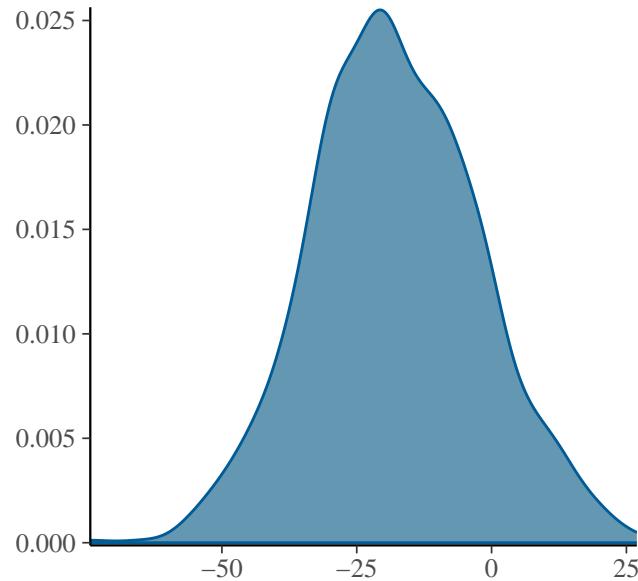
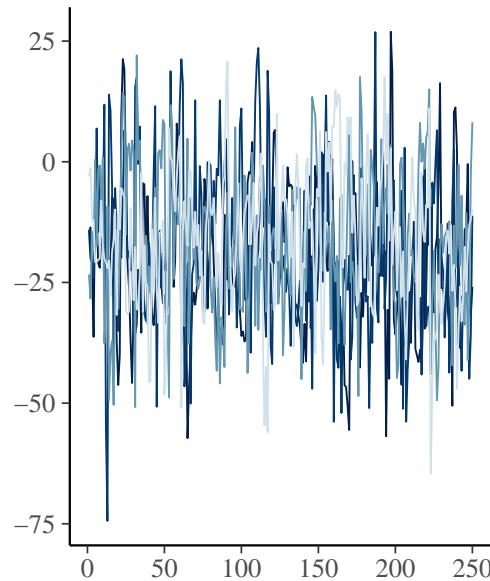


help("MCMC-combos")

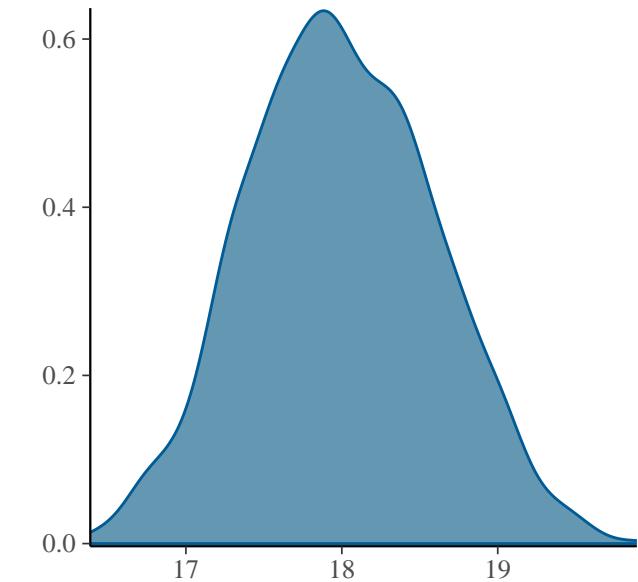
alpha



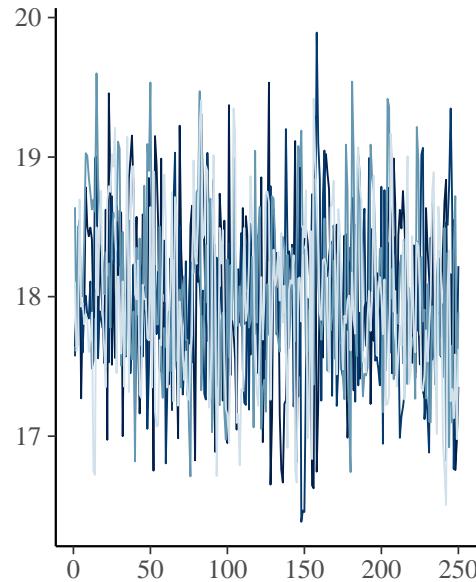
alpha



sigma



sigma

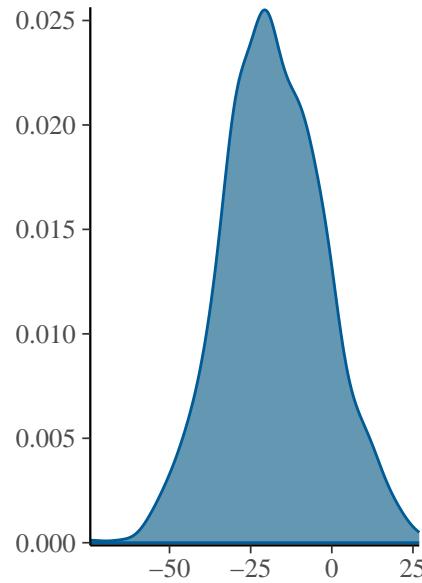


Chain

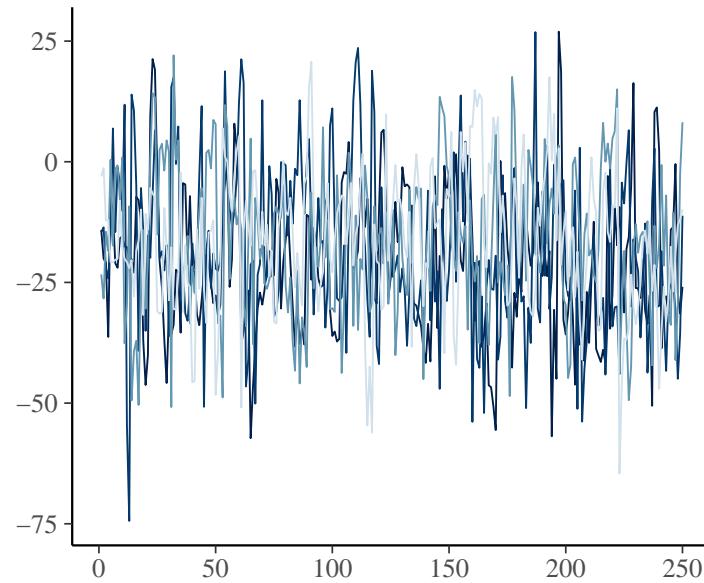
- 1
- 2
- 3
- 4

help("MCMC-combos")

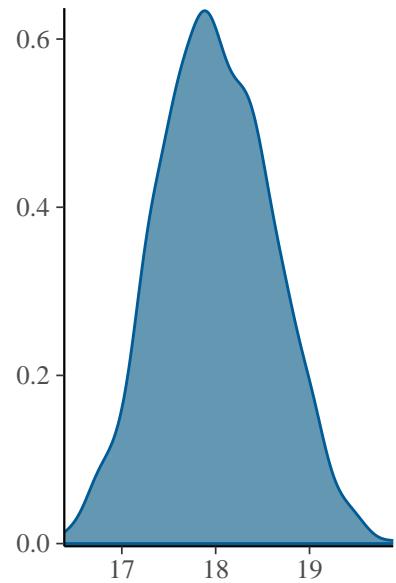
alpha



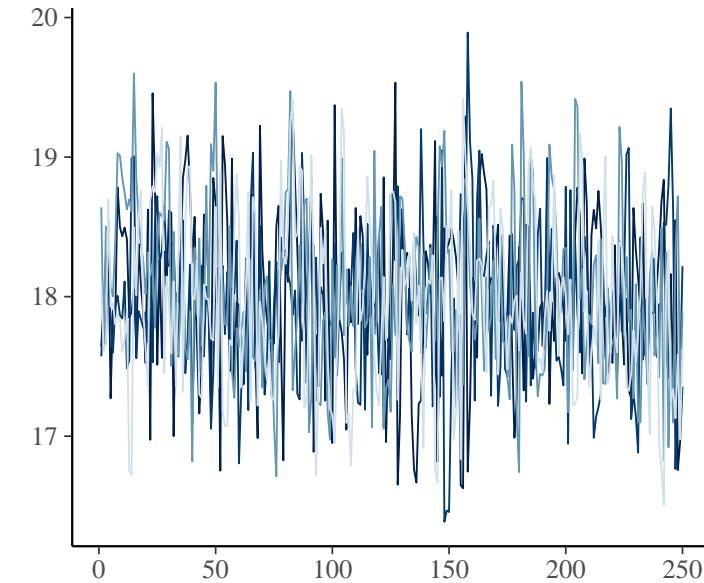
alpha



sigma



sigma



Chain

— 1

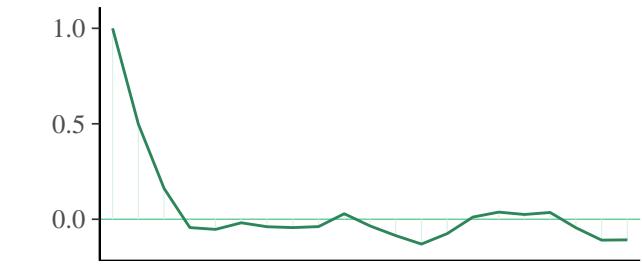
— 2

— 3

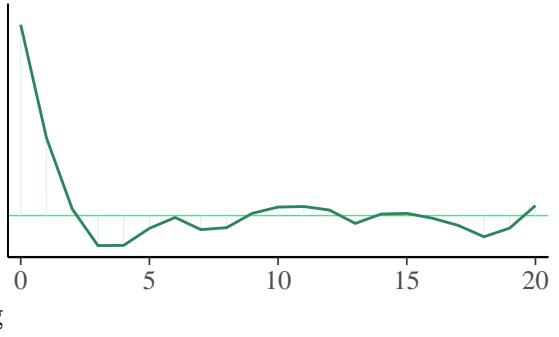
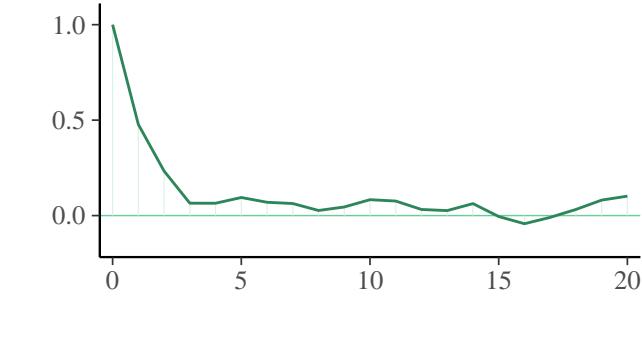
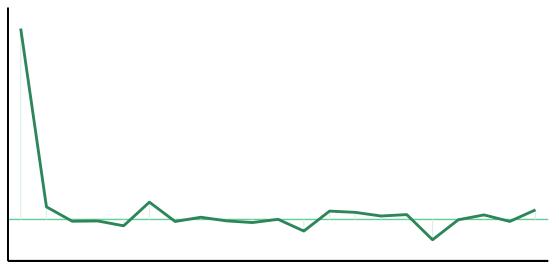
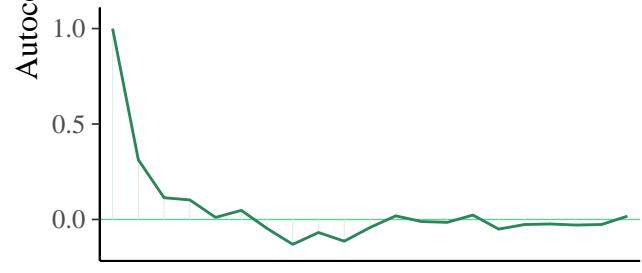
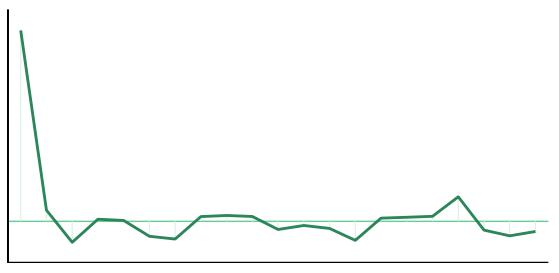
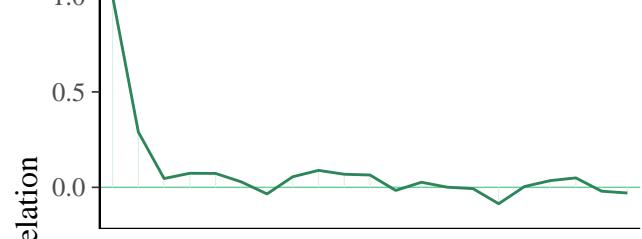
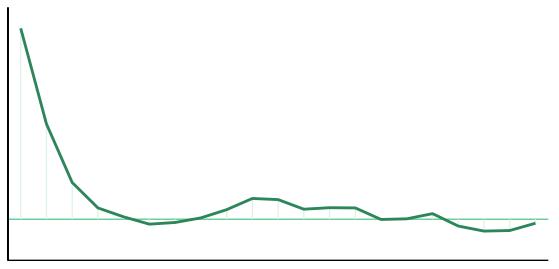
— 4

help("MCMC-diagnostics")

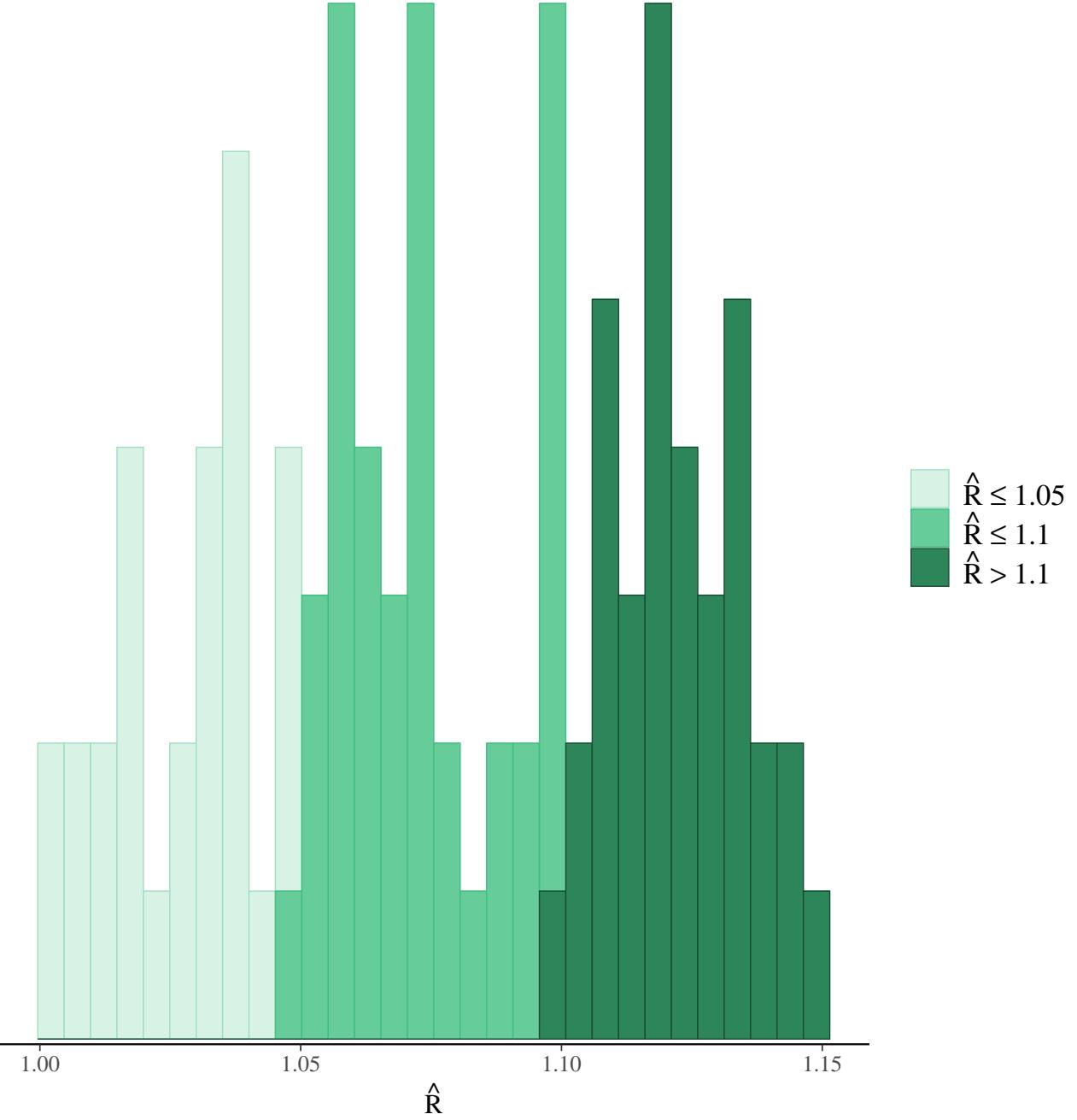
alpha



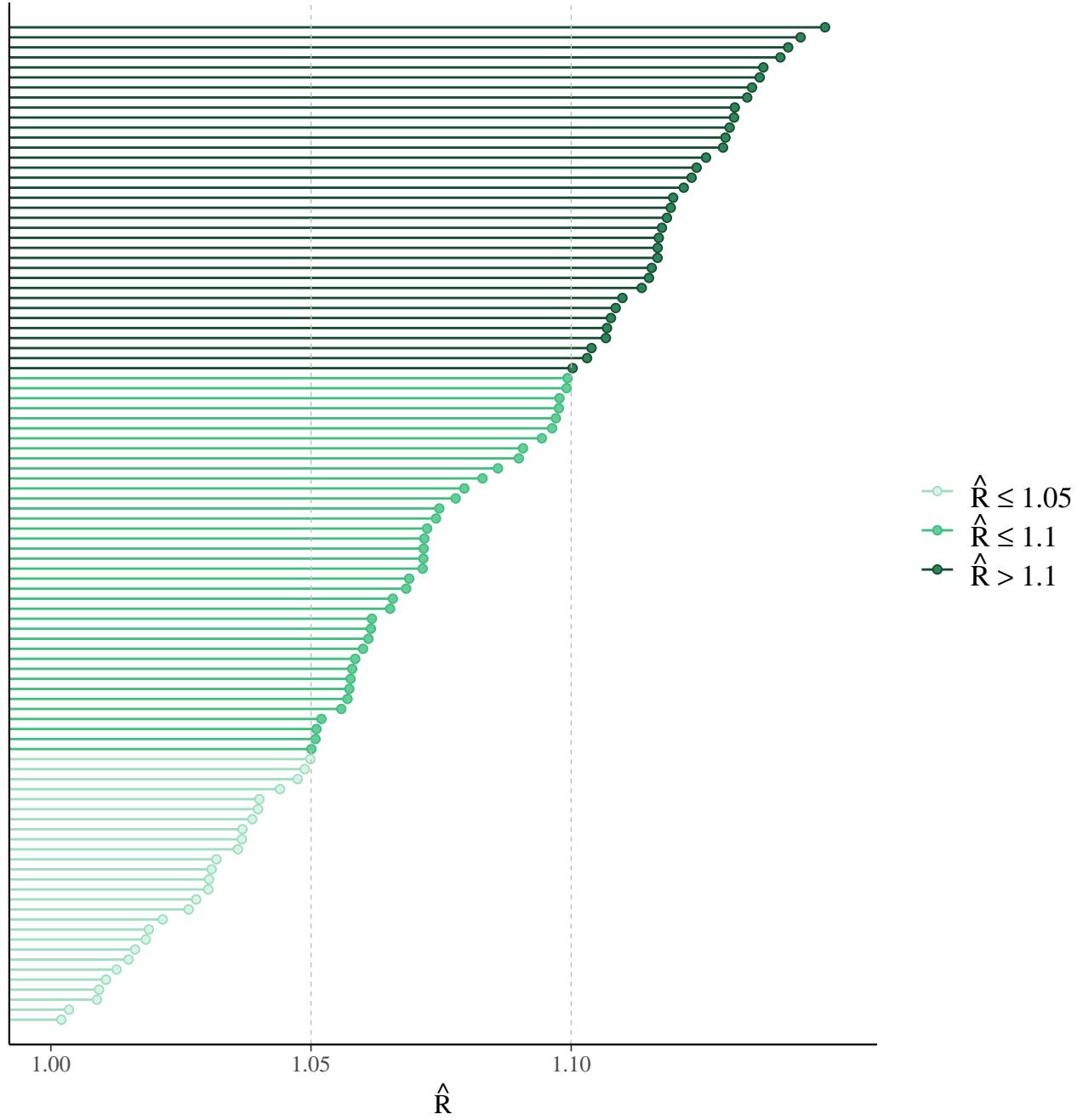
beta[1]



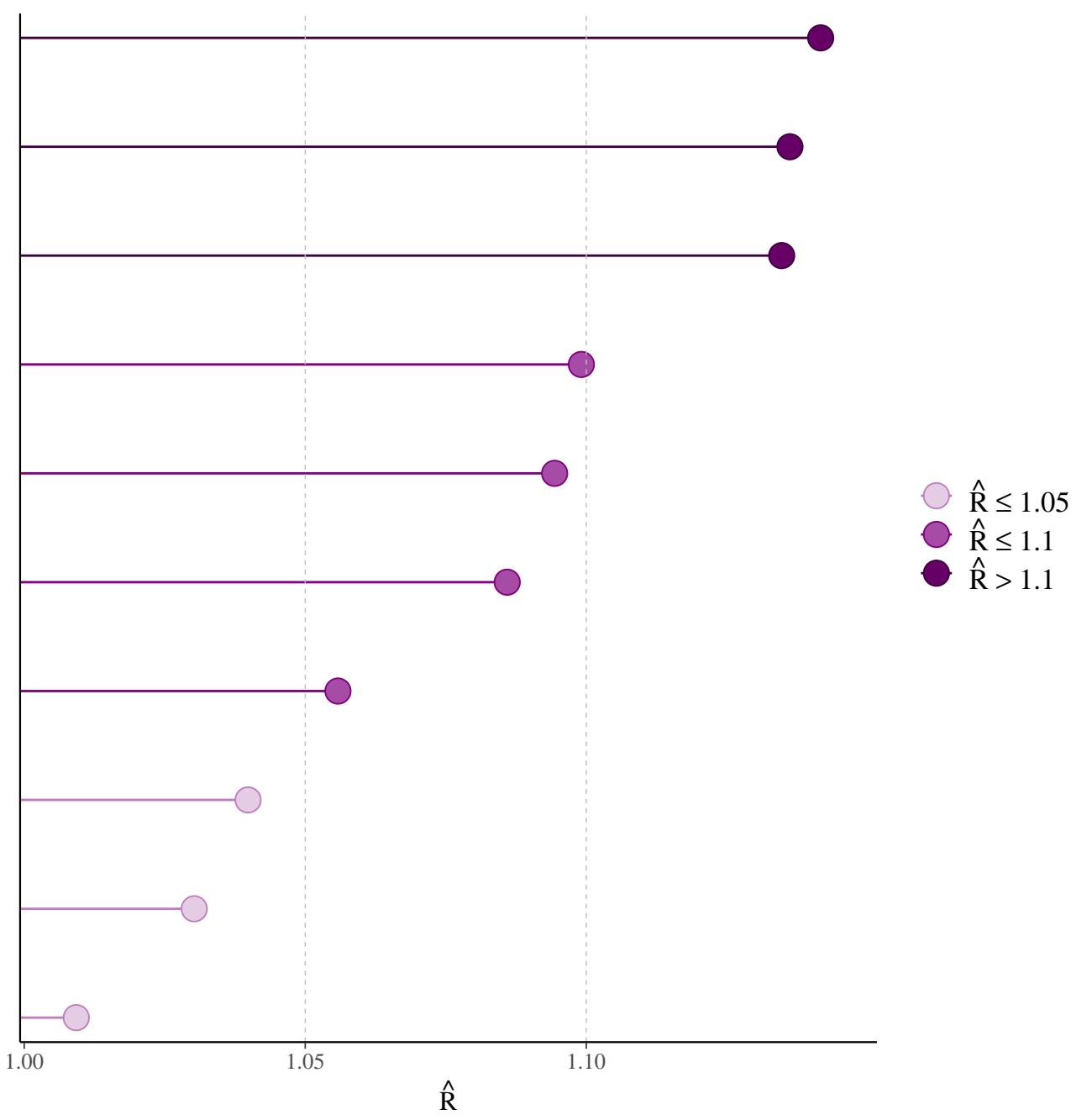
help("MCMC-diagnostics")



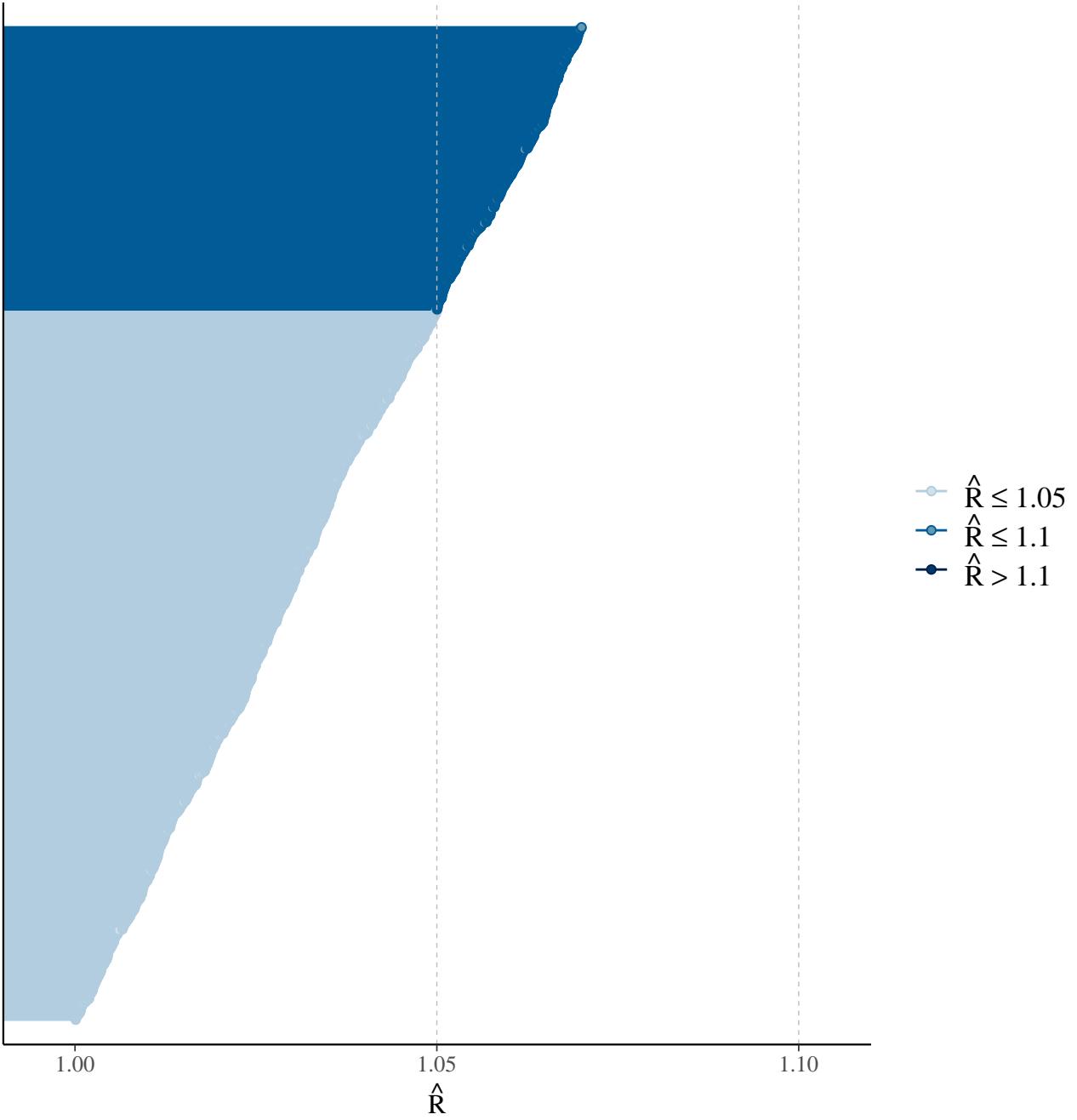
help("MCMC-diagnostics")



help("MCMC-diagnostics")

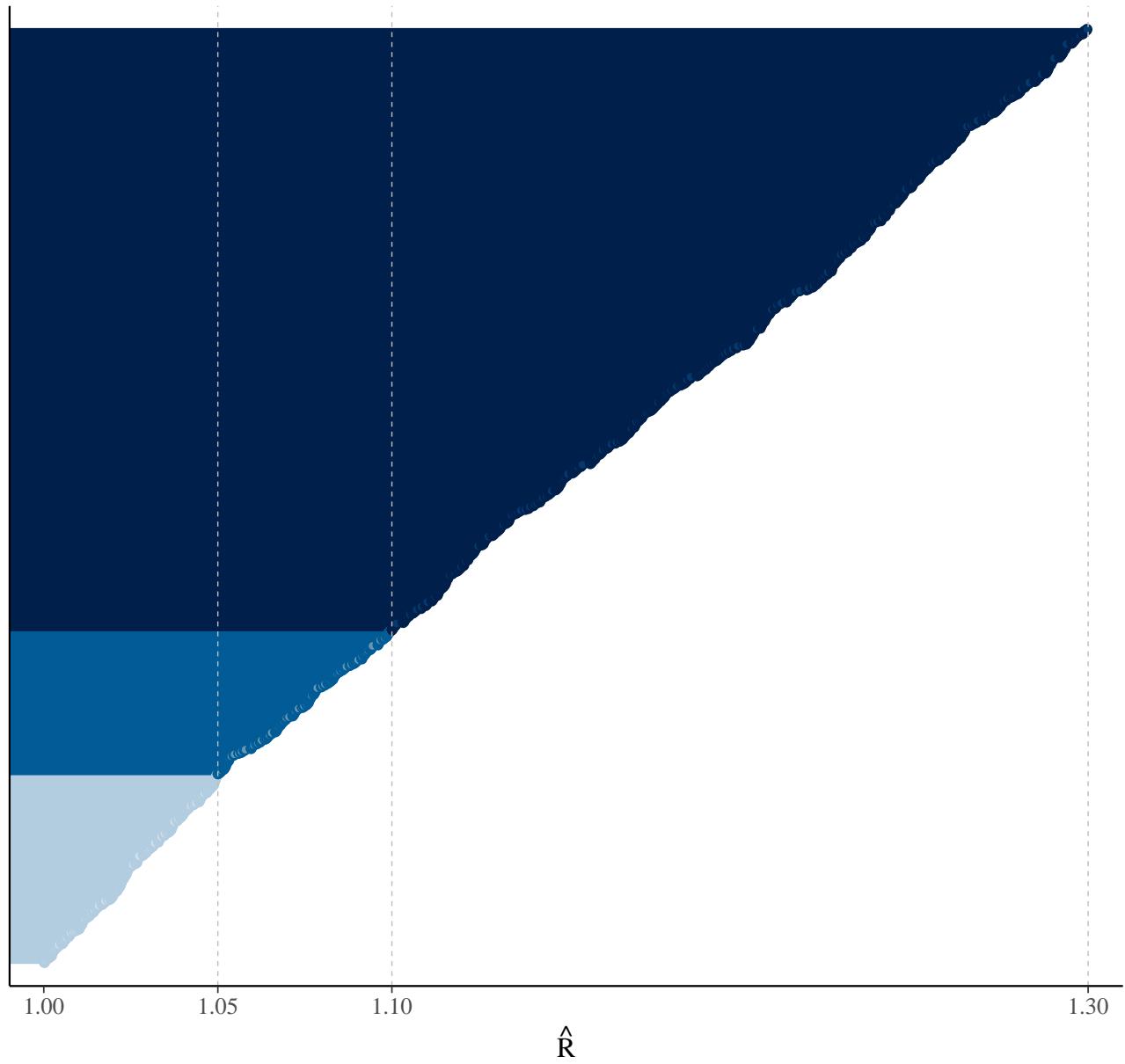


help("MCMC-diagnostics")

