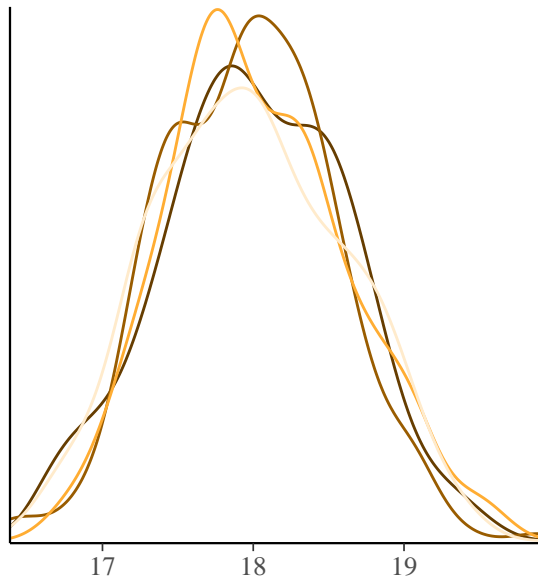
help("bayesplot-colors")



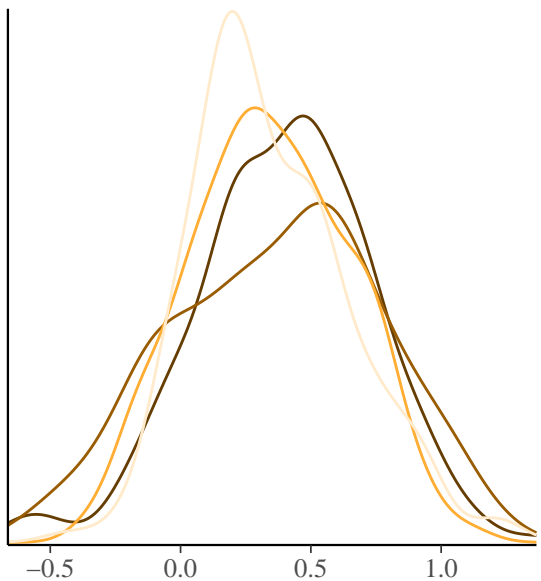
alpha



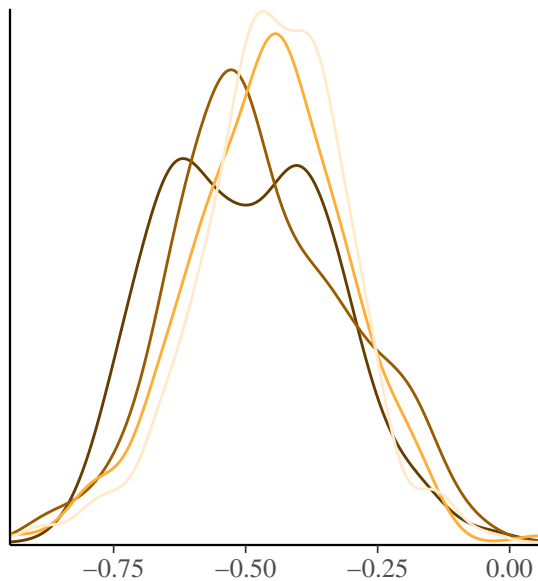
sigma



beta[1]



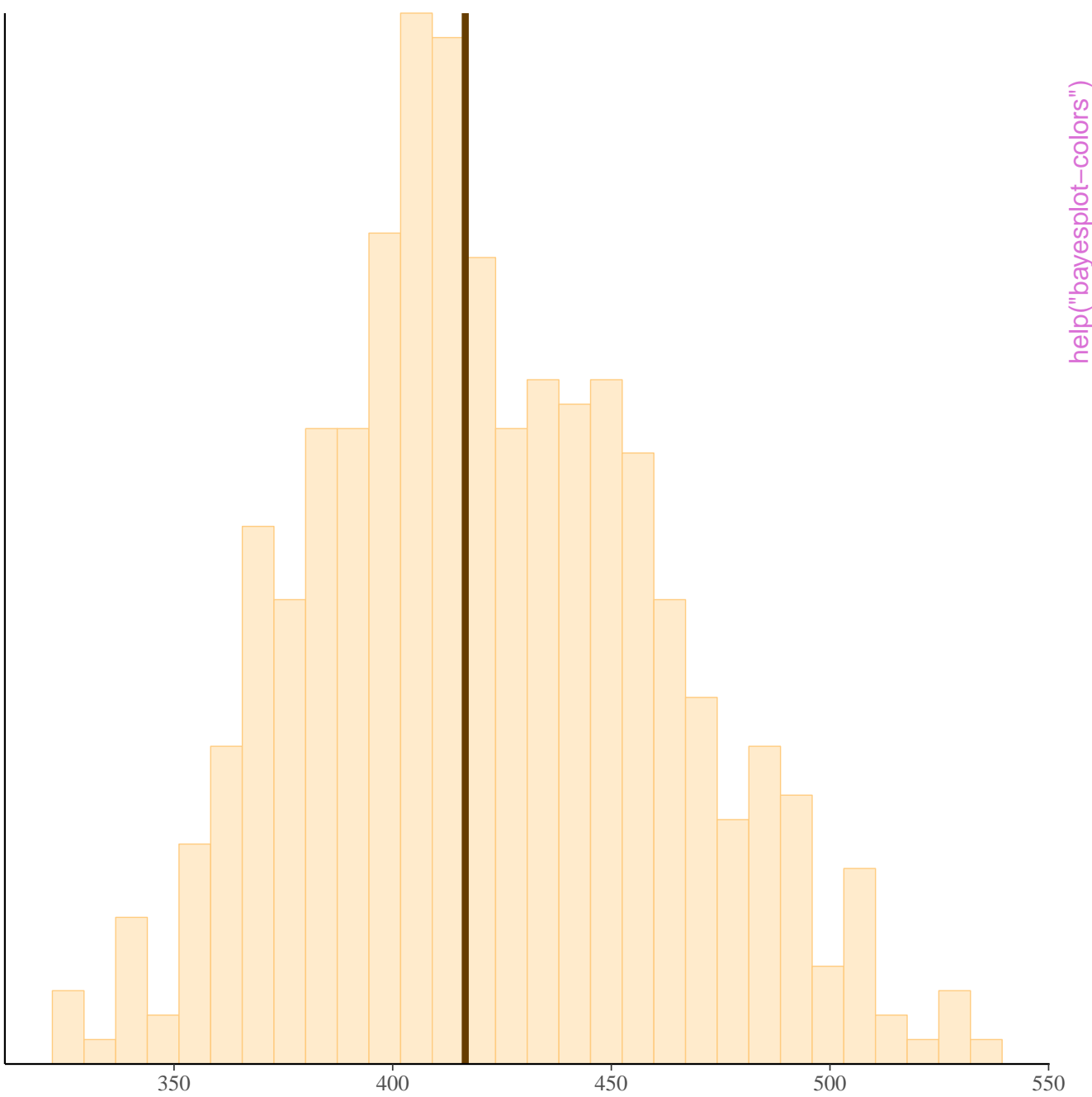
beta[2]

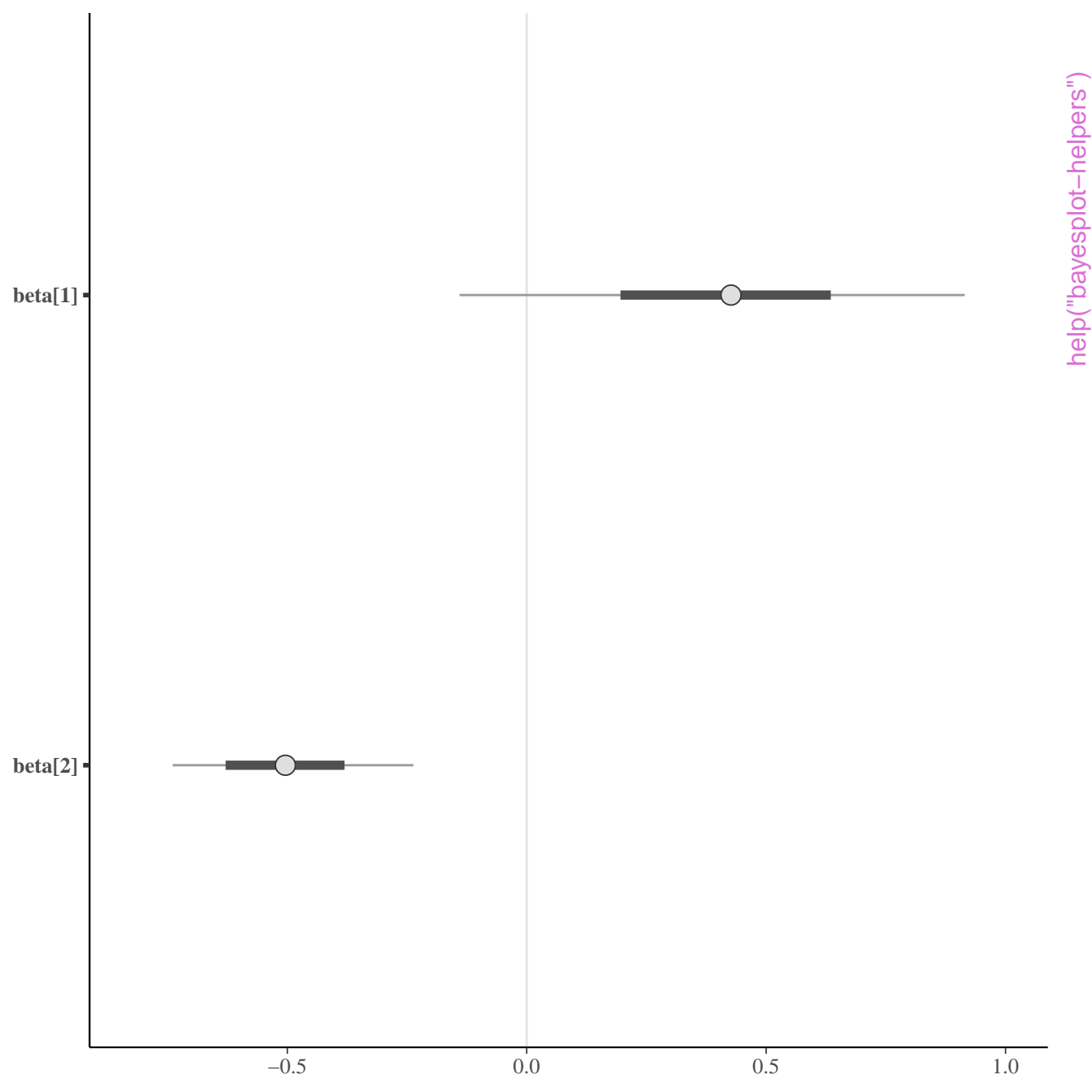


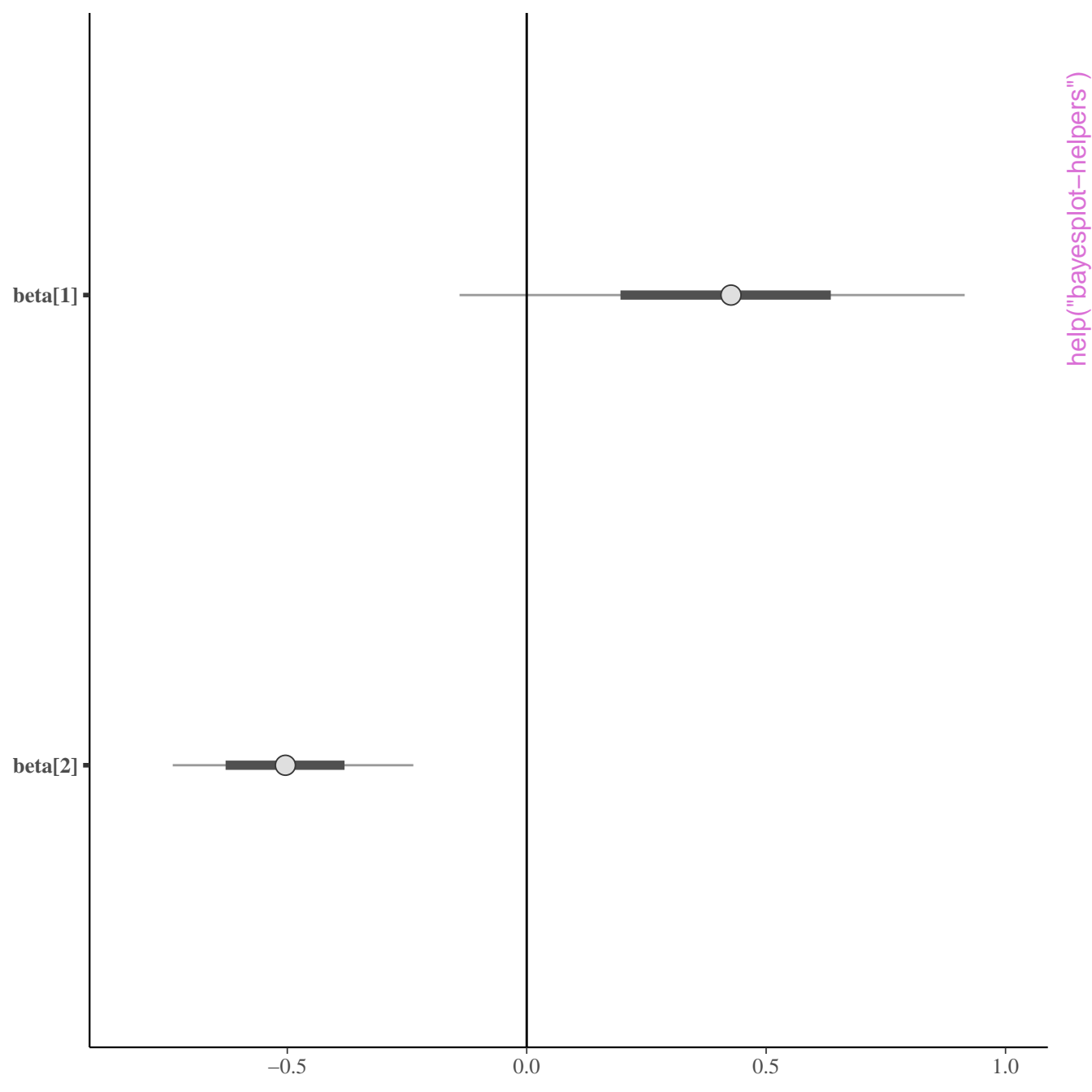
Chain

- 1
- 2
- 3
- 4

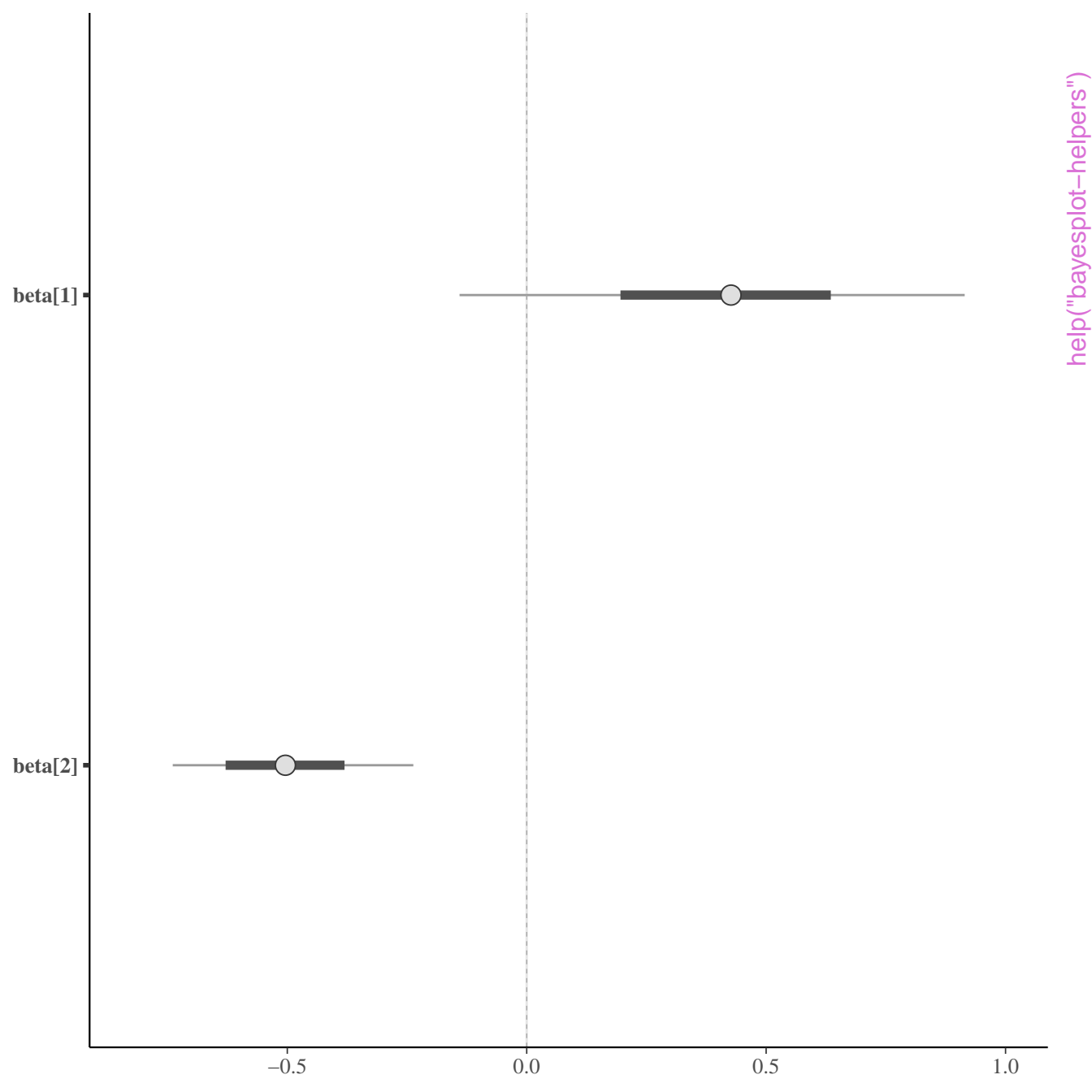
help("bayesplot-colors")