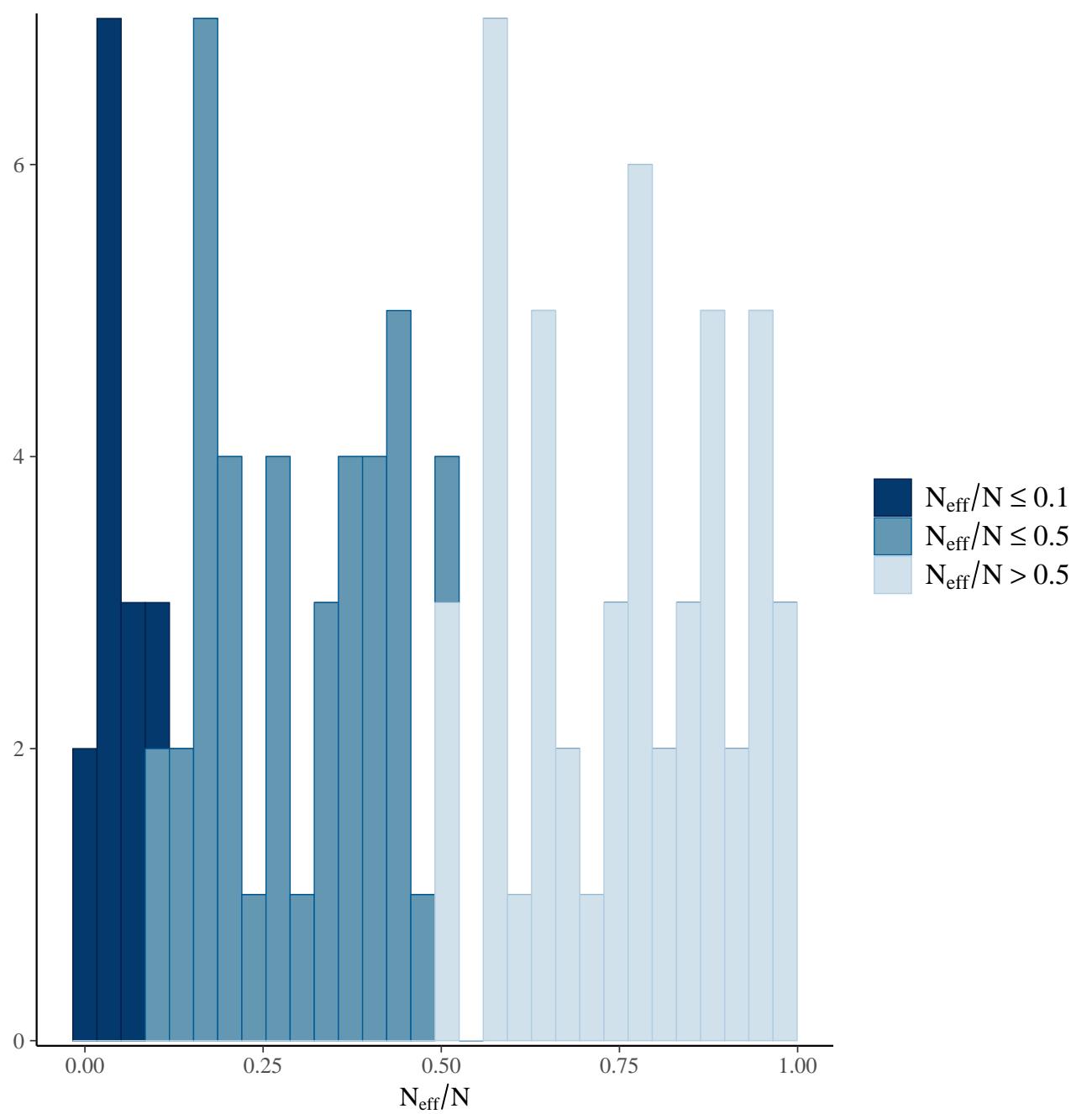


$\hat{R} \leq 1.05$ $\hat{R} \leq 1.1$ $\hat{R} > 1.1$

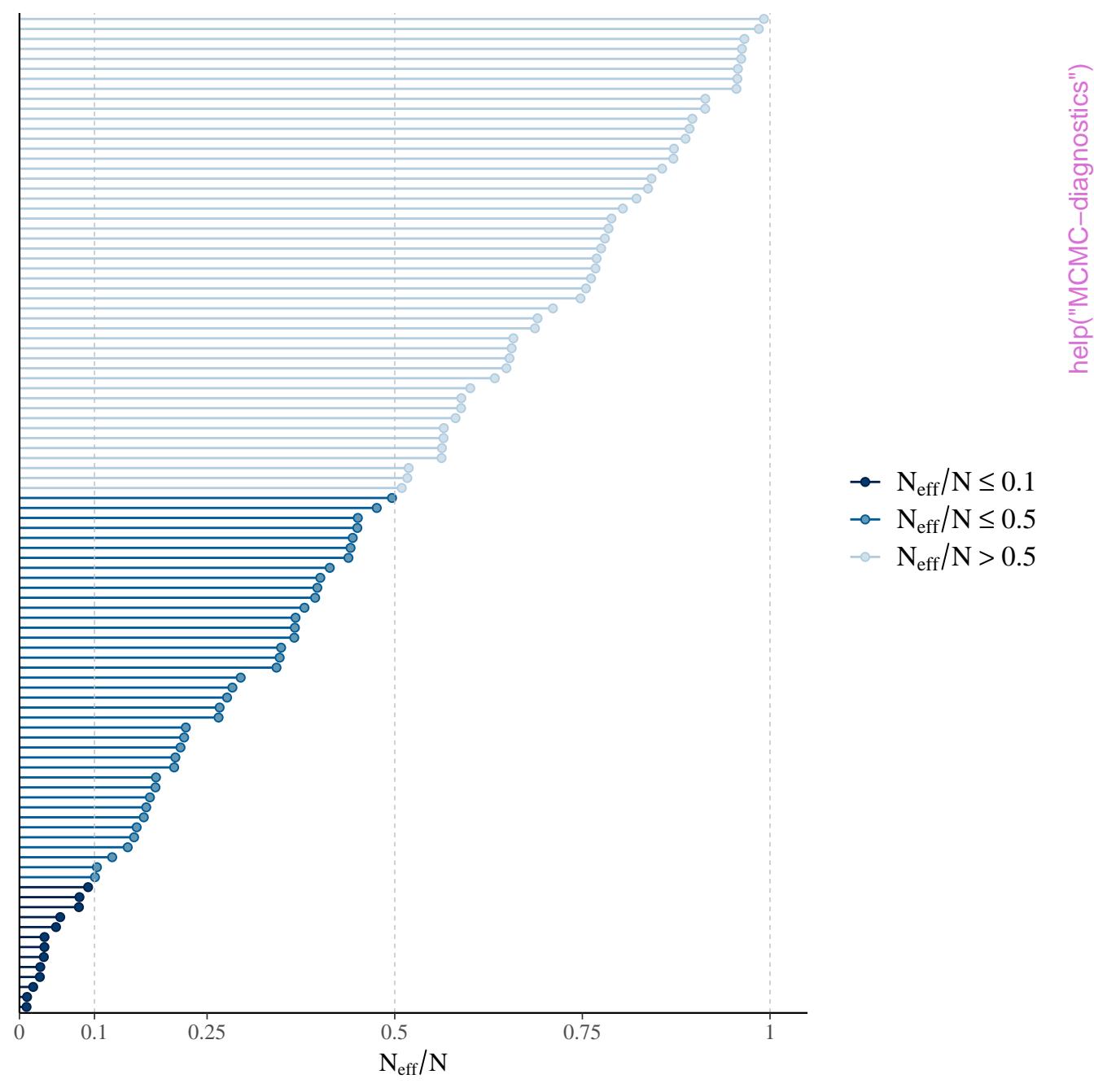
help("MCMC-diagnostics")



help("MCMC-diagnostics")

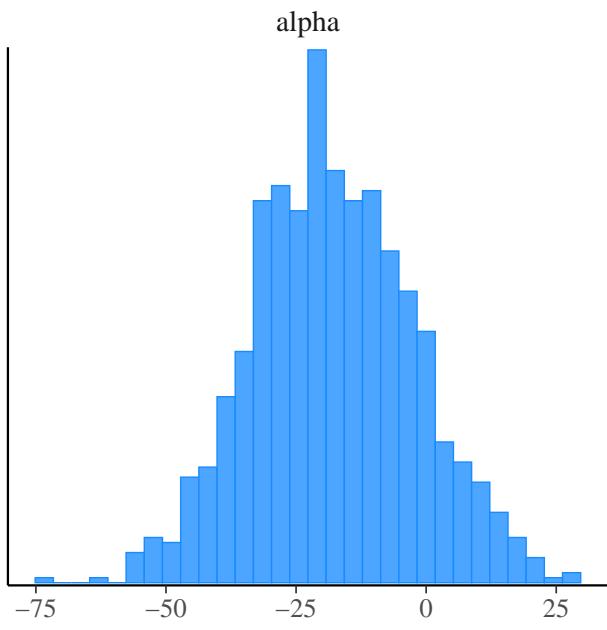


help("MCMC-diagnostics")

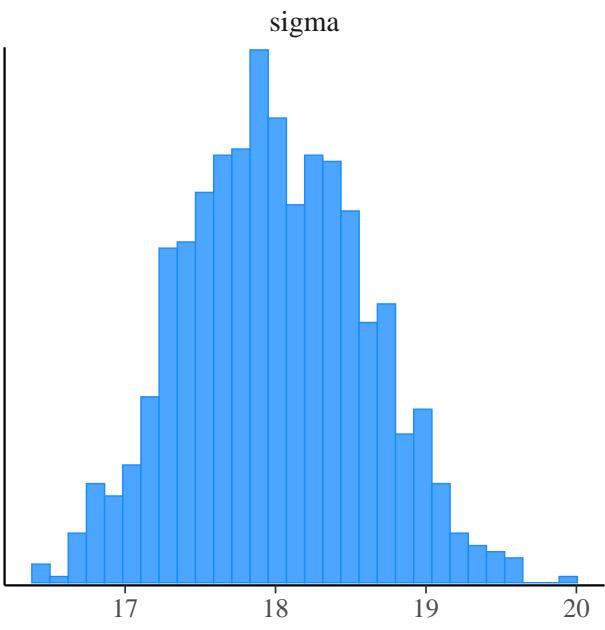


help("MCMC-distributions")

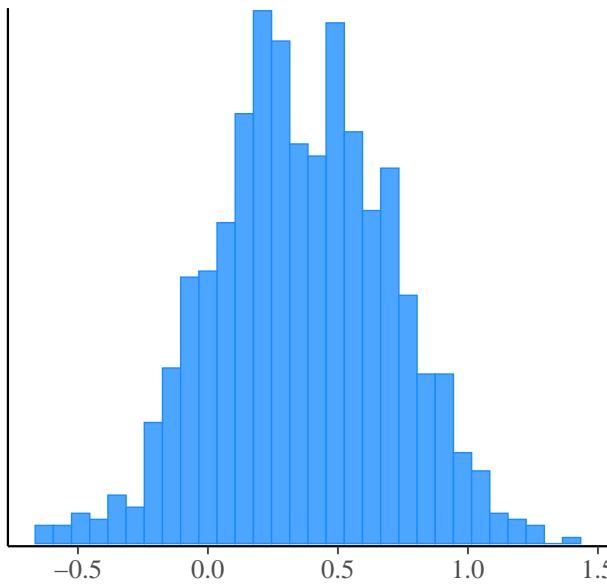
alpha



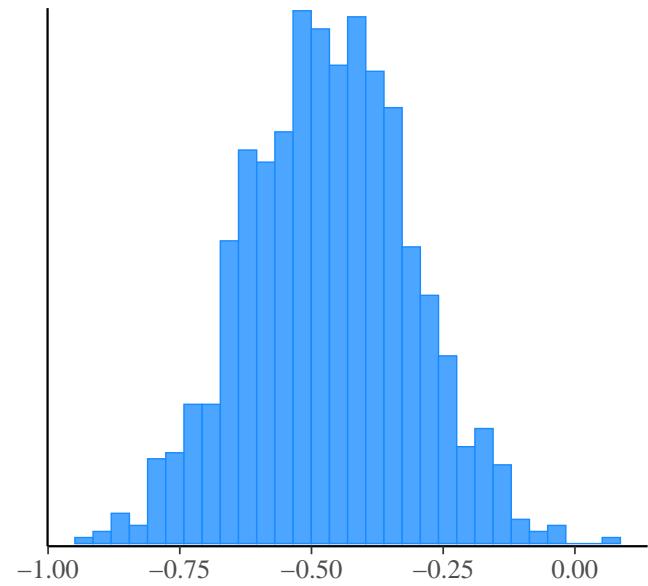
sigma



beta[1]

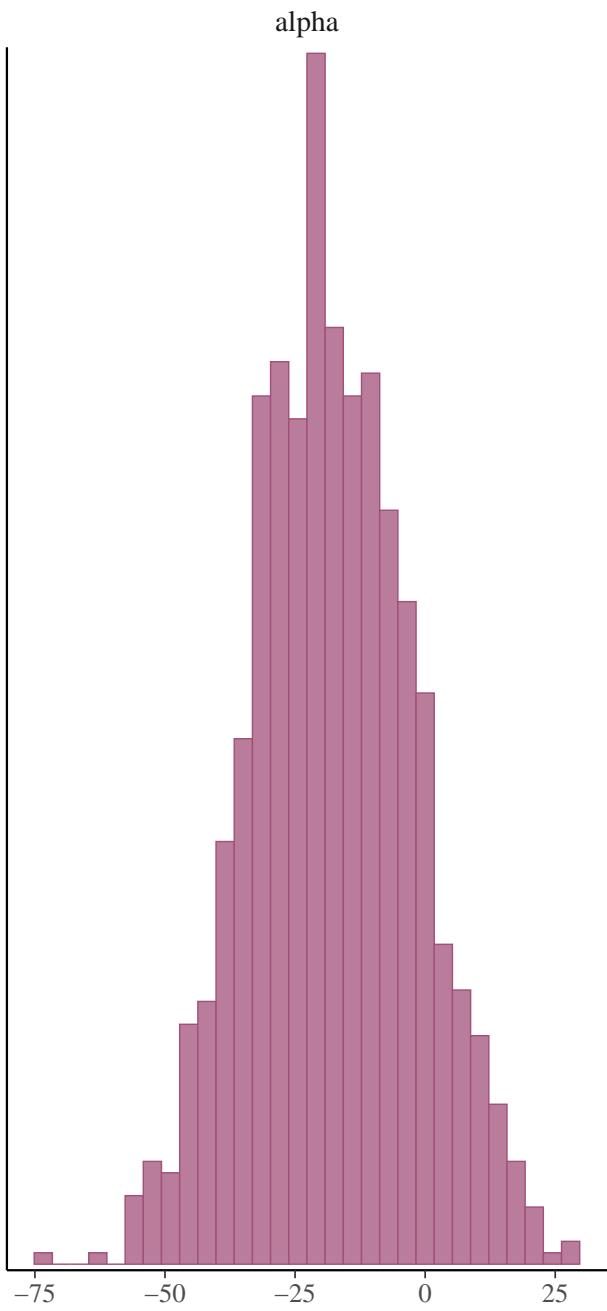


beta[2]

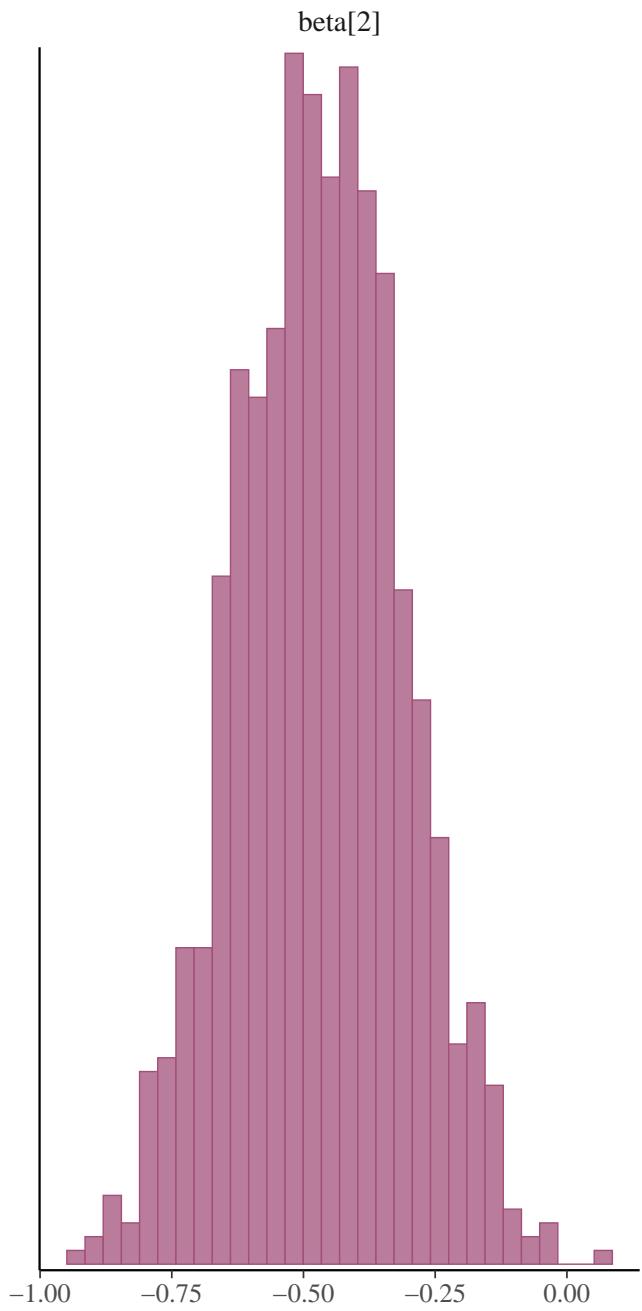


help("MCMC-distributions")

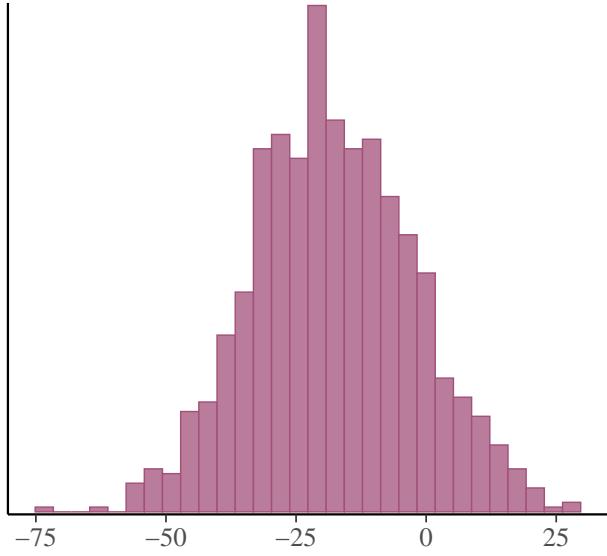
alpha



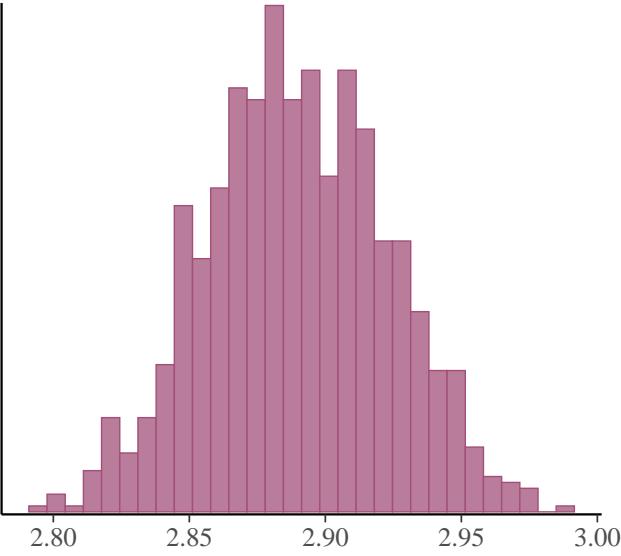
beta[2]



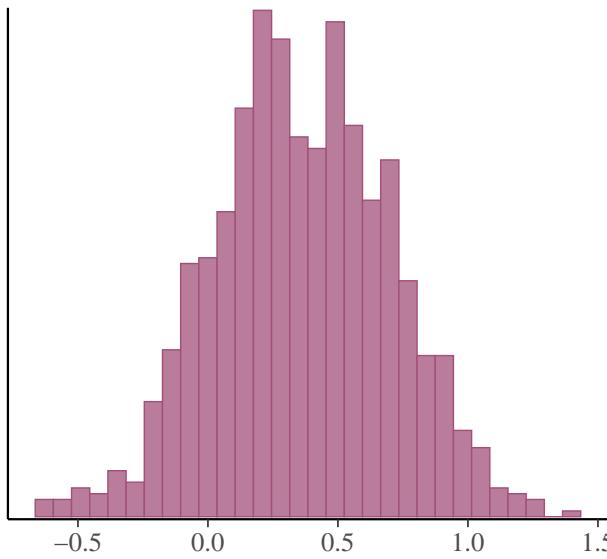
α



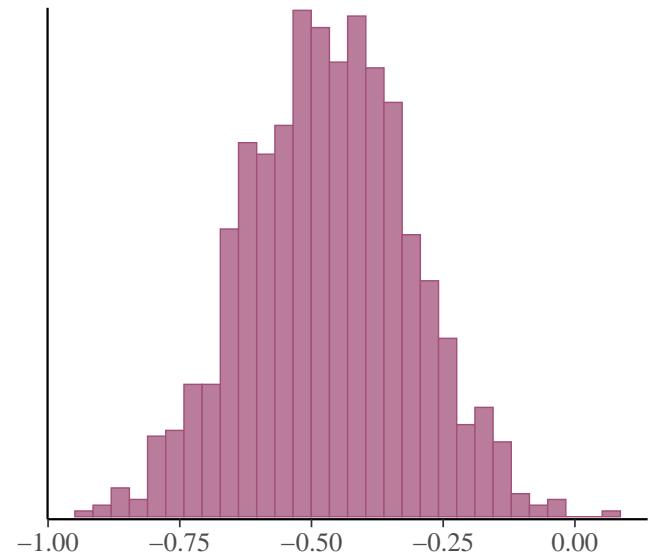
$\log(\sigma)$



β_1



β_2



help("MCMC-distributions")

```
help("MCMC-distributions")
```

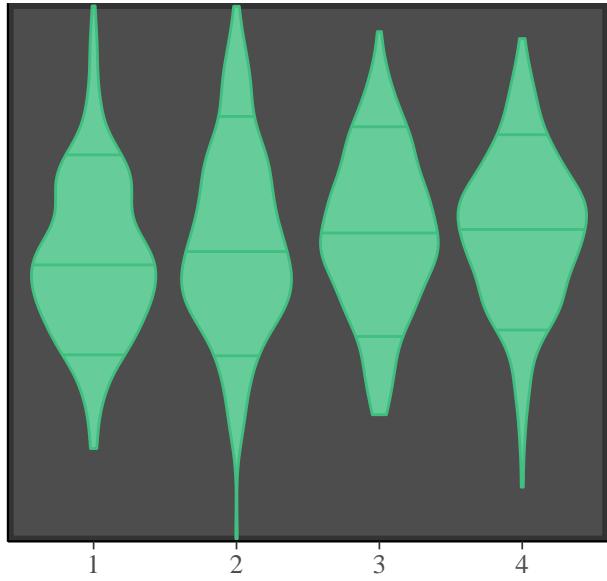
sigma

17 18 19

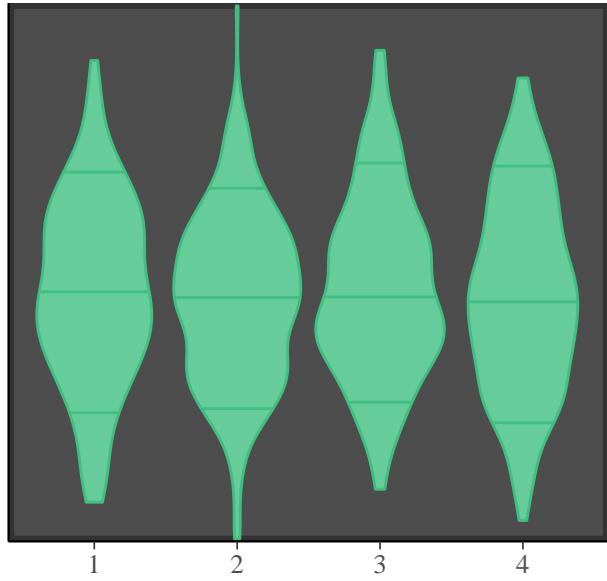
beta[2]

-0.75 -0.50 -0.25 0.00

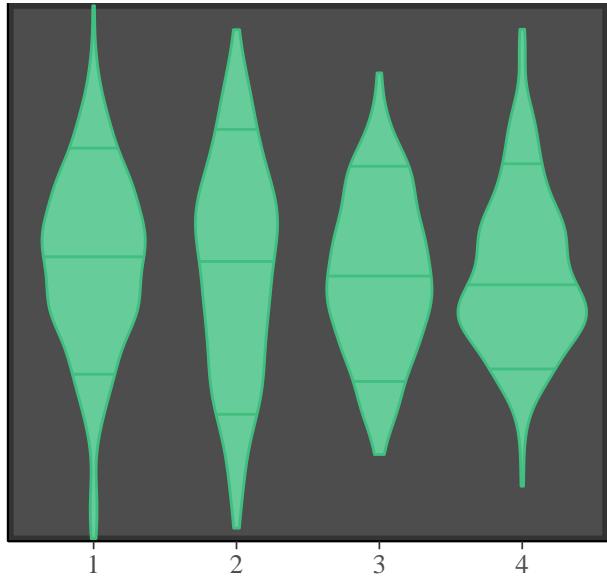
alpha



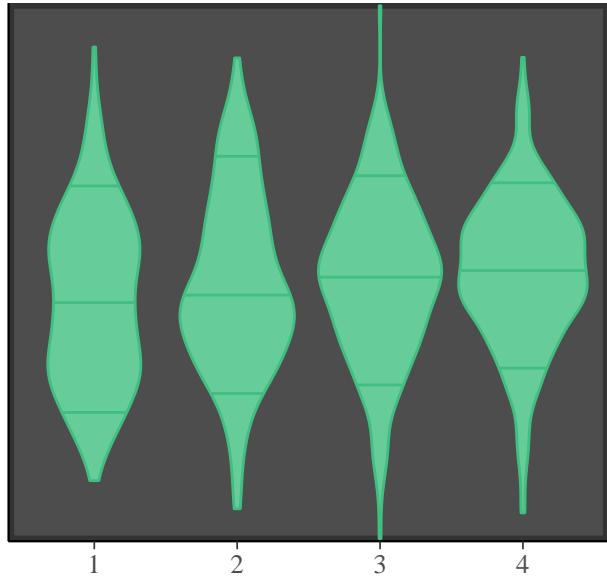
sigma



beta[1]

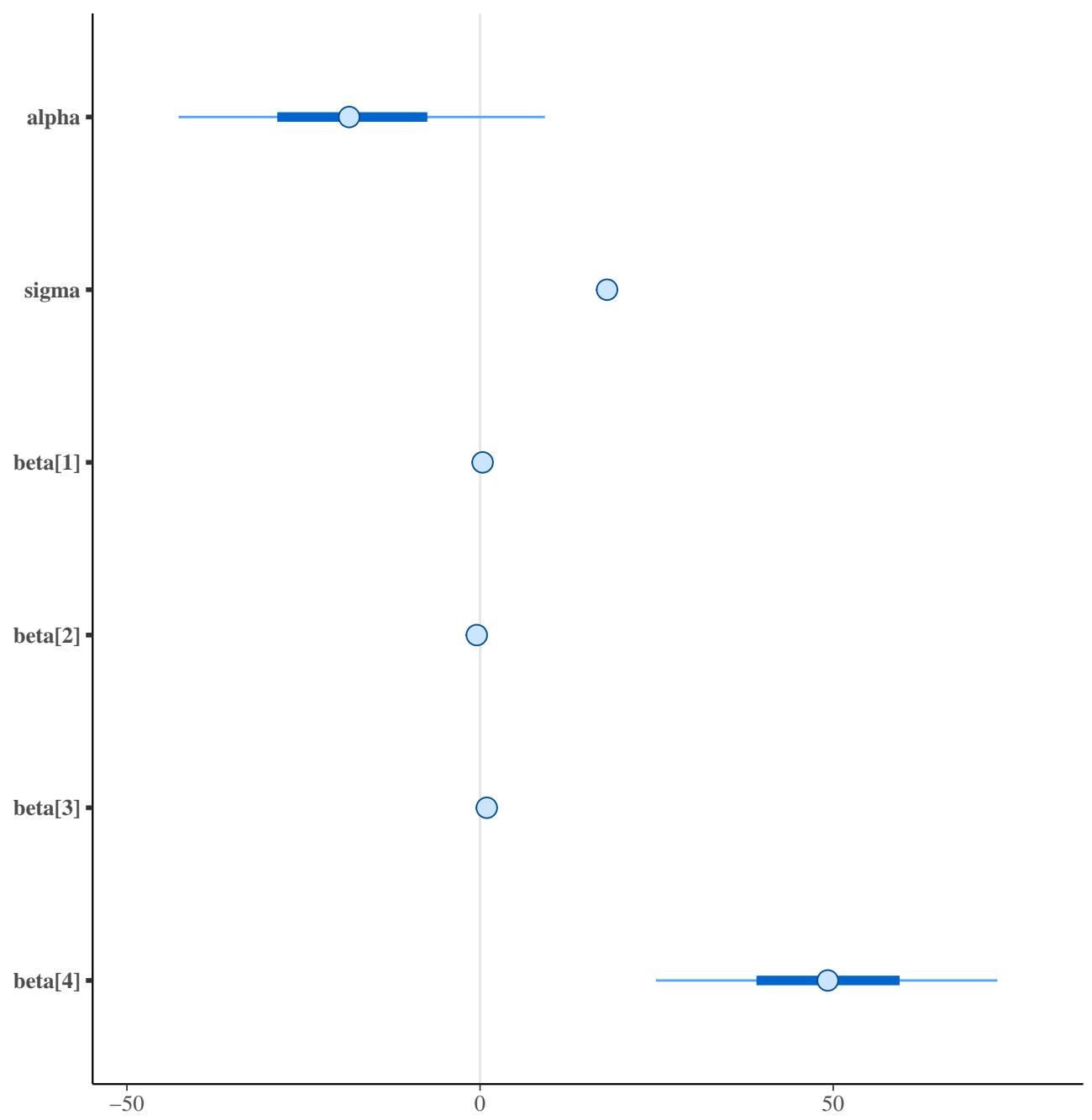


beta[2]

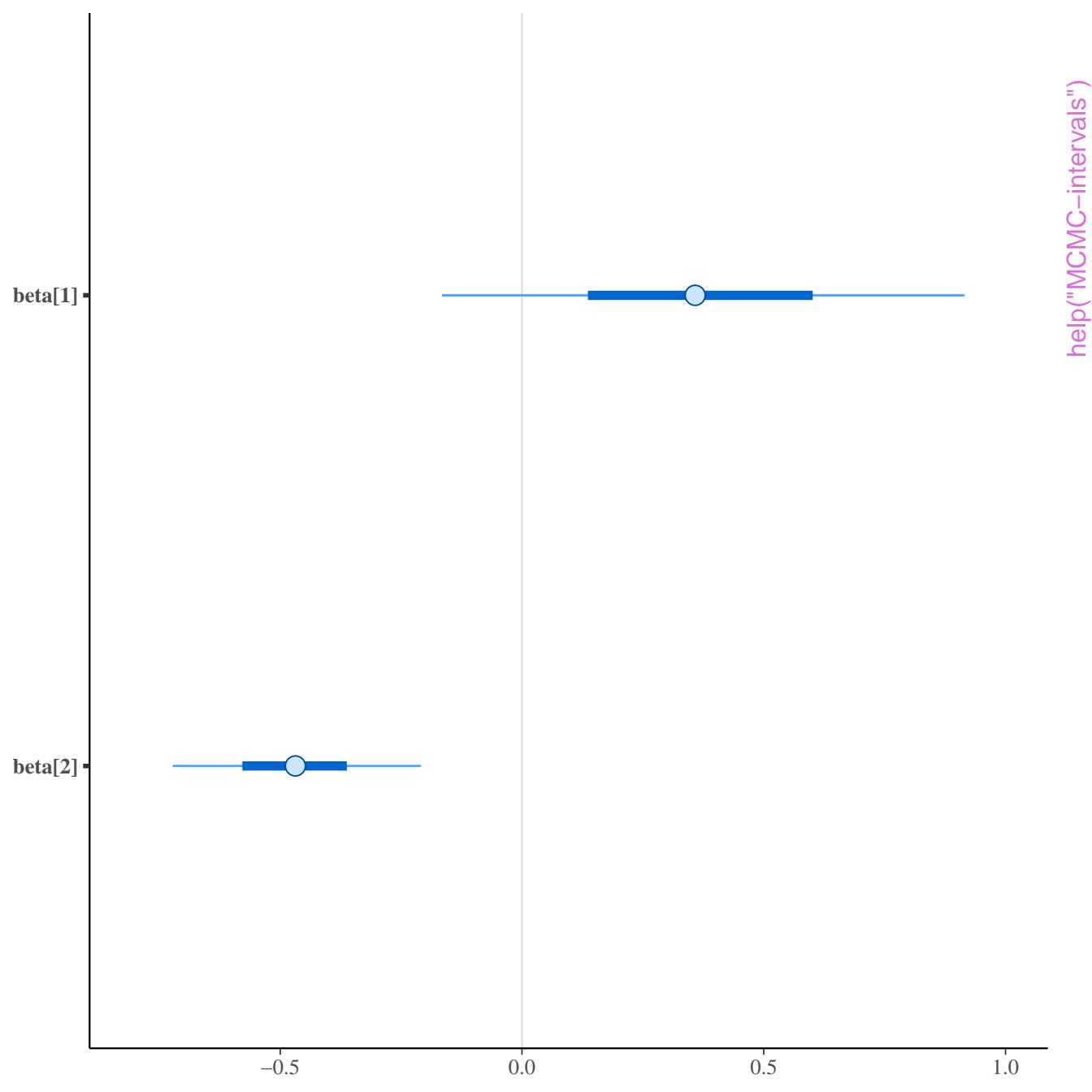


help("MCMC-distributions")

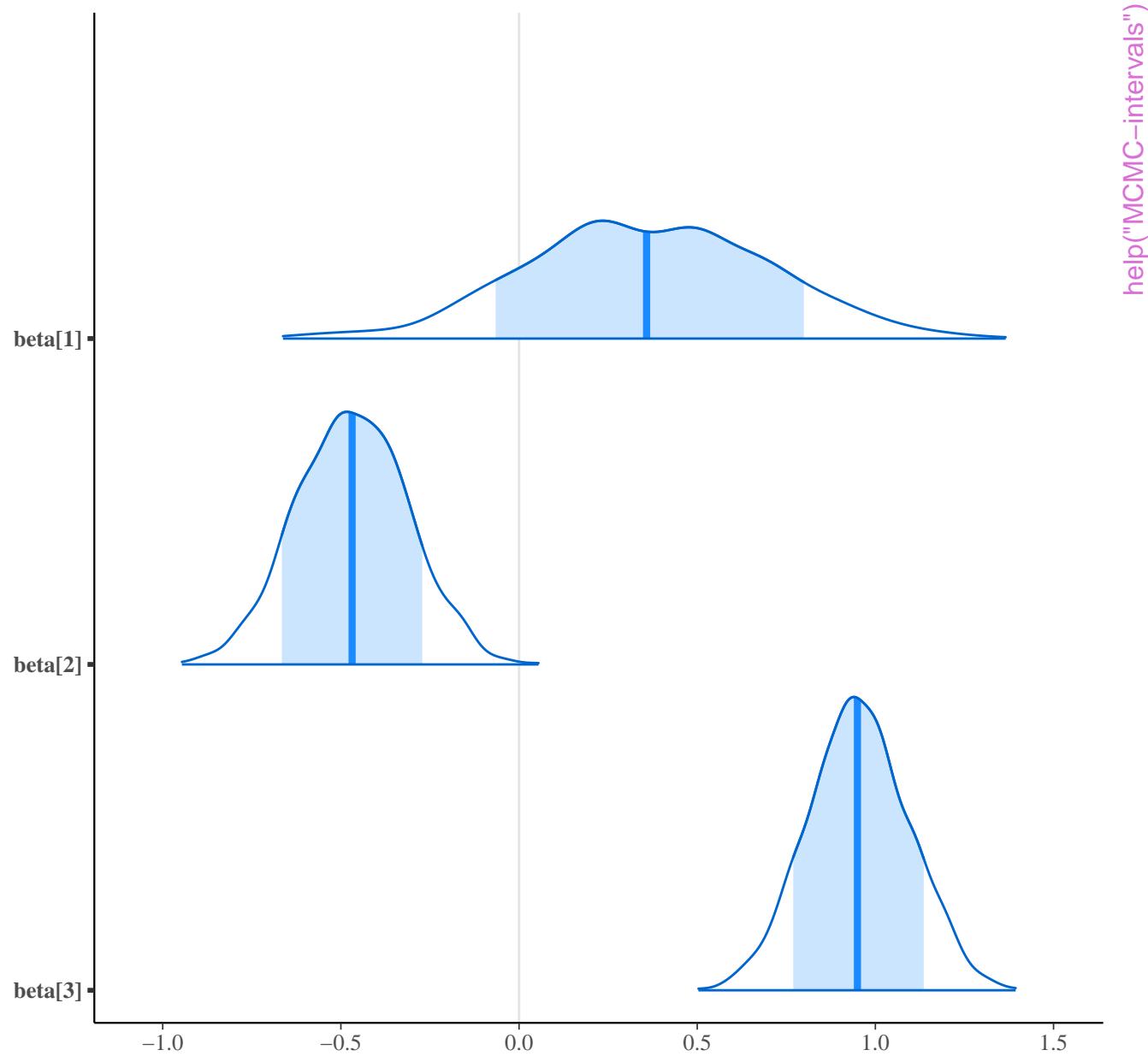
```
help("MCMC-intervals")
```



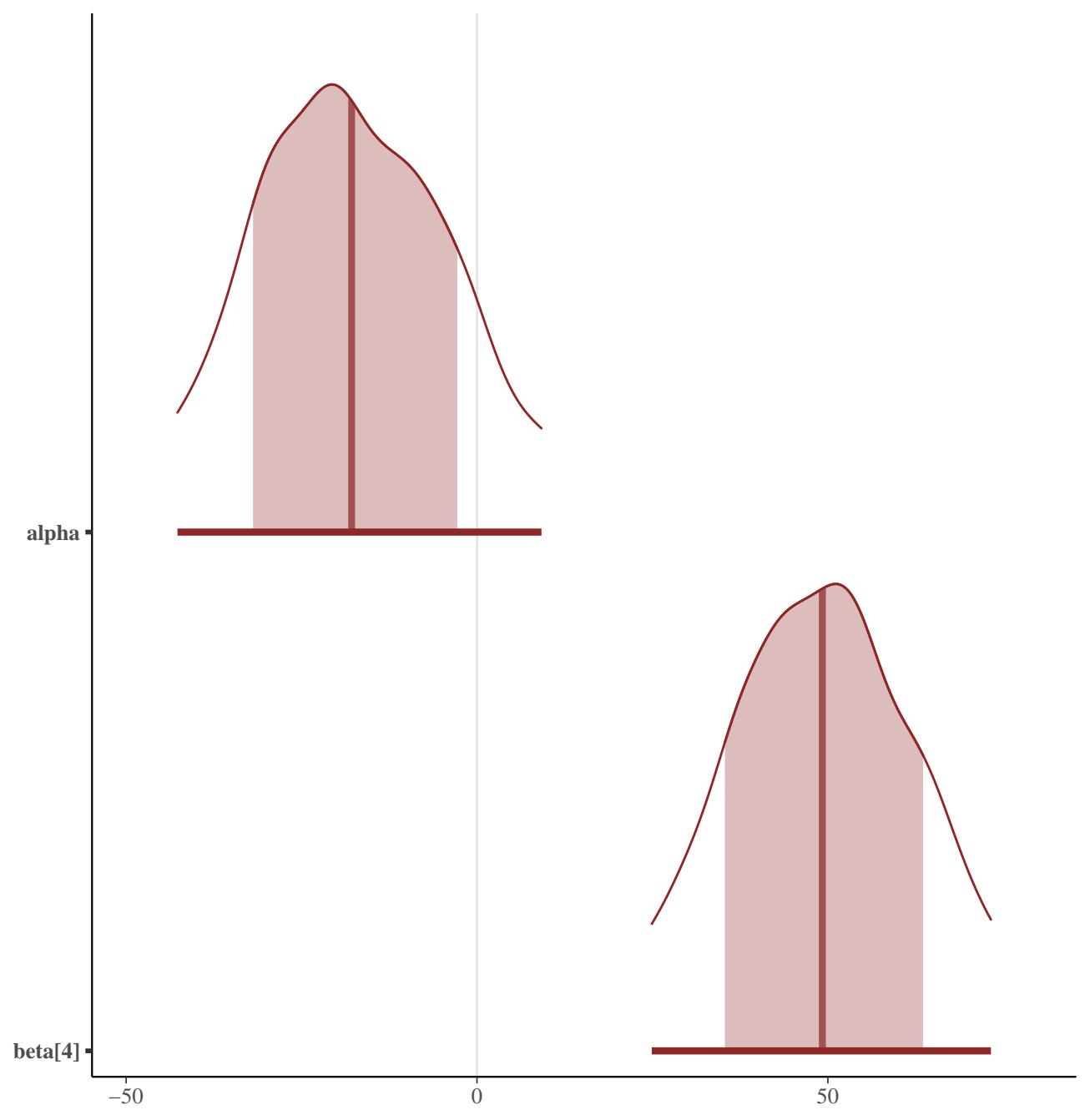
```
help("MCMC-intervals")
```



Posterior distributions
with medians and 80% intervals



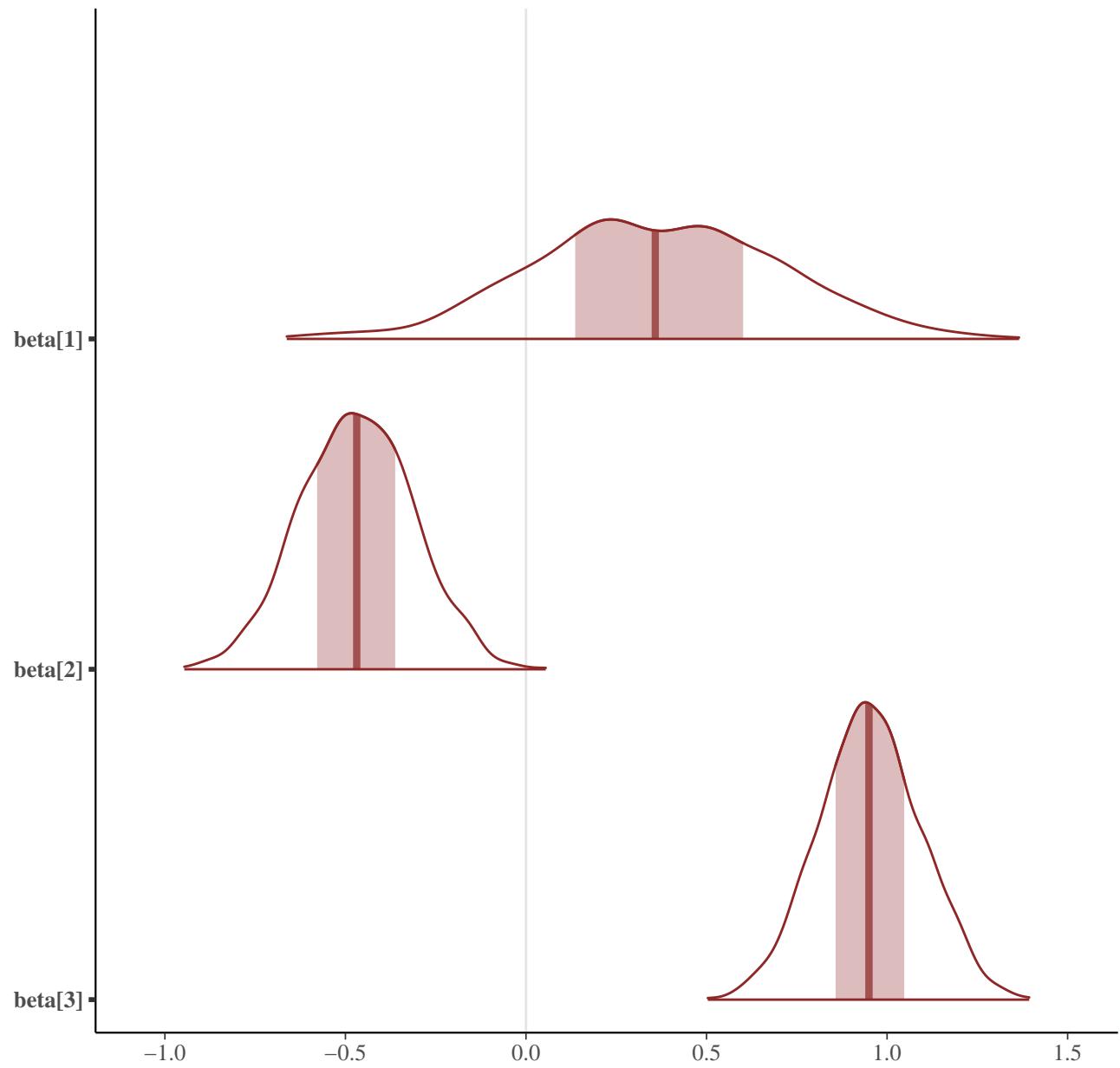
help("MCMC-intervals")



Curves have same area

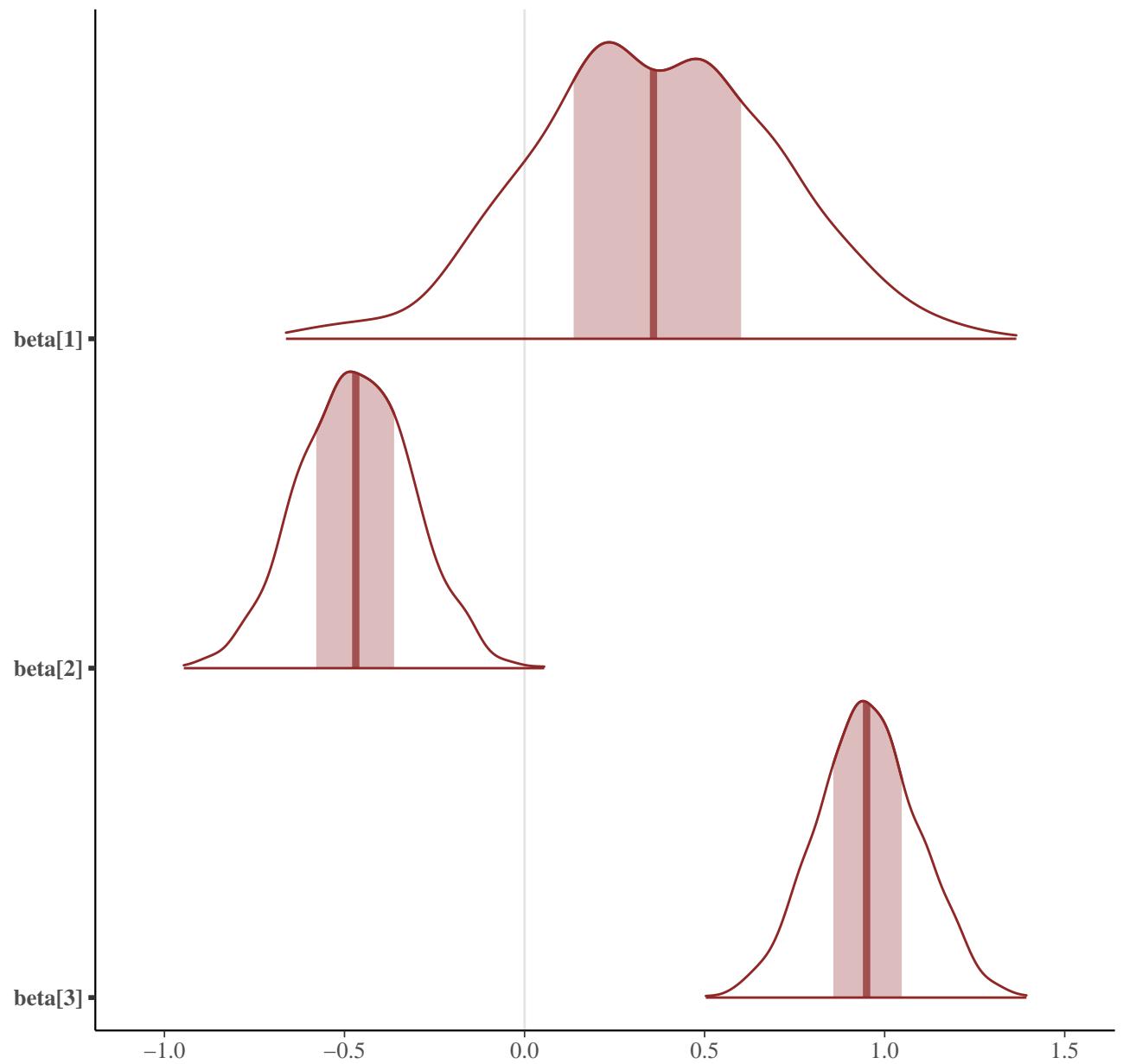
A wide, uncertain interval is spread thin when areas are equal

help("MCMC-intervals")



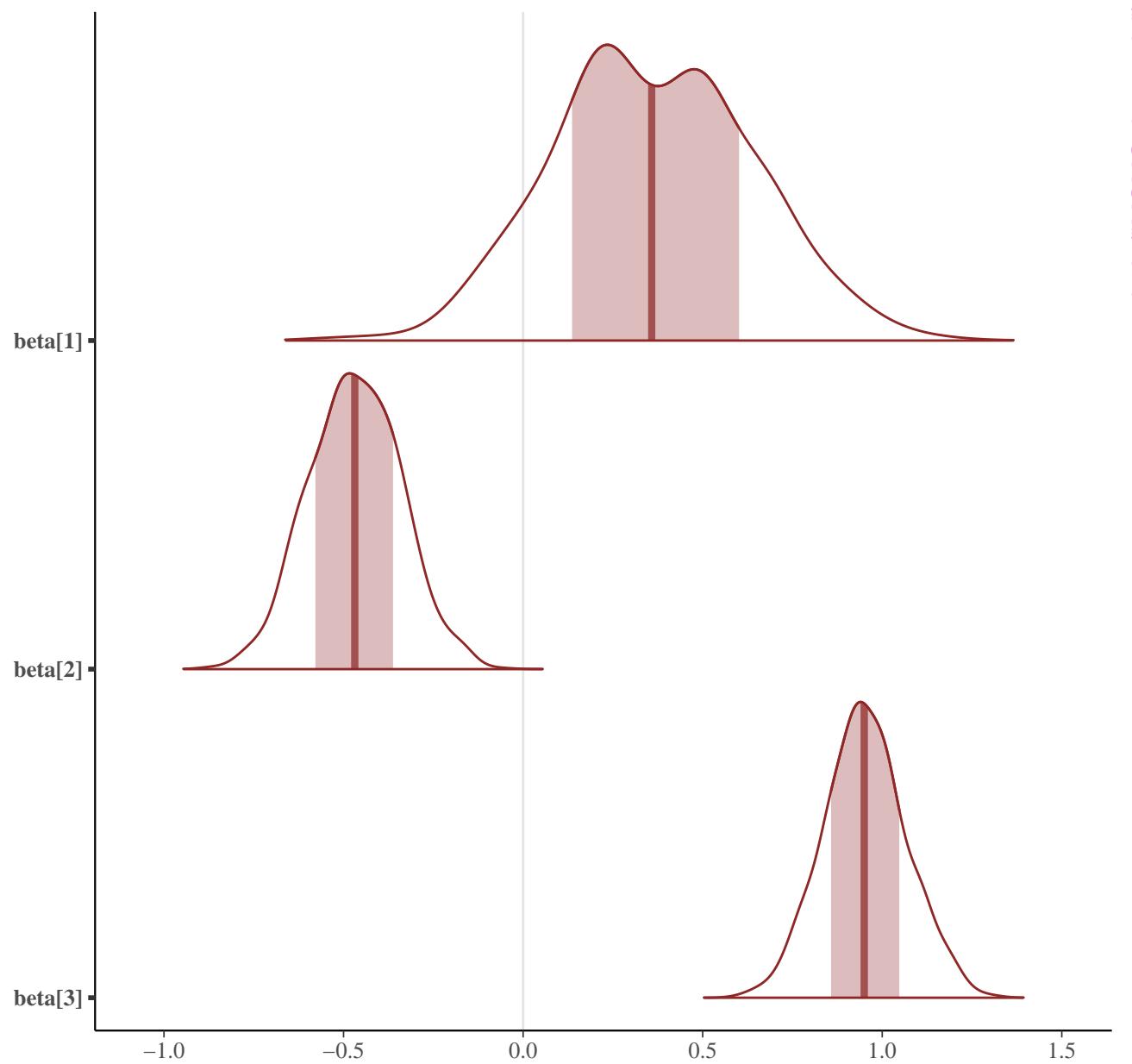
Curves have same maximum height

Local curvature is clearer but more uncertain curves use more area



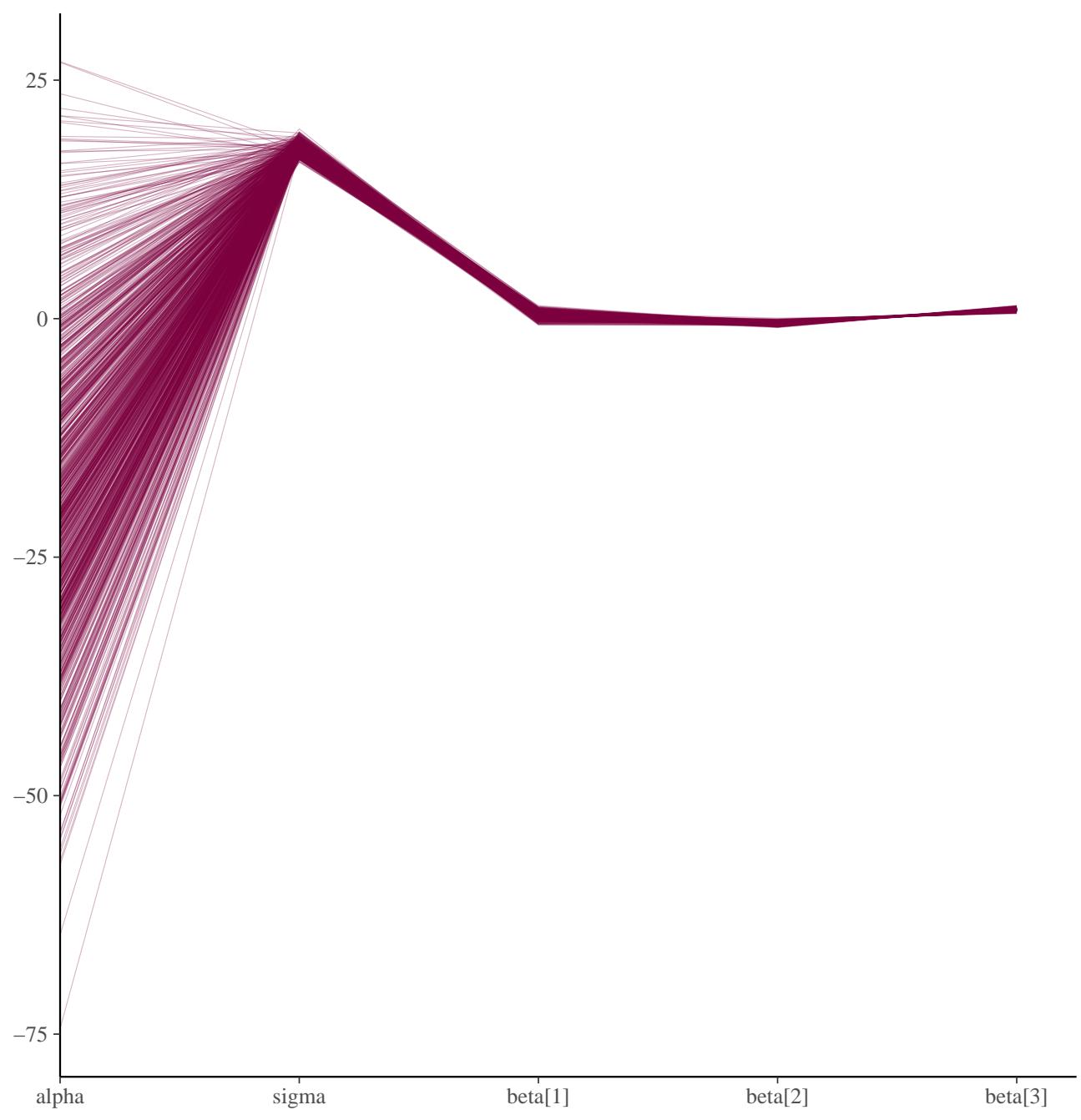
Same maximum heights but heights scaled by square-root

Compromise: Local curvature is accentuated and less area is used

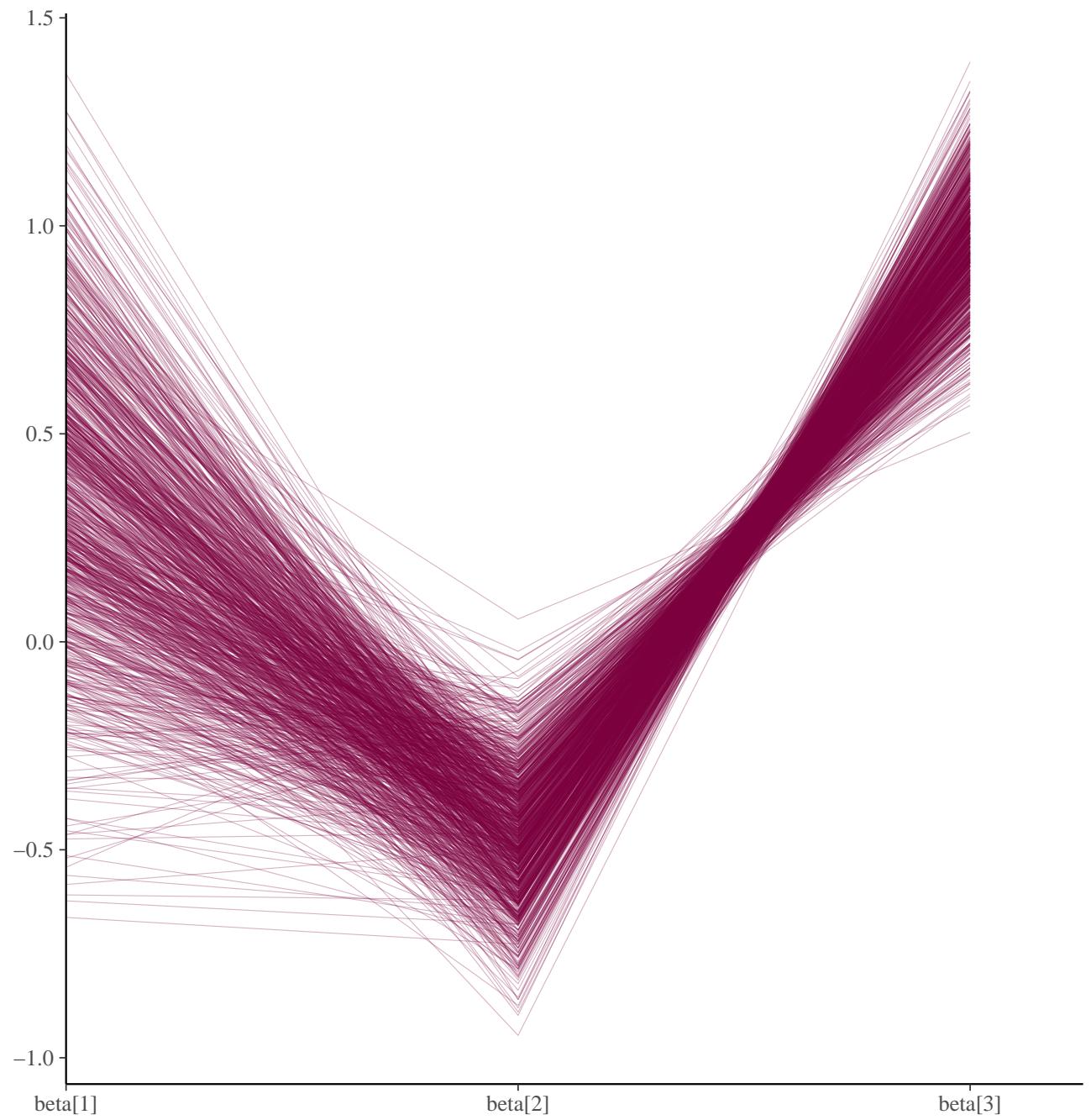


help("MCMC-intervals")

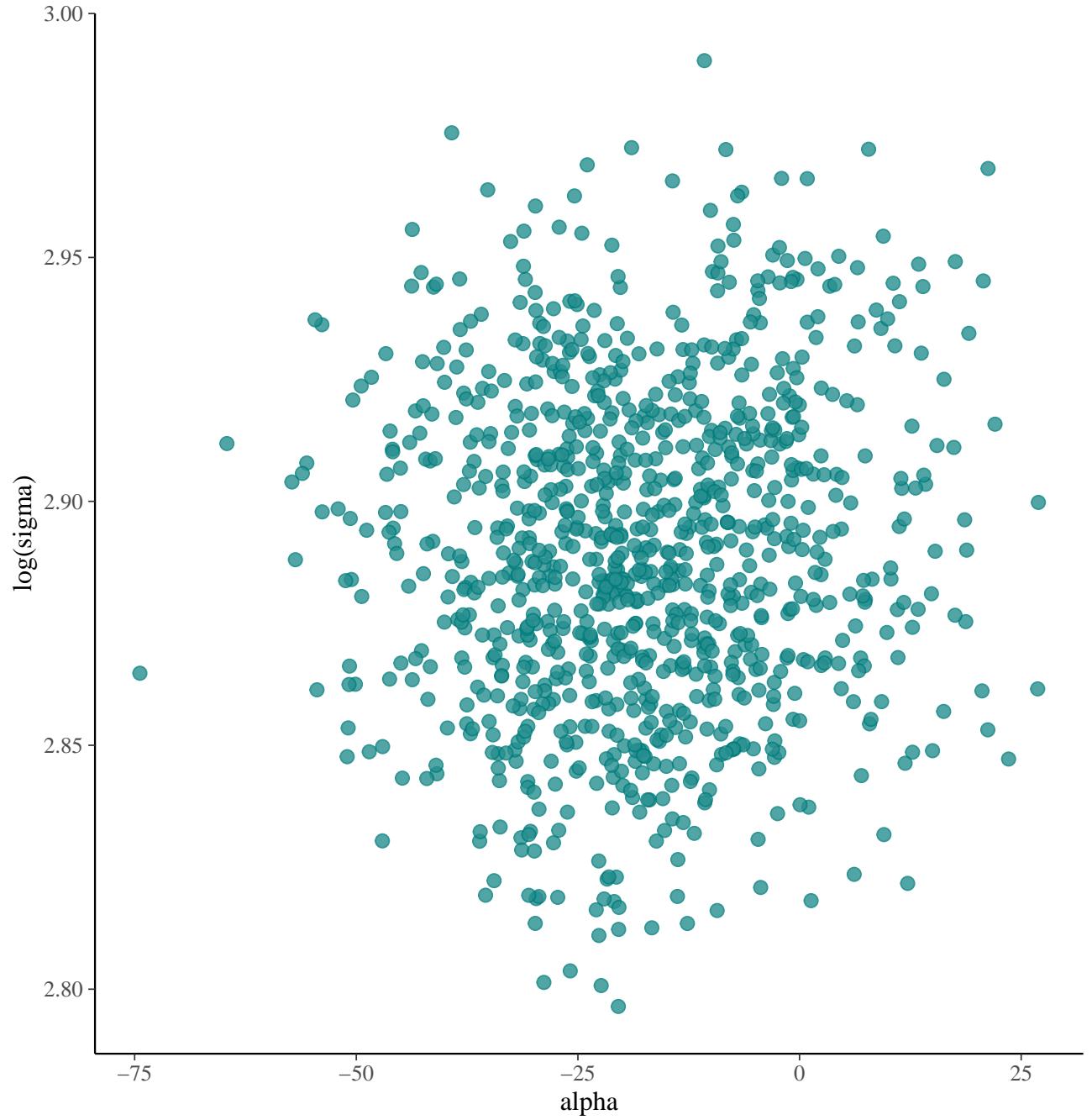
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help("MCMC-parcoord")
```