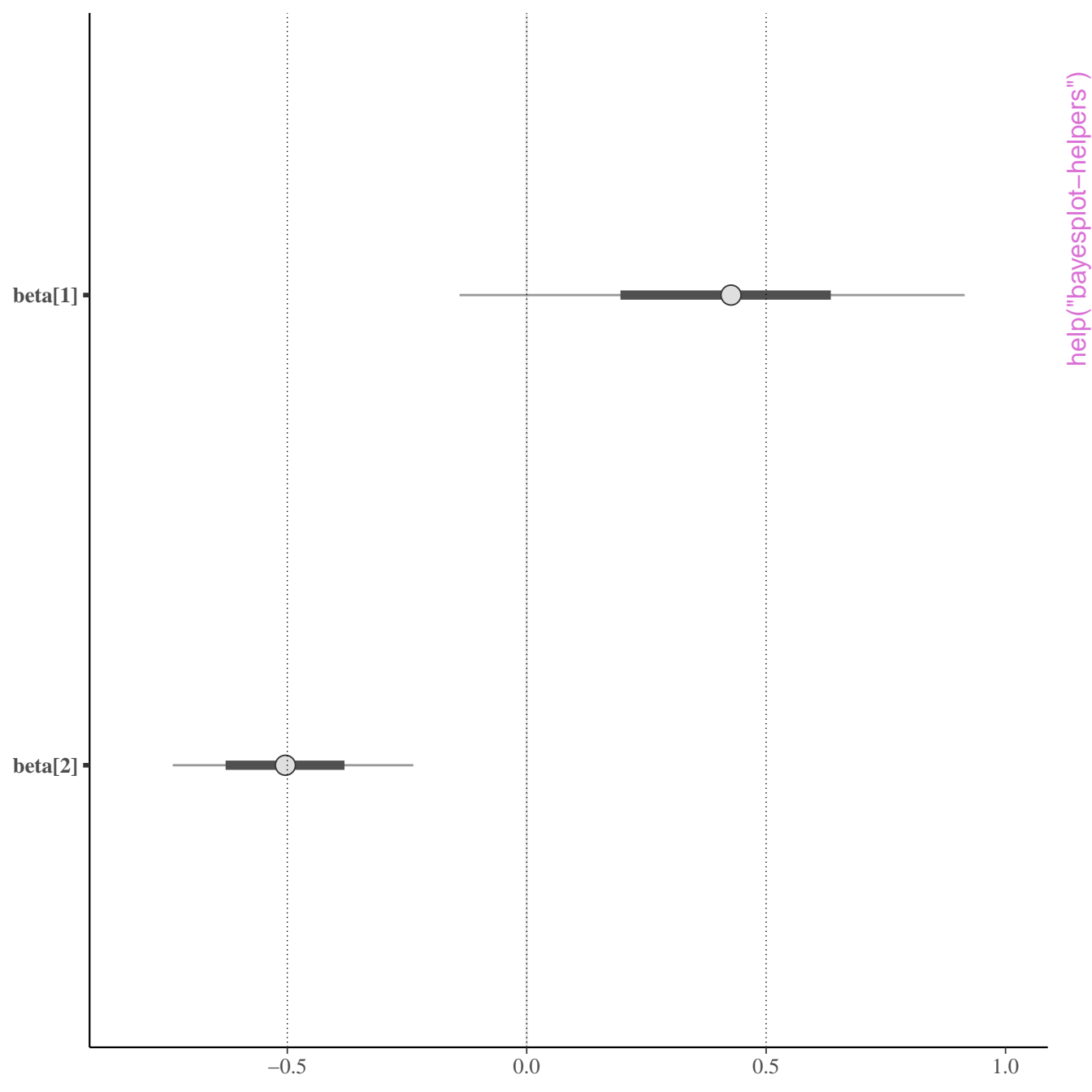


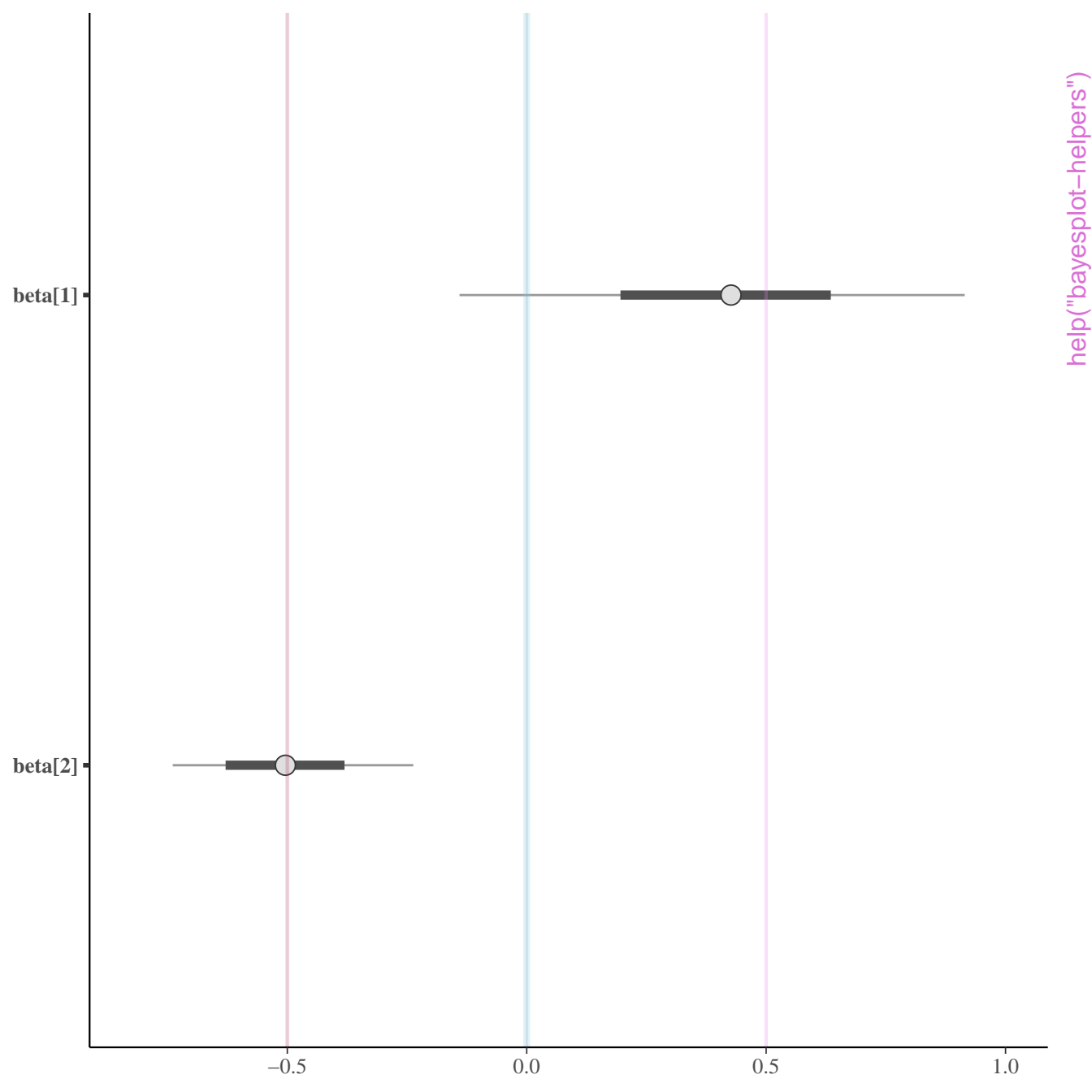


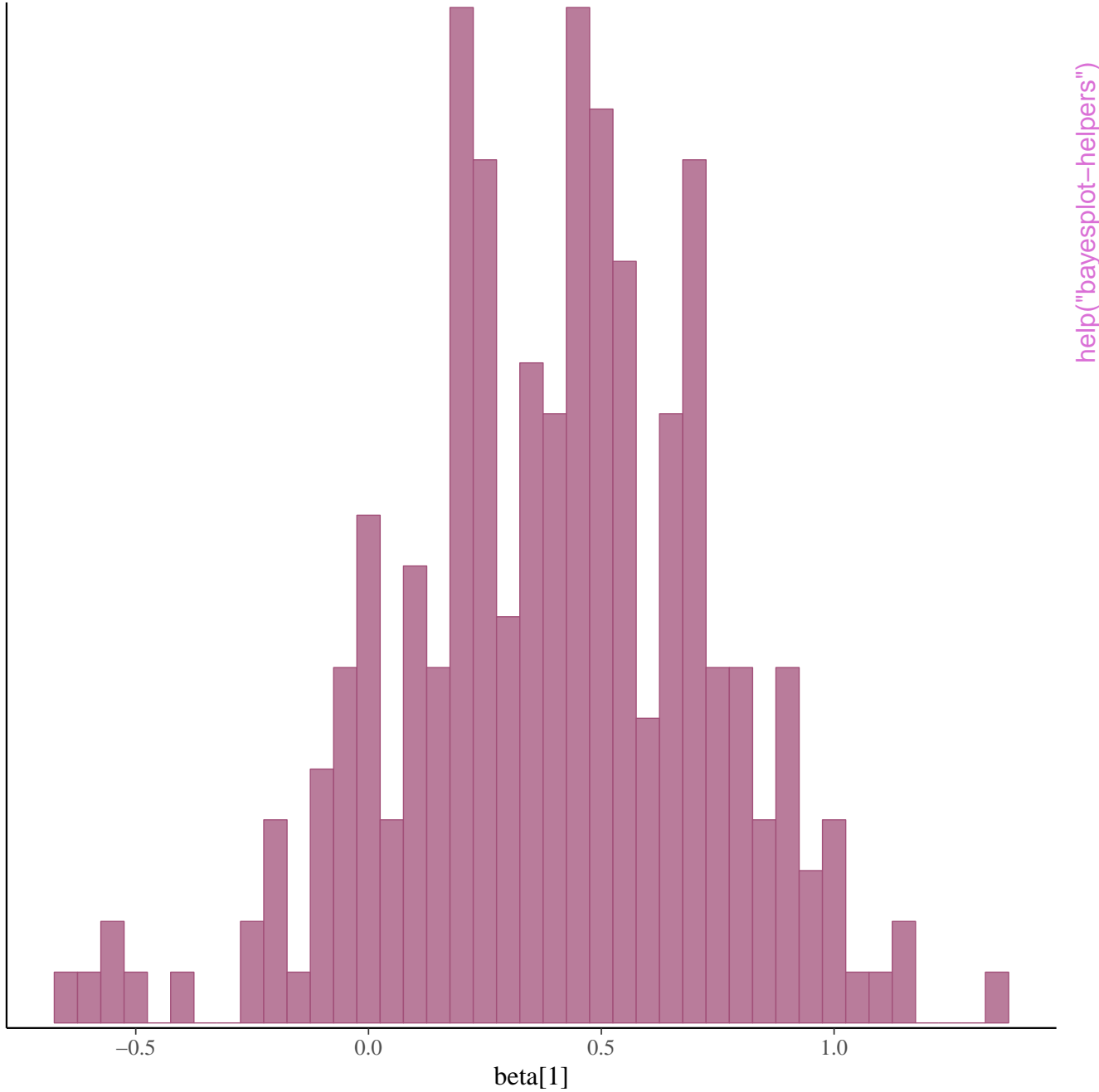


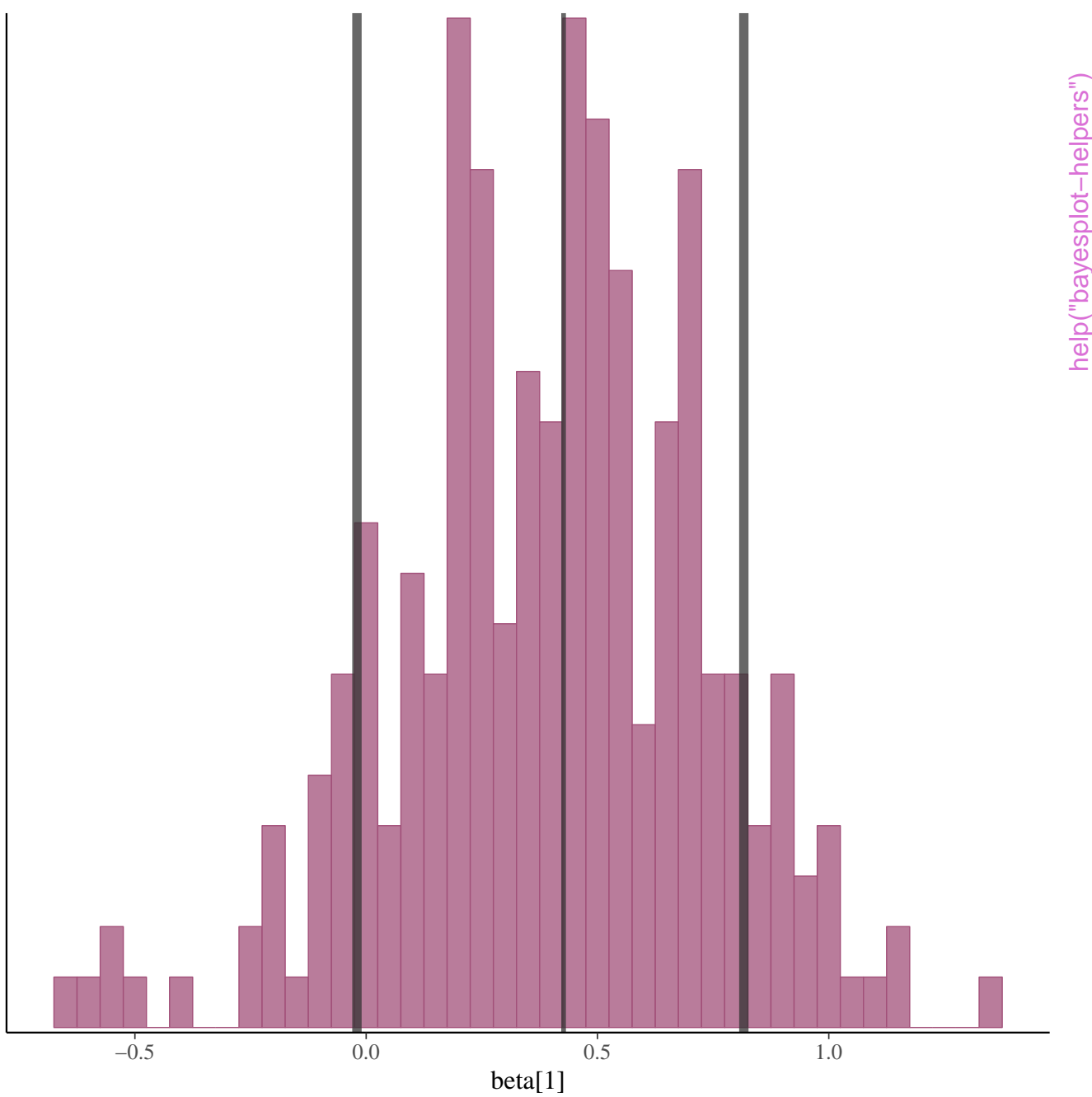
help("bayesplot-helpers")