```
help("MCMC-parcoord")
```

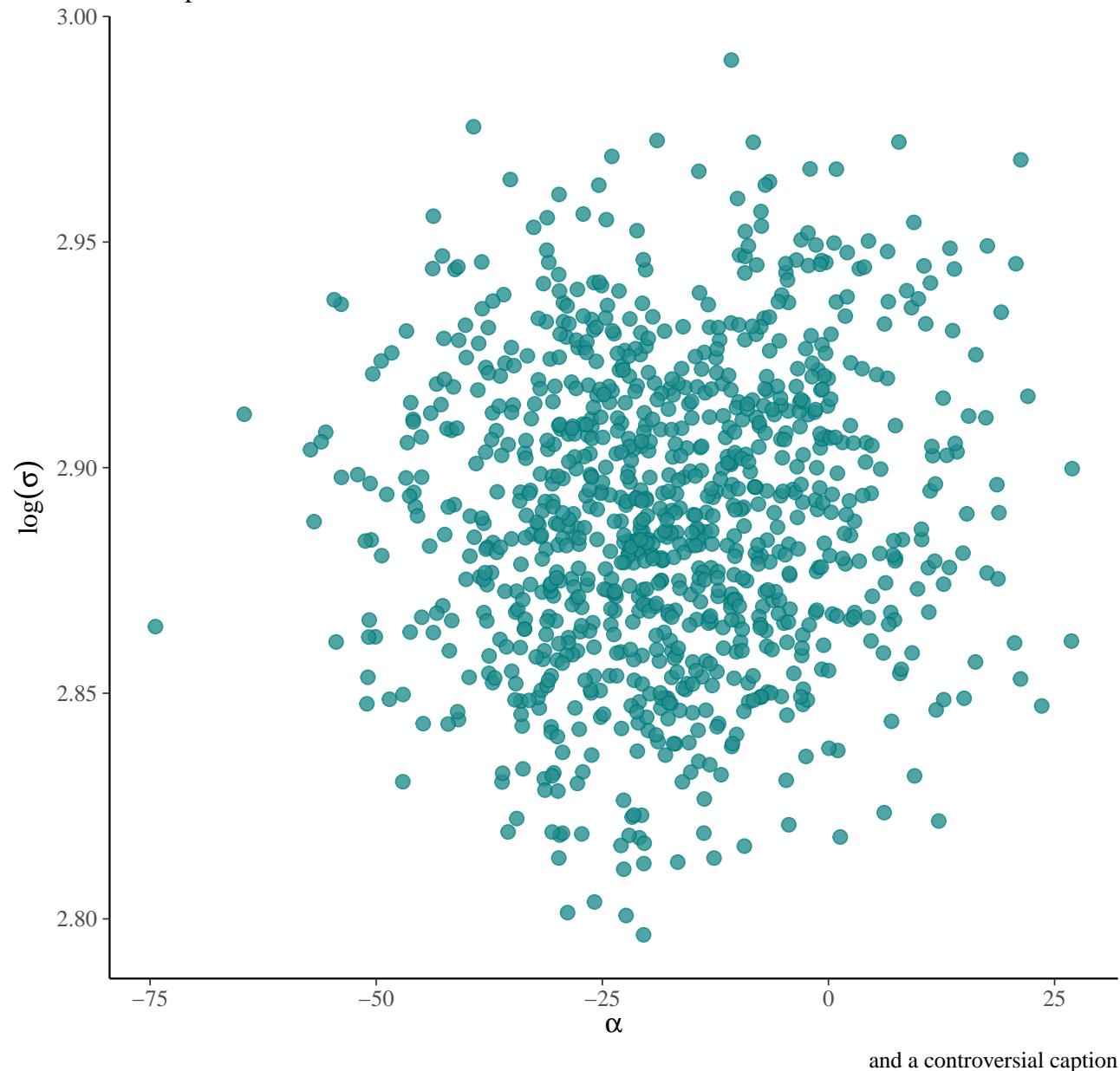


help("MCMC-scatterplots")

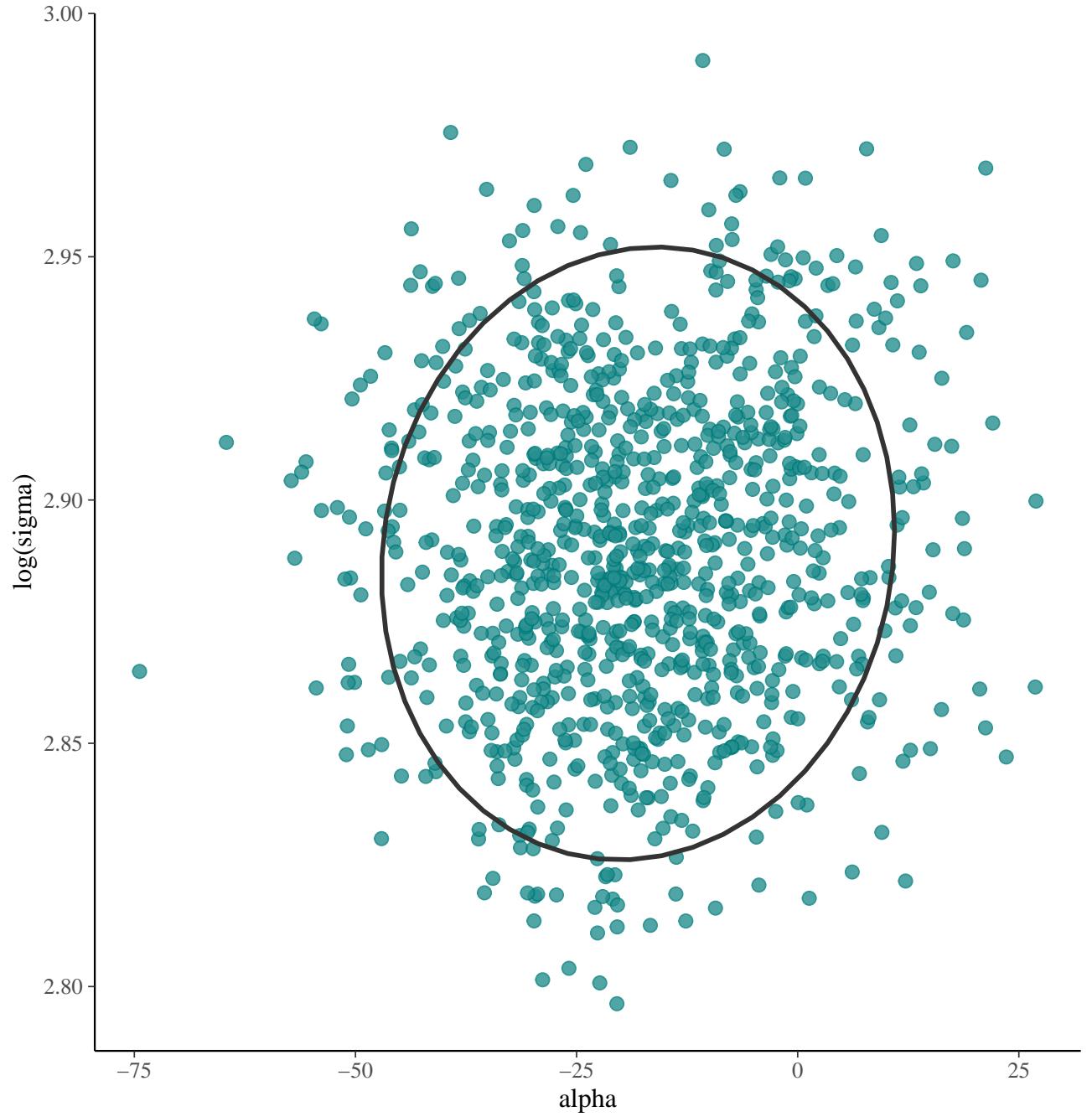


Insert your own headline-grabbing title
with a provocative subtitle

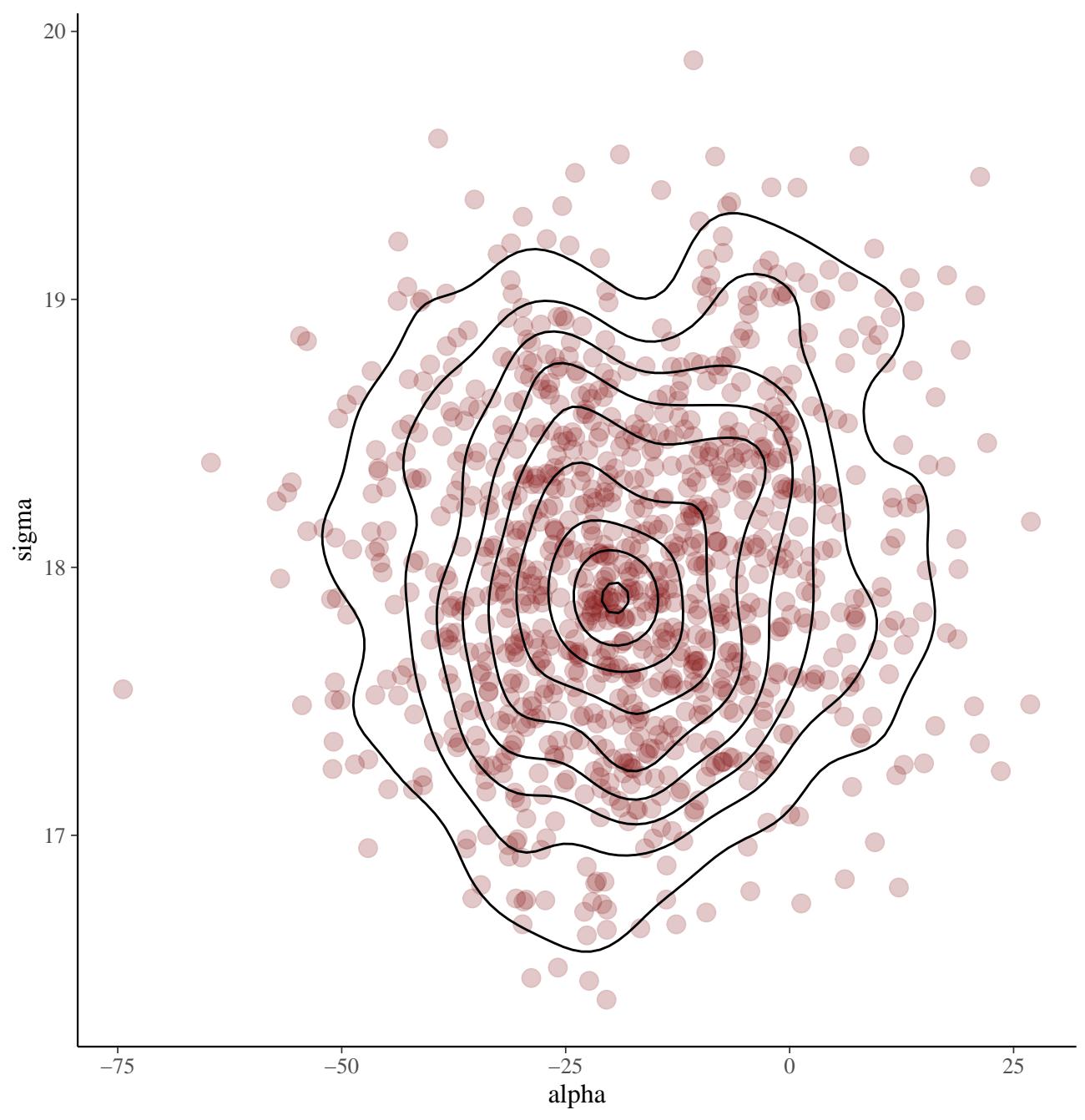
help("MCMC-scatterplots")



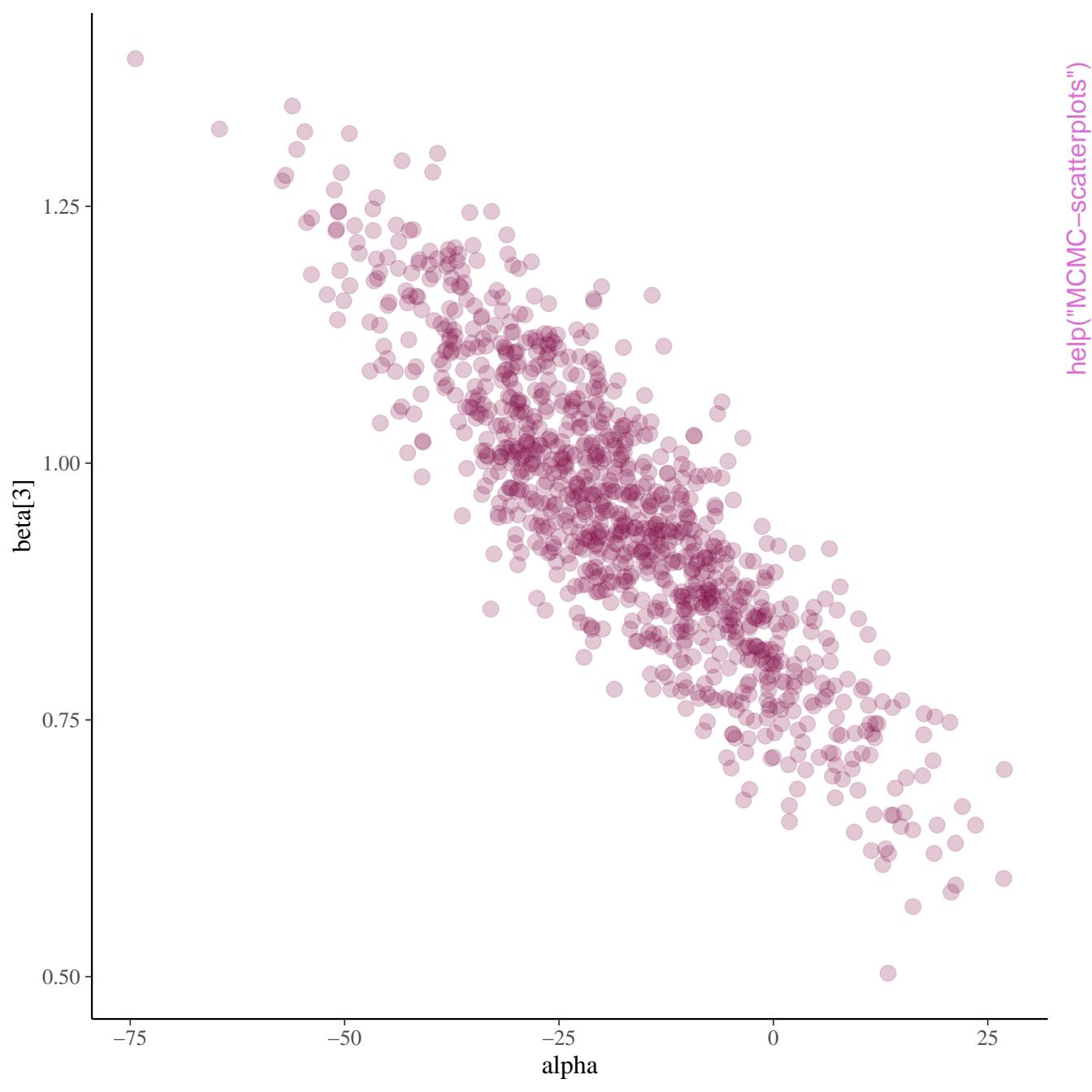
help("MCMC-scatterplots")



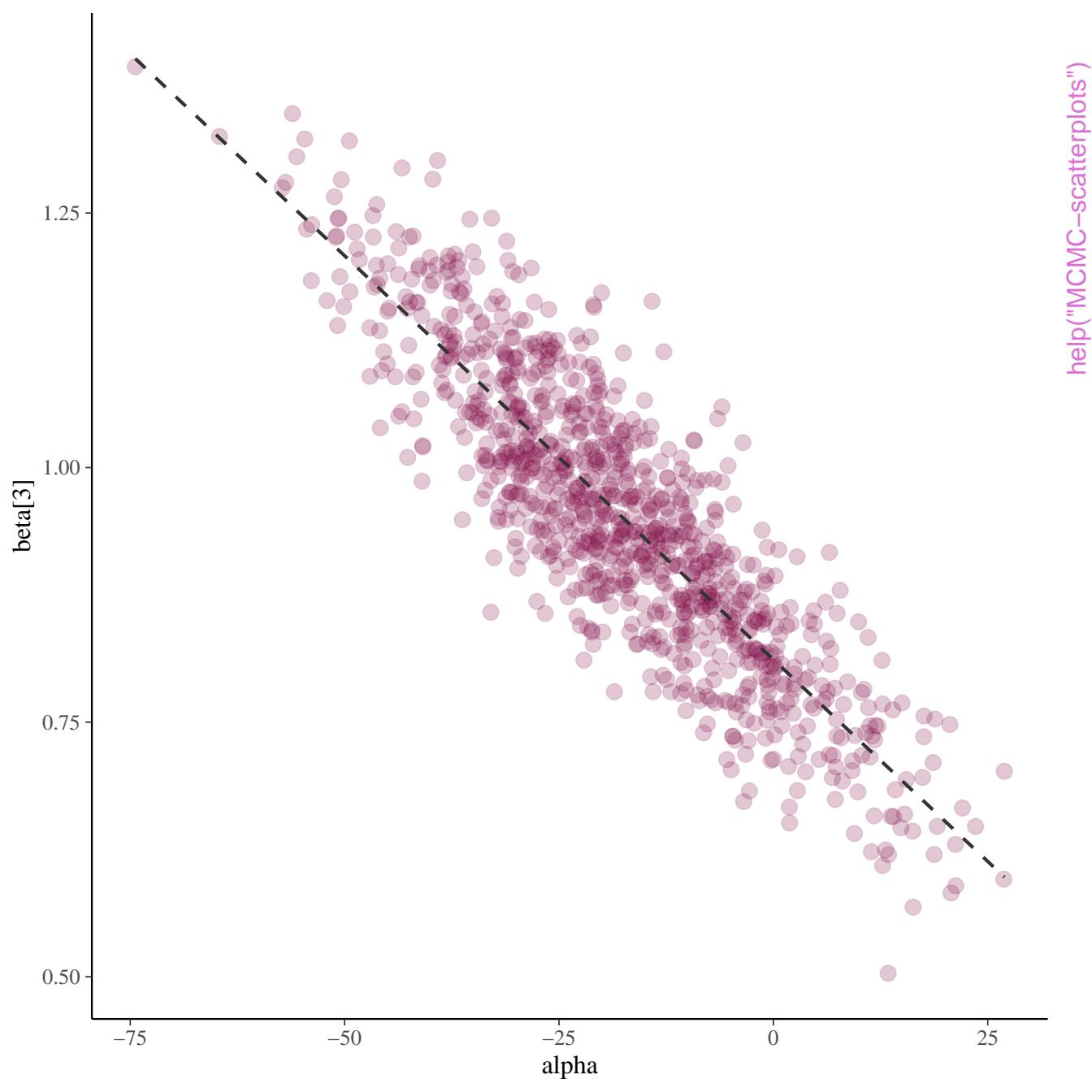
help("MCMC-scatterplots")



help("MCMC-scatterplots")

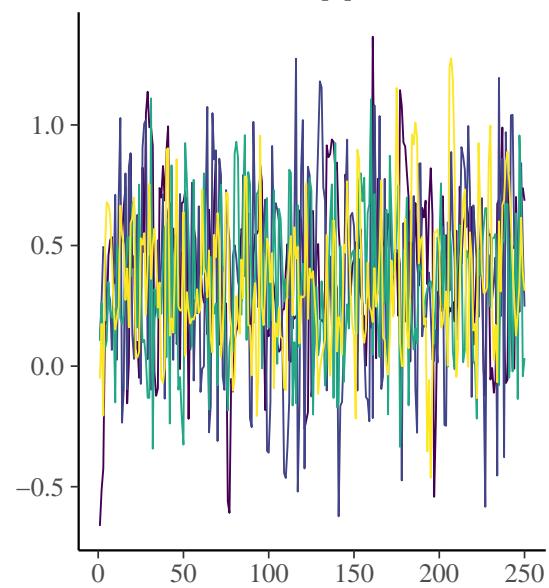


help("MCMC-scatterplots")

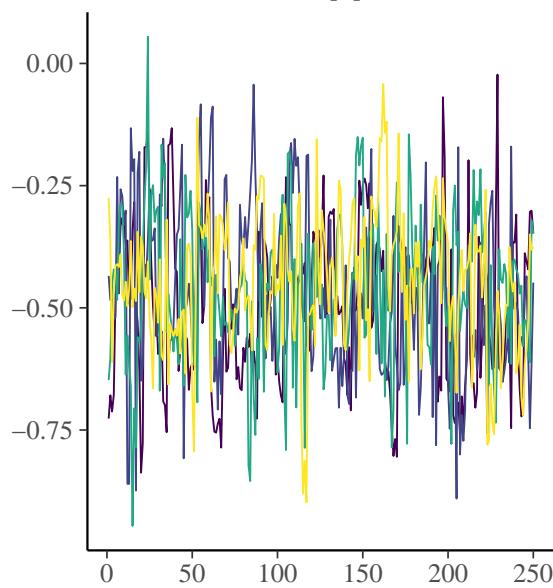


```
help("MCMC-traces")
```

beta[1]



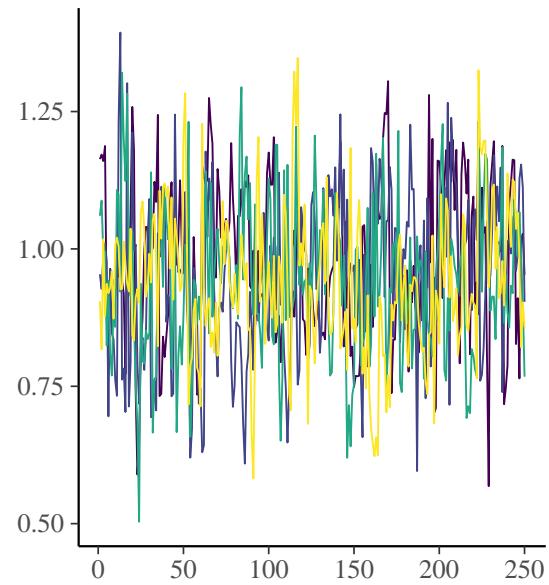
beta[2]



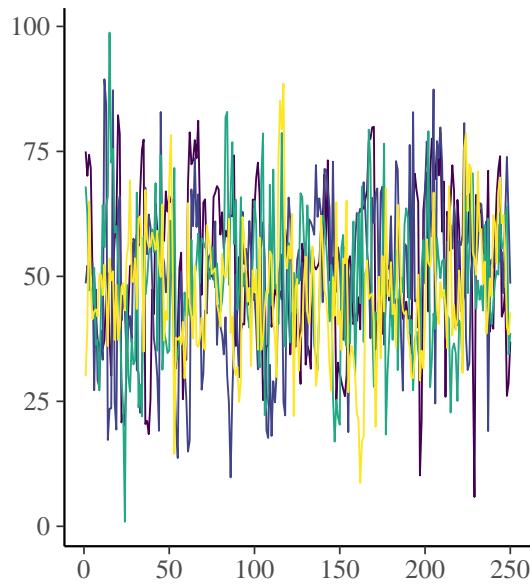
Chain

- 1
- 2
- 3
- 4

beta[3]

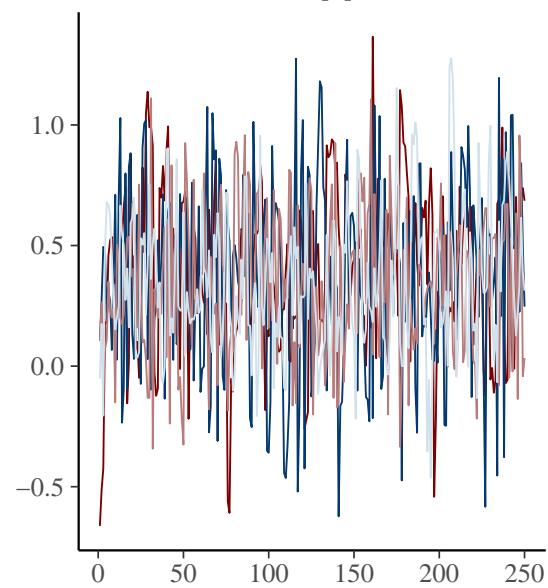


beta[4]

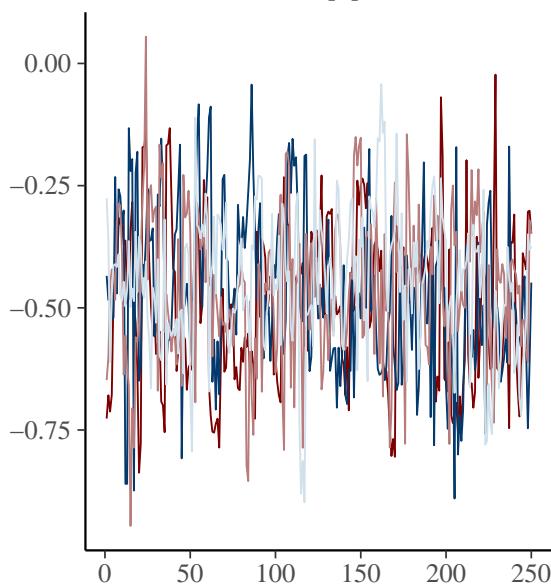


help("MCMC-traces")

beta[1]



beta[2]



Chain

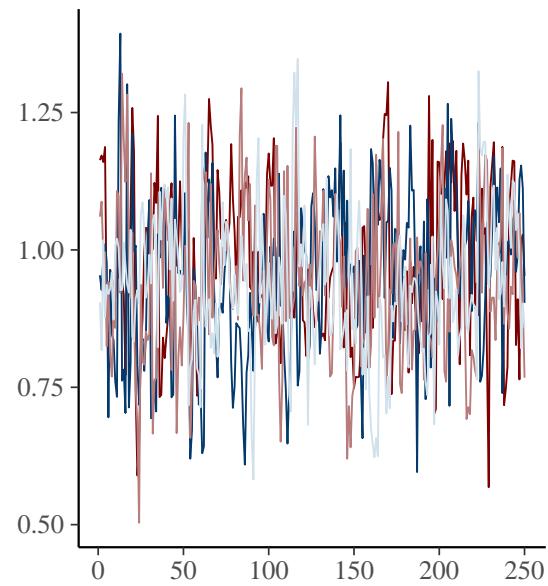
— 1

— 2

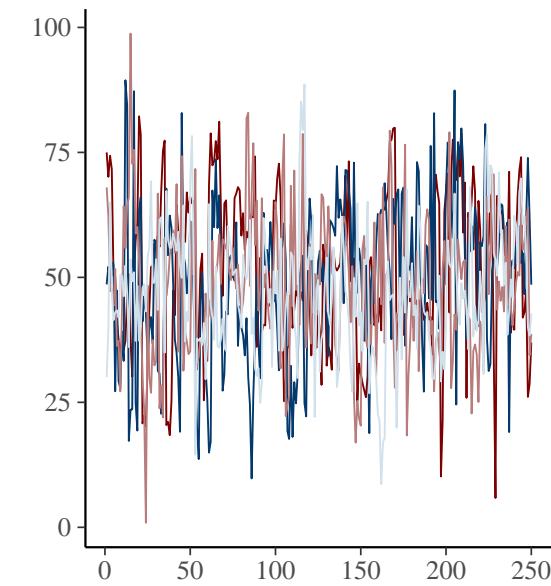
— 3

— 4

beta[3]

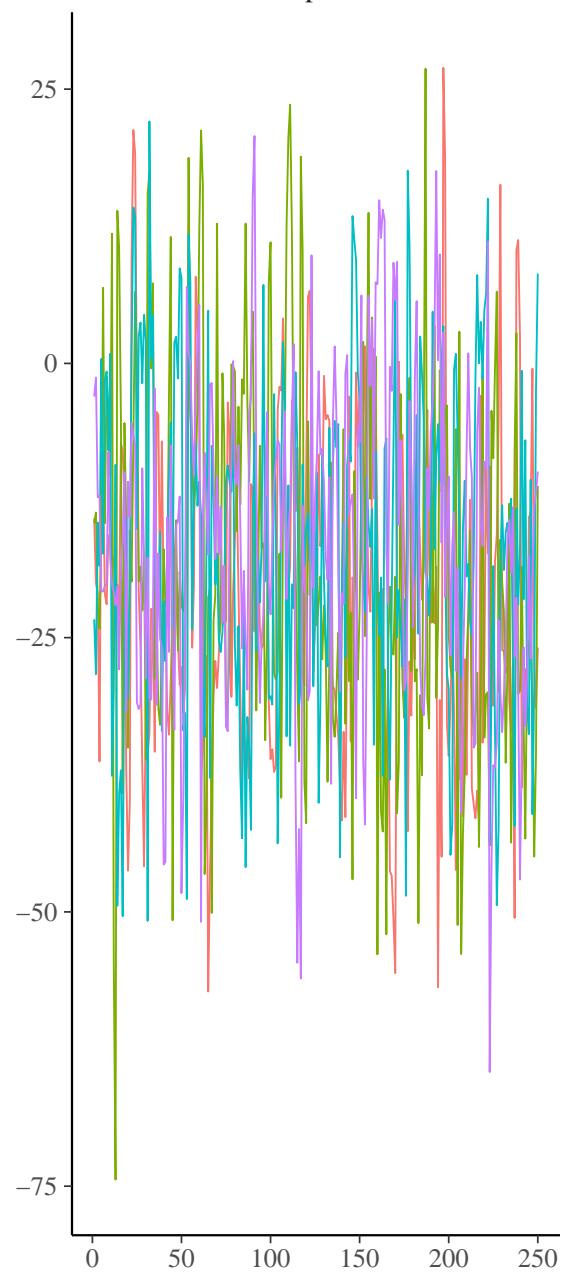


beta[4]

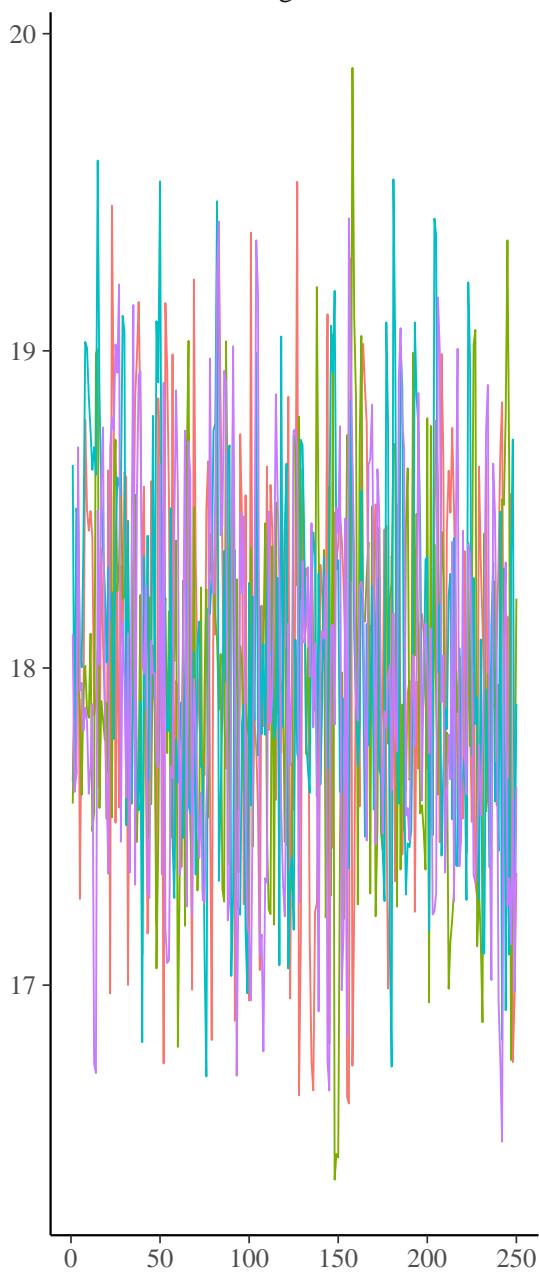


help("MCMC-traces")

alpha



sigma

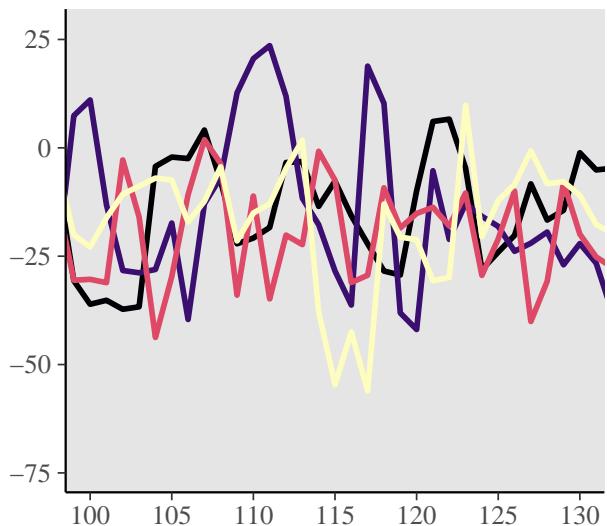


chain

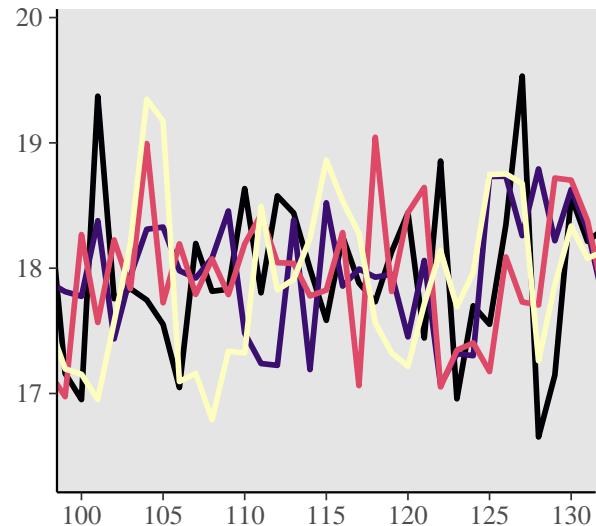
- 1
- 2
- 3
- 4

Chain — 1 — 2 — 3 — 4

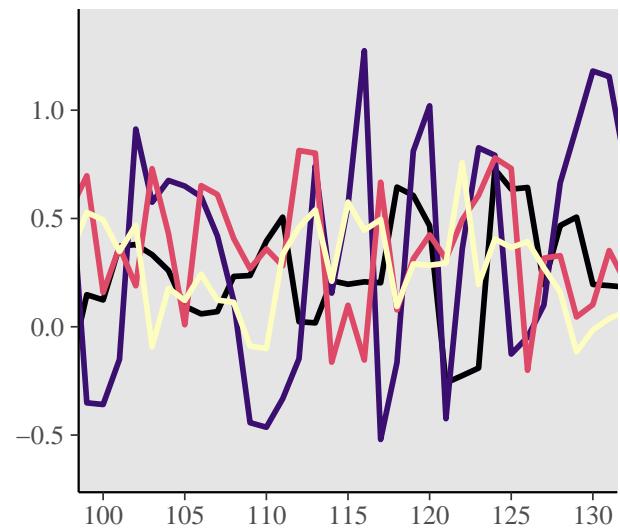
alpha



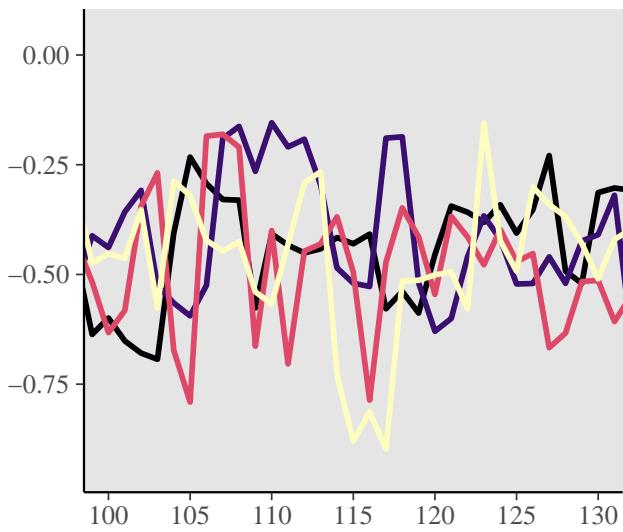
sigma



beta[1]



beta[2]



help("MCMC-traces")

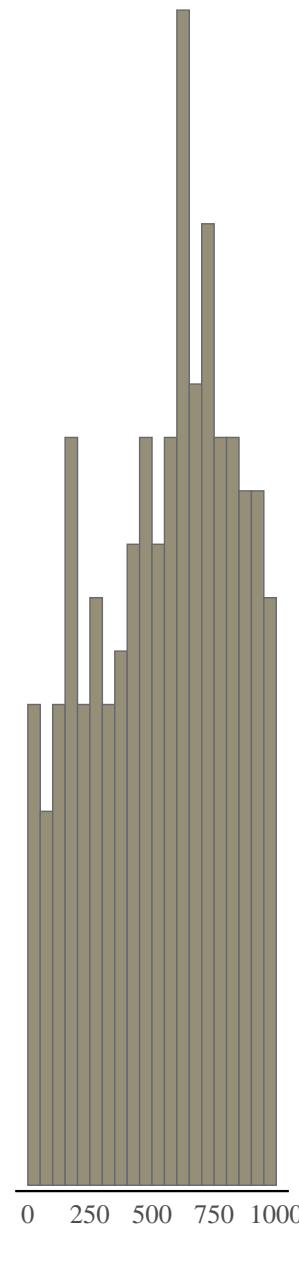
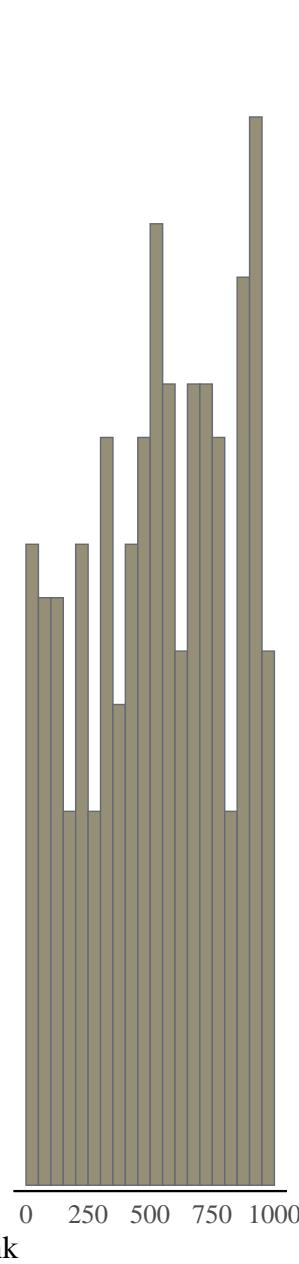
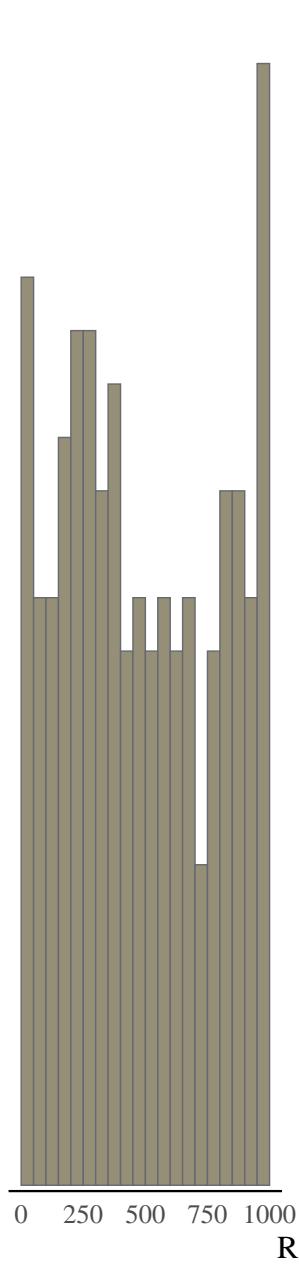
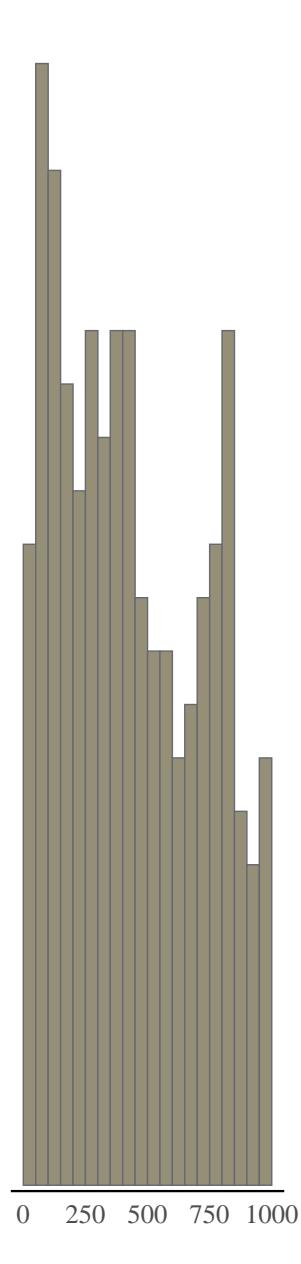
alpha, 1

alpha, 2

alpha, 3

alpha, 4

help("MCMC-traces")



1

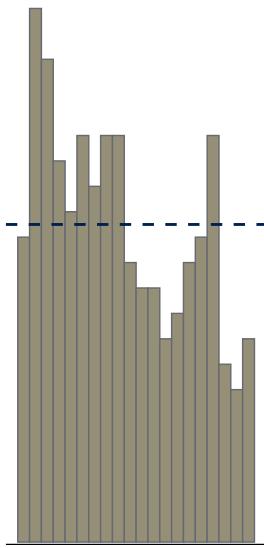
2

3

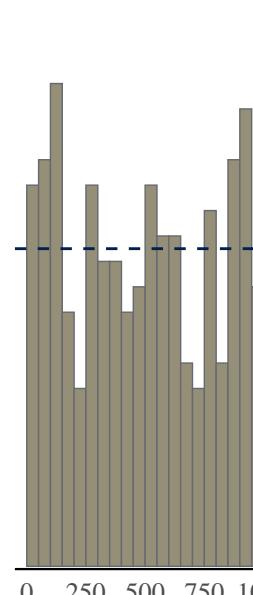
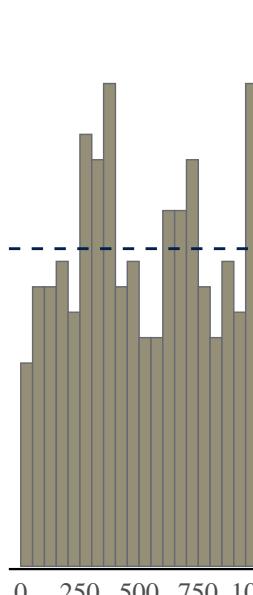
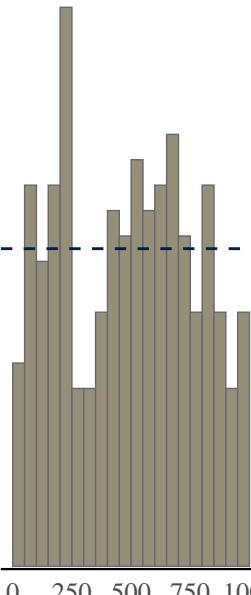
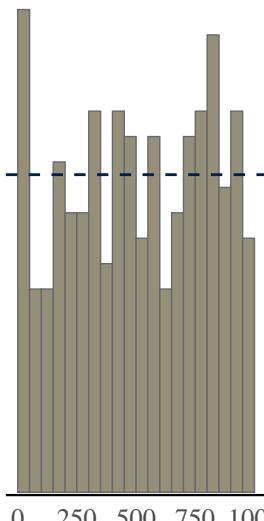
4

help("MCMC-traces")

alpha

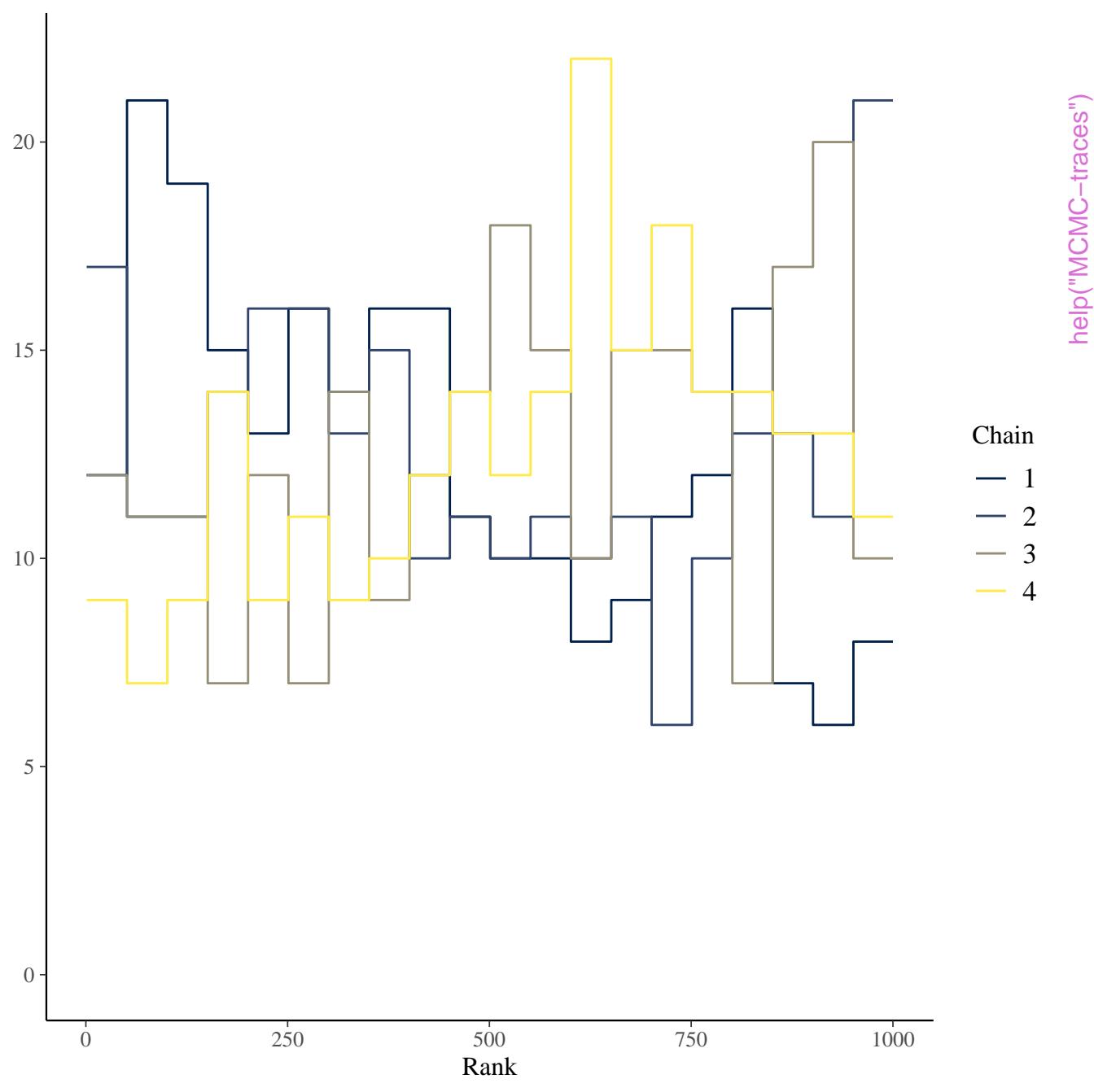


sigma



Rank

help("MCMC-traces")



help("MCMC-traces")

alpha

sigma

beta[1]

beta[2]

beta[3]

beta[4]

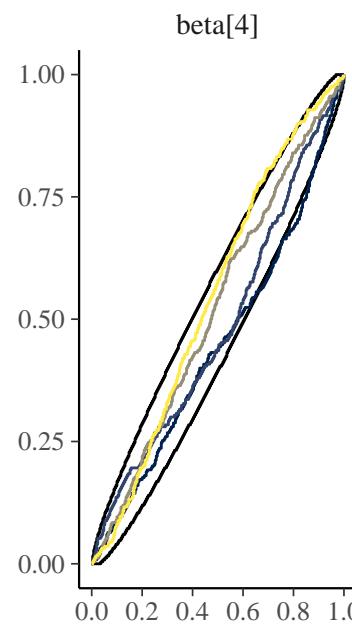
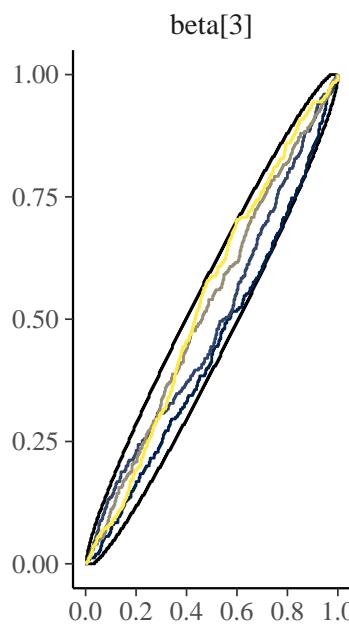
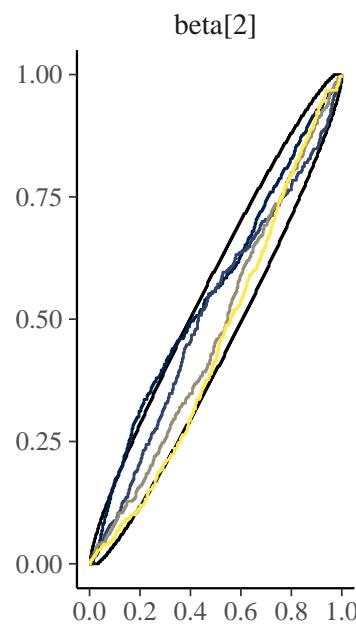
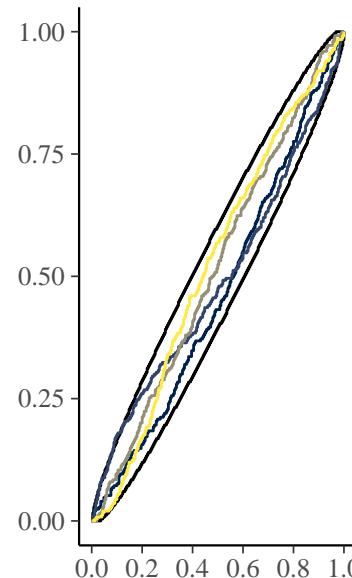