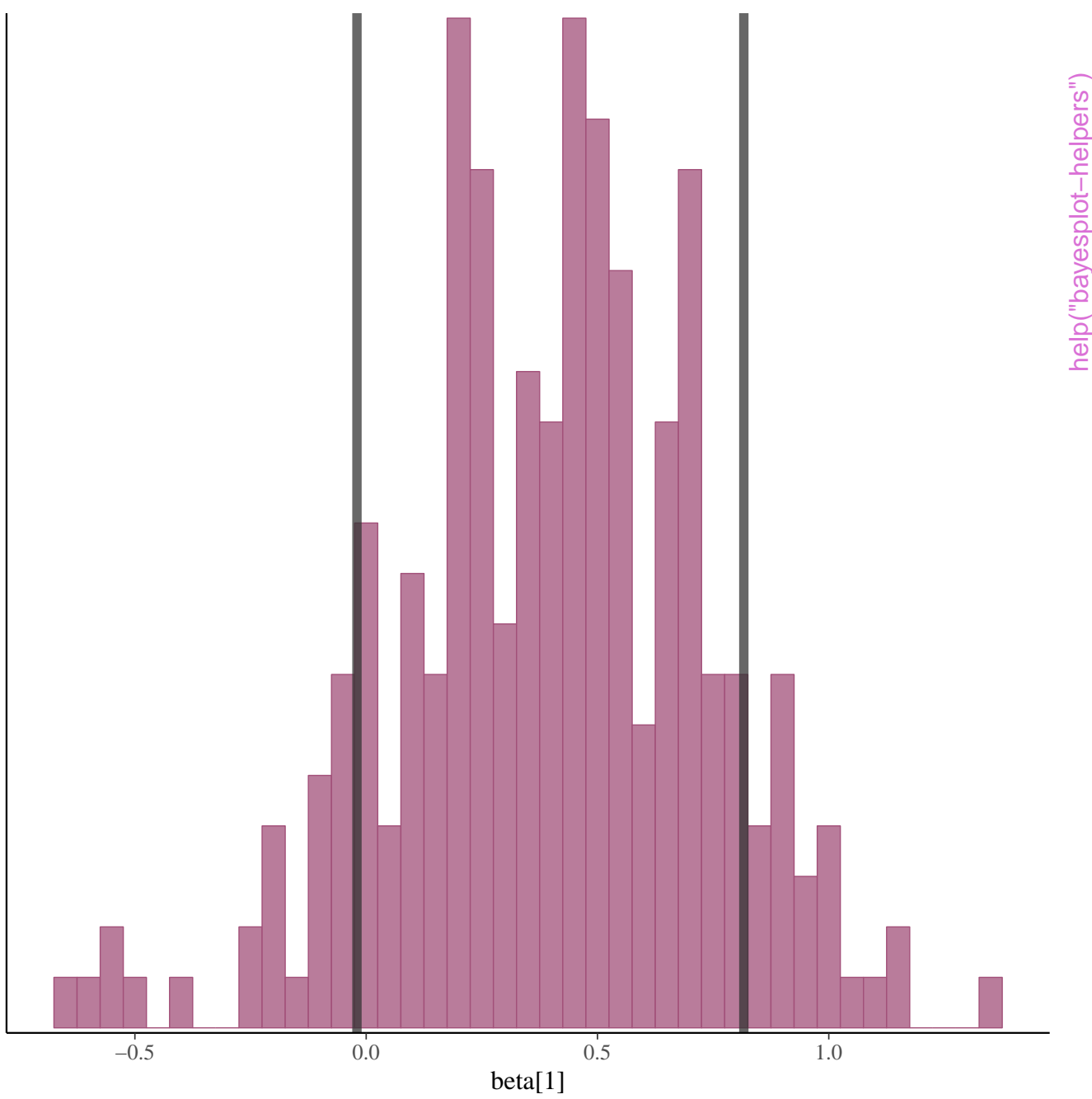


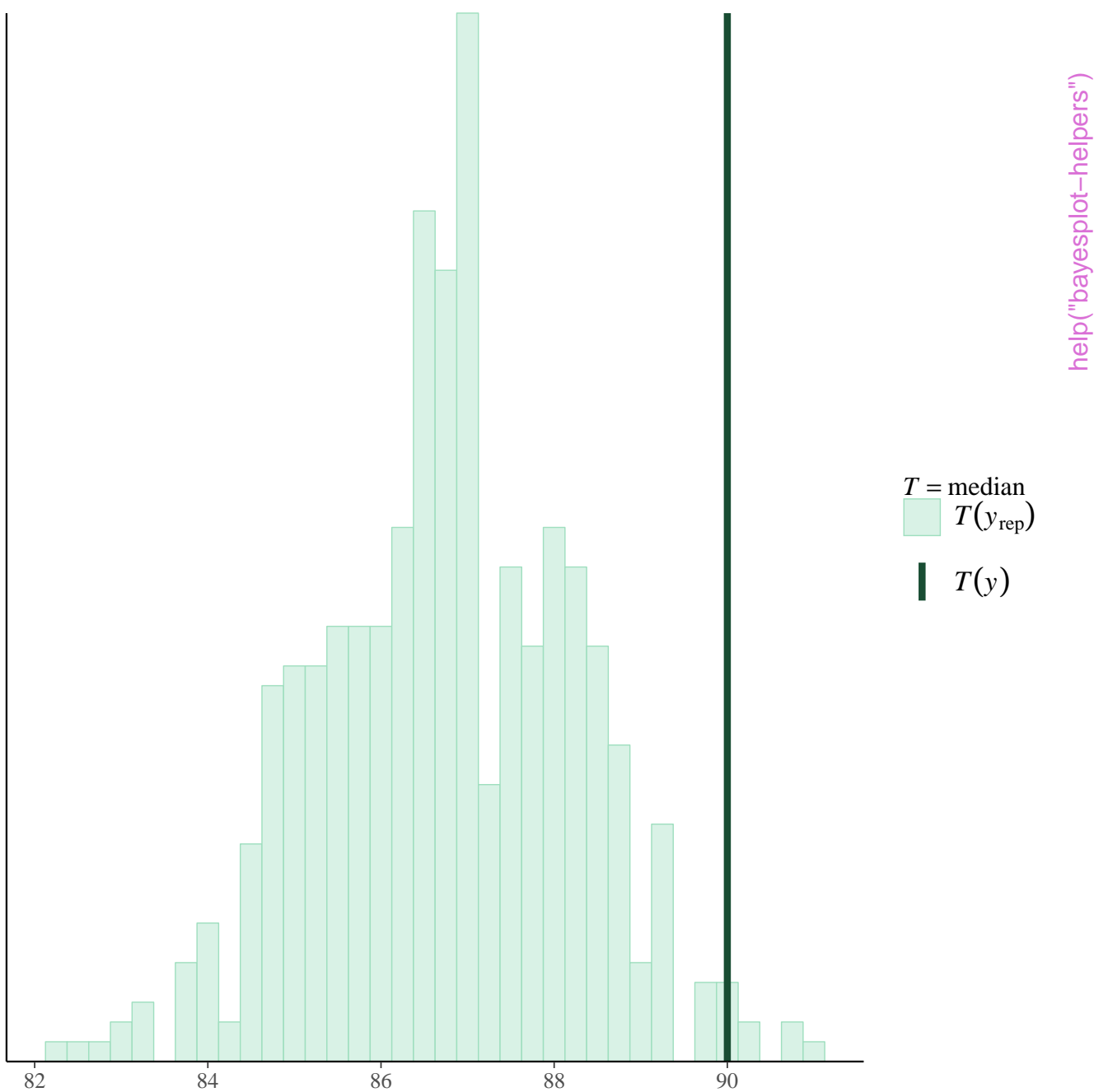


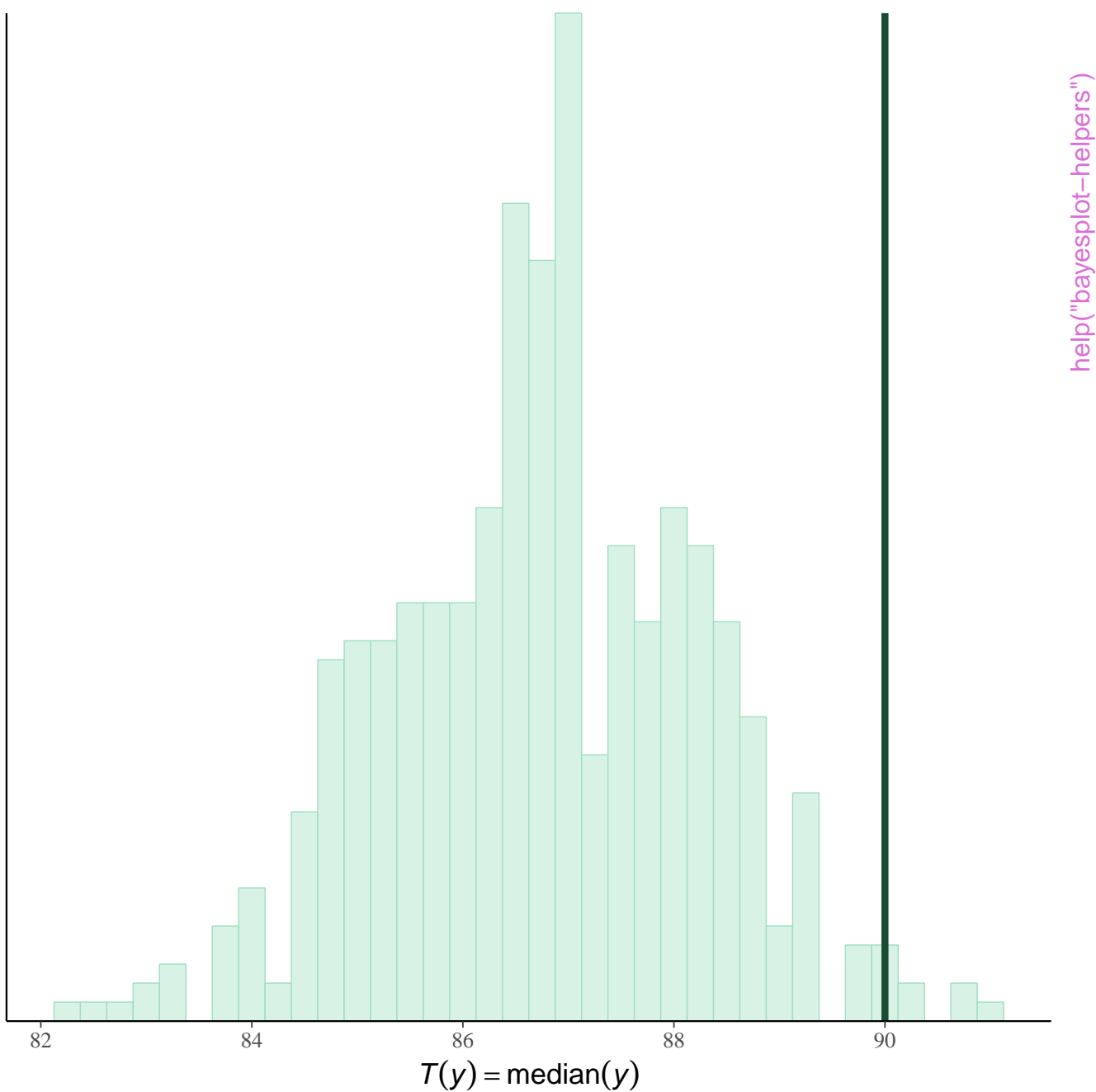




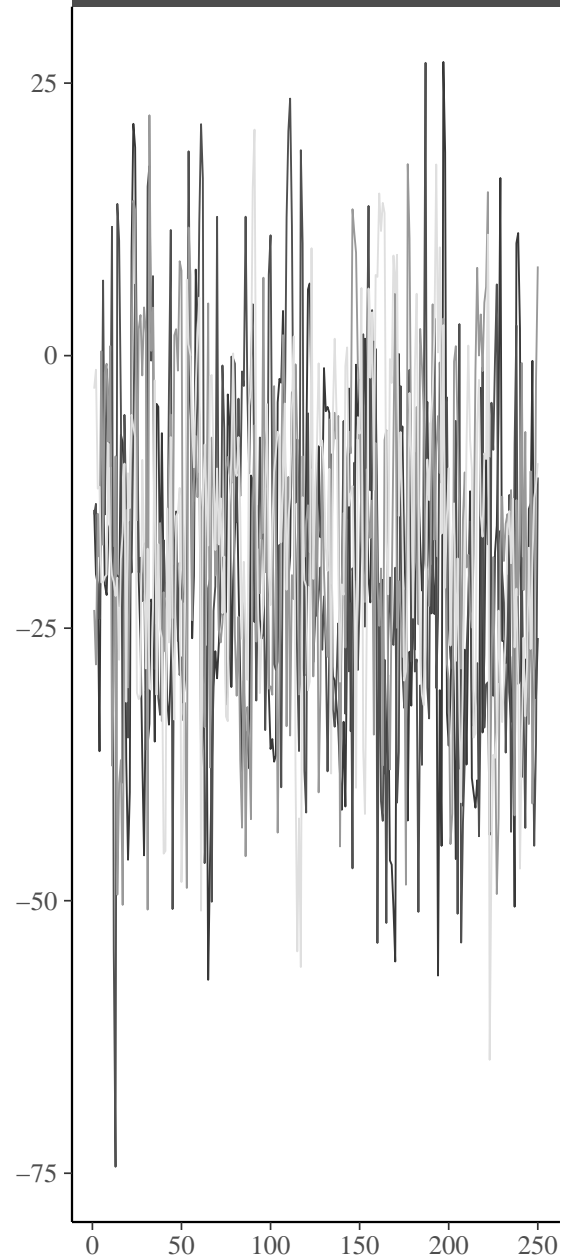




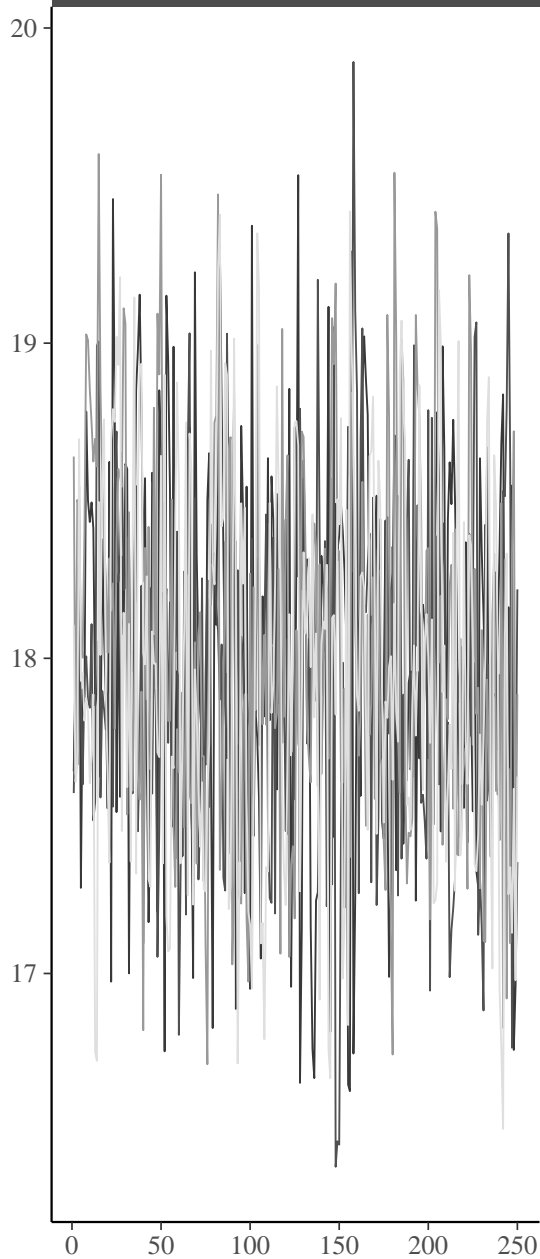




alpha



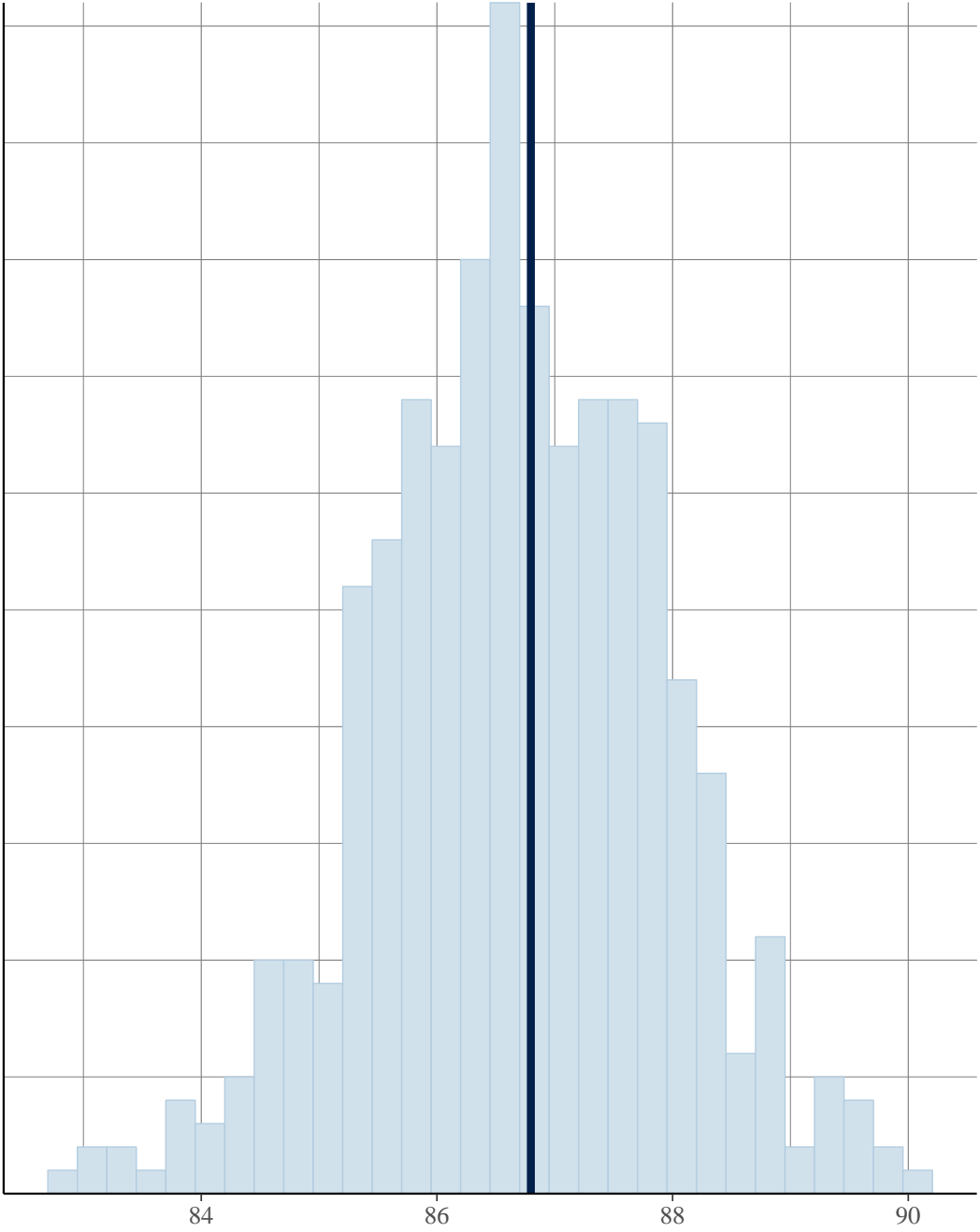
sigma



Chain

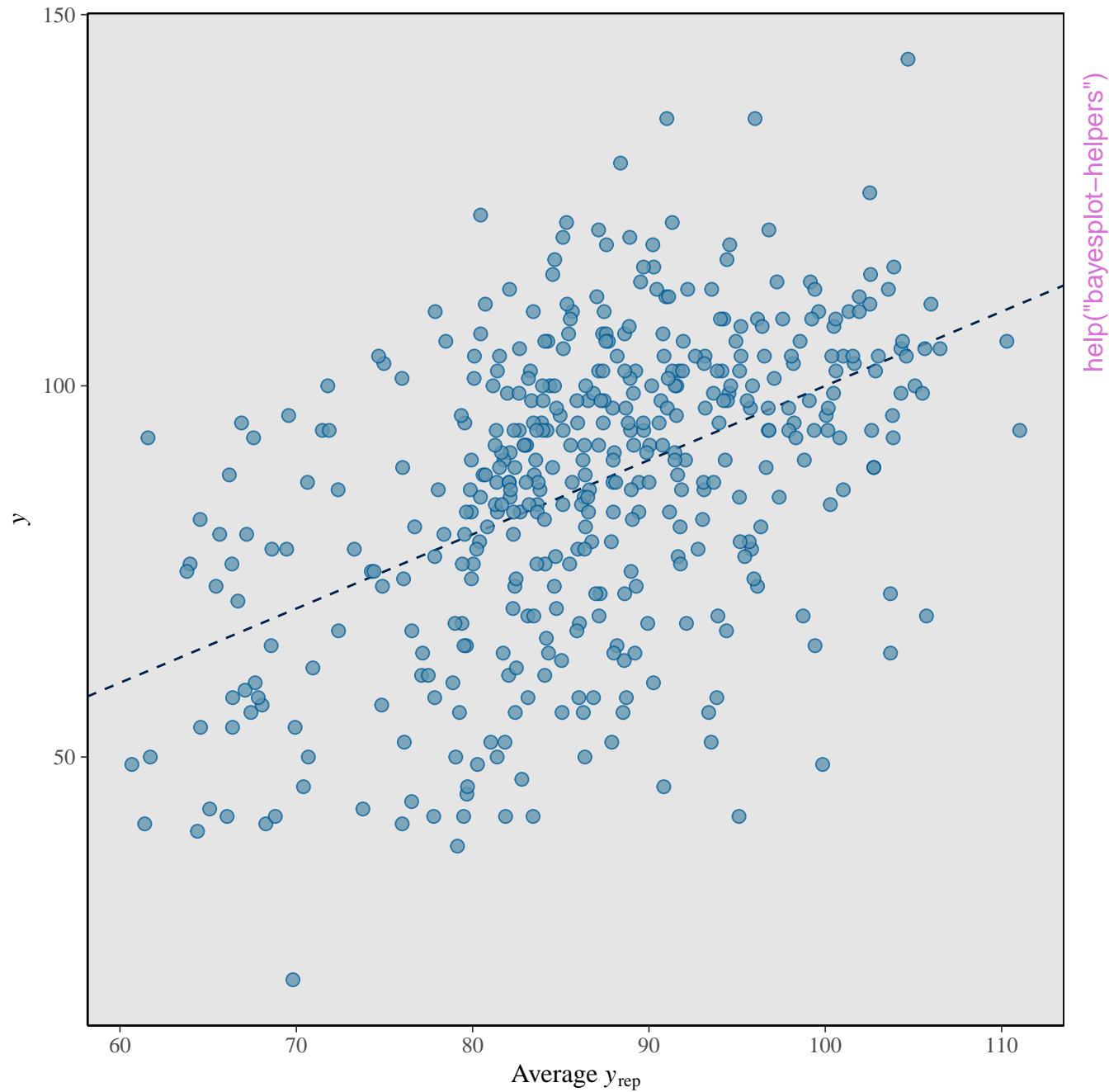
- 1
- 2
- 3
- 4

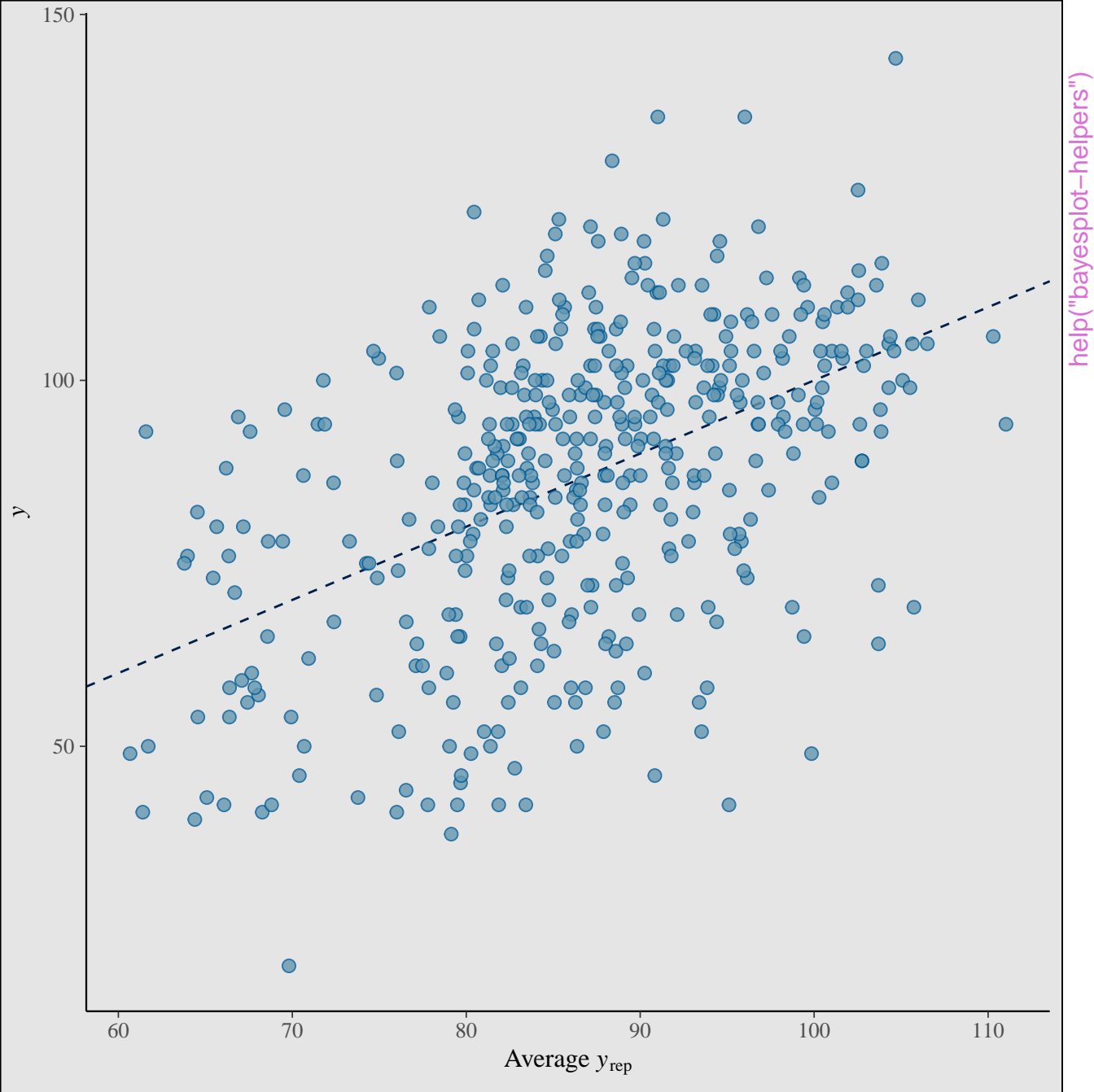
help("bayesplot-helpers")