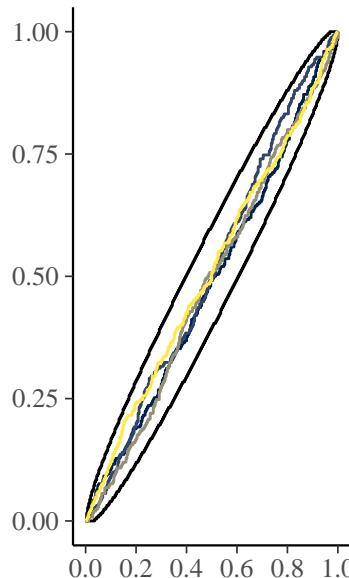
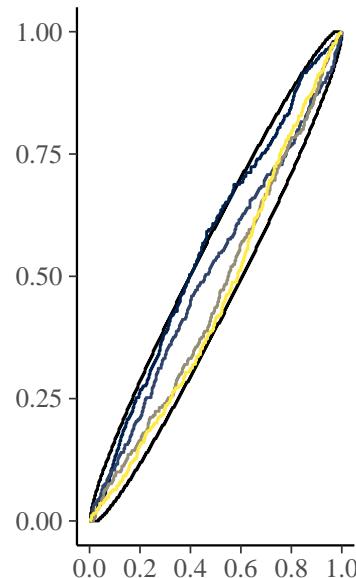
Chain

1

2

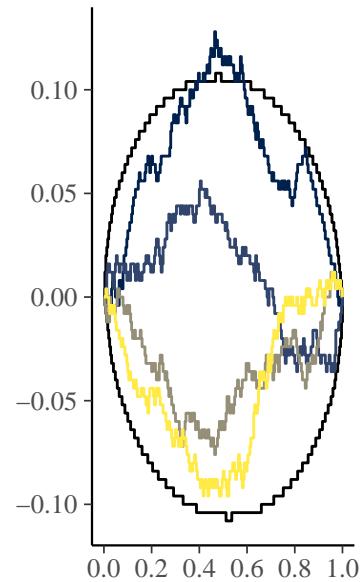
3

4

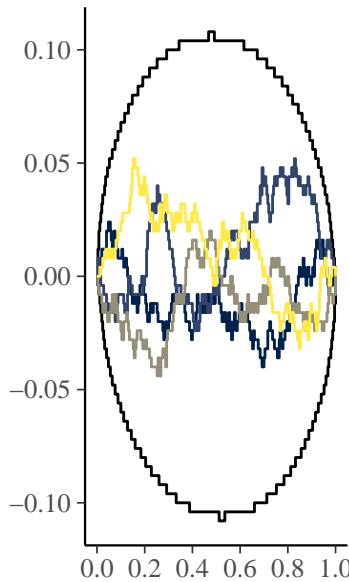


help("MCMC-traces")

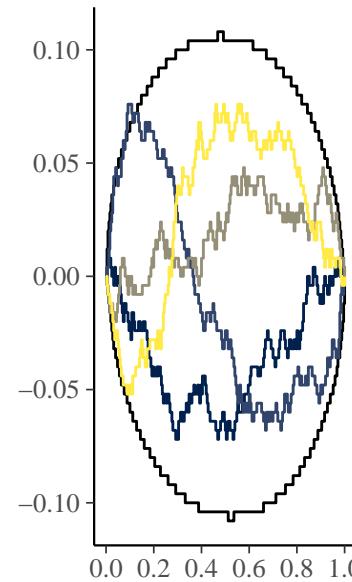
alpha



sigma



beta[1]



Chain

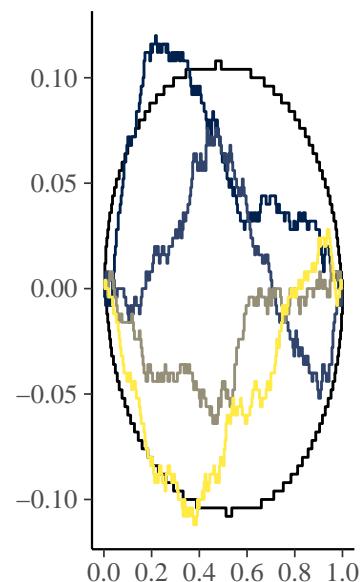
— 1

— 2

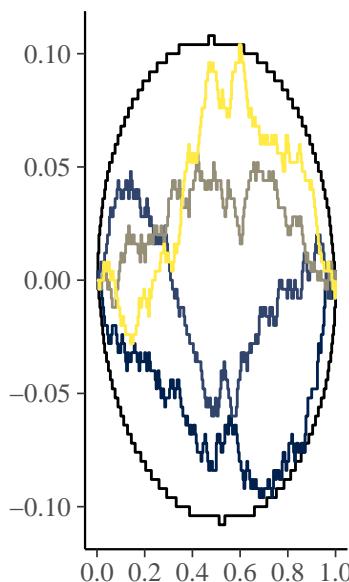
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— 4

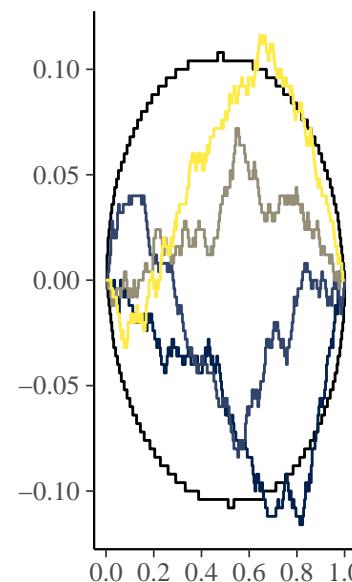
beta[2]



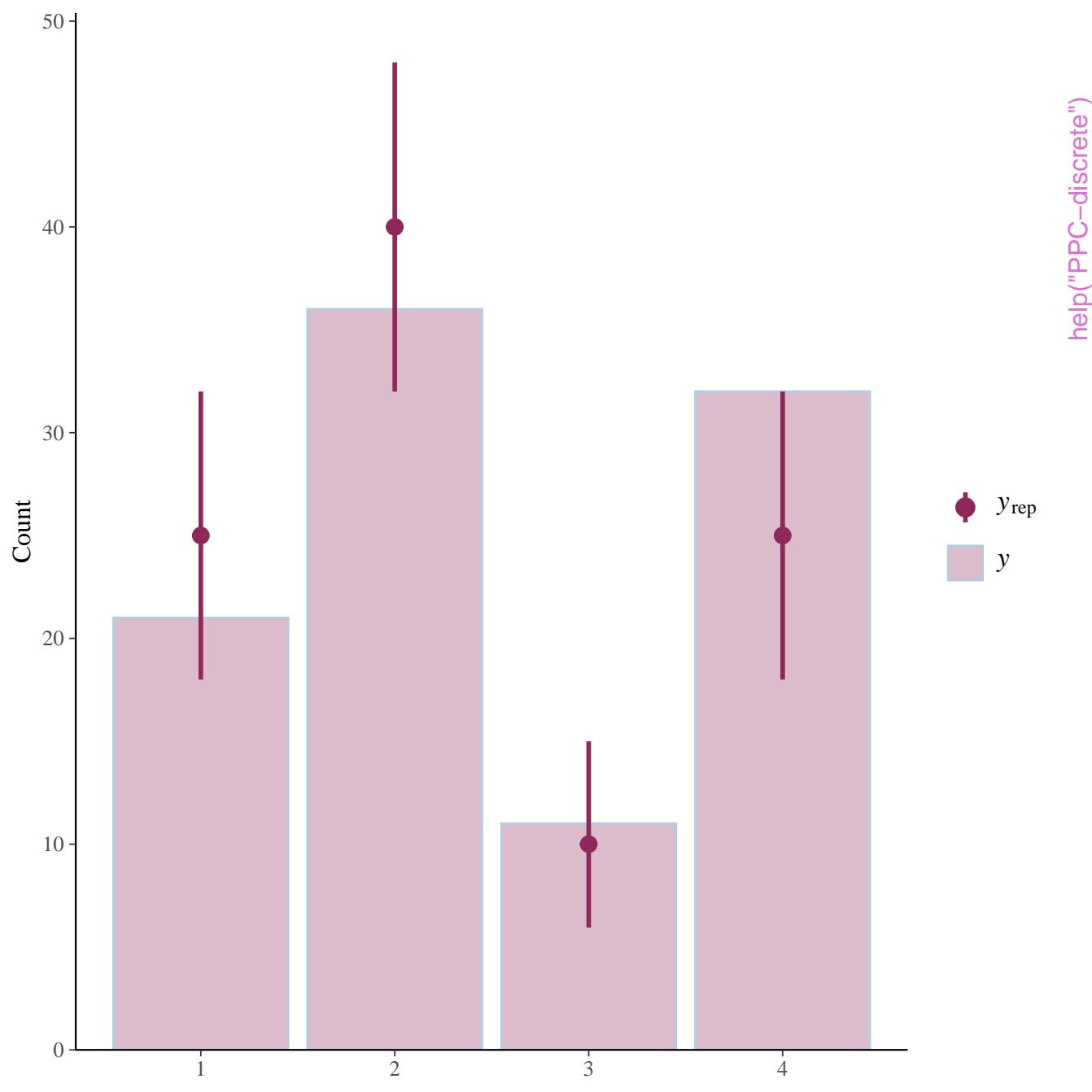
beta[3]



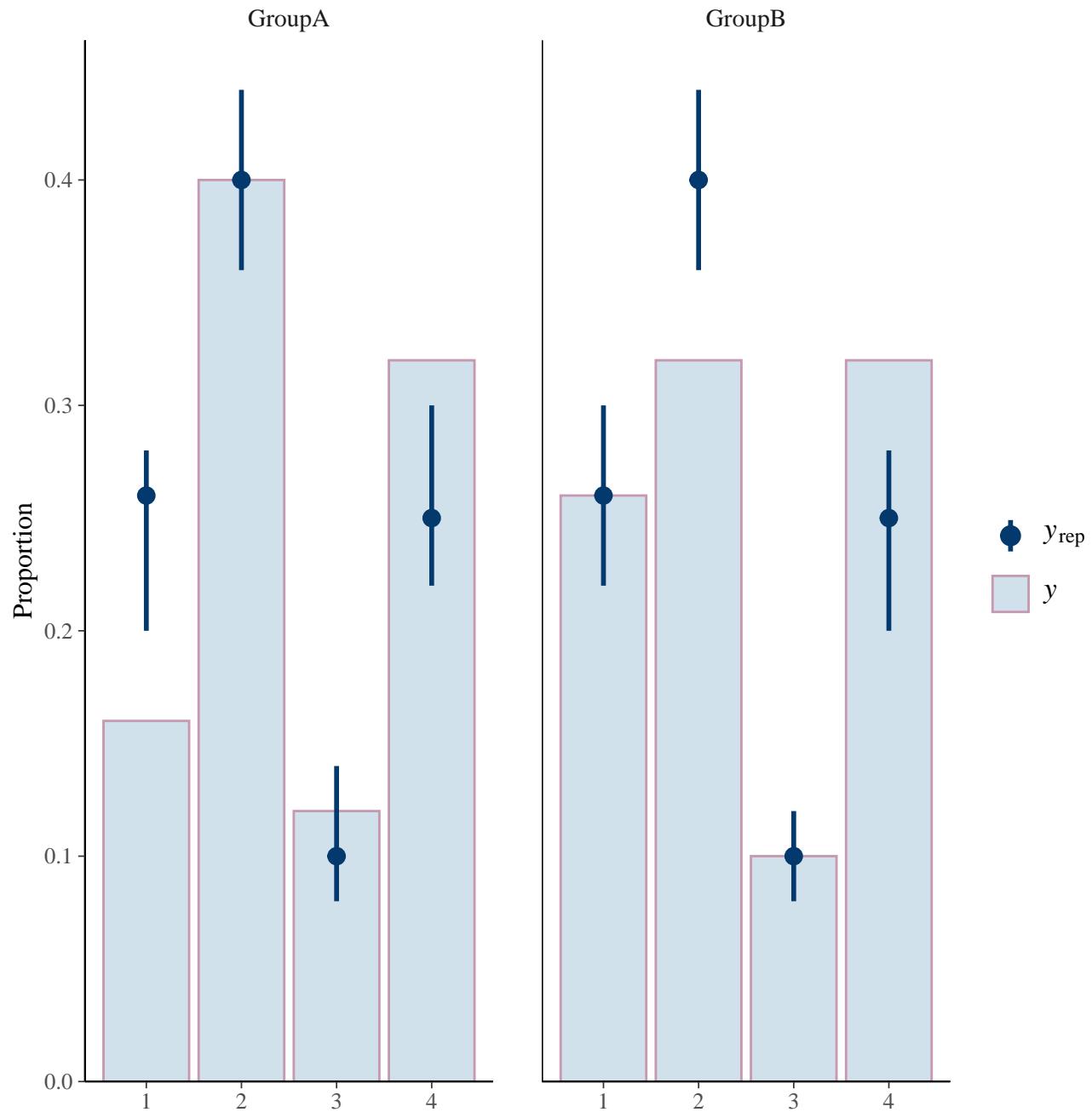
beta[4]



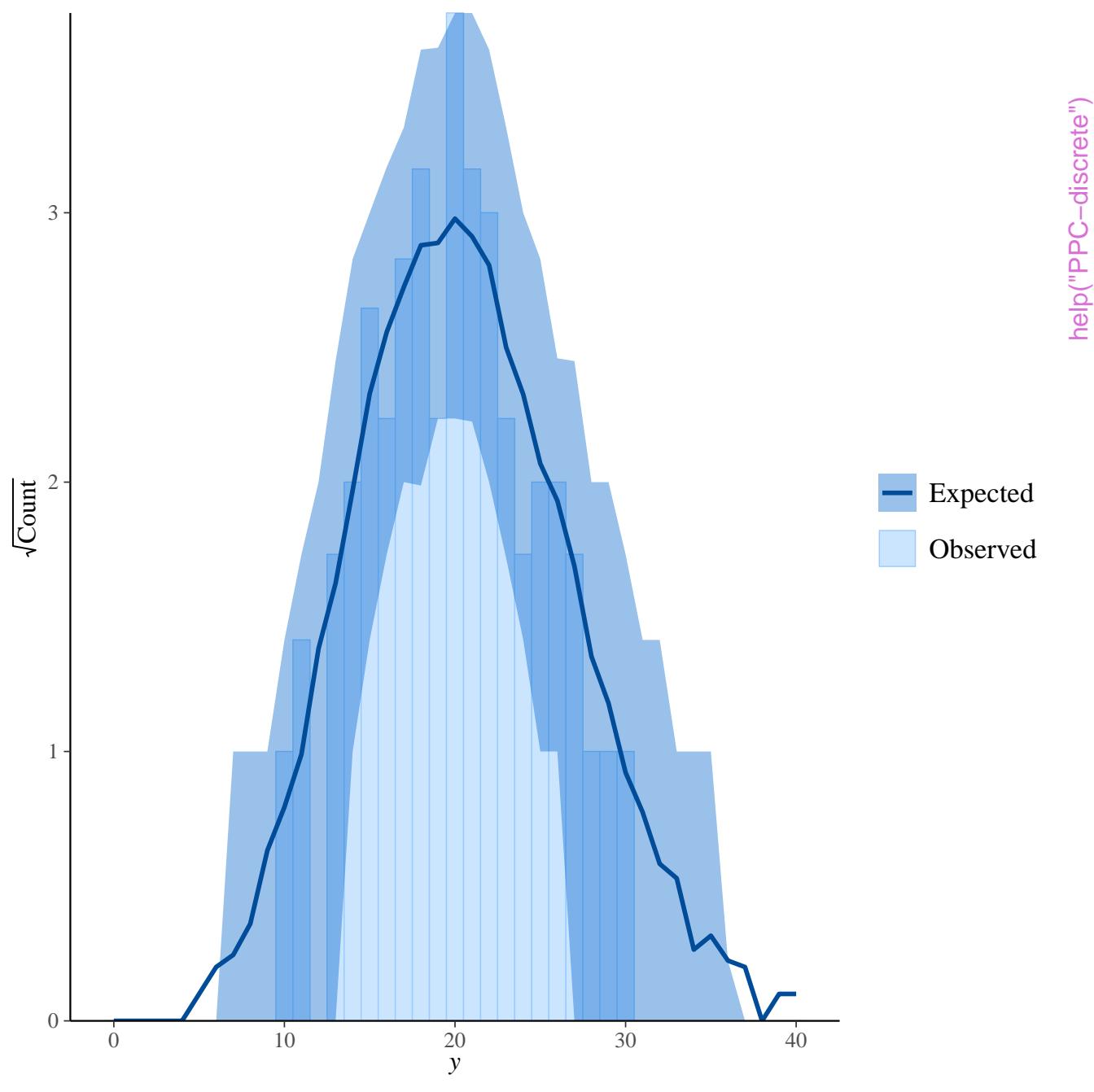
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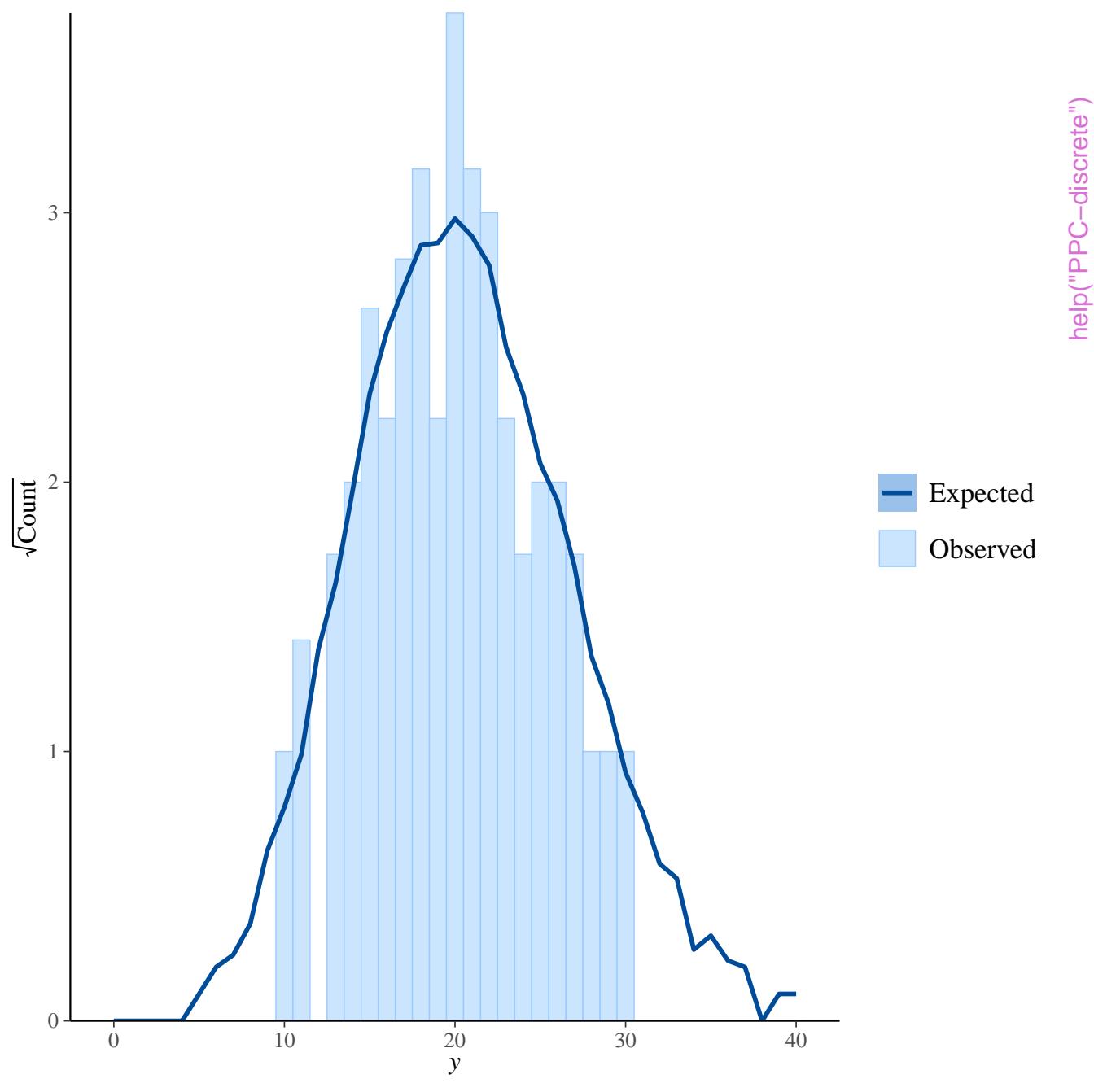
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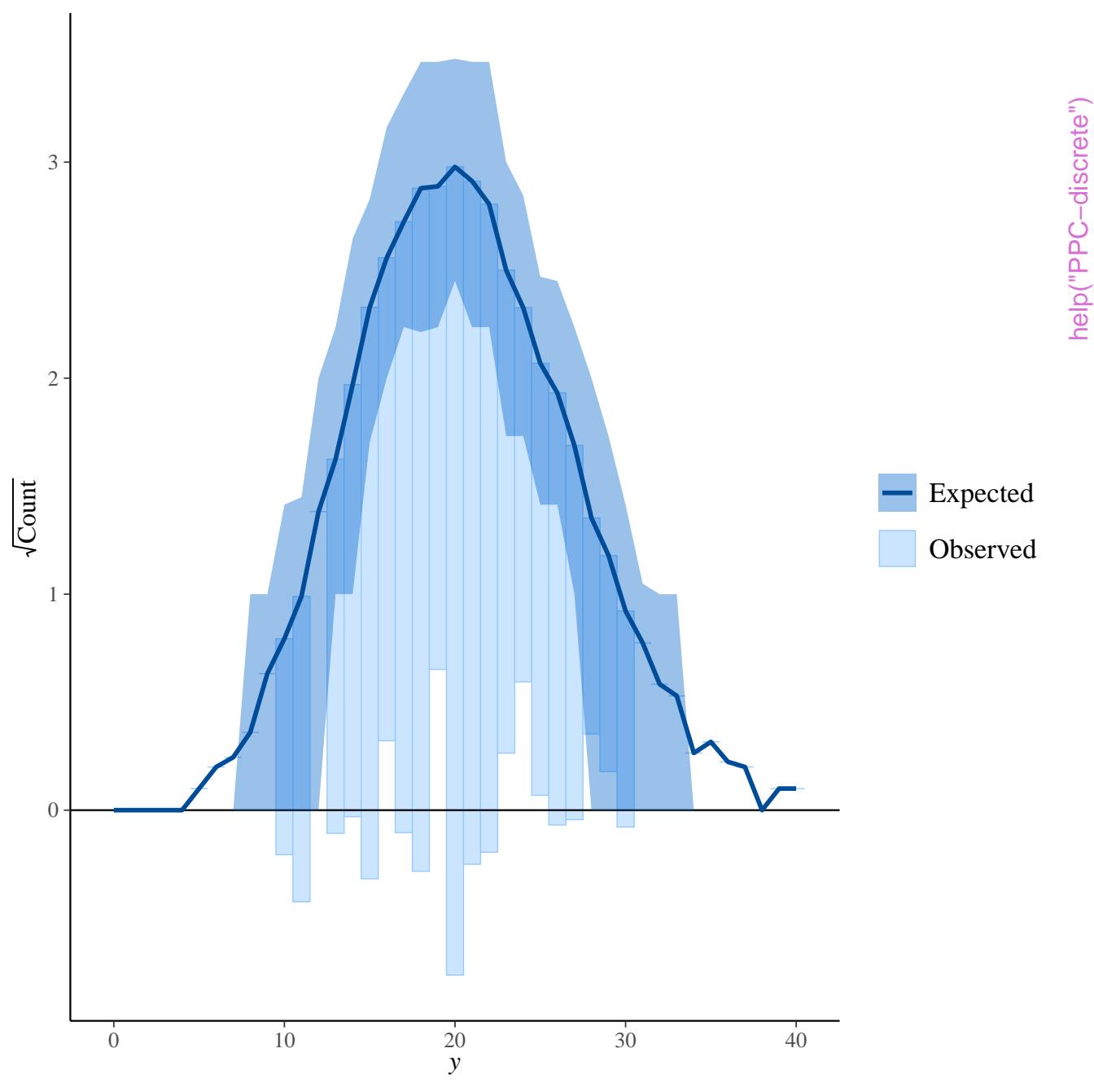
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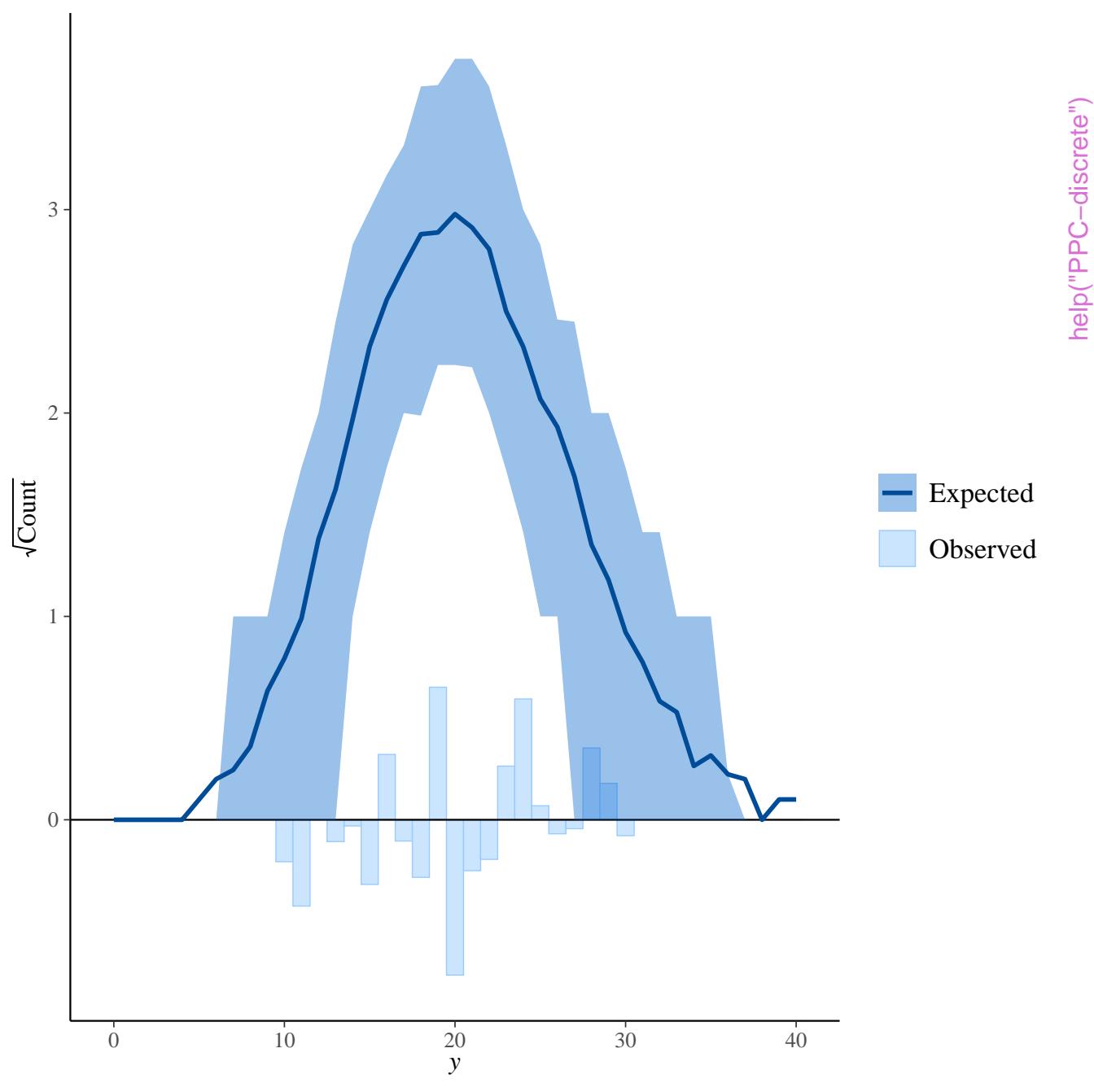
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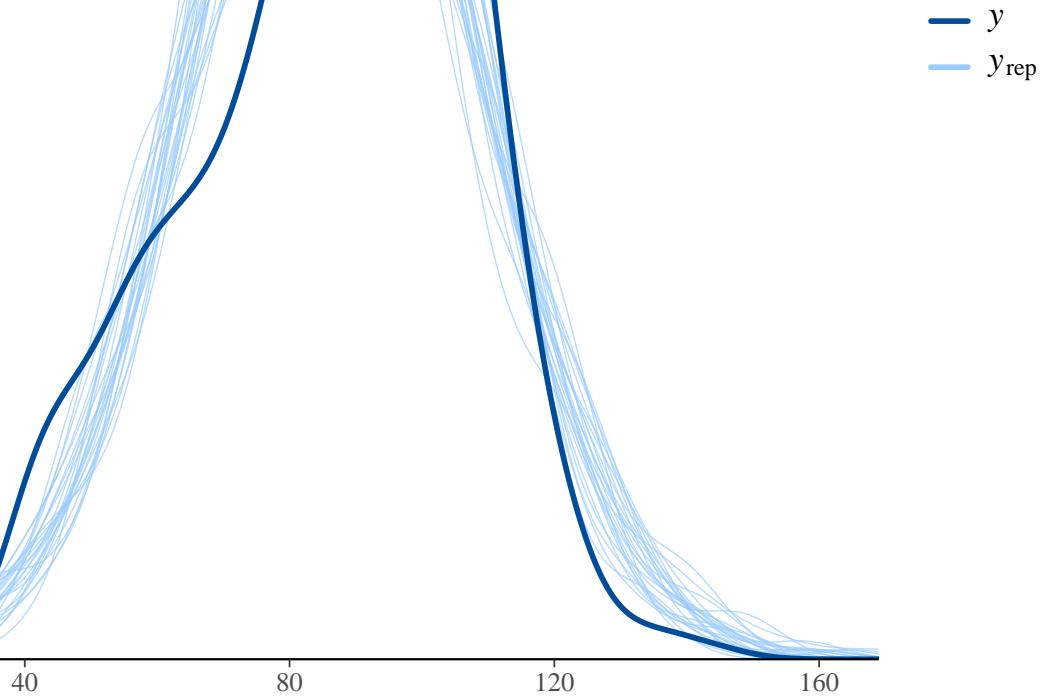
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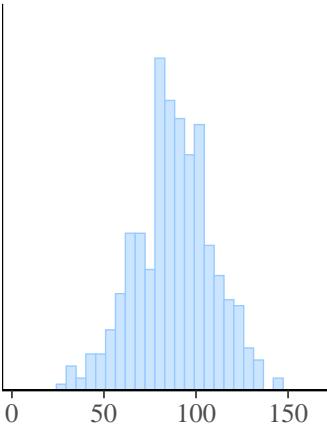
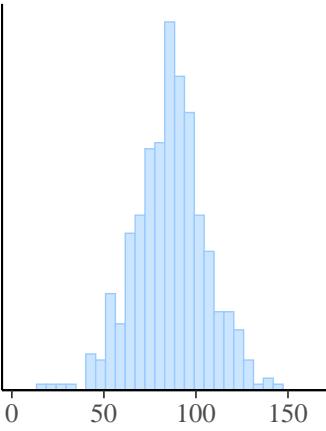
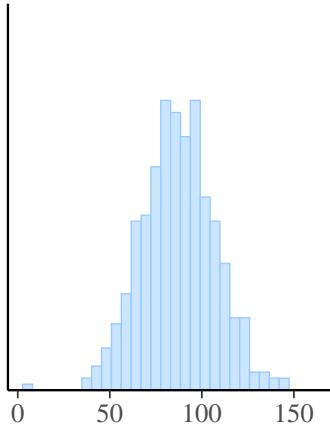
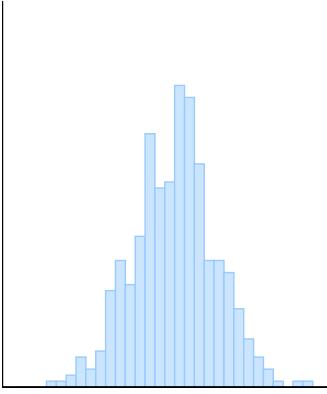
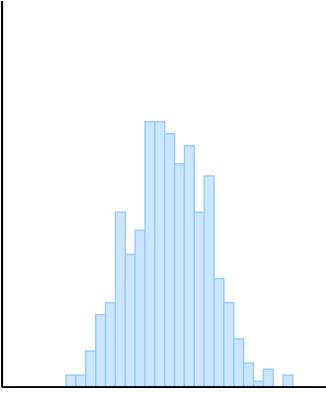
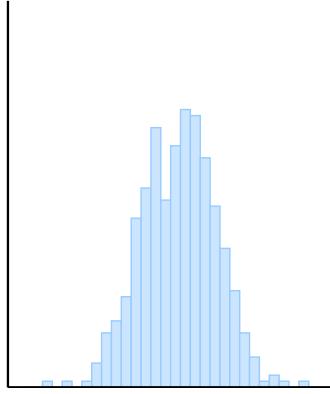
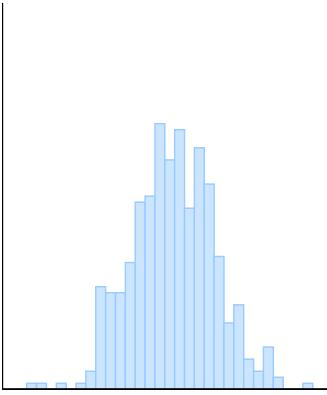
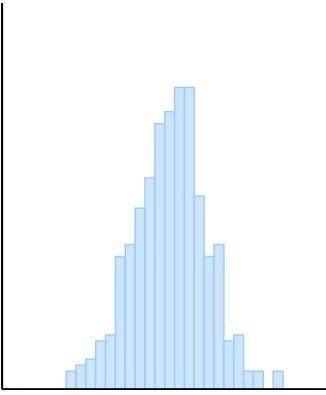
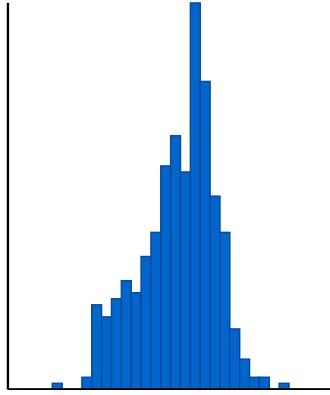
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help("PPC-distributions")

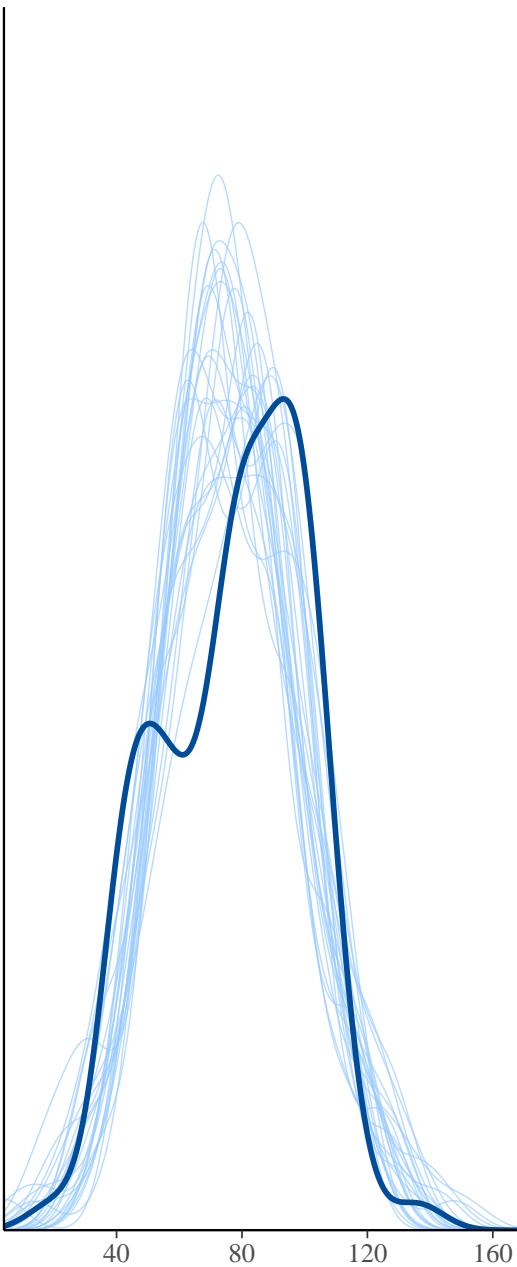


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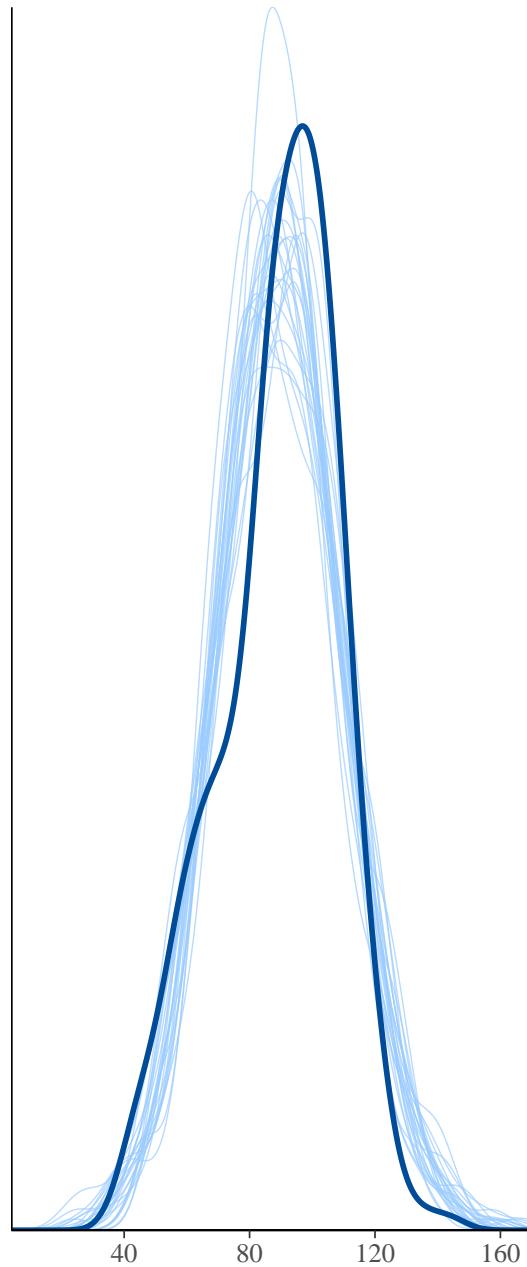


y
 y_{rep}

GroupA



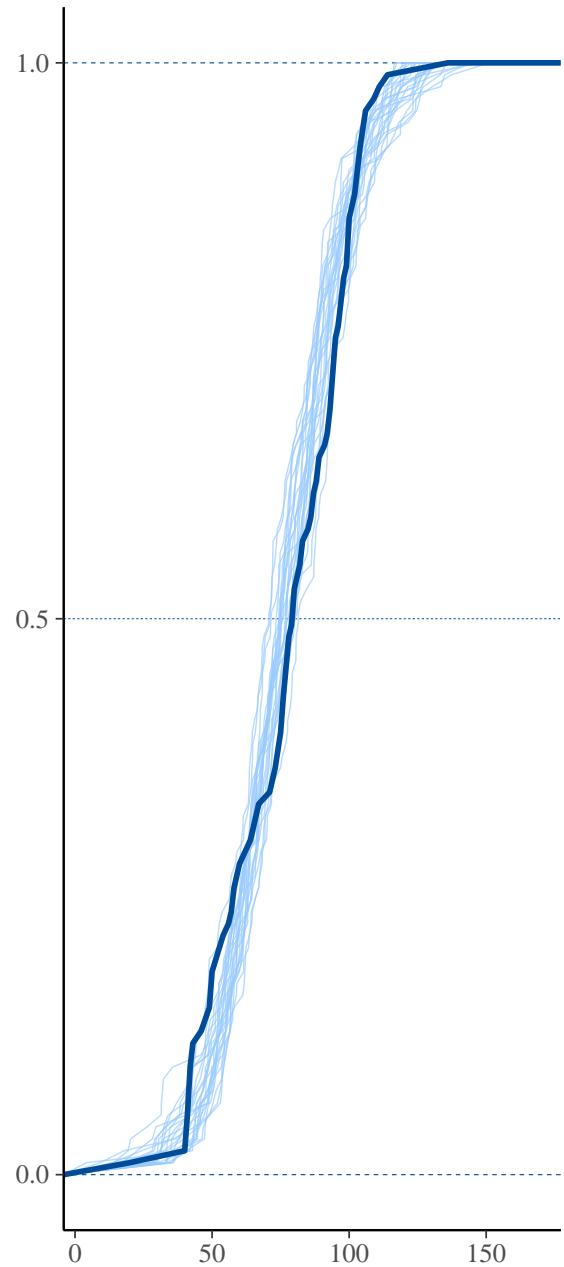
GroupB



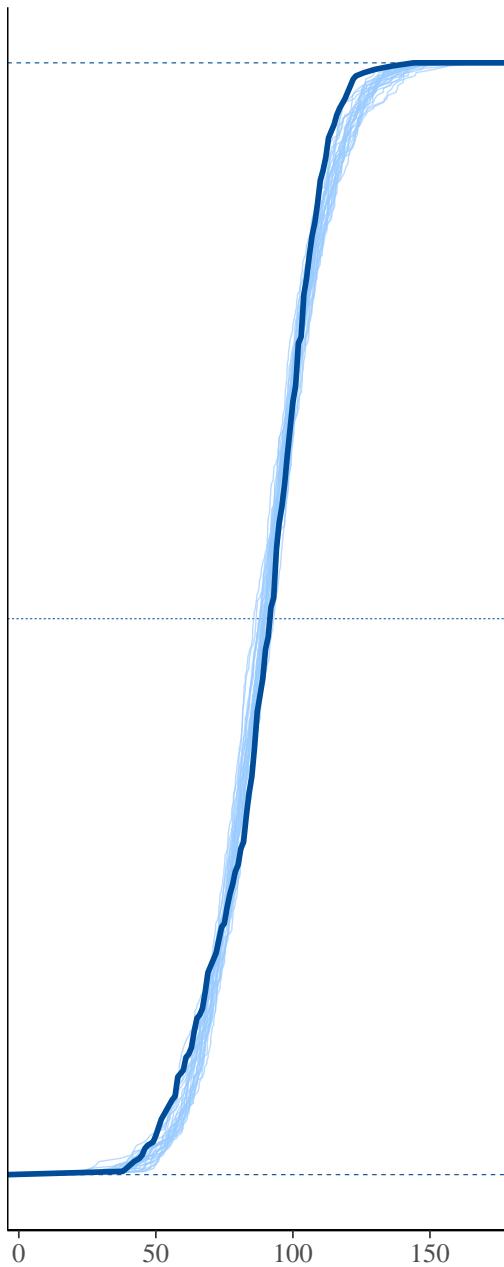
help("PPC-distributions")

help("PPC-distributions")

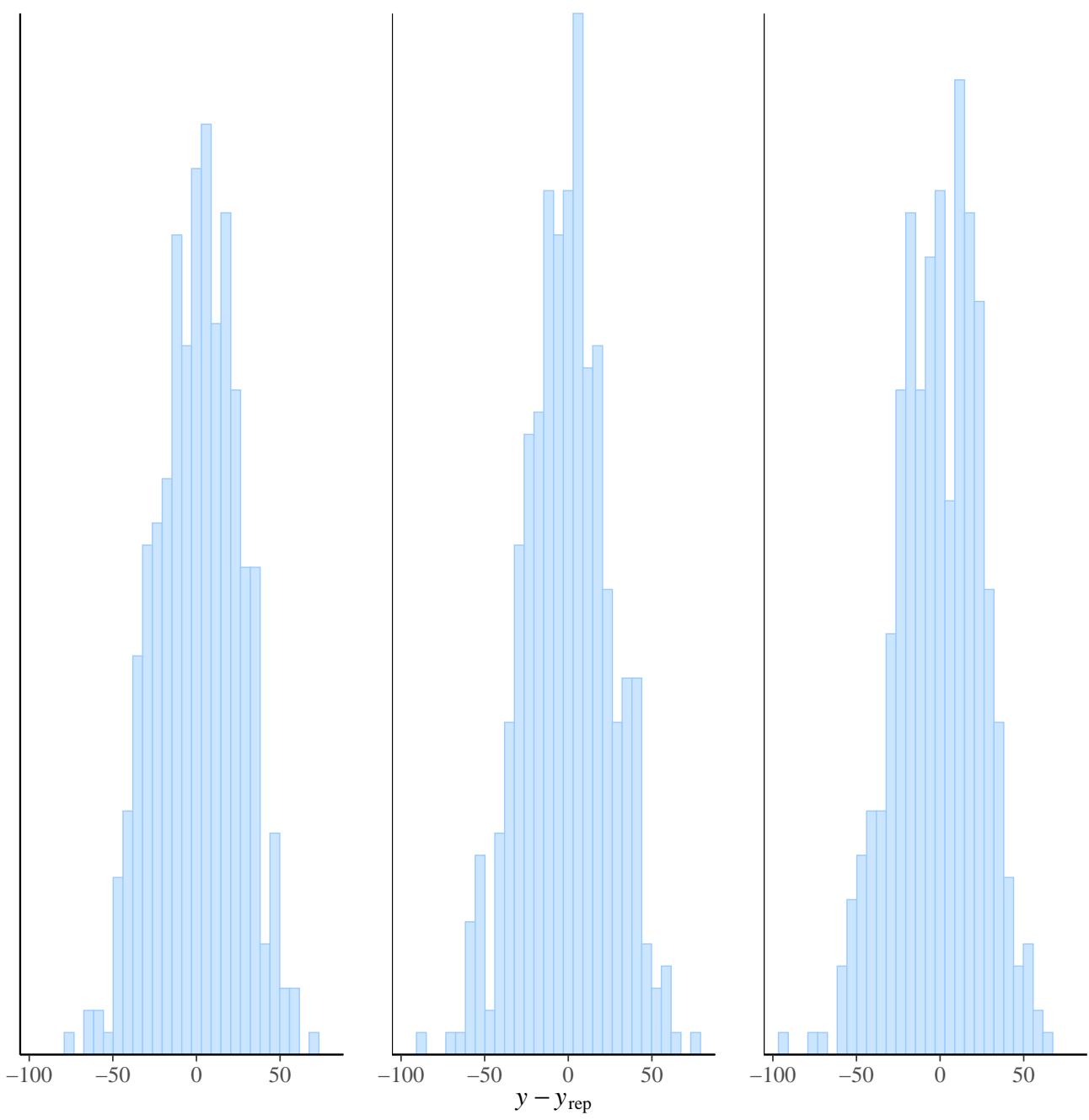
GroupA



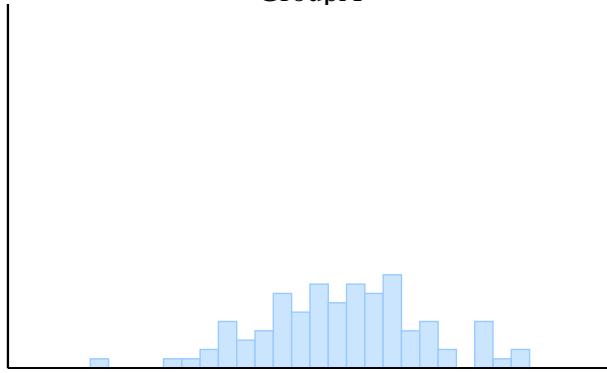
GroupB



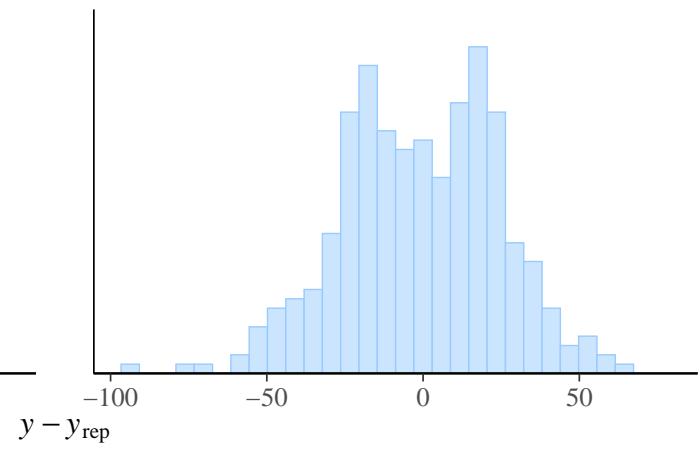
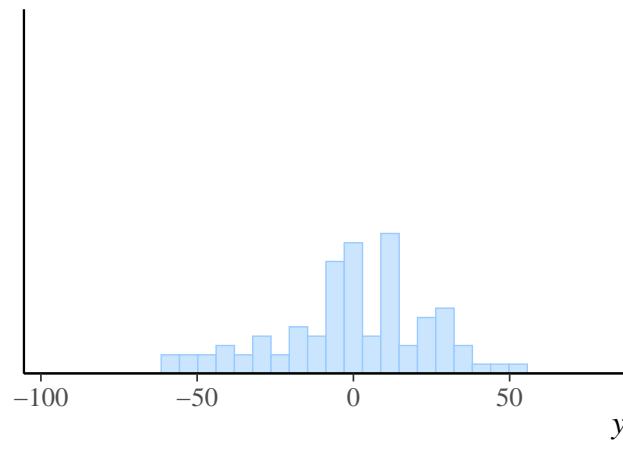
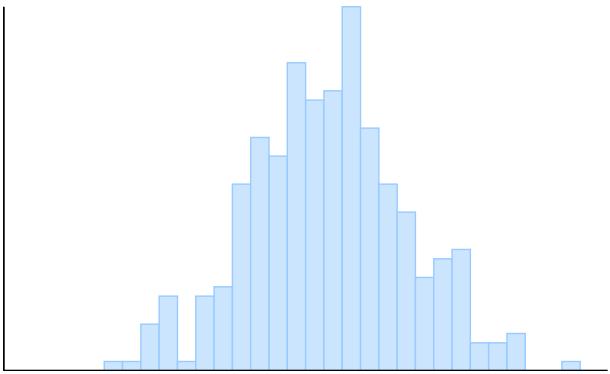
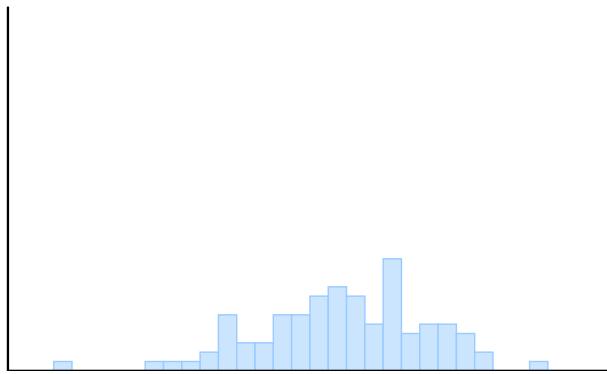
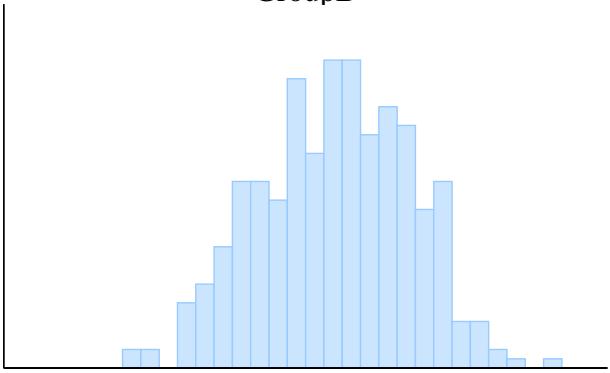
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GroupA

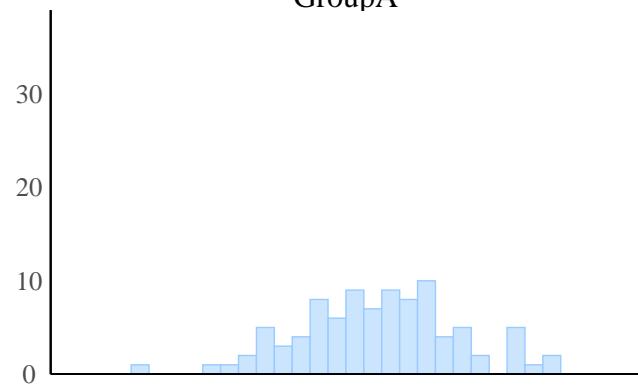


GroupB

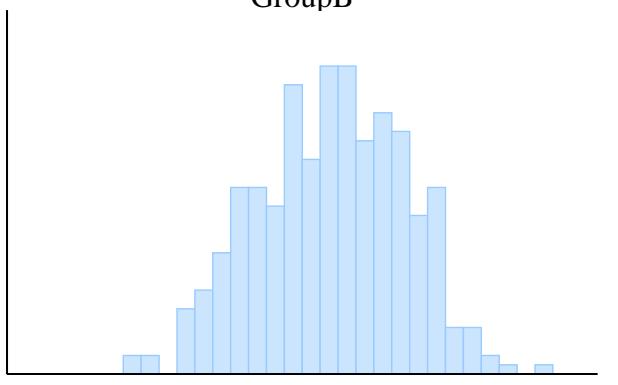


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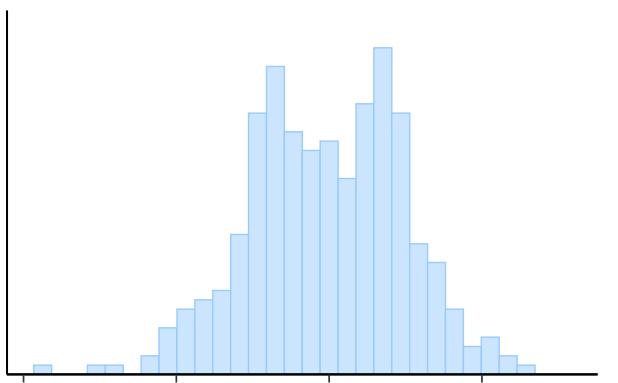
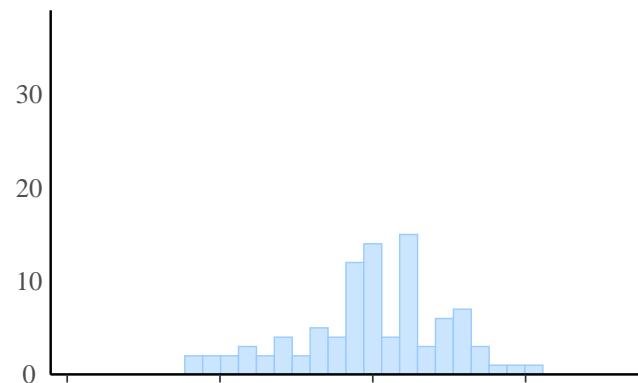
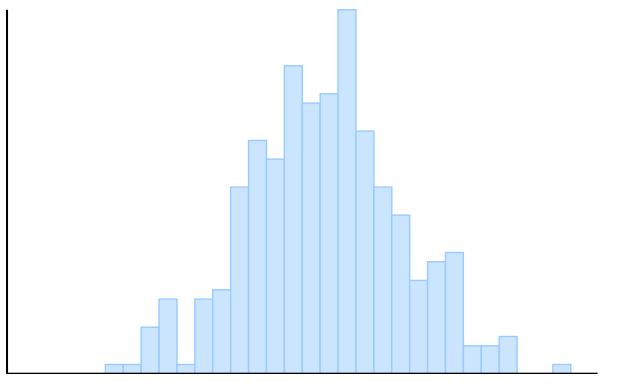
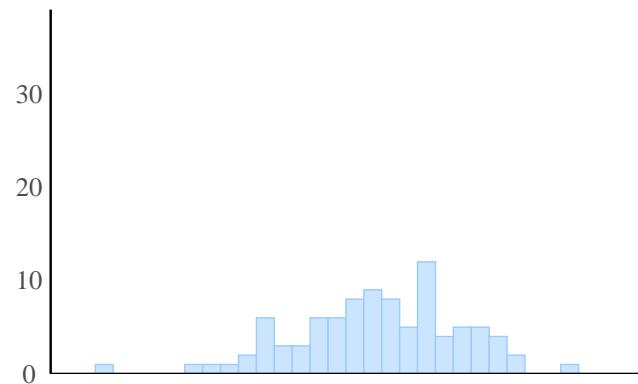
GroupA



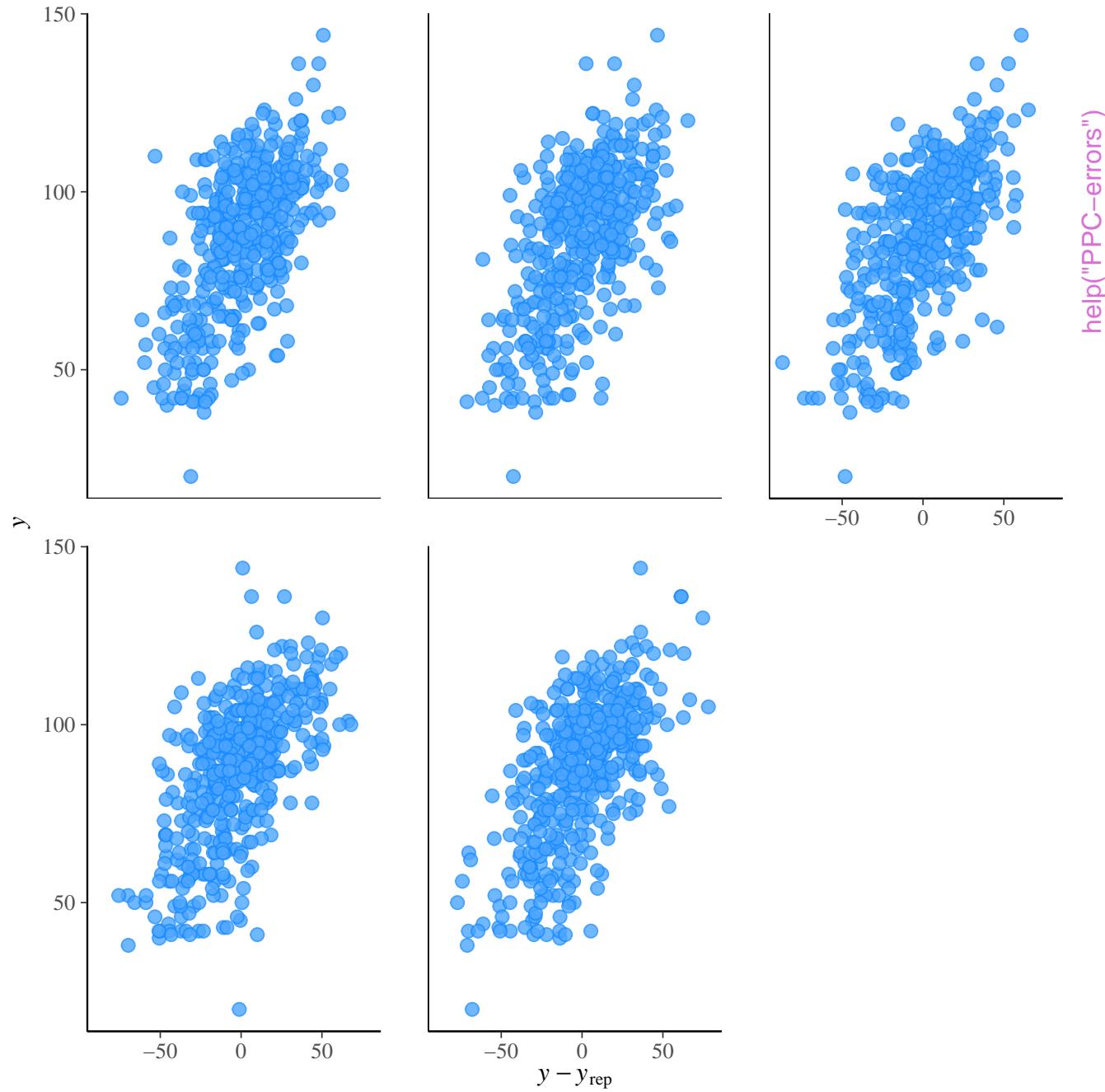
GroupB



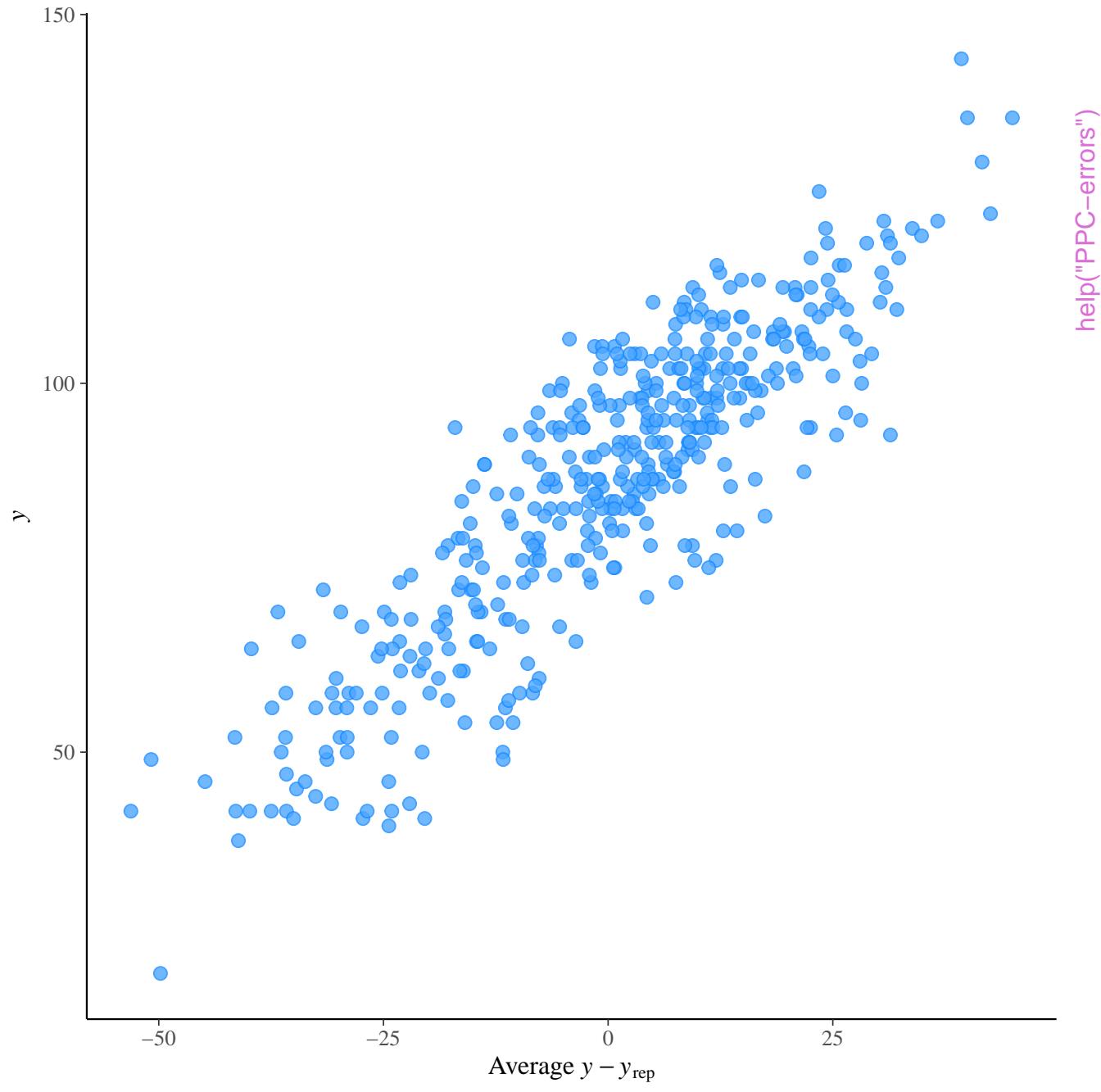
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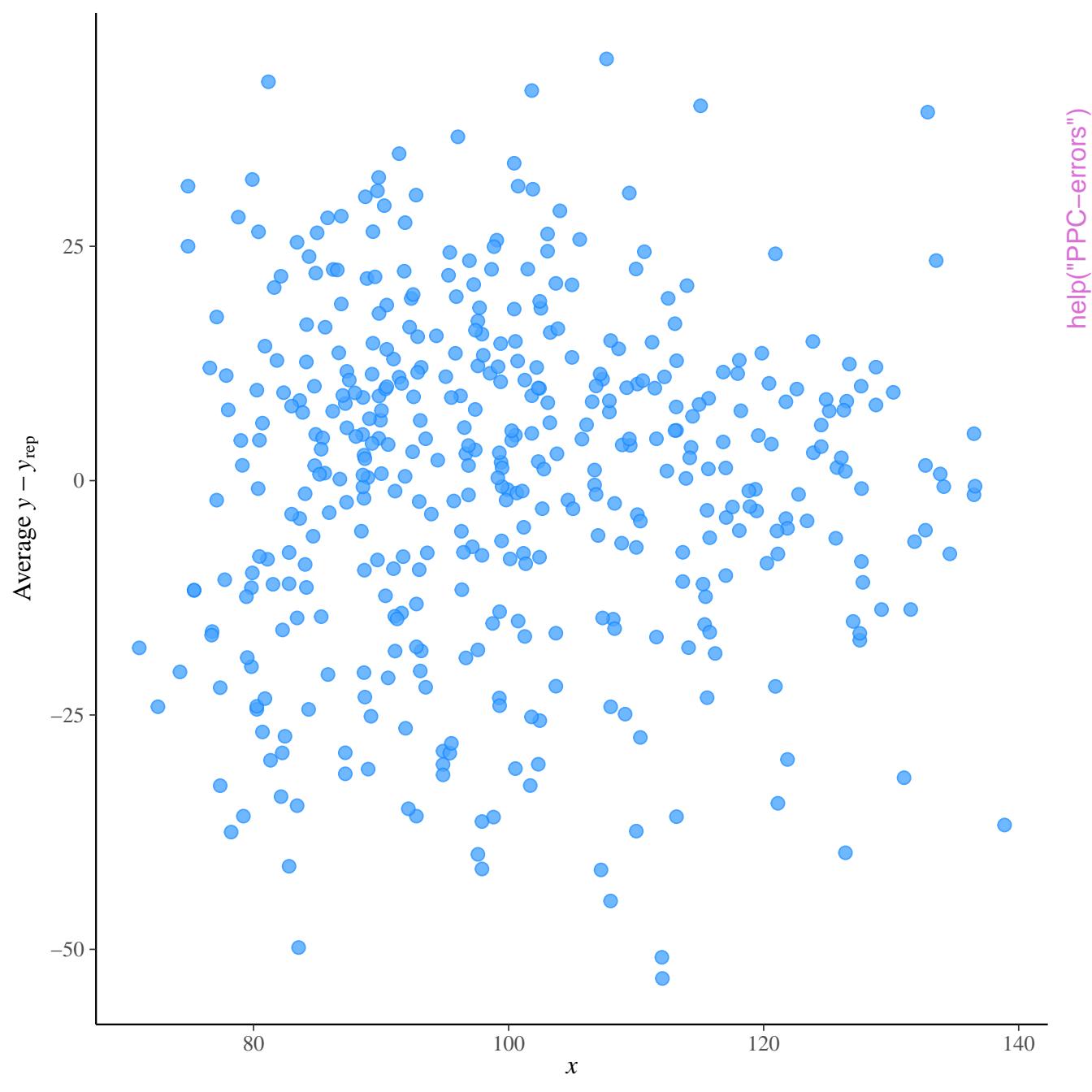


$y - y_{\text{rep}}$



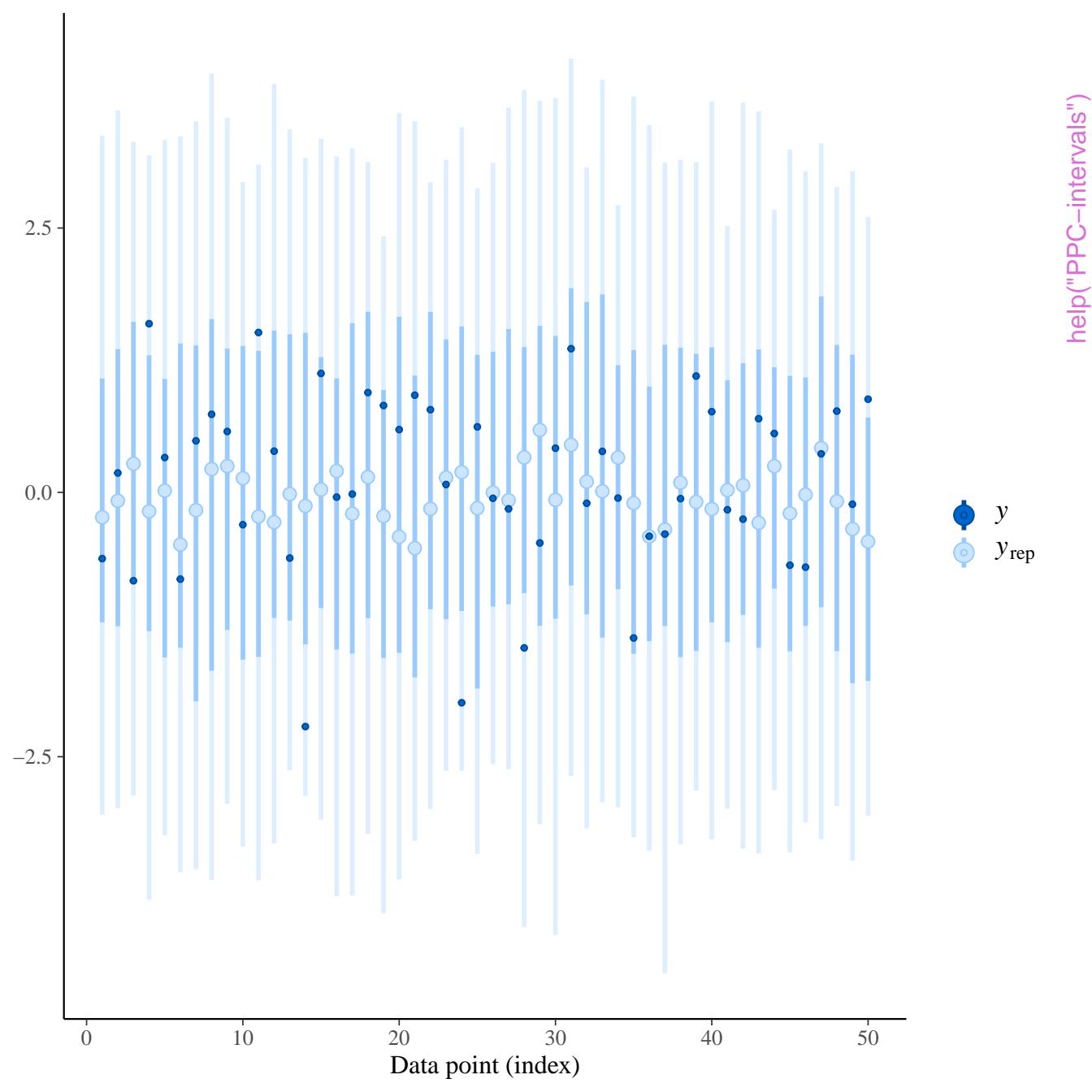
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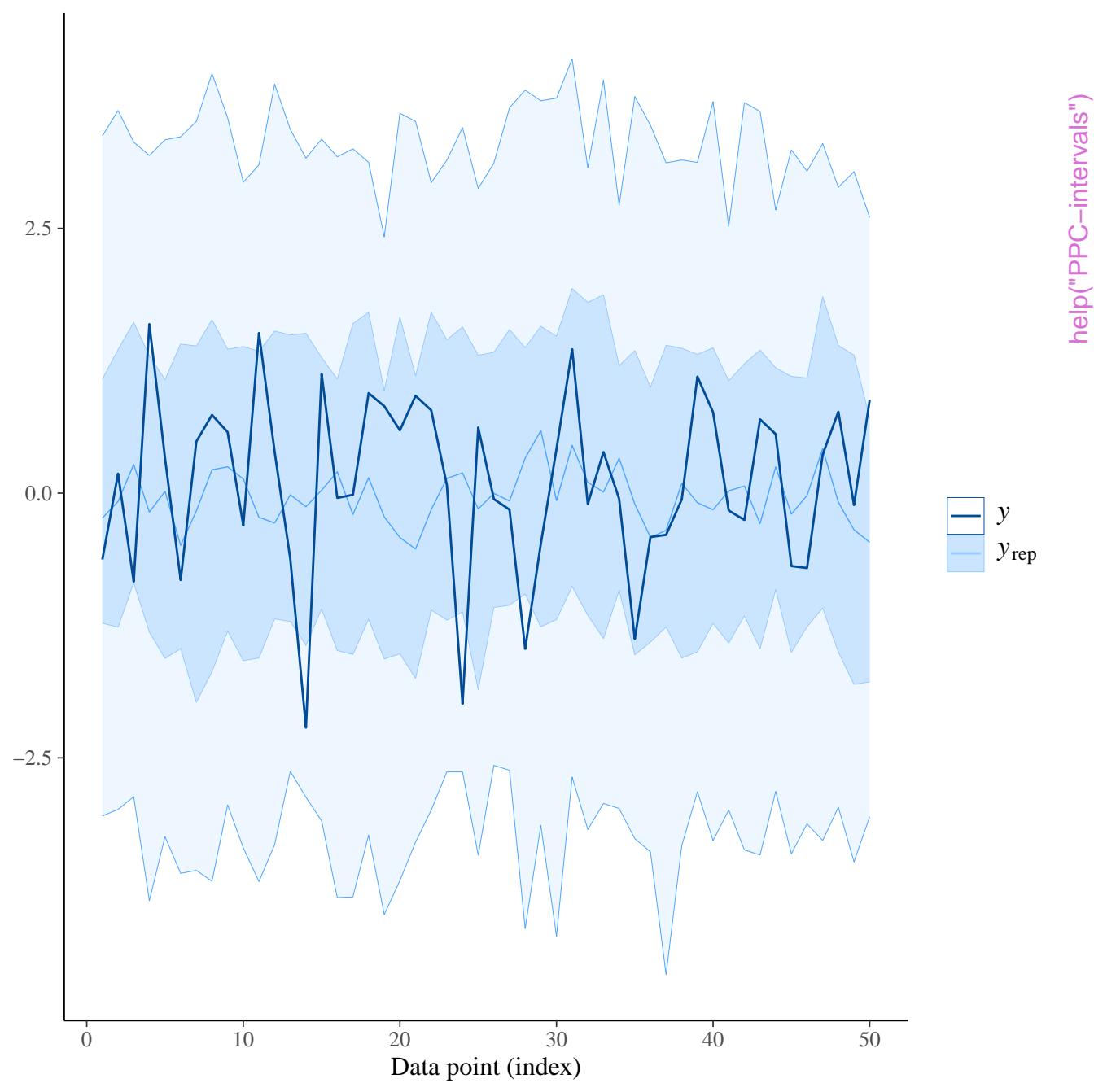


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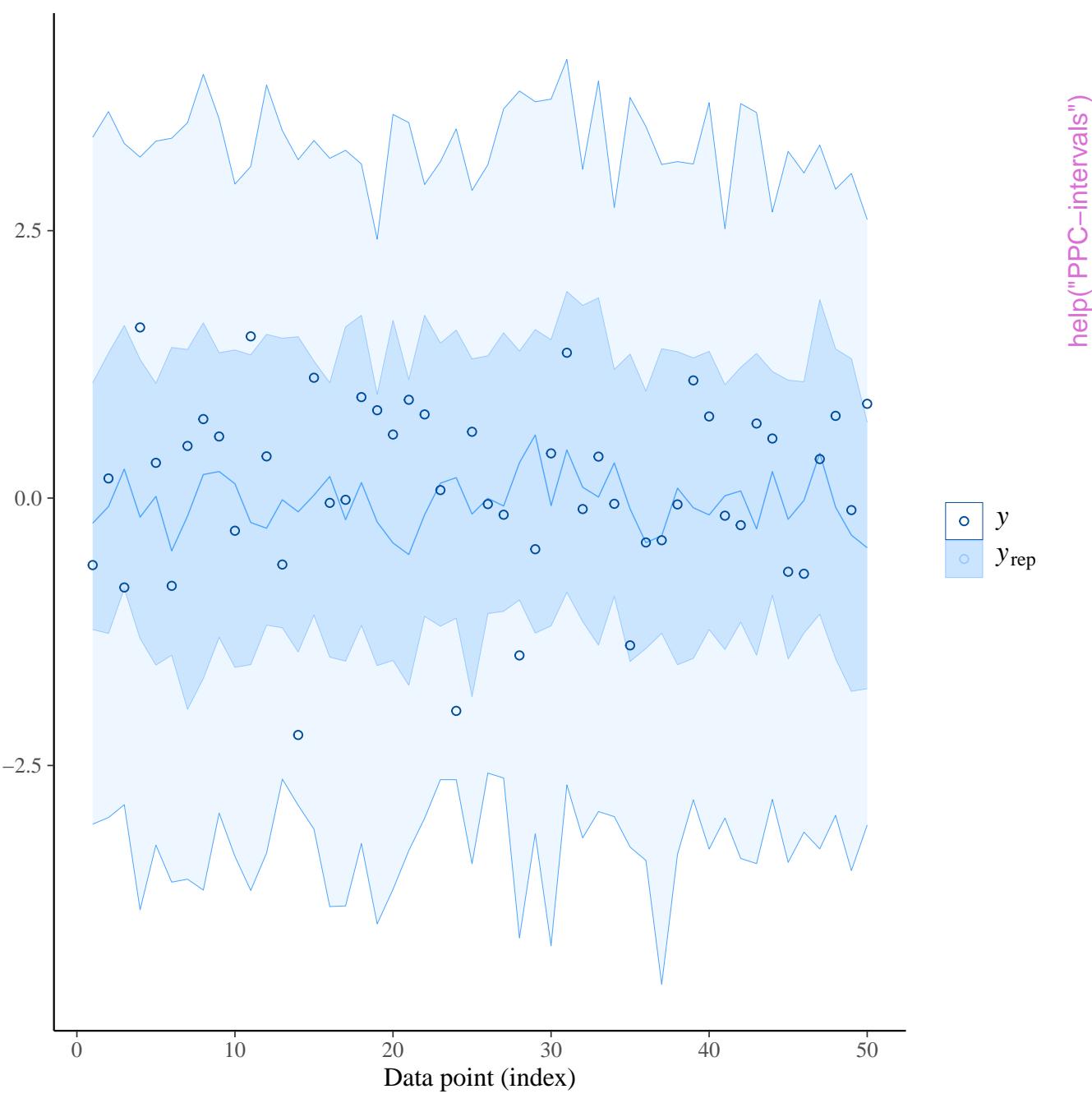
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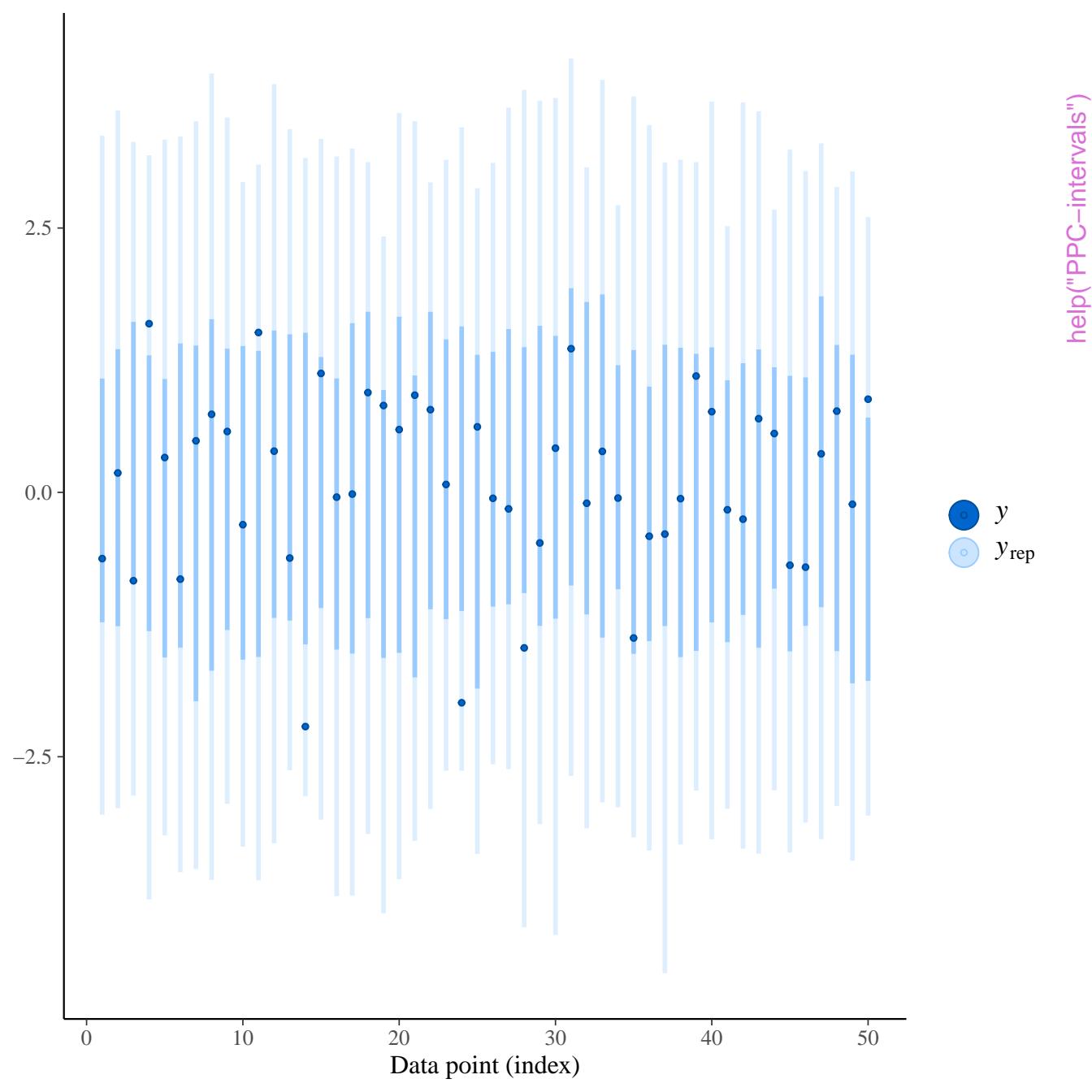
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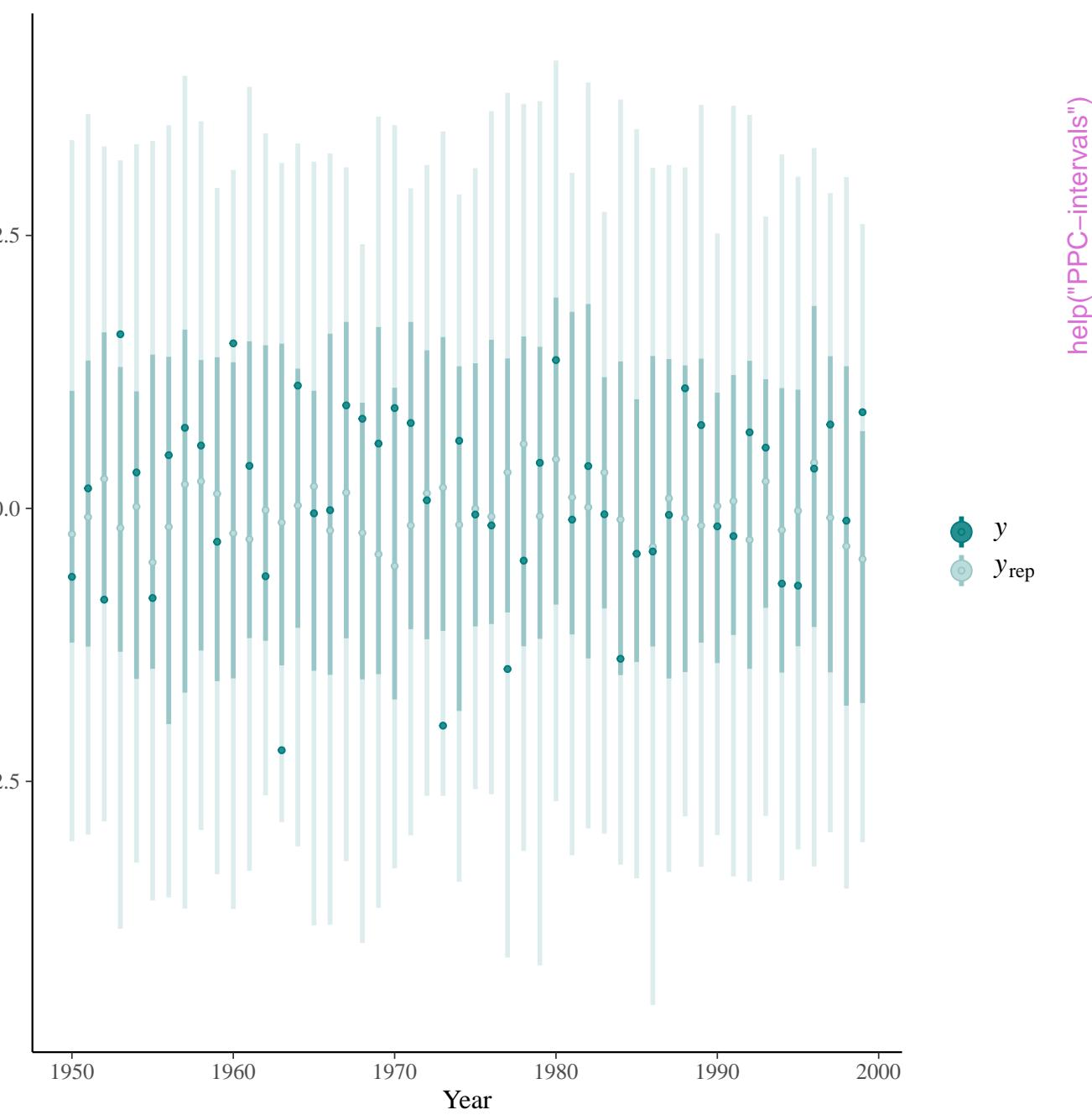
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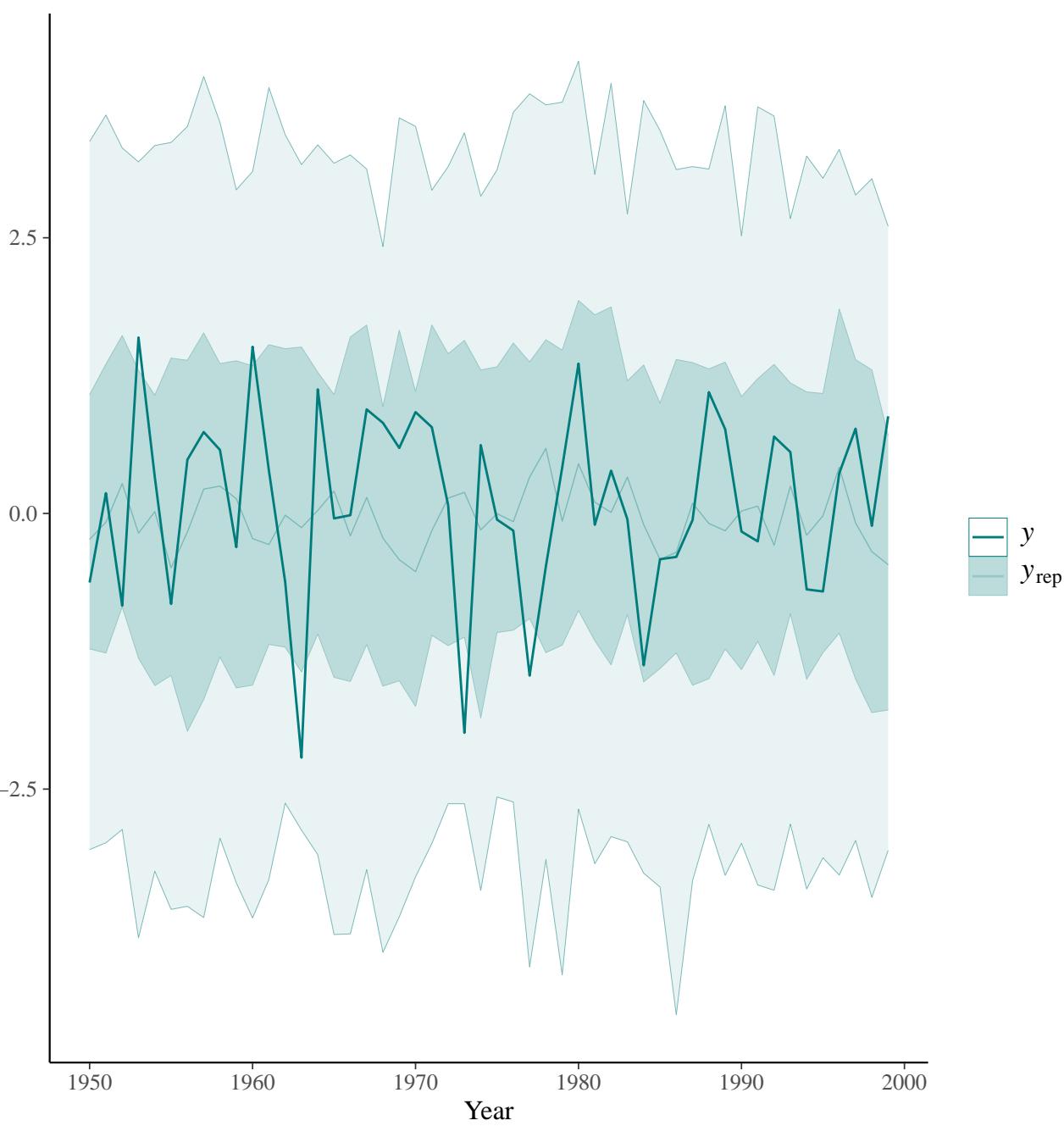