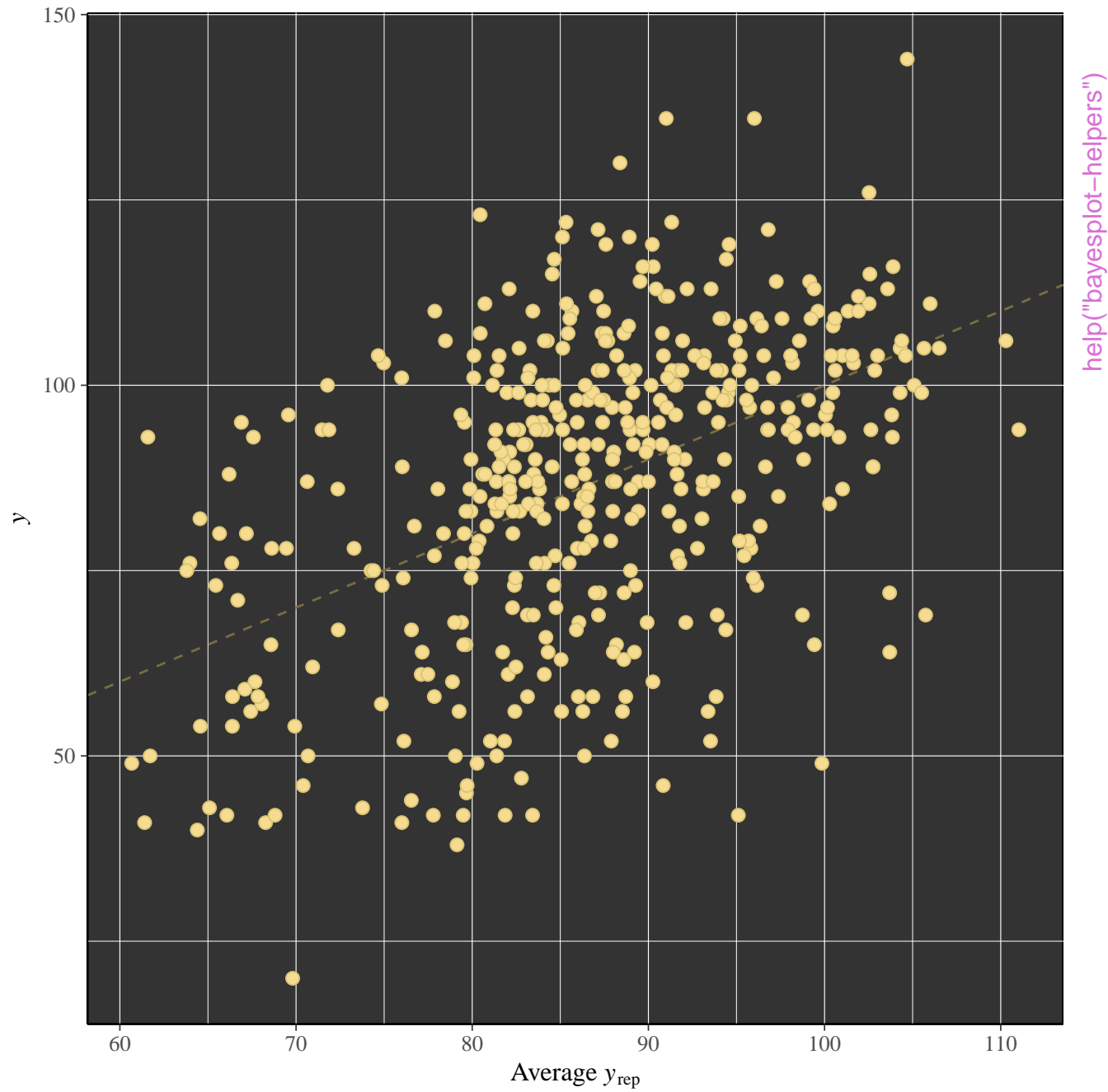


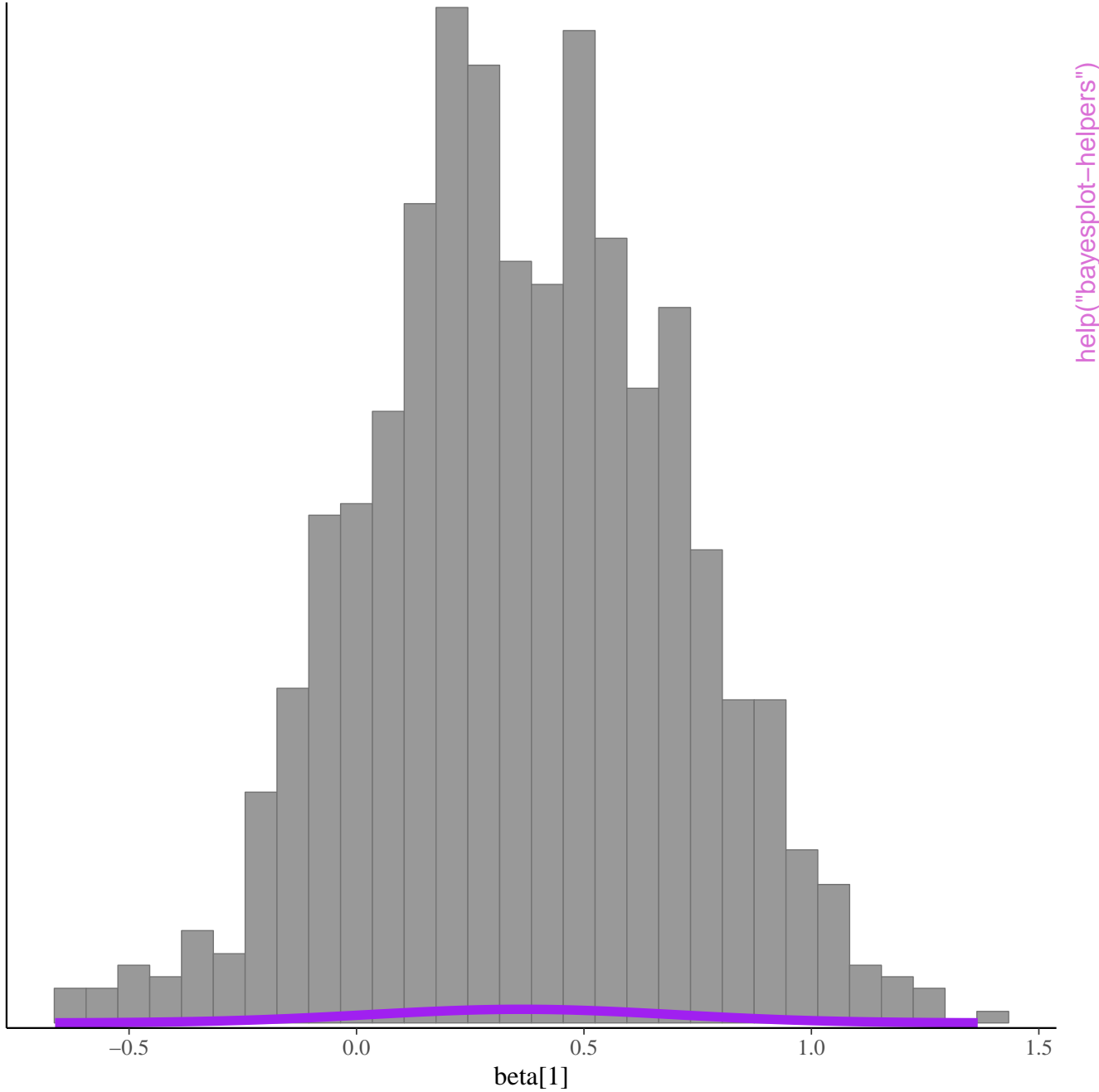
$T = \text{mean}$
 $T(y_{\text{rep}})$
 $T(y)$

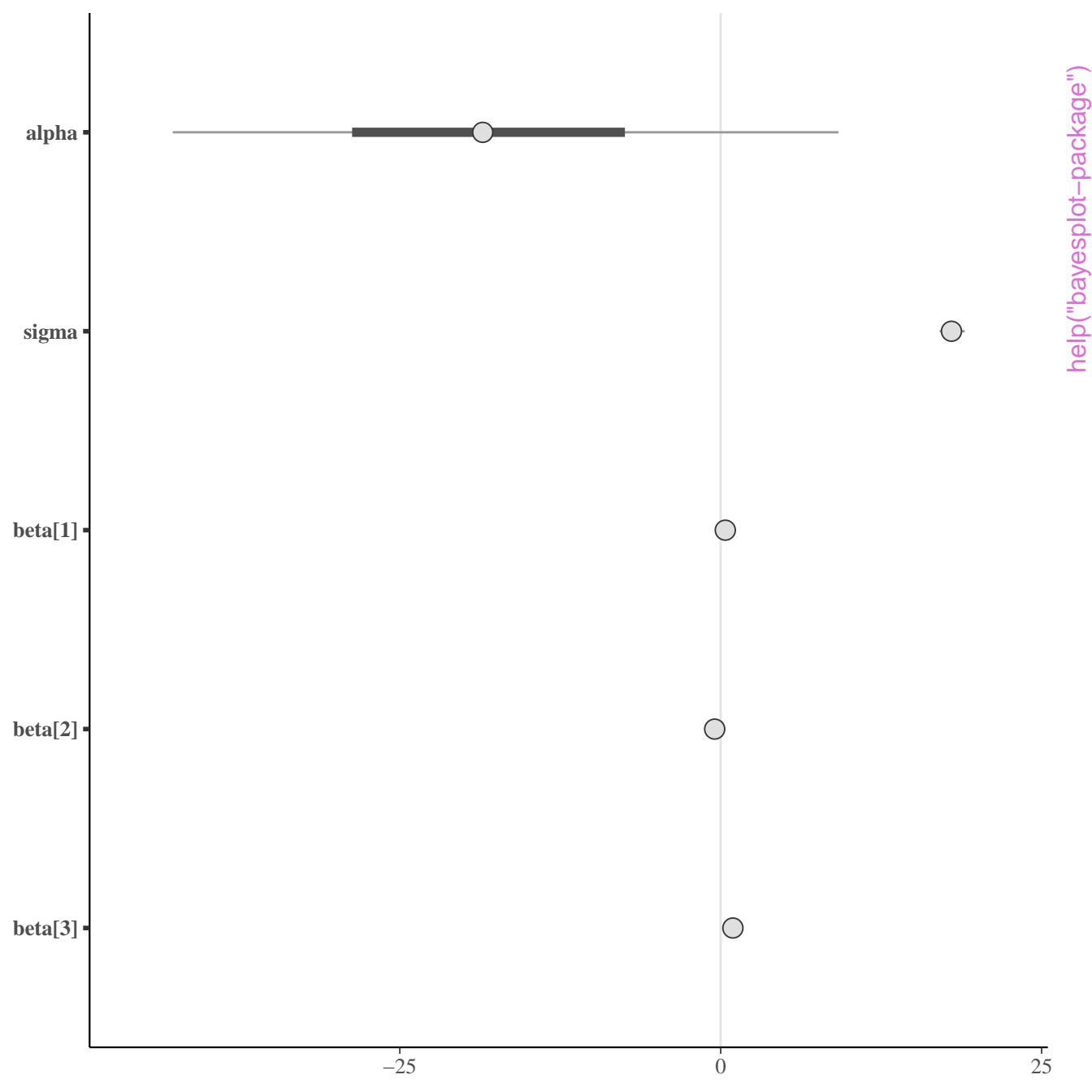
help("bayesplot-helpers")

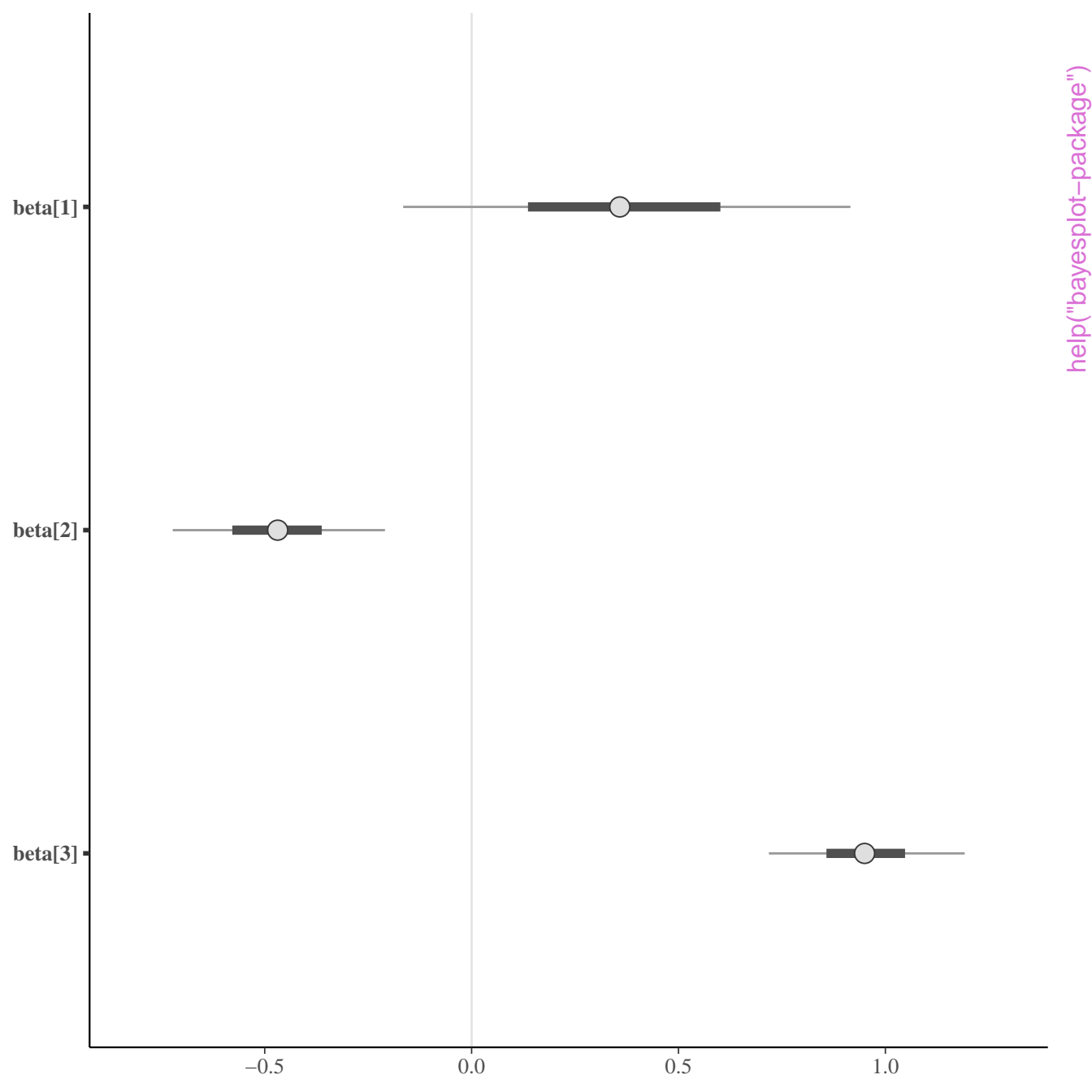




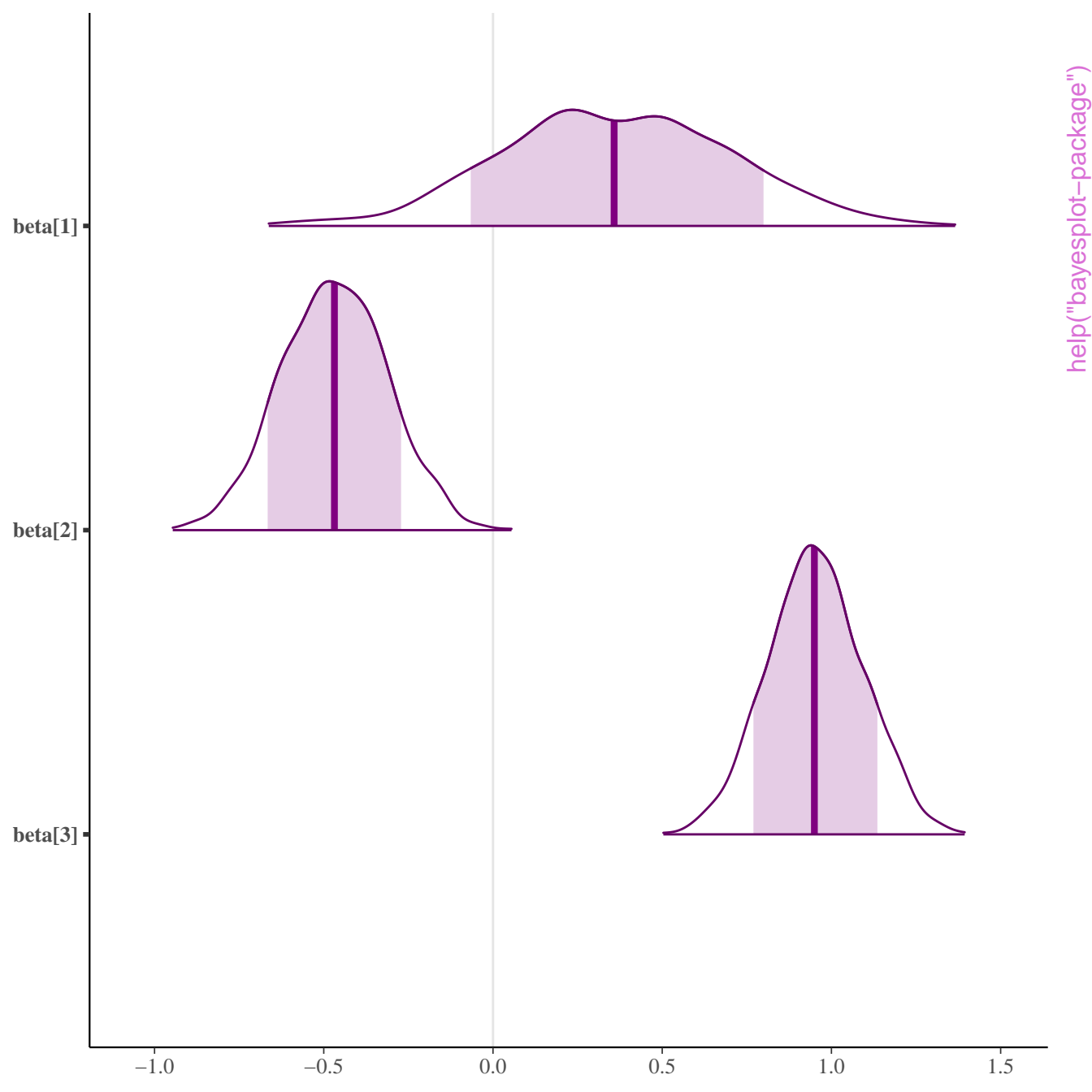




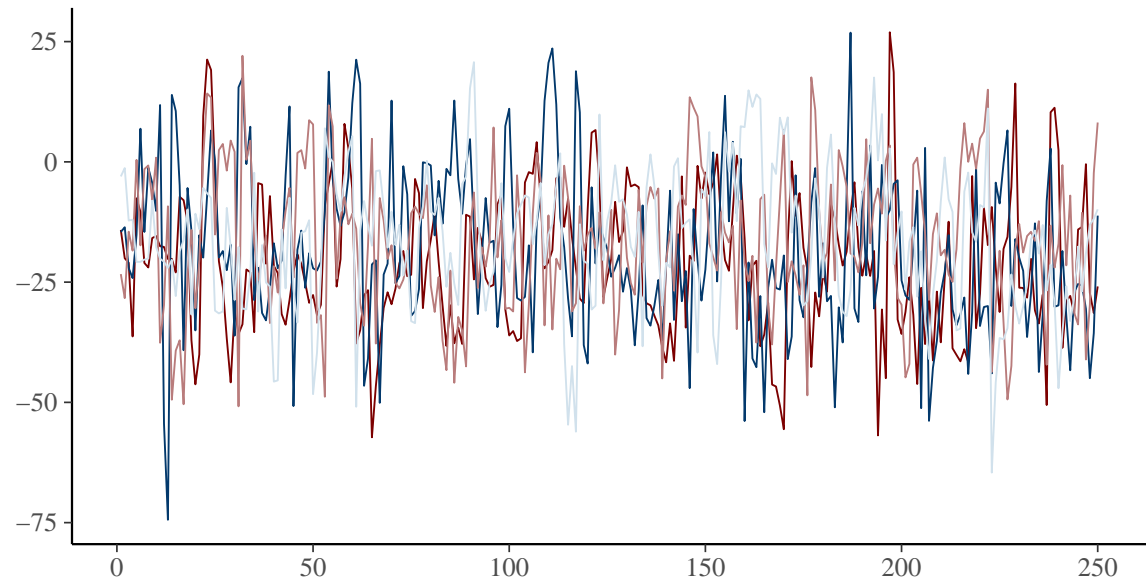




`help("bayesplot-package")`



alpha

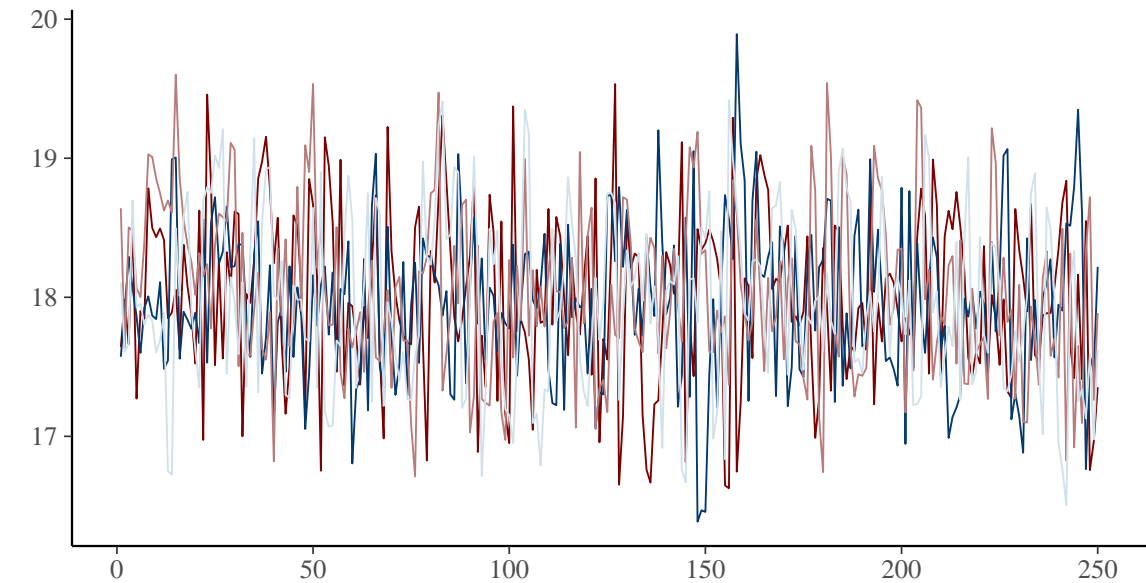


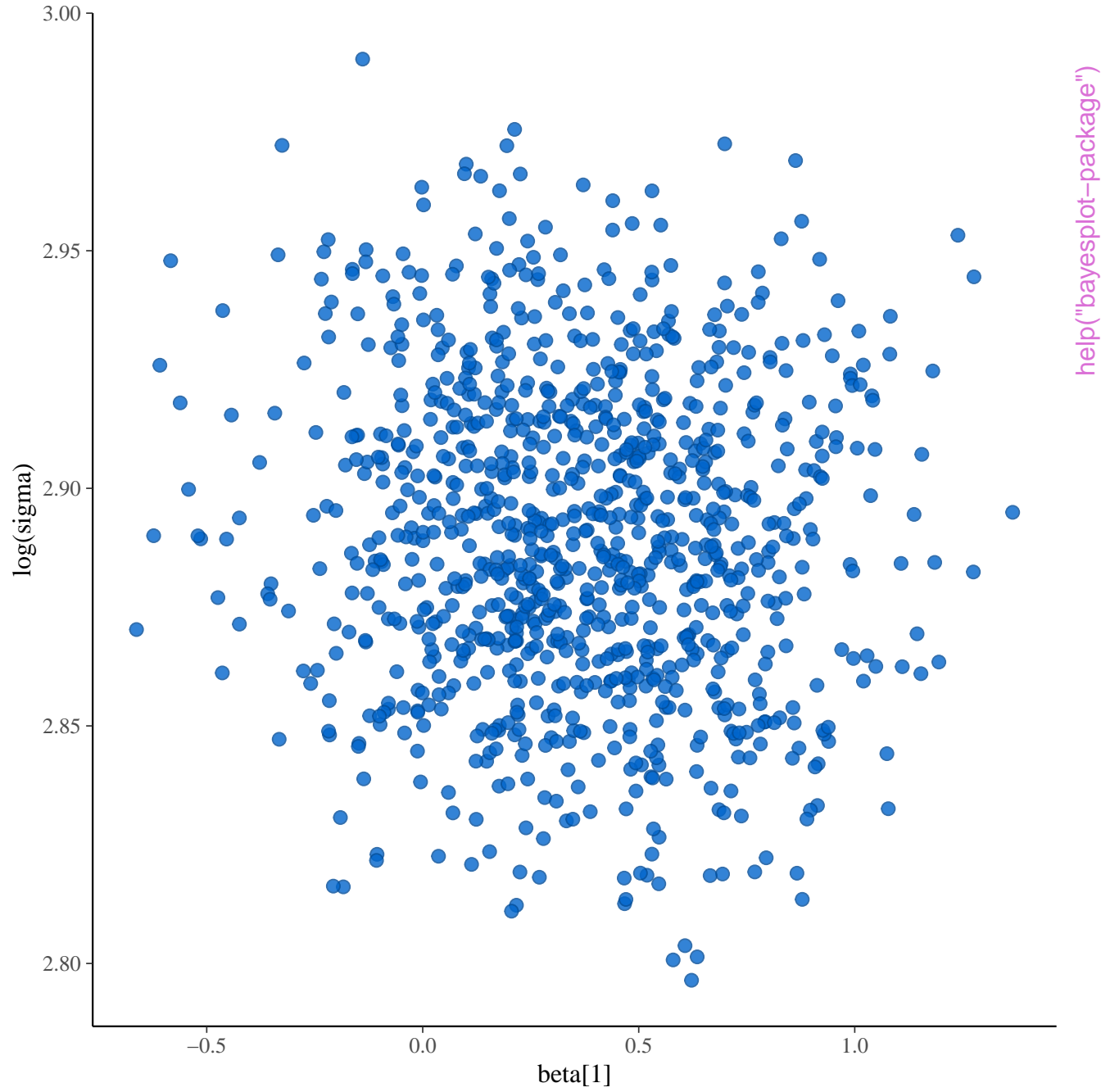
help("bayesplot-package")

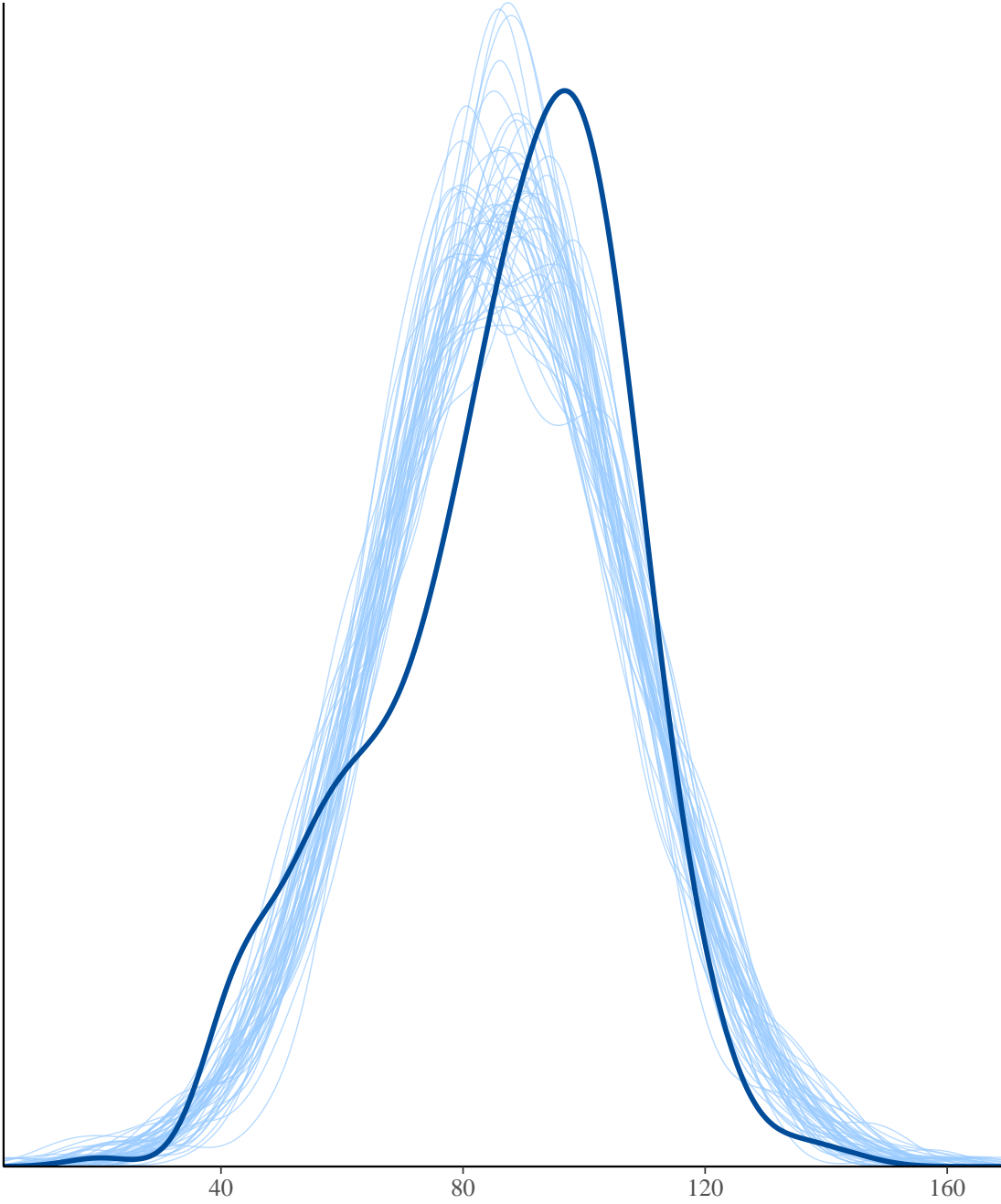
Chain

- 1
- 2
- 3
- 4

sigma



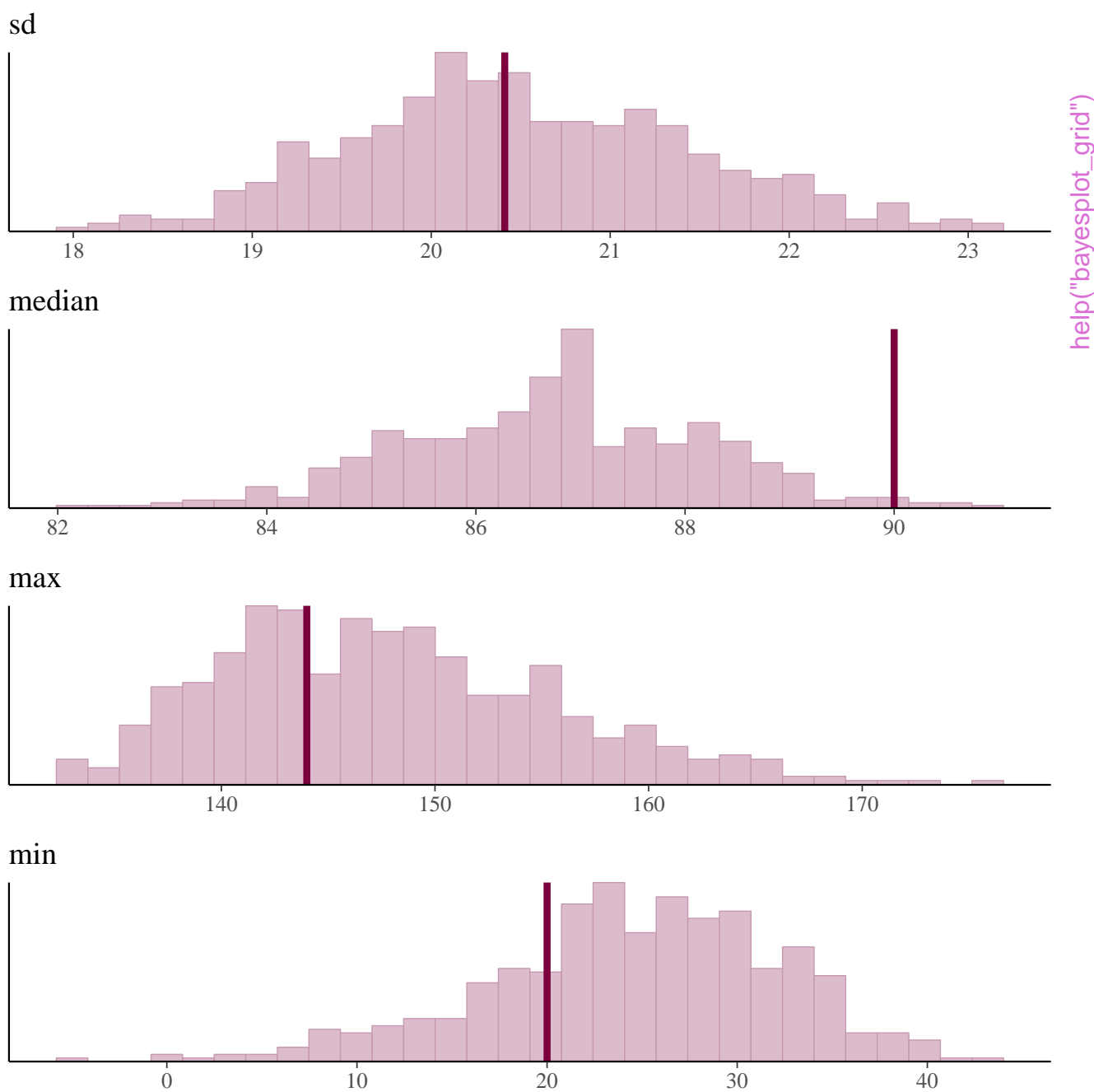


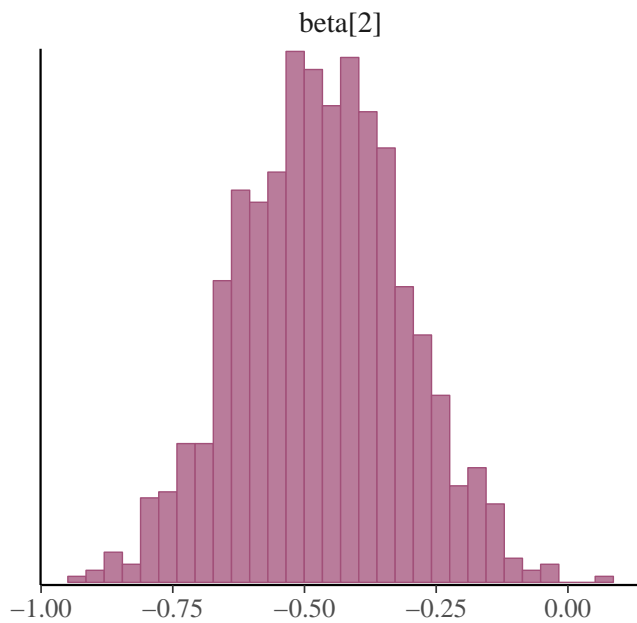
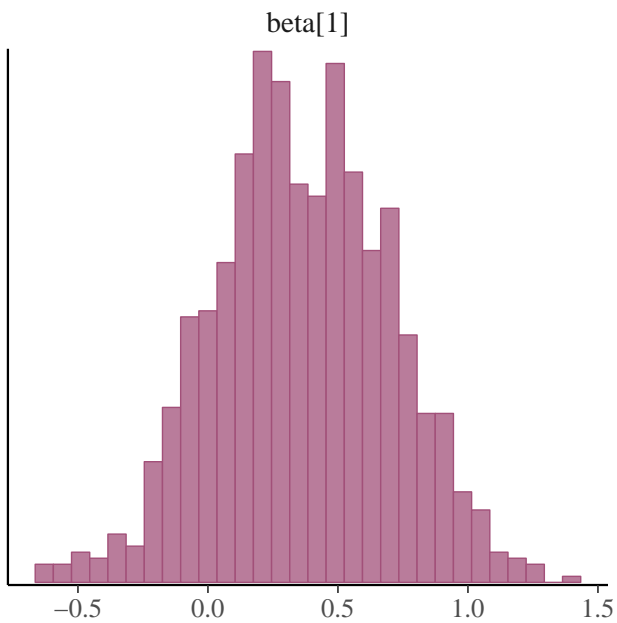
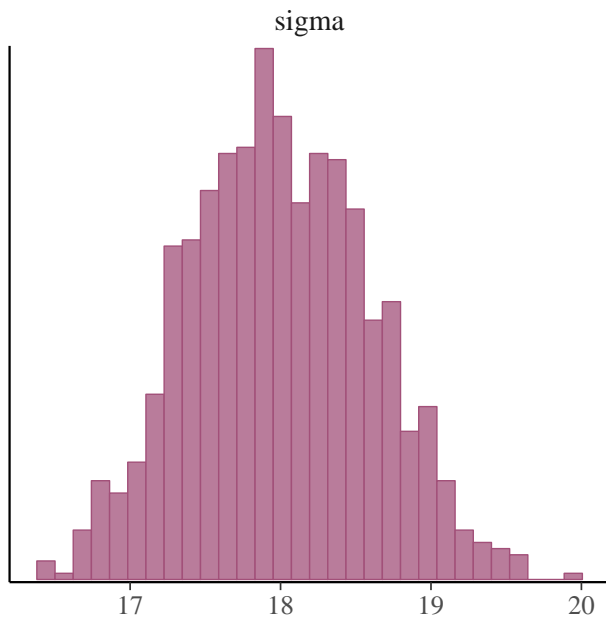
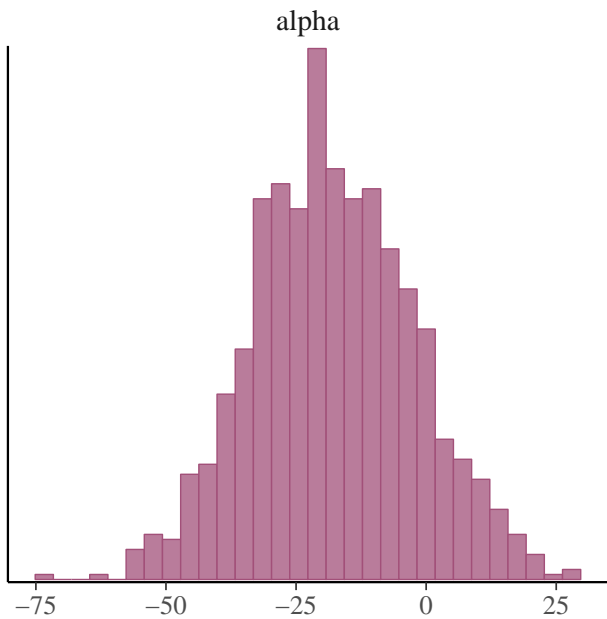


y

y_{rep}

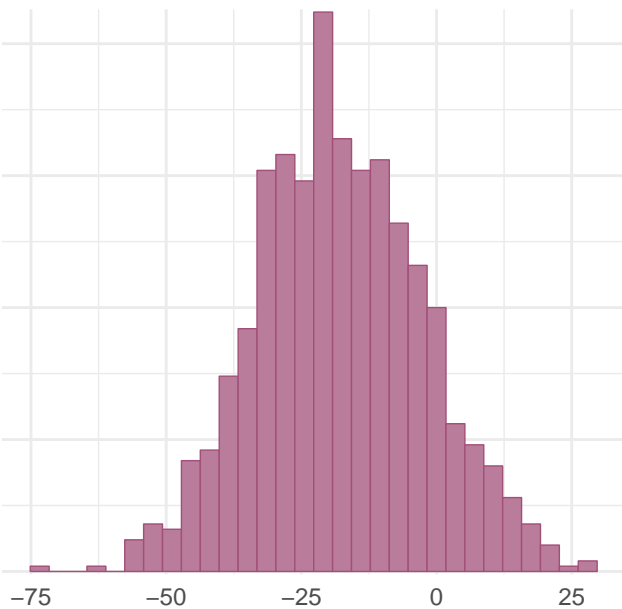
help("bayesplot-package")



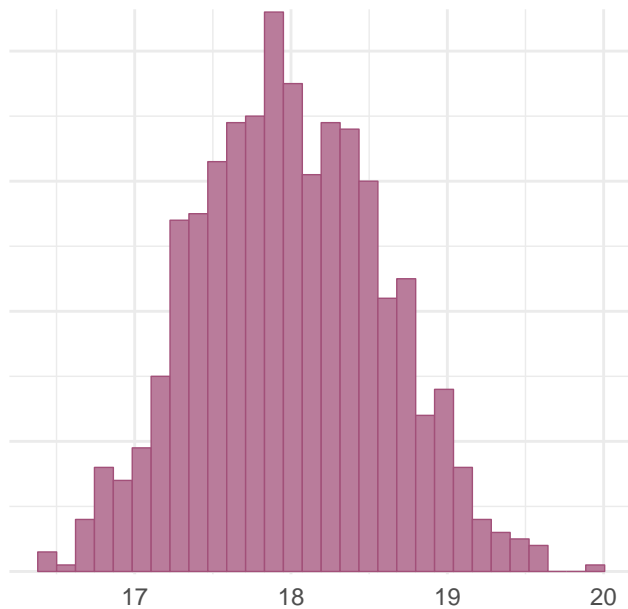


help("bayesplot_theme_get")

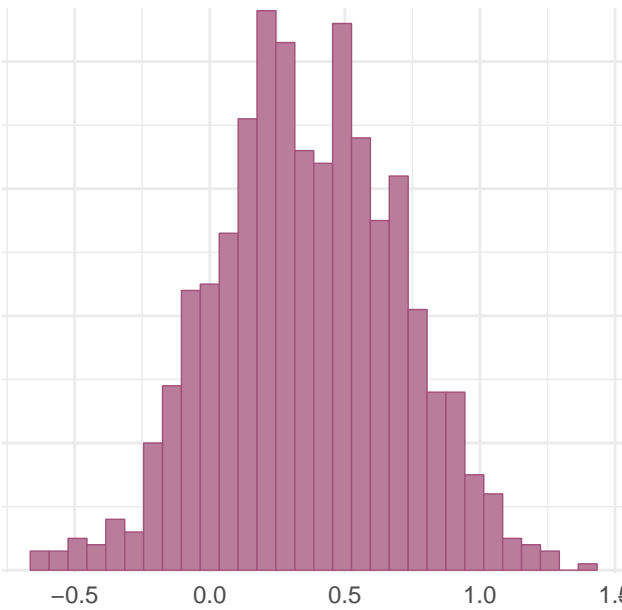
alpha



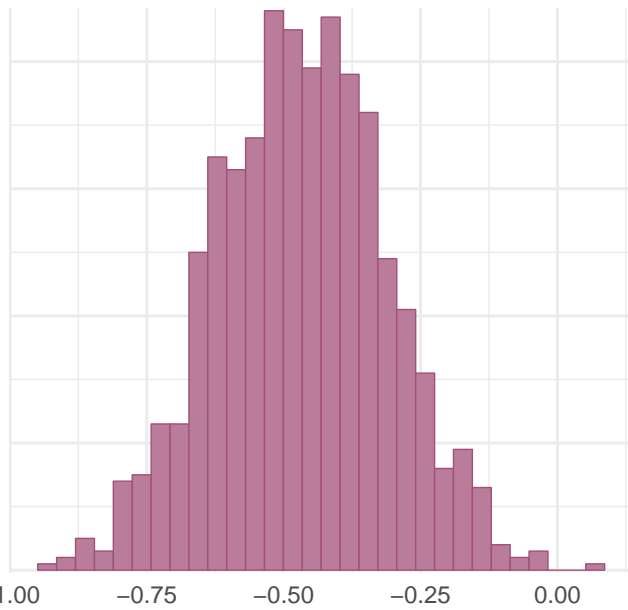
sigma



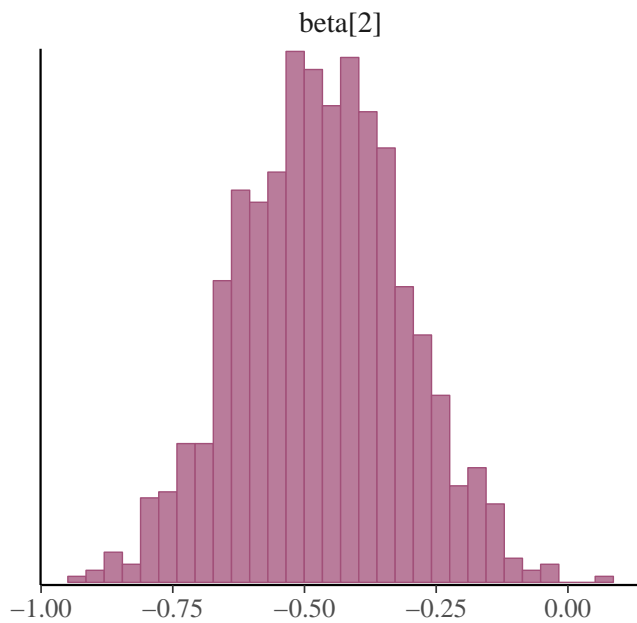
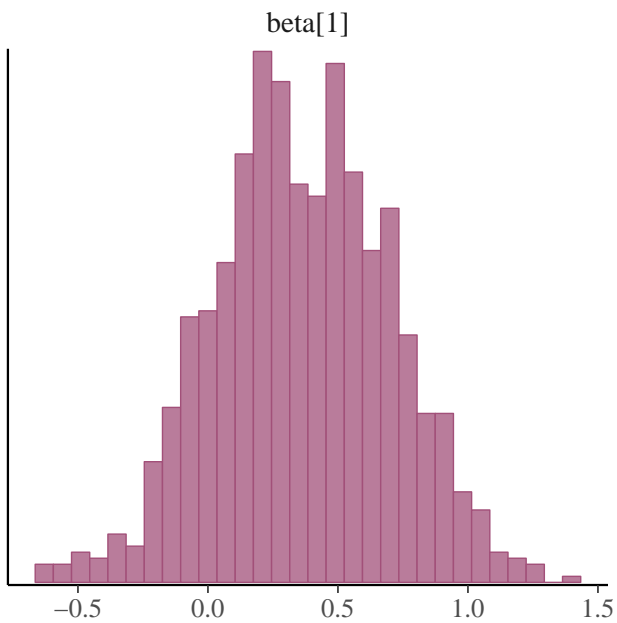
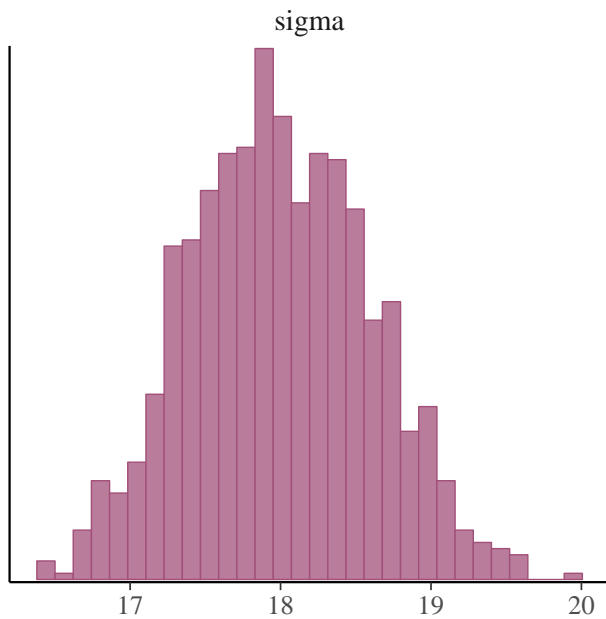
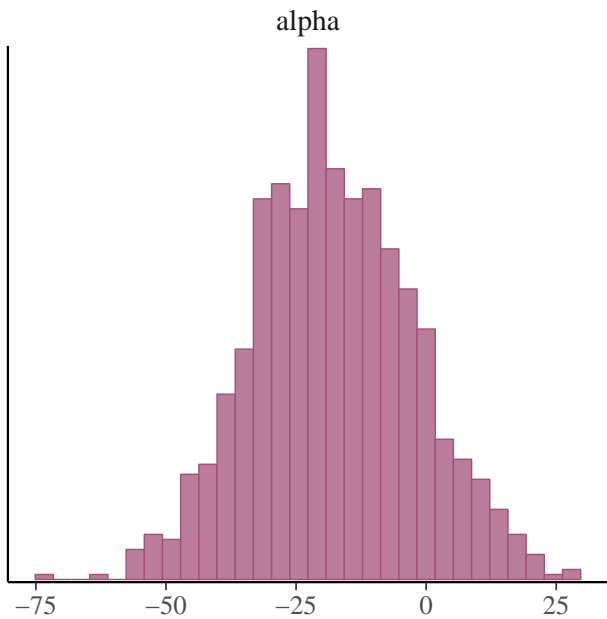
beta[1]



beta[2]

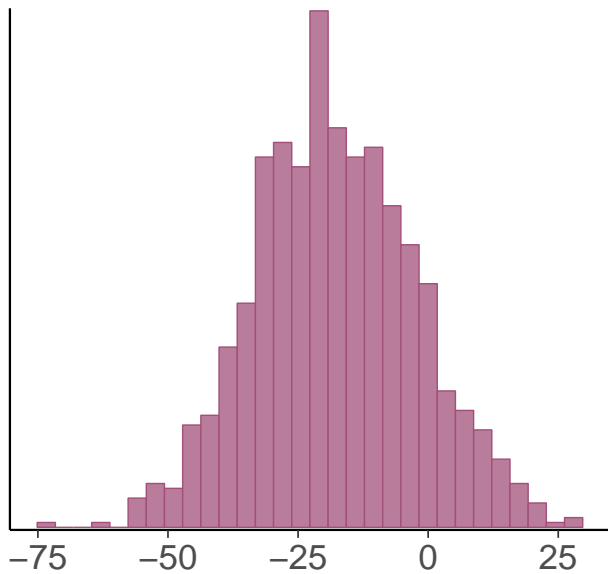


help("bayesplot_theme_get")

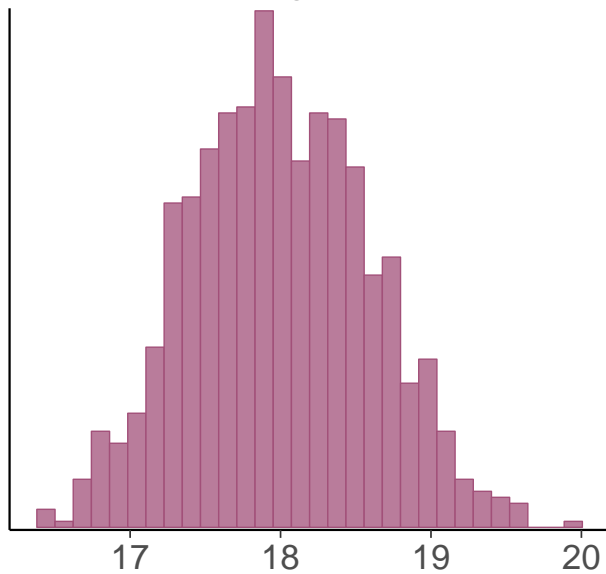


help("bayesplot_theme_get")

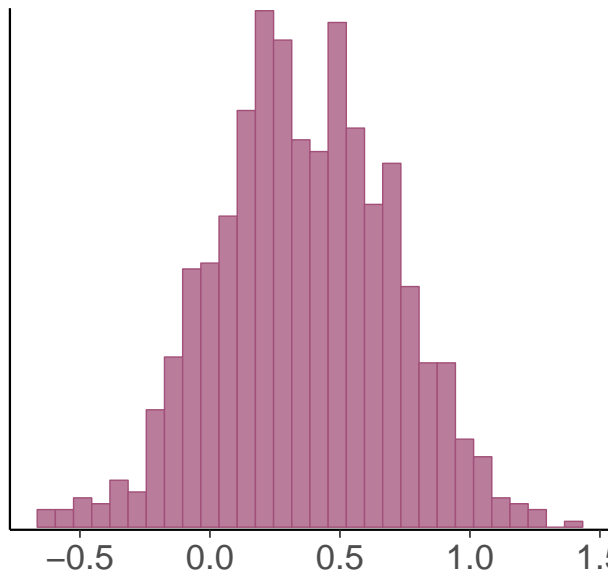
alpha



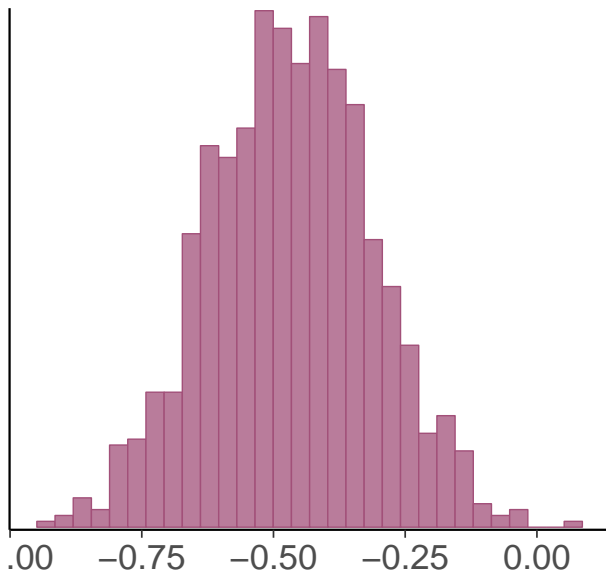
sigma



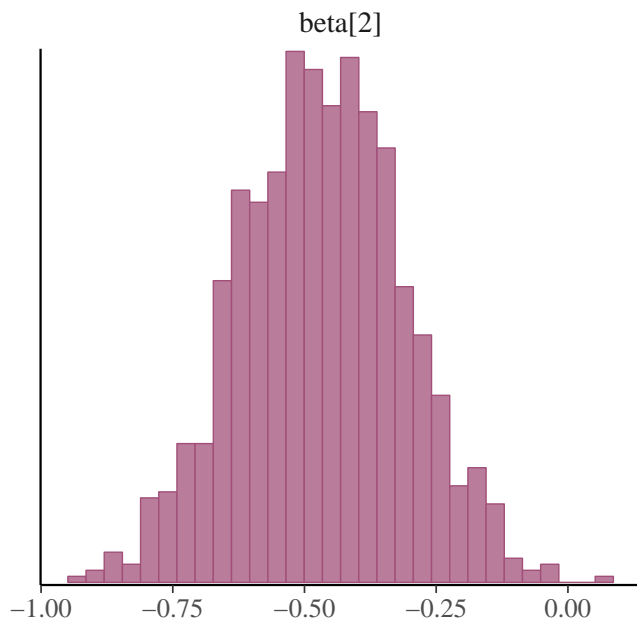
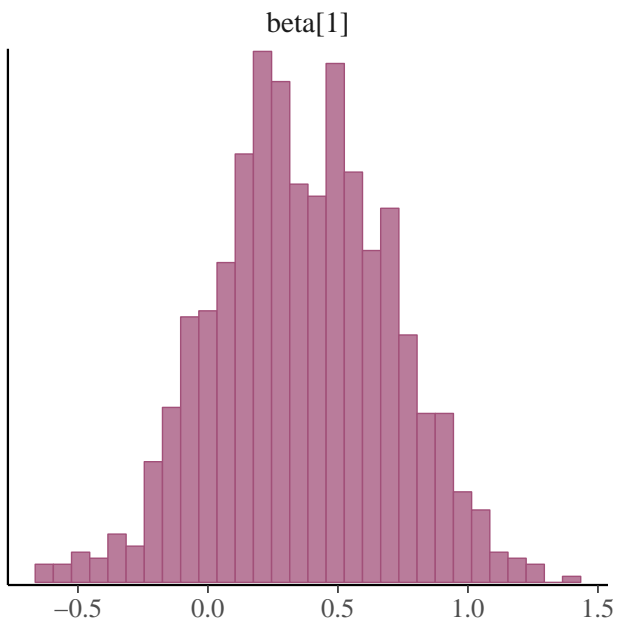
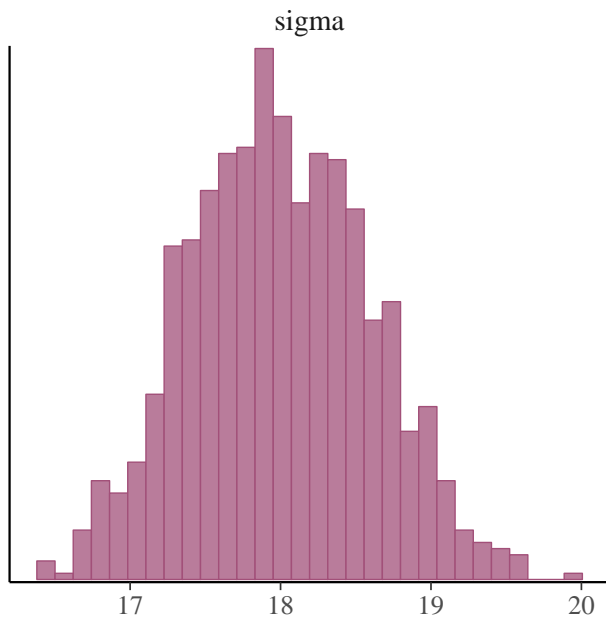
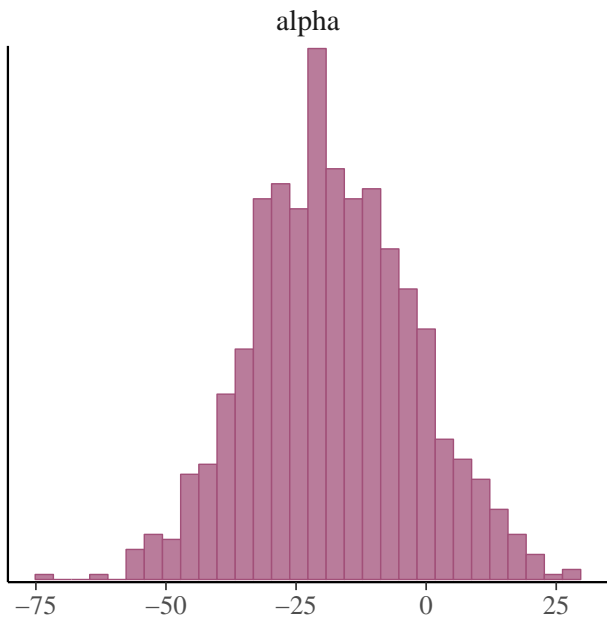
beta[1]



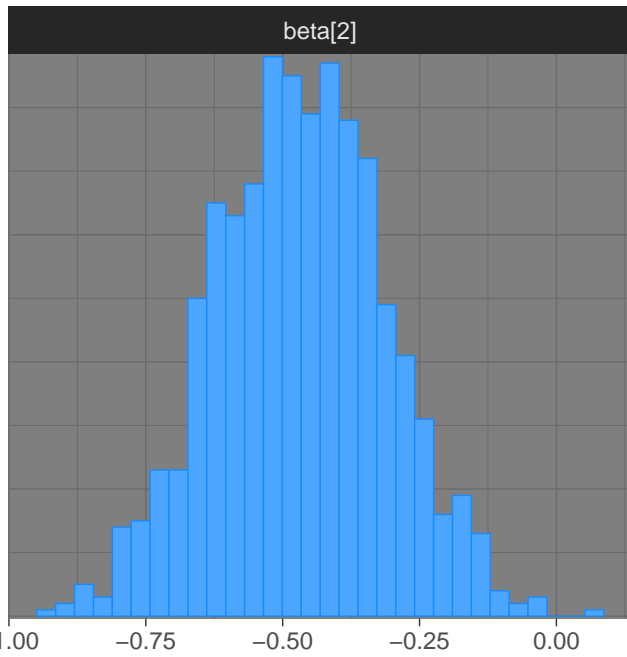
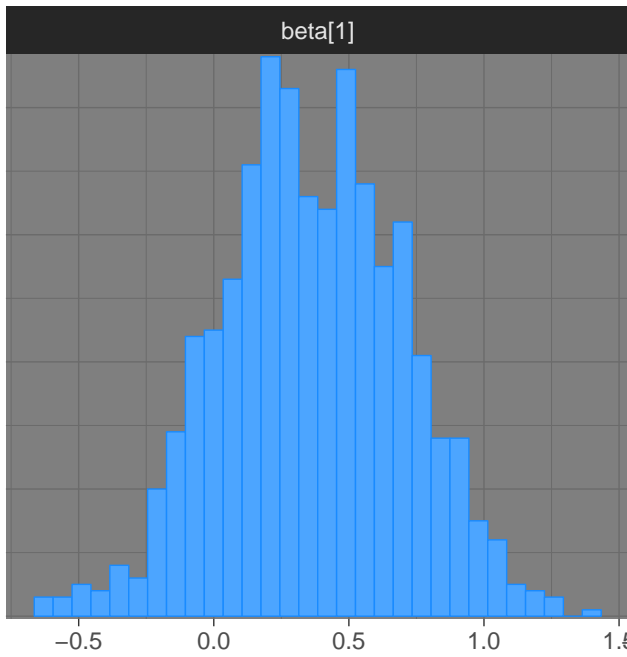
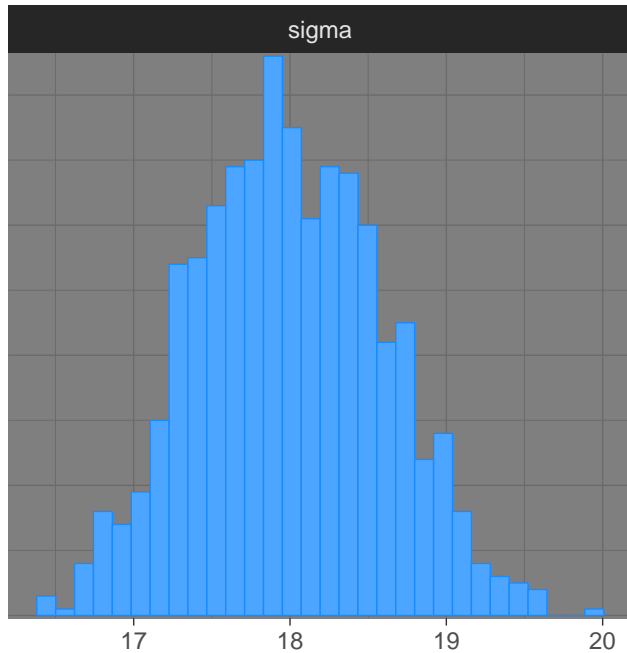
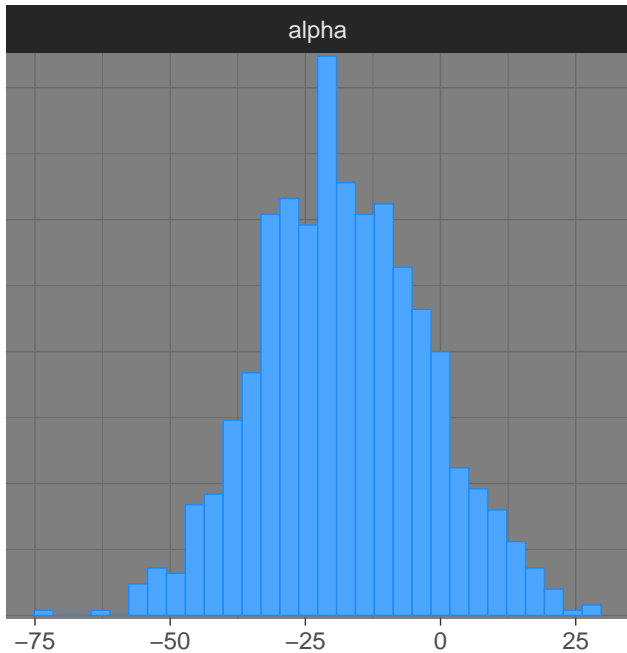
beta[2]



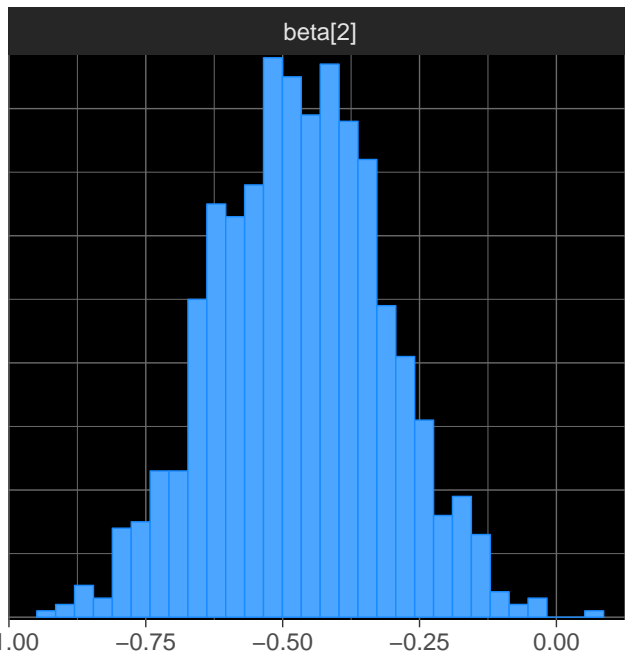
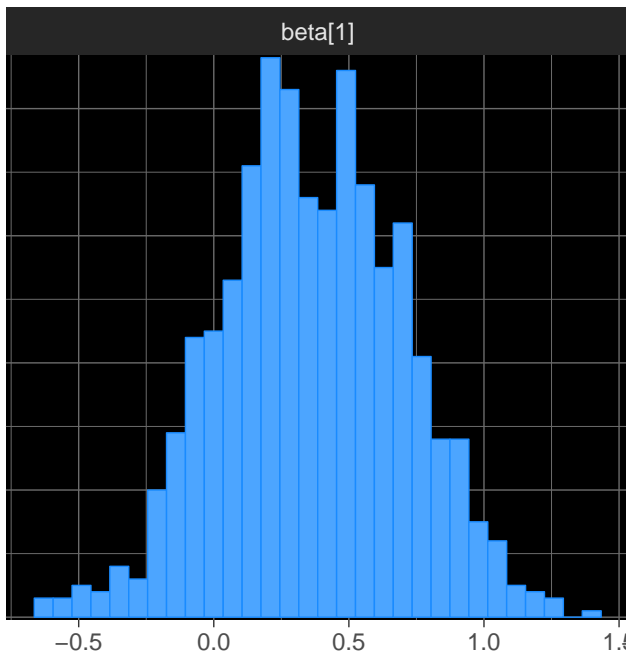
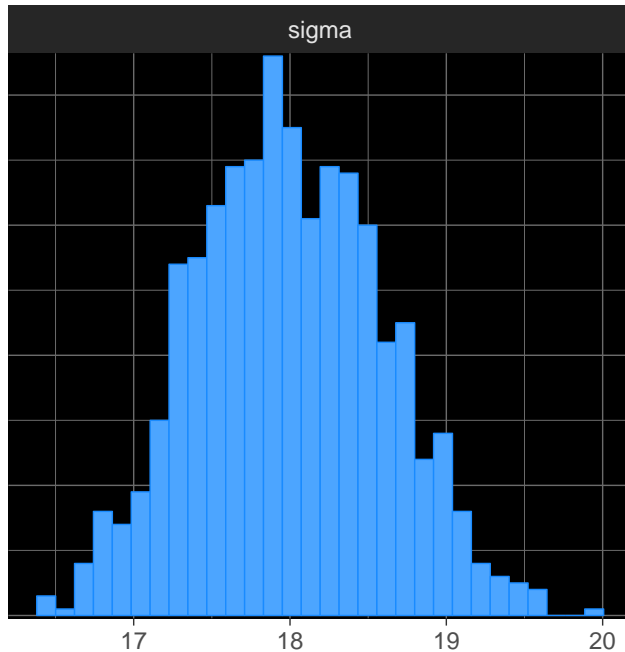
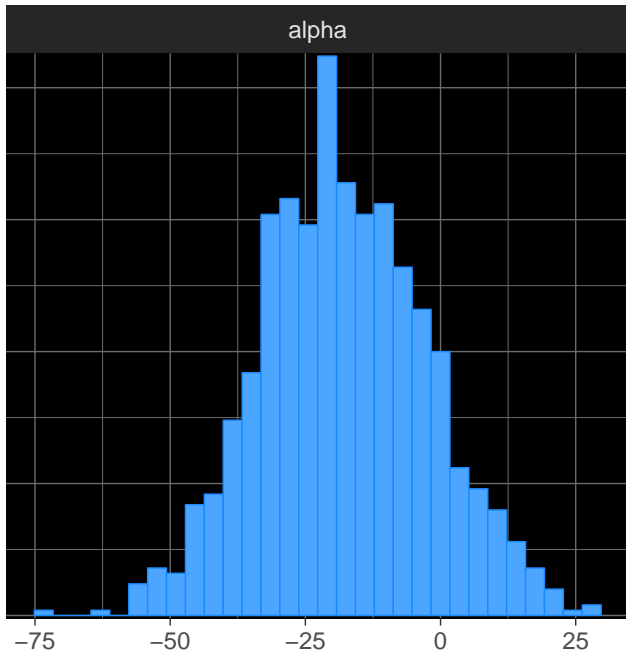
help("bayesplot_theme_get")



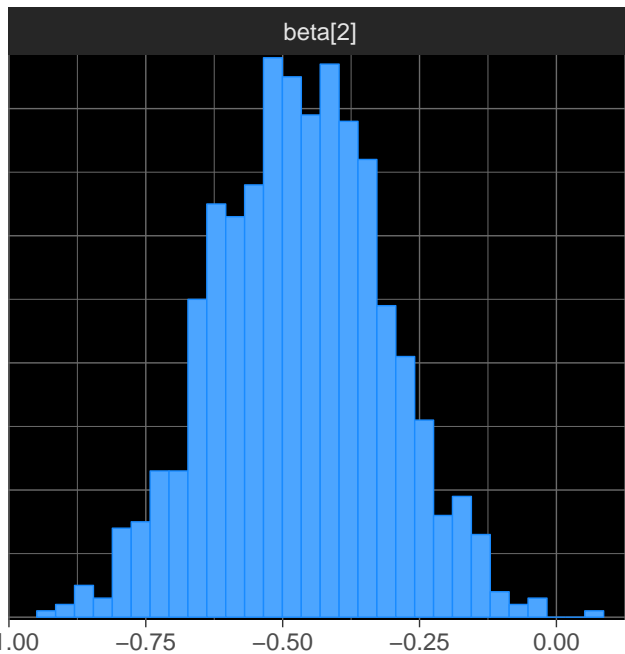
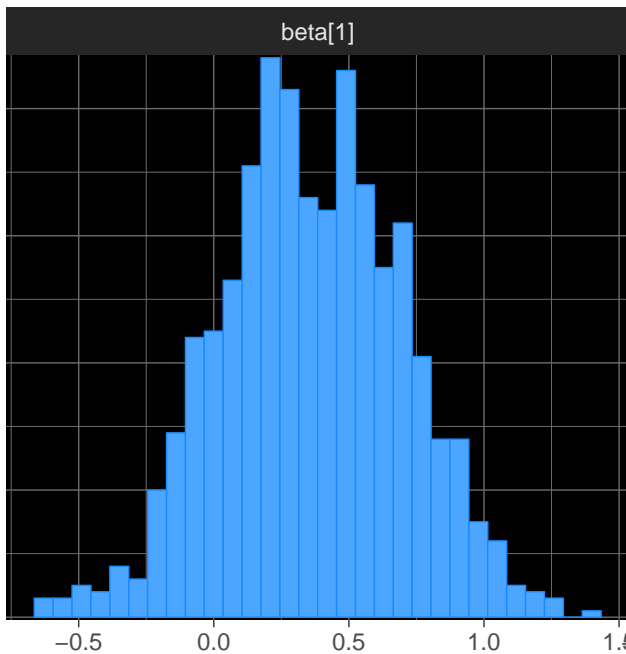
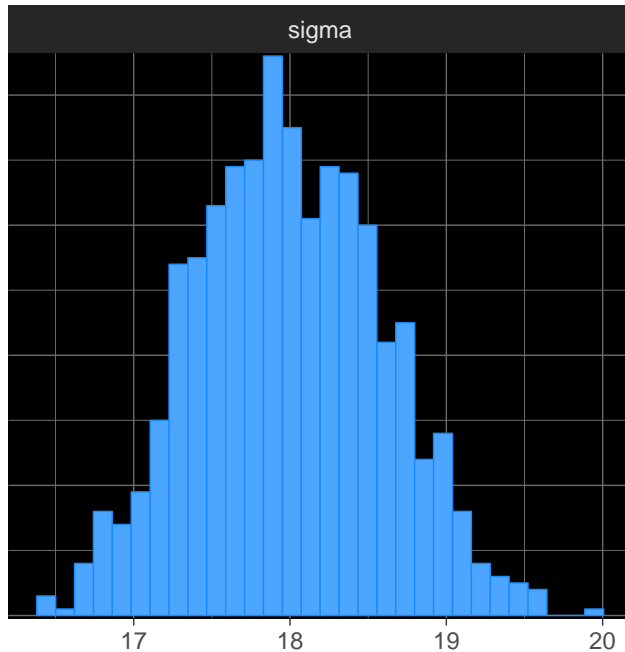
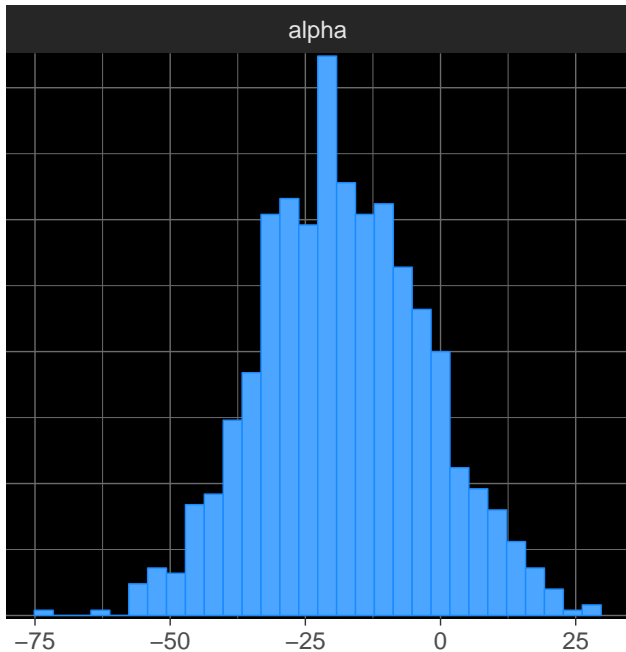
help("bayesplot_theme_get")



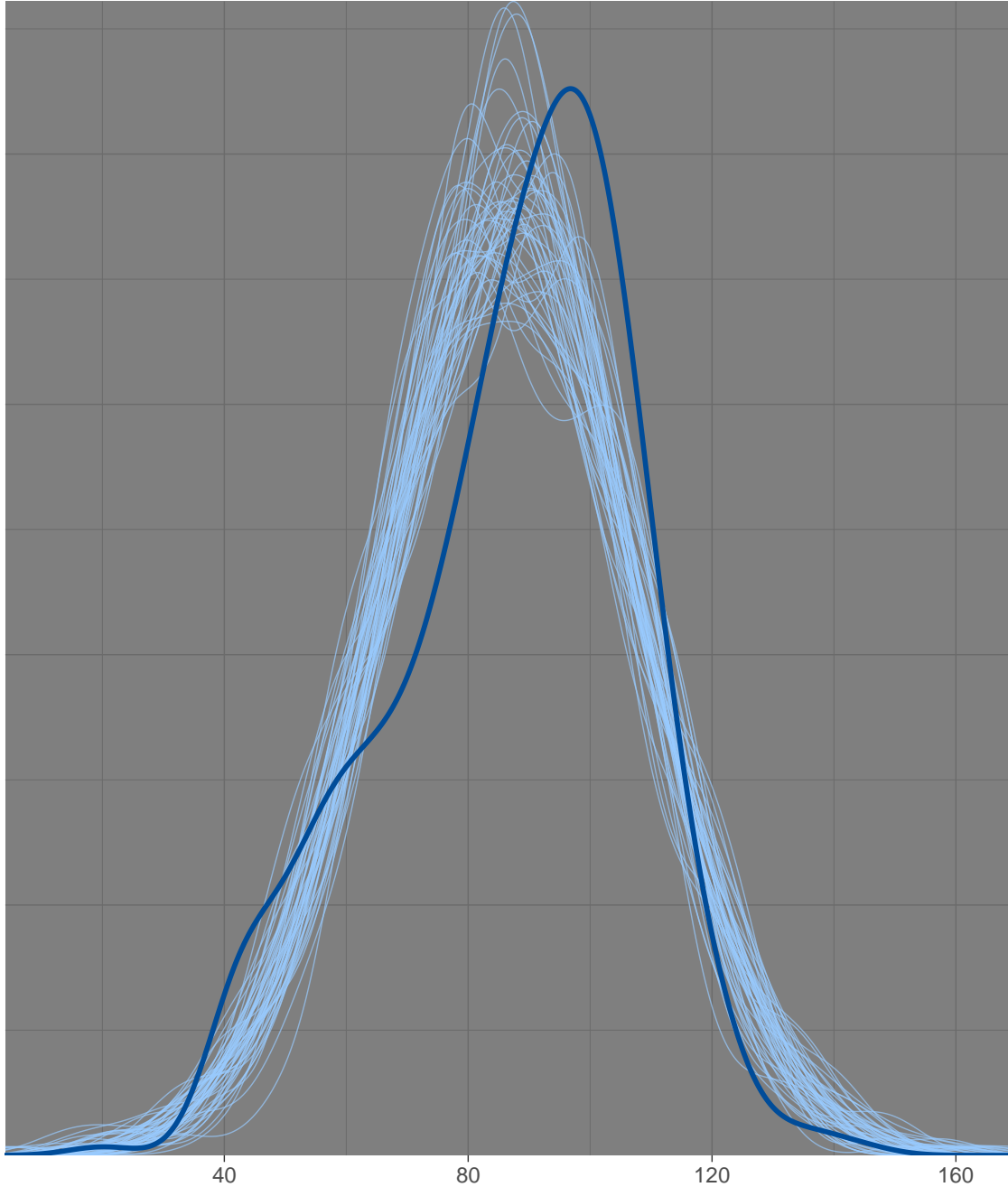
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`help("bayesplot_theme_get")`



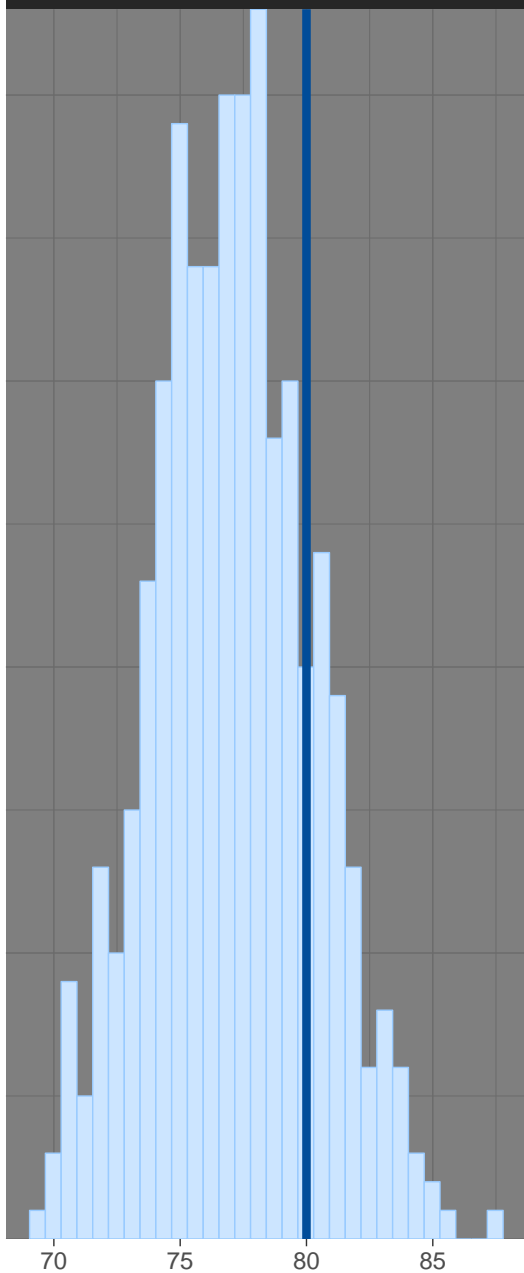
`help("bayesplot_theme_get")`



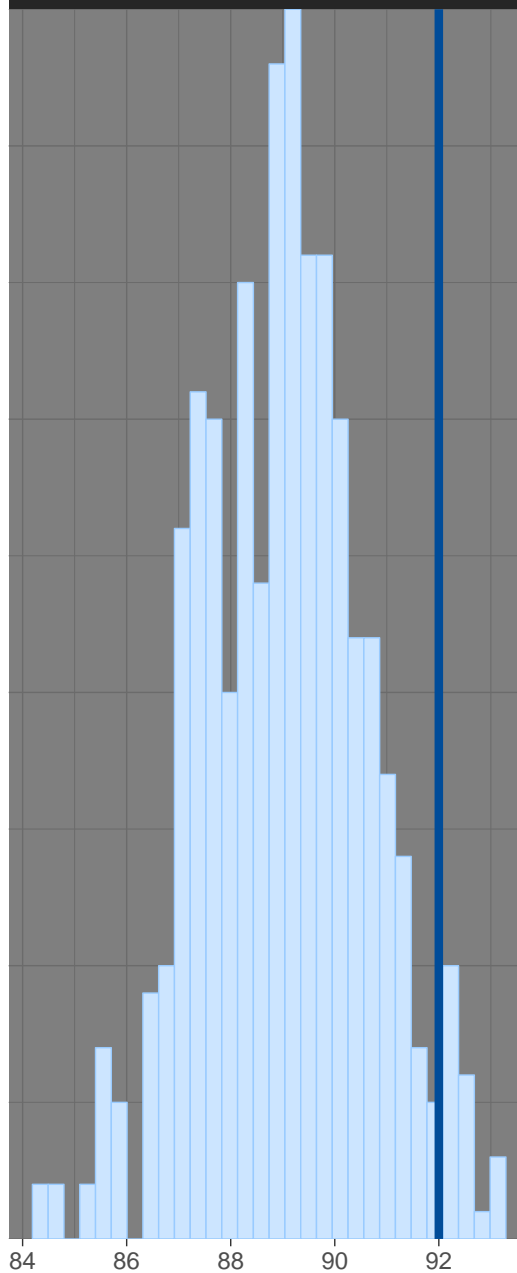
y
 y_{rep}

help("pp_check")

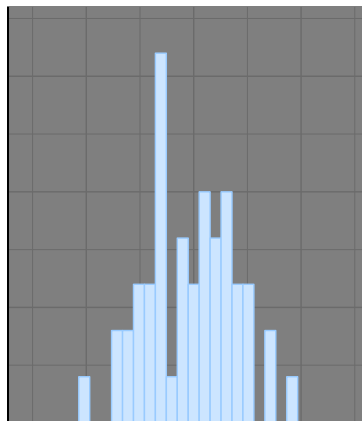
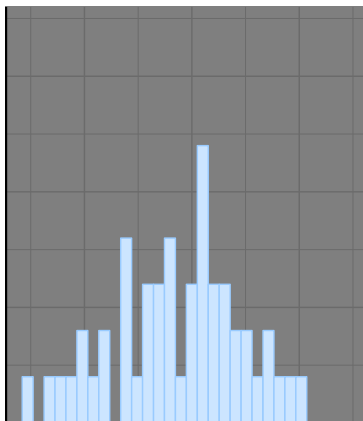
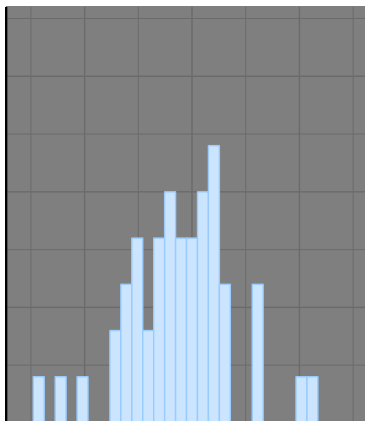
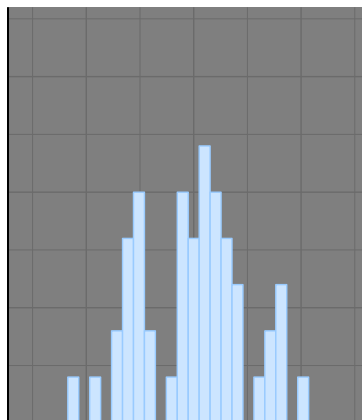
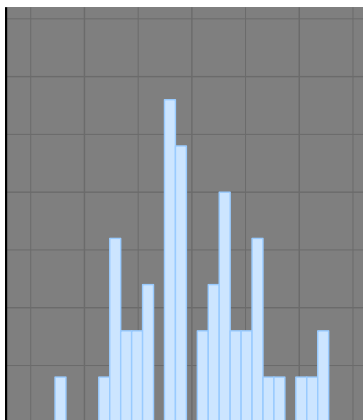
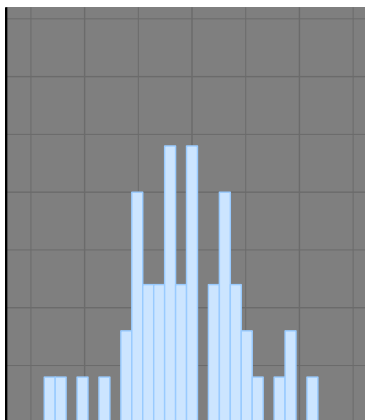
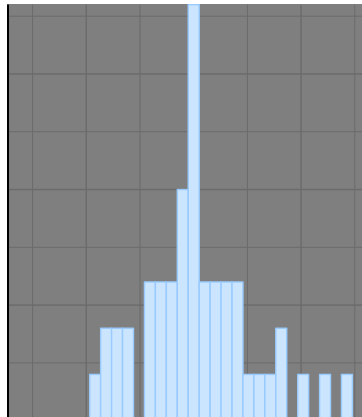
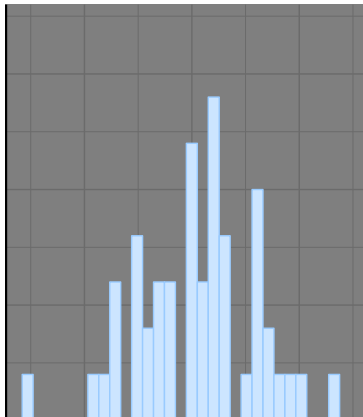
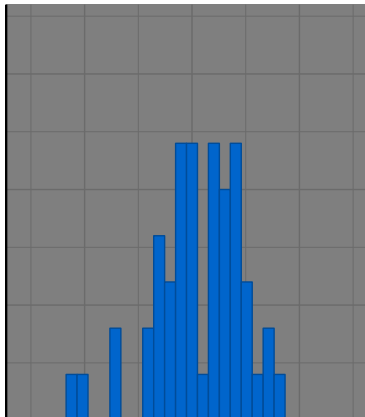
GroupA



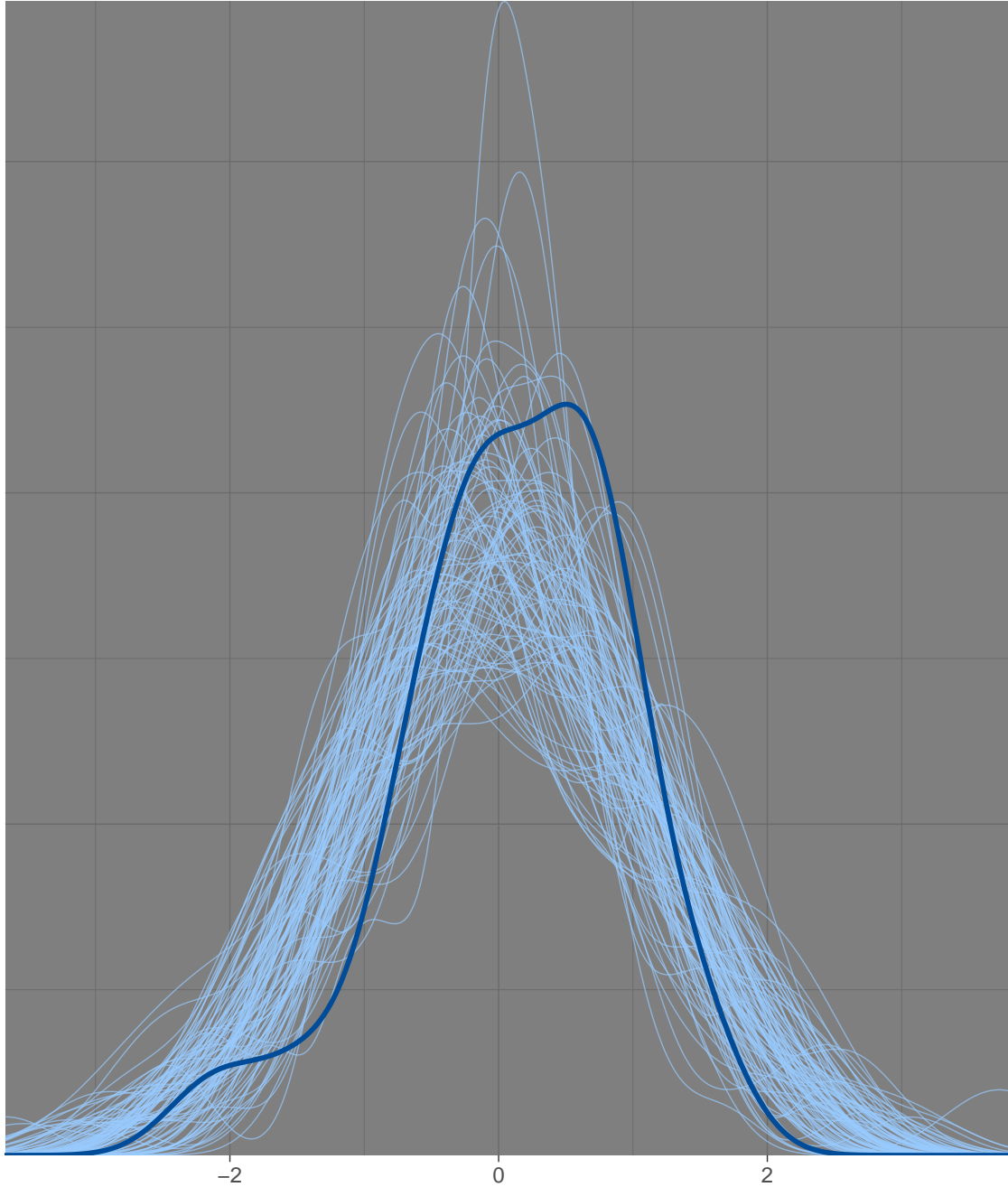
GroupB

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

help("pp_check")



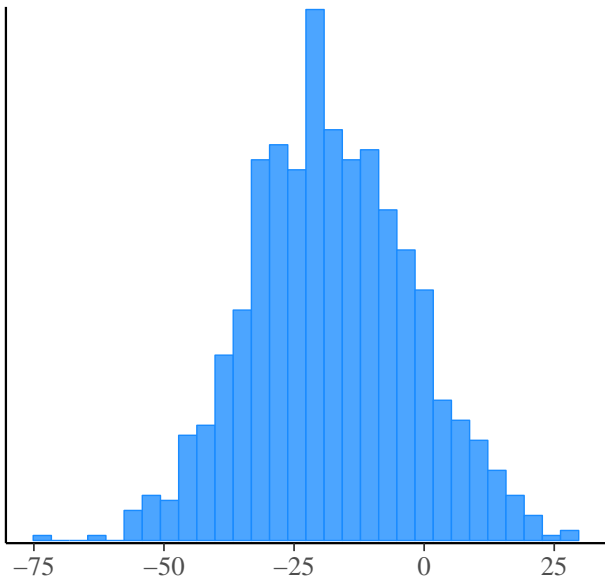
help("pp_check")



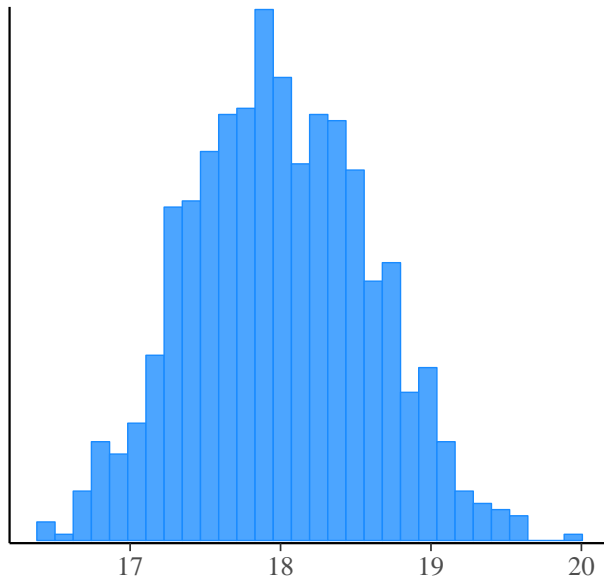
y
 y_{rep}

help("pp_check")

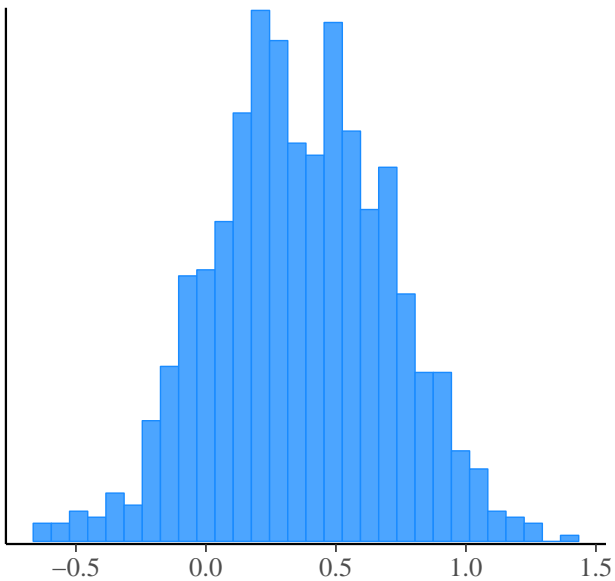
alpha



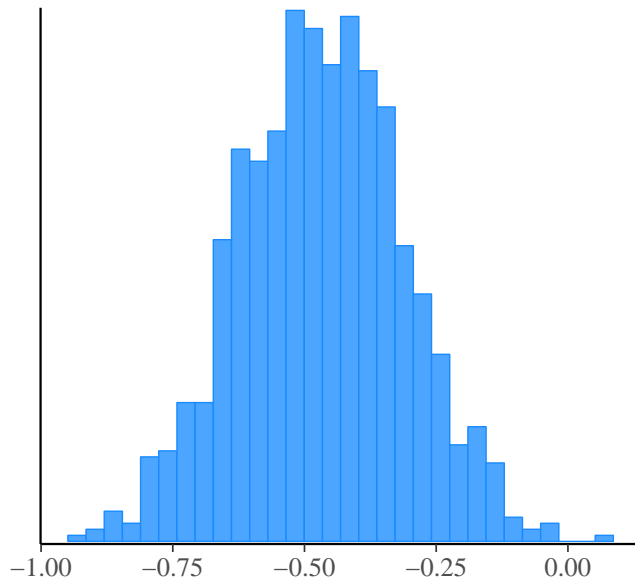
sigma



beta[1]

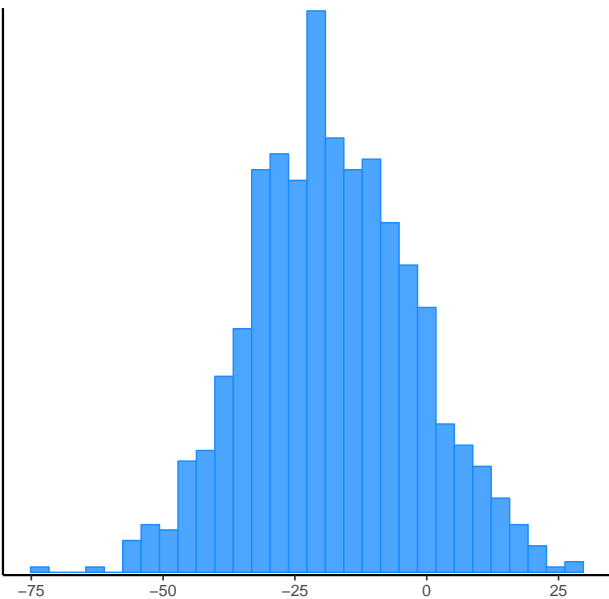


beta[2]

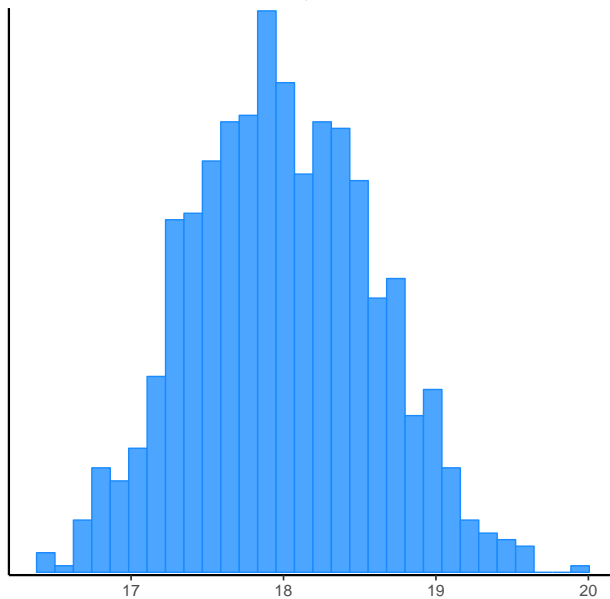


help("theme_default")

alpha

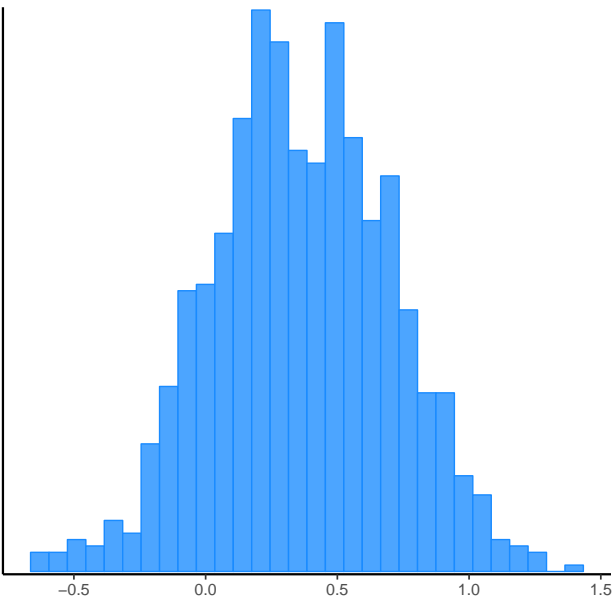


sigma

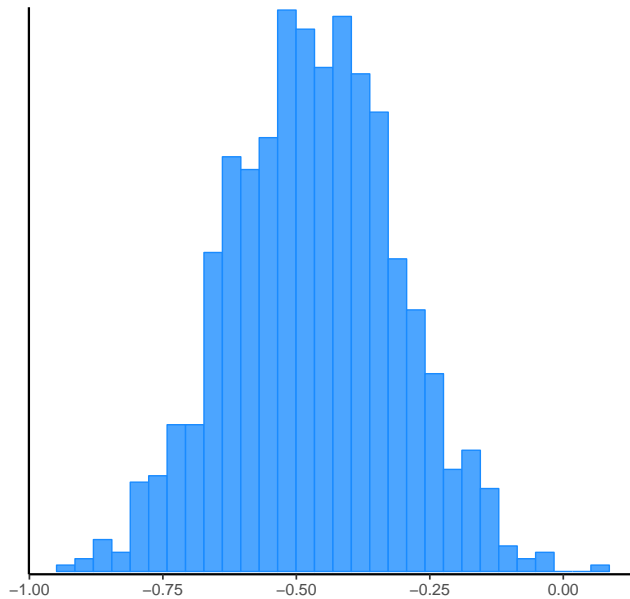


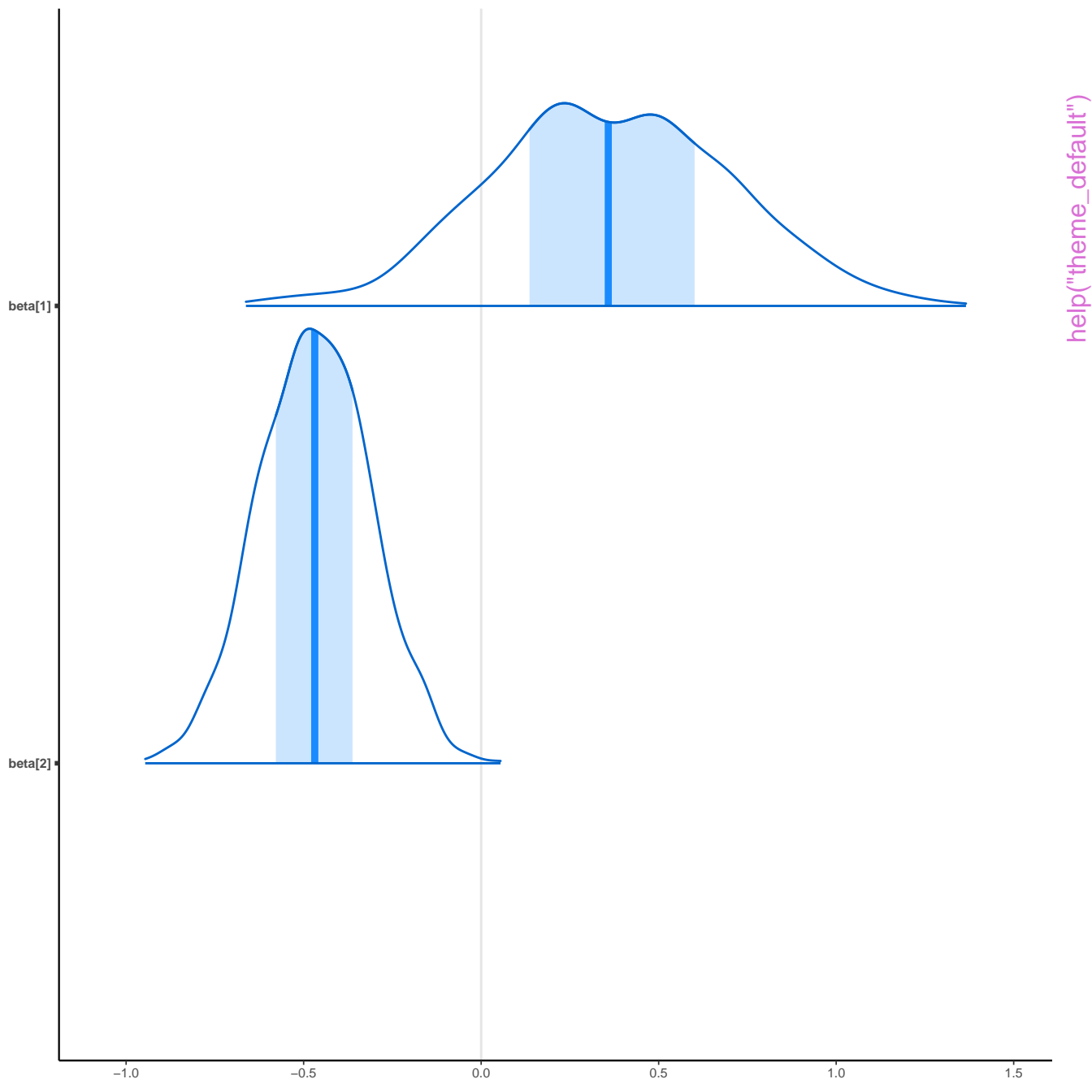
help("theme_default")

beta[1]



beta[2]





beta[1]

beta[2]

-1.0 -0.5 0.0 0.5 1.0 1.5

help("theme_default")