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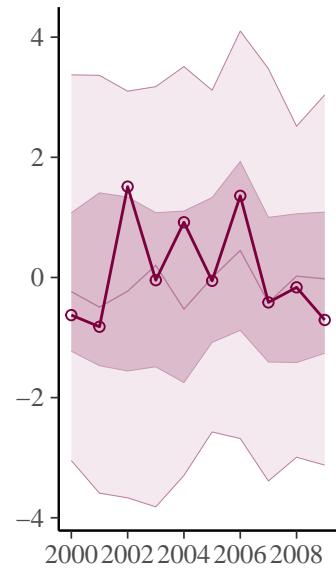


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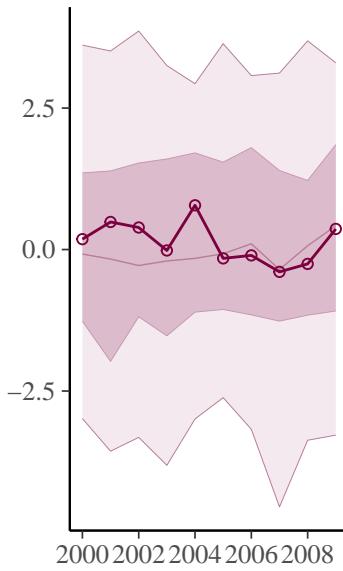


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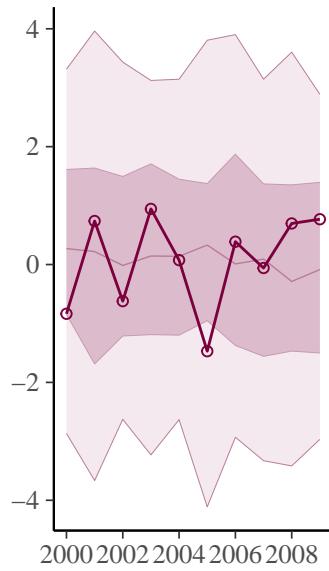
A



B

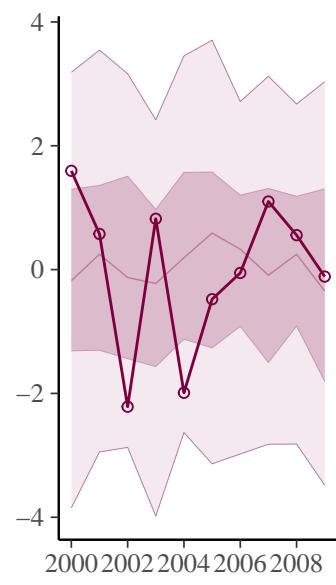


C

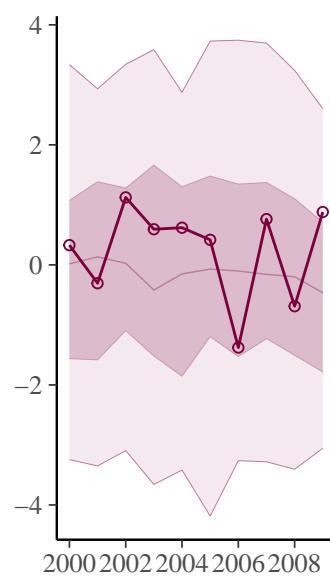


y
 y_{rep}

D

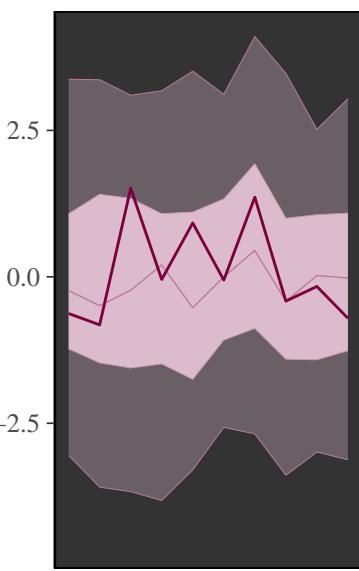


E

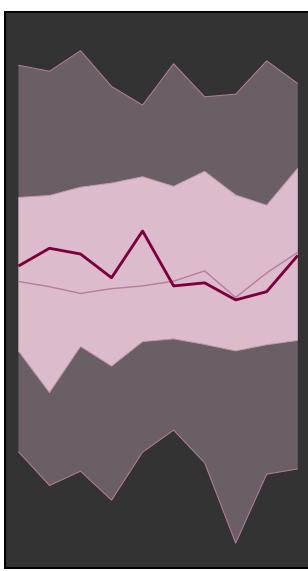


help("PPC-intervals")

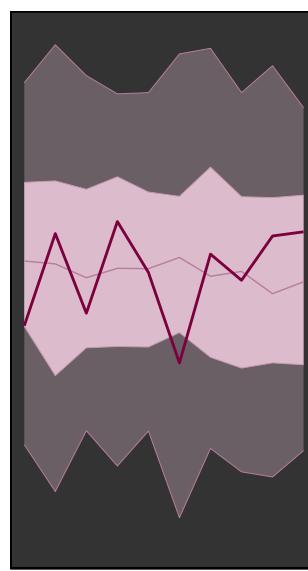
A



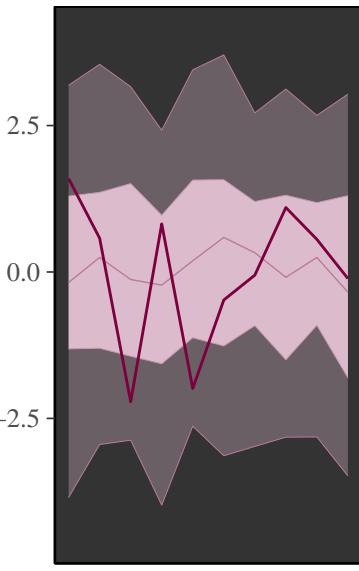
B



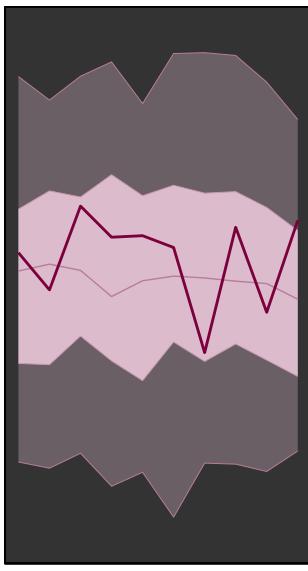
C



D

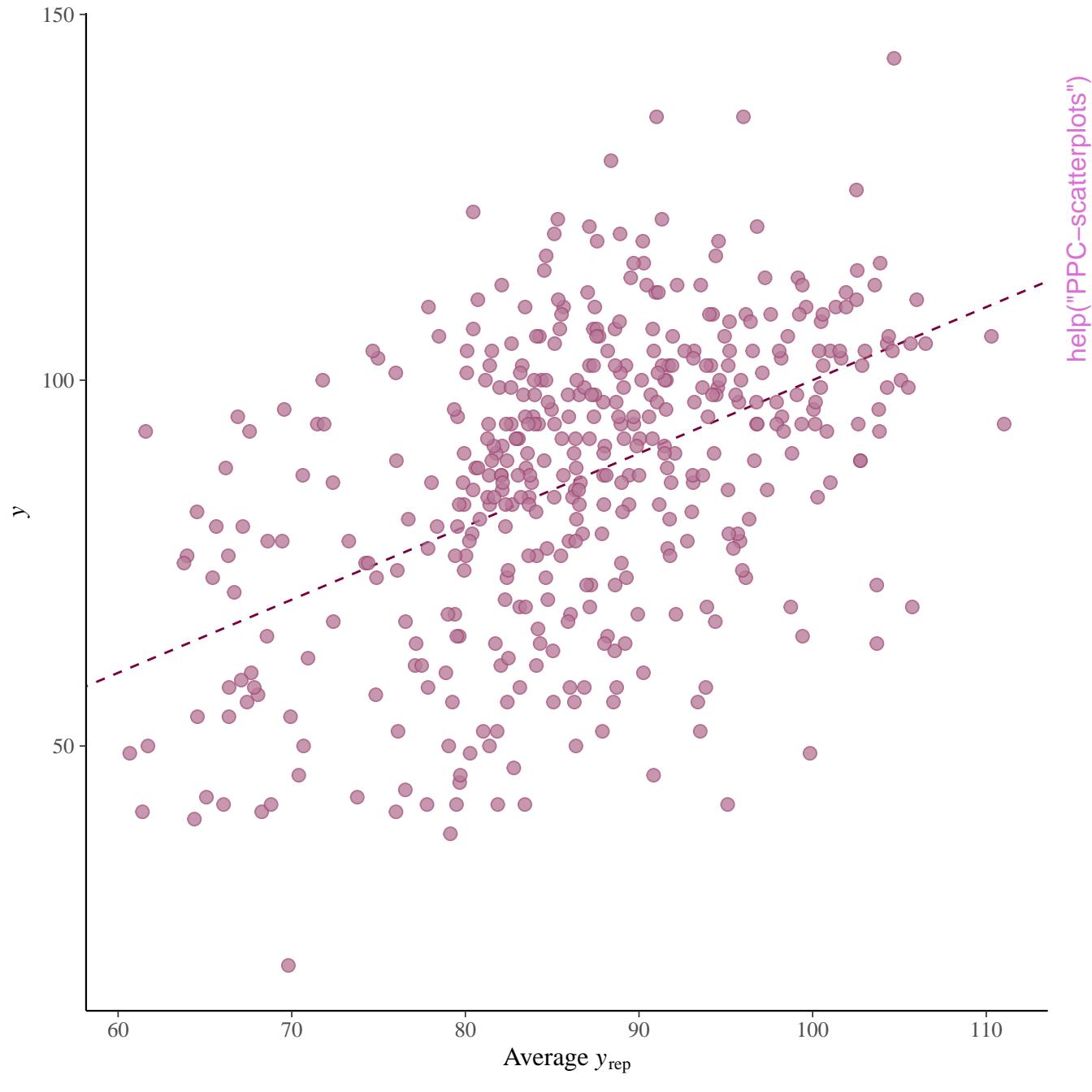


E

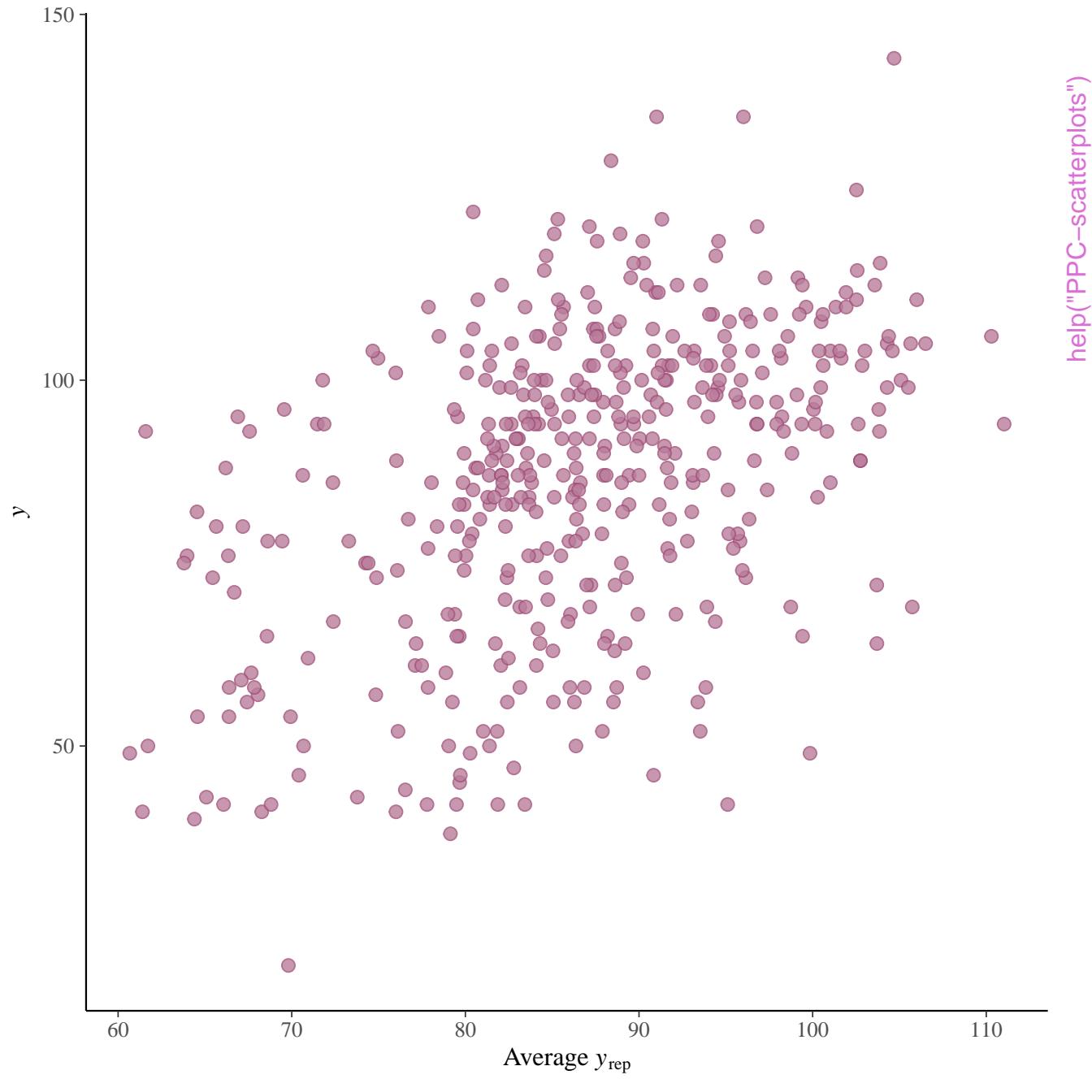


x

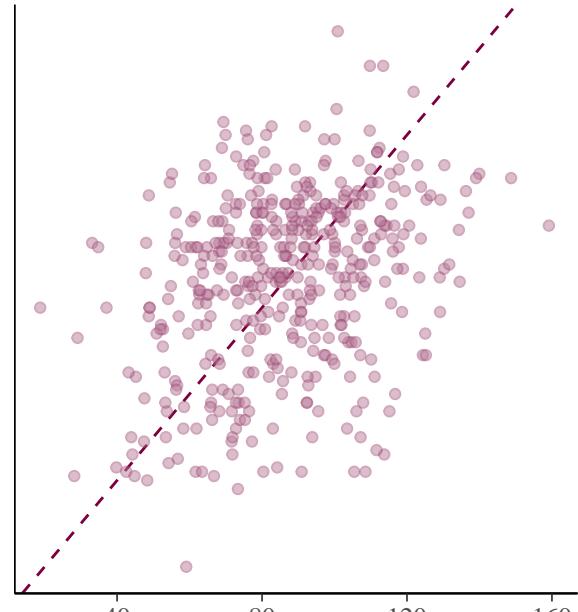
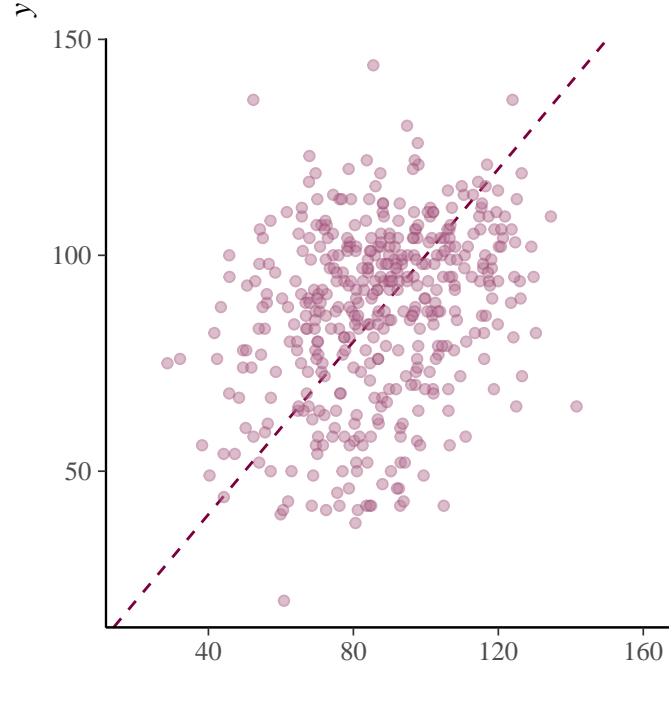
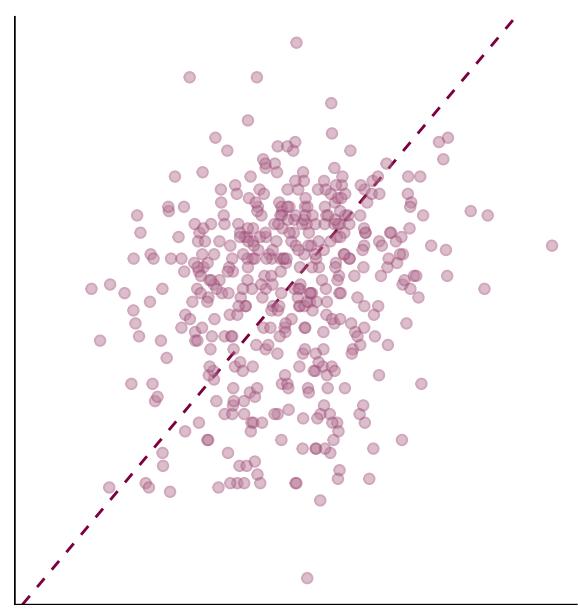
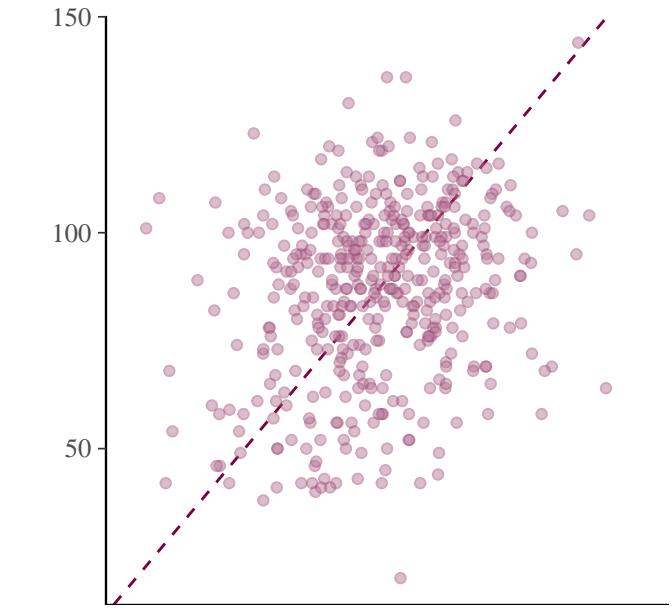
y
y_{rep}



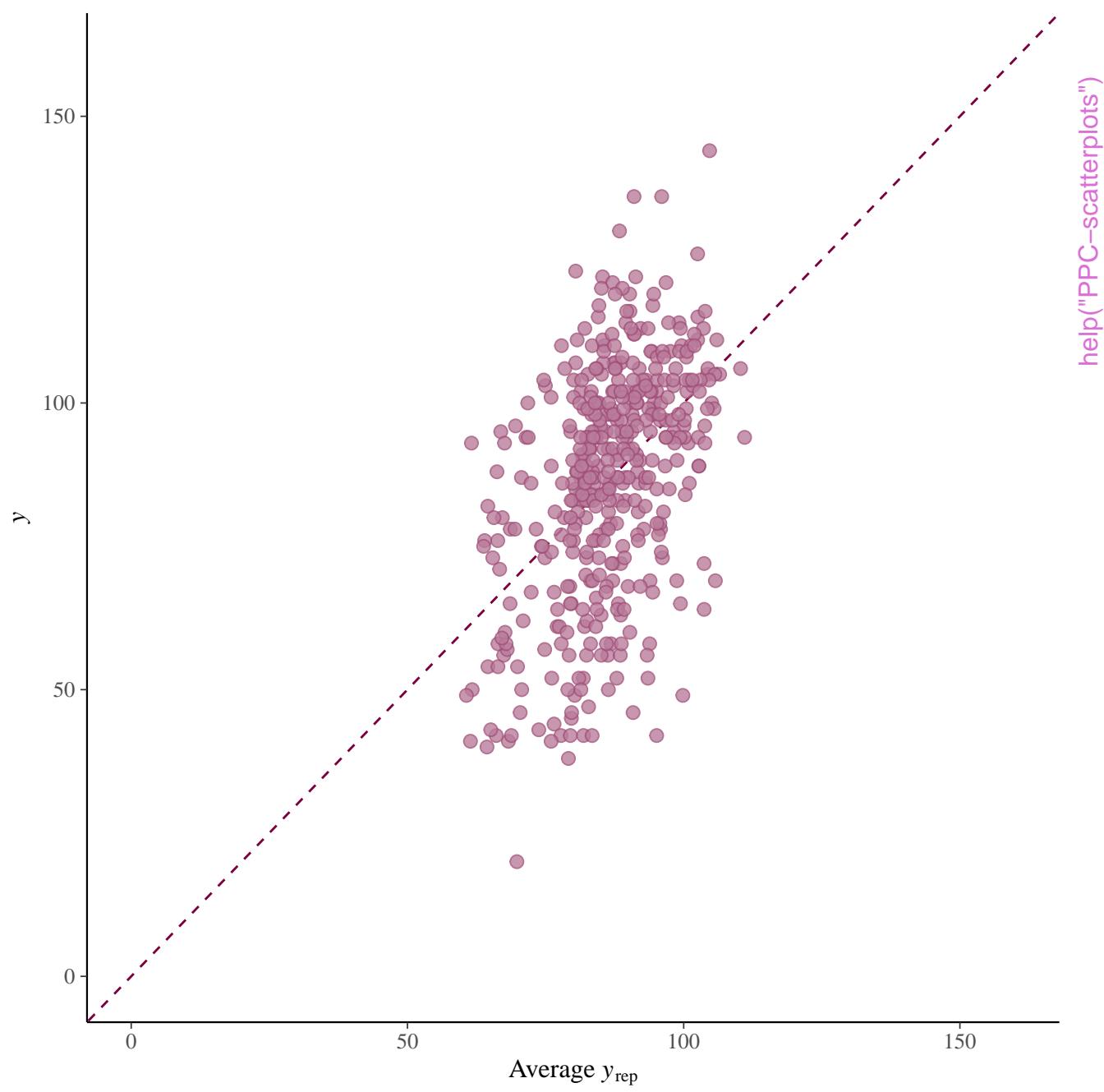
help("PPC-scatterplots")



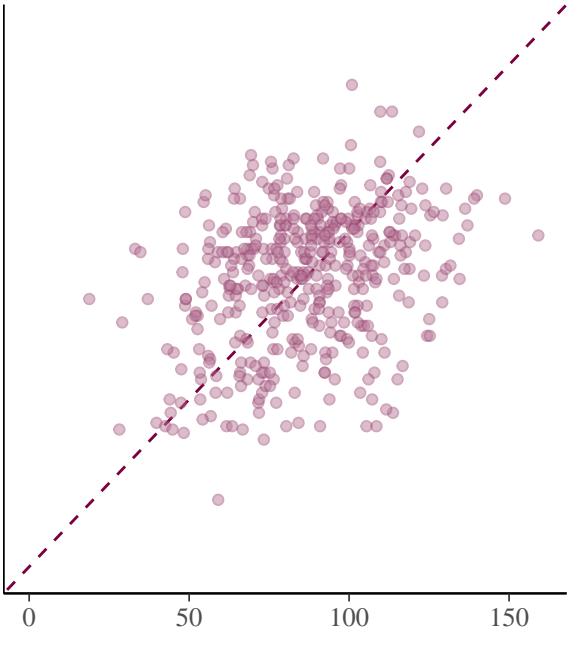
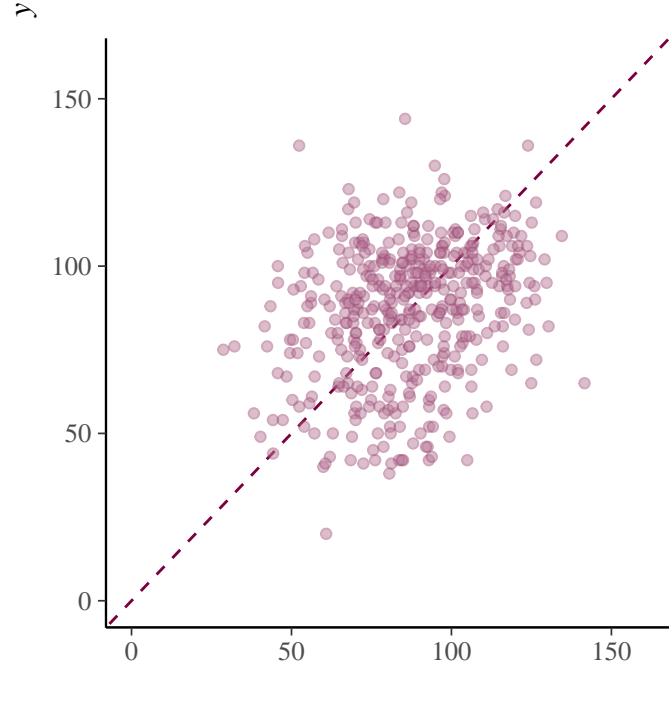
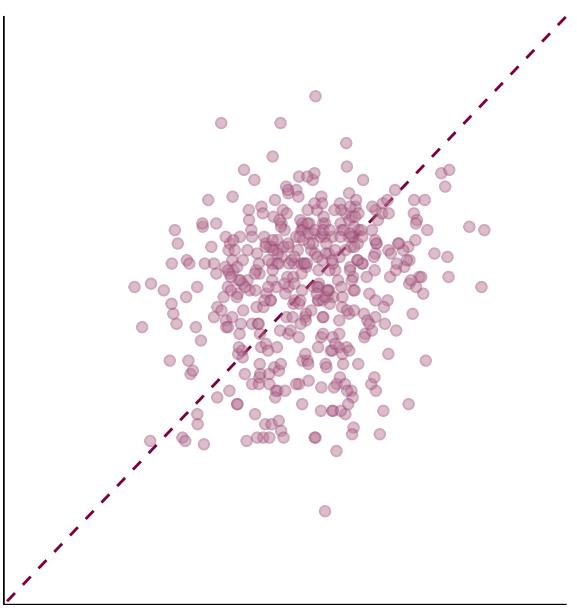
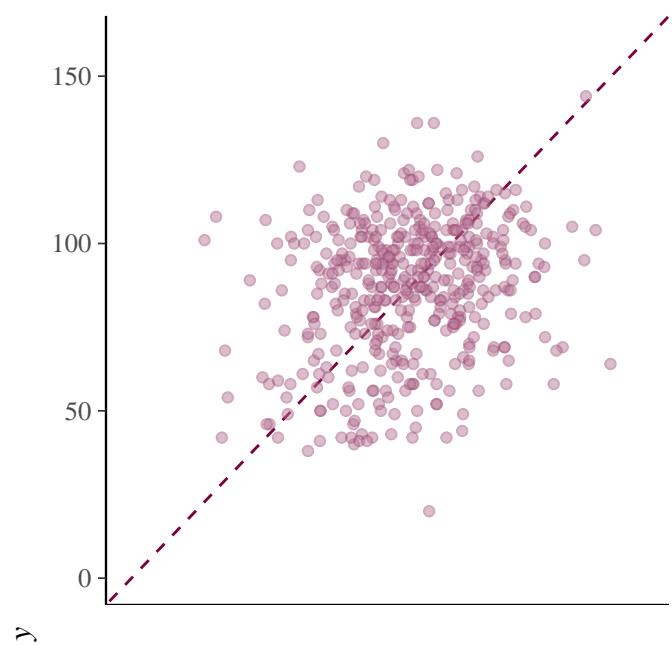
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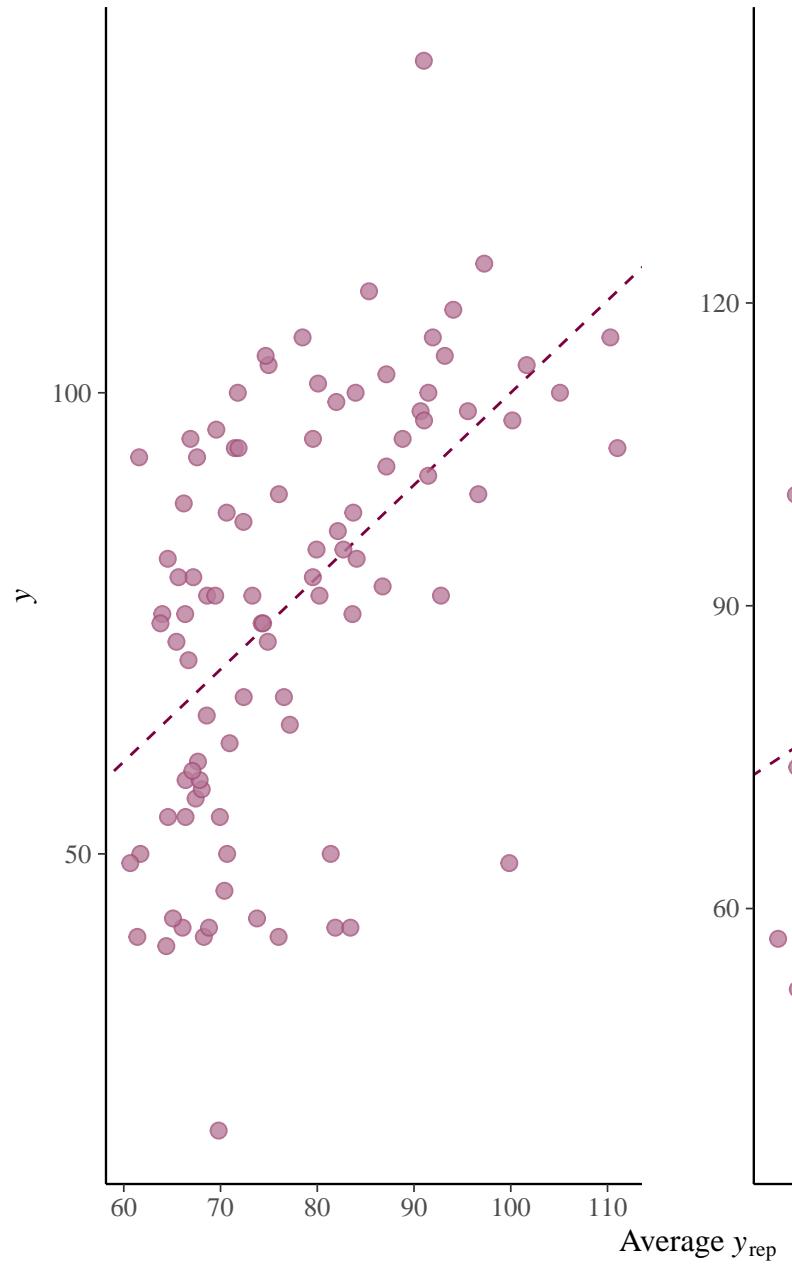
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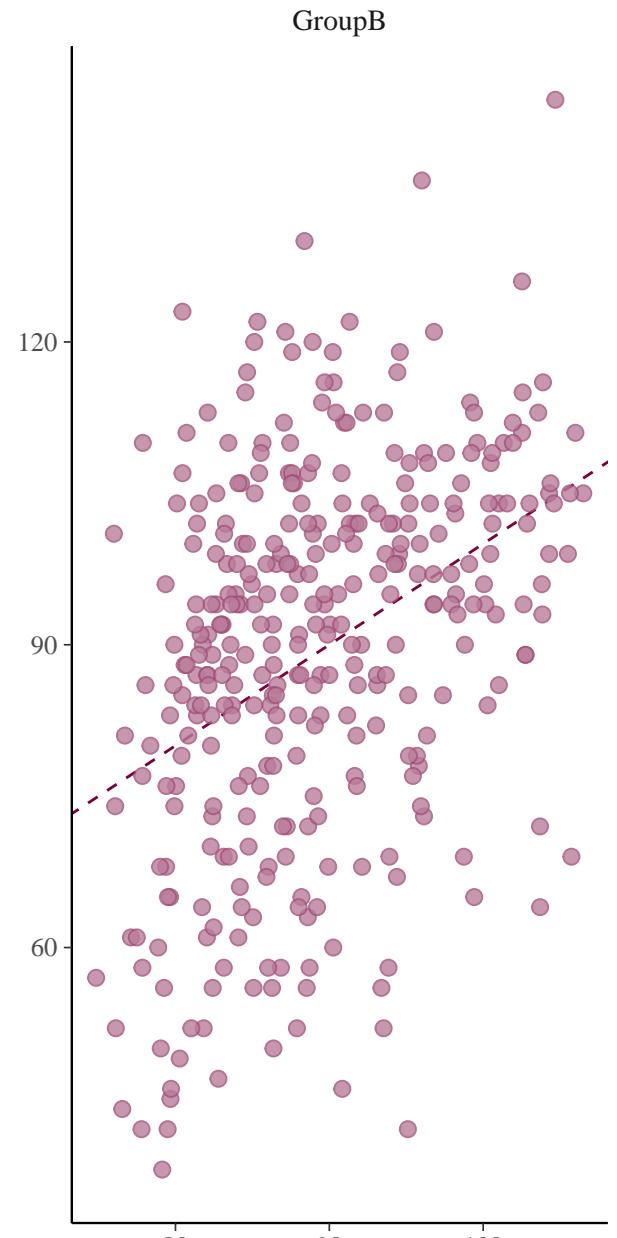
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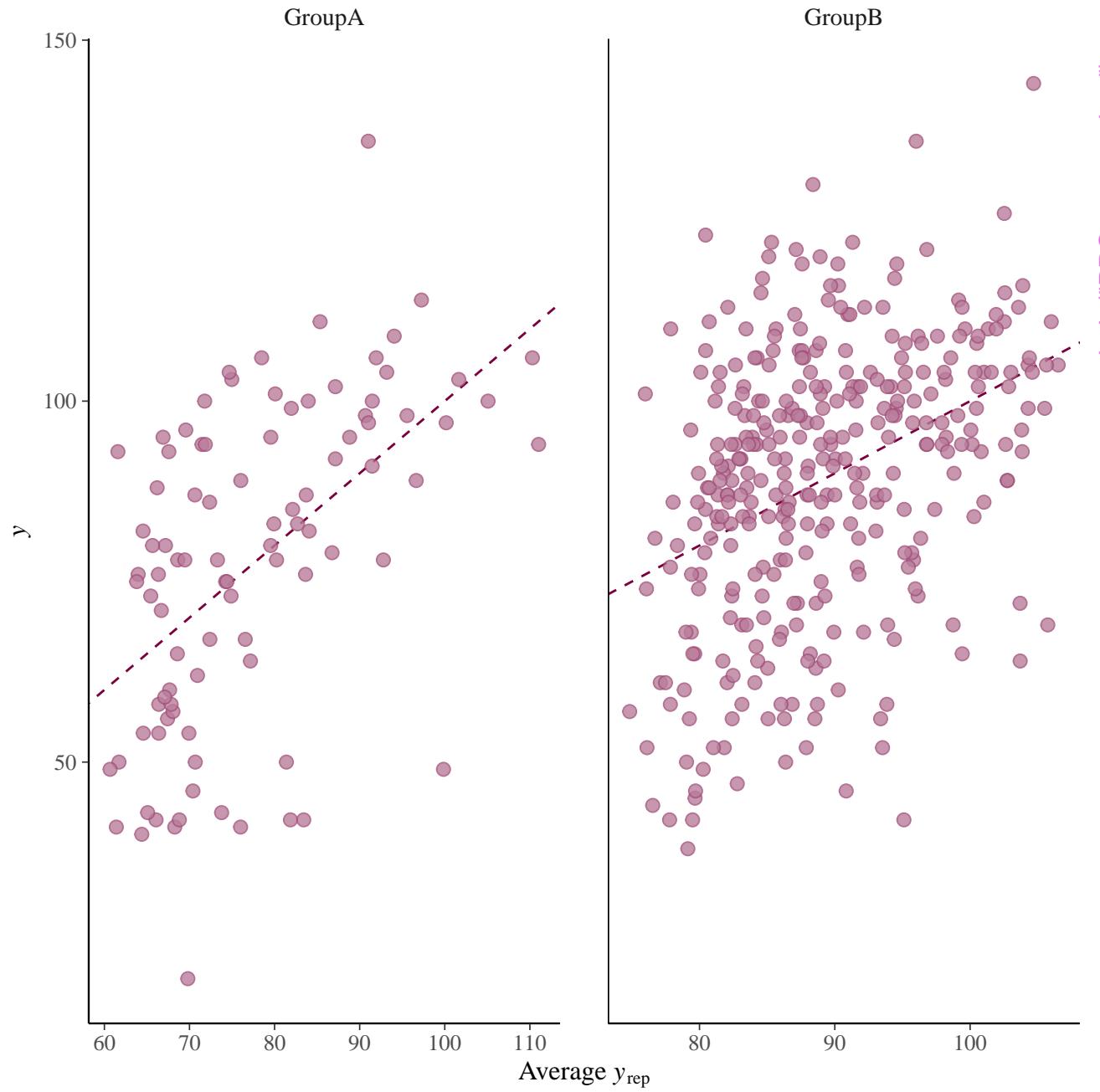
GroupA



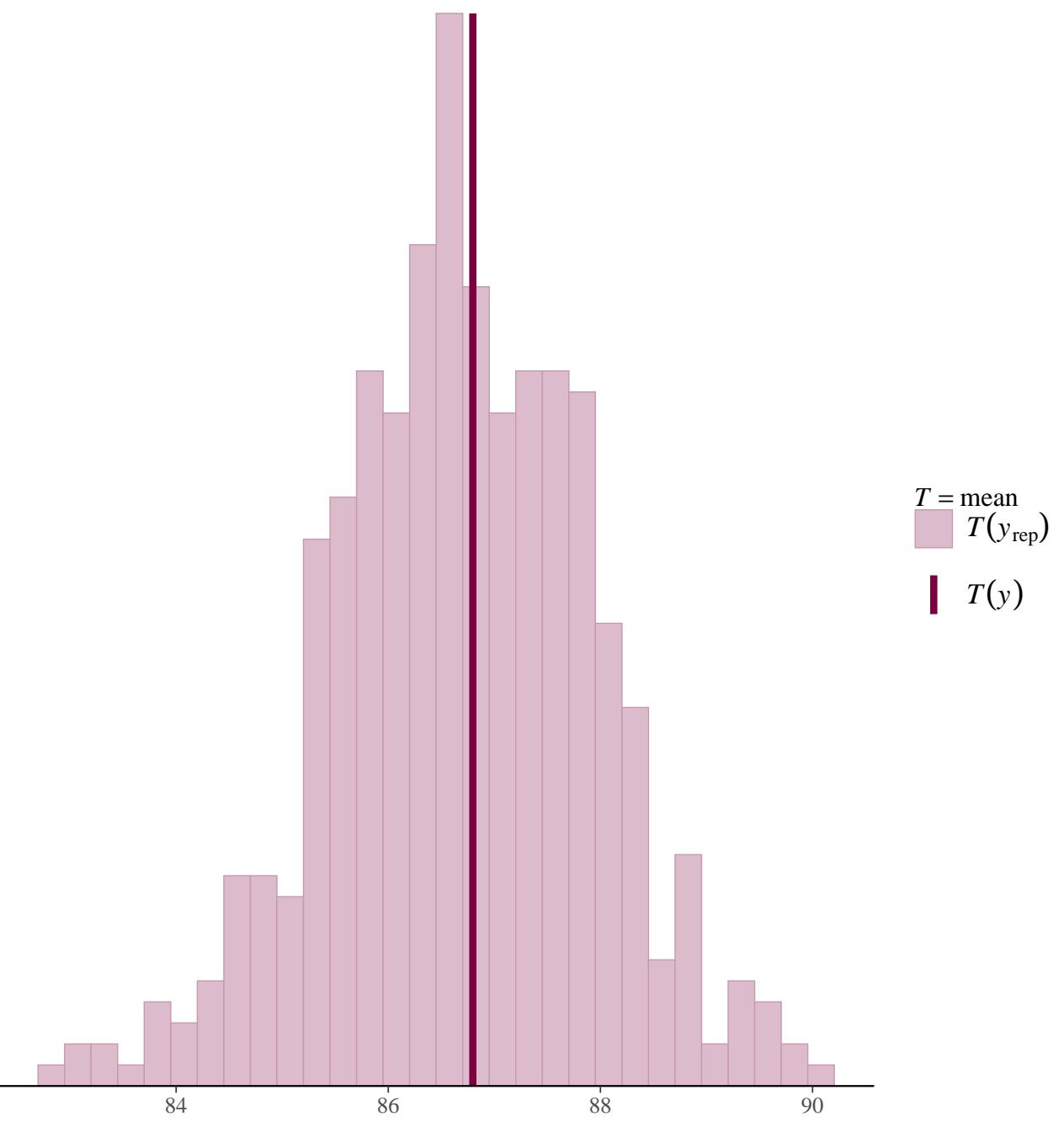
GroupB



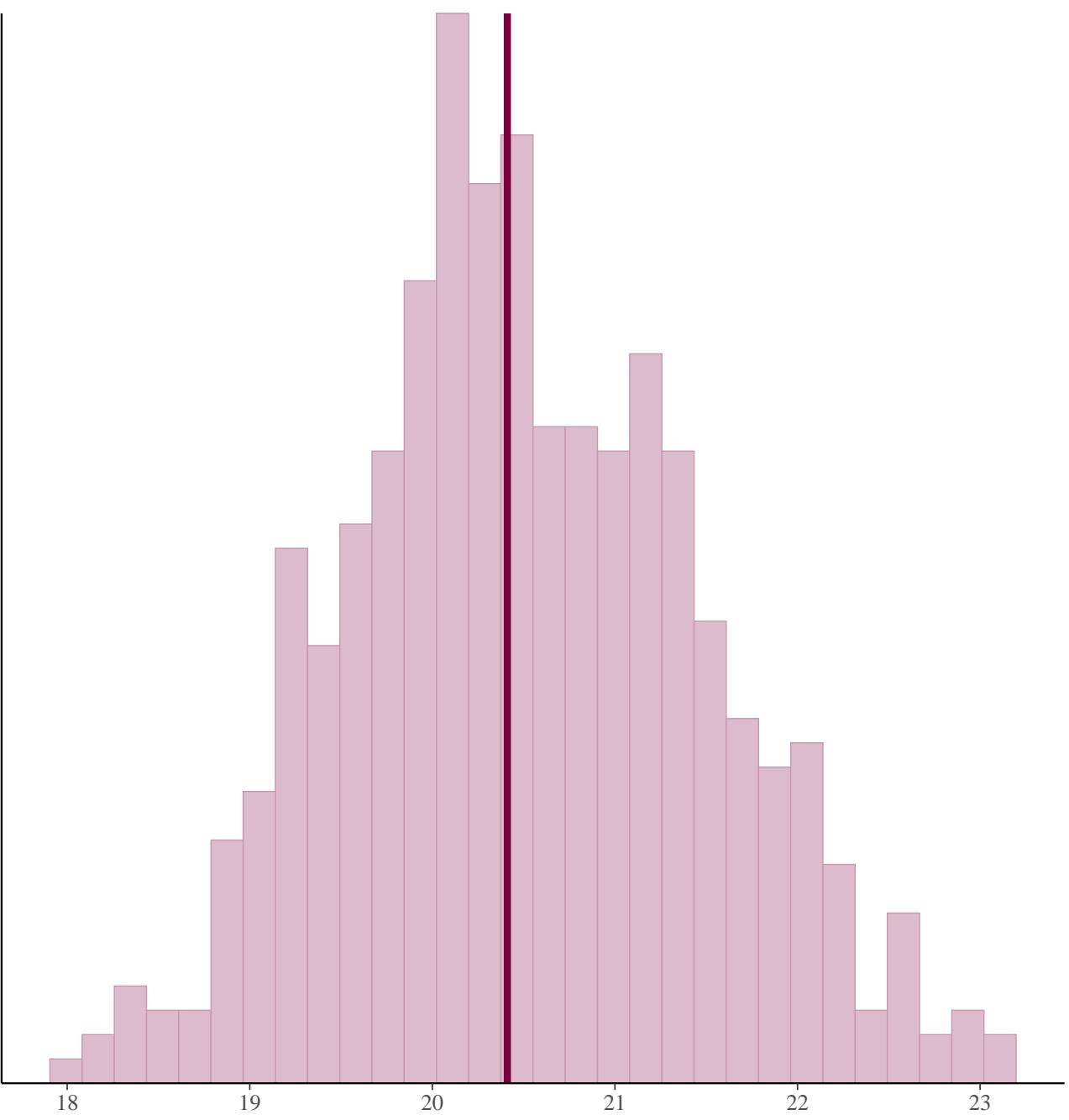
help("PPC-scatterplots")



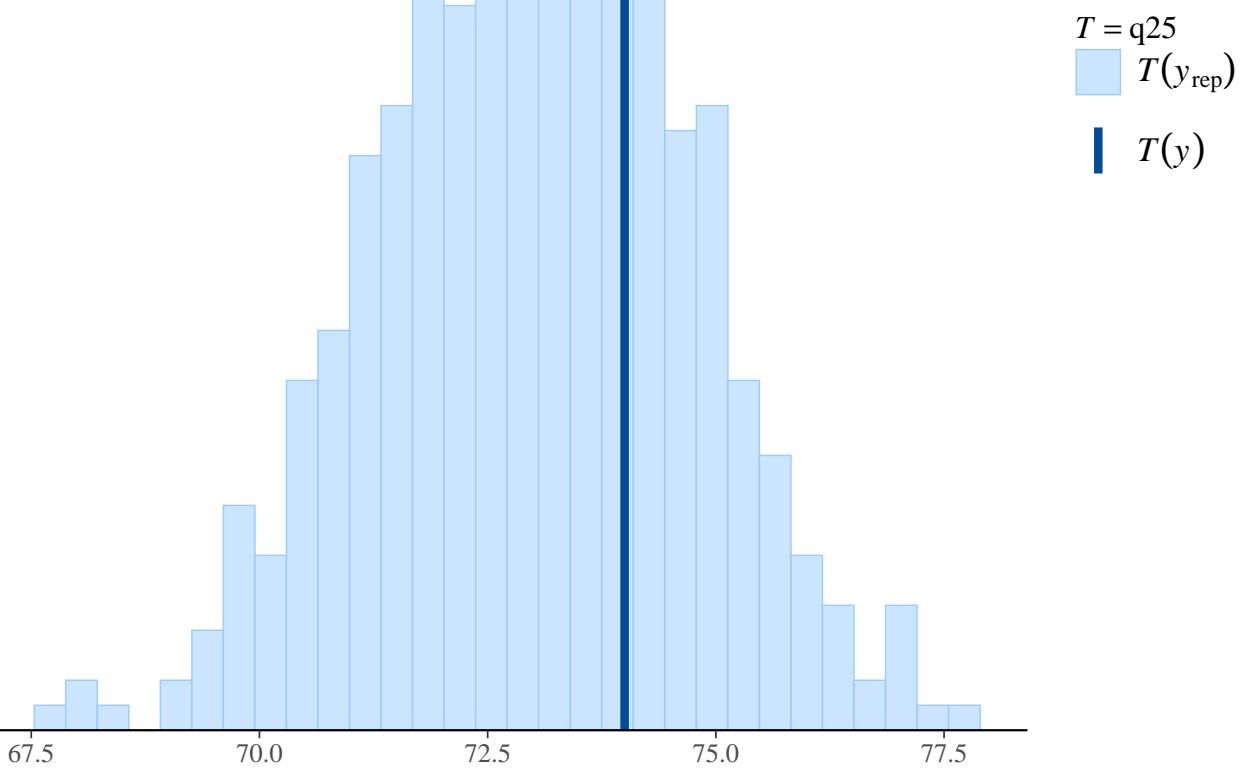
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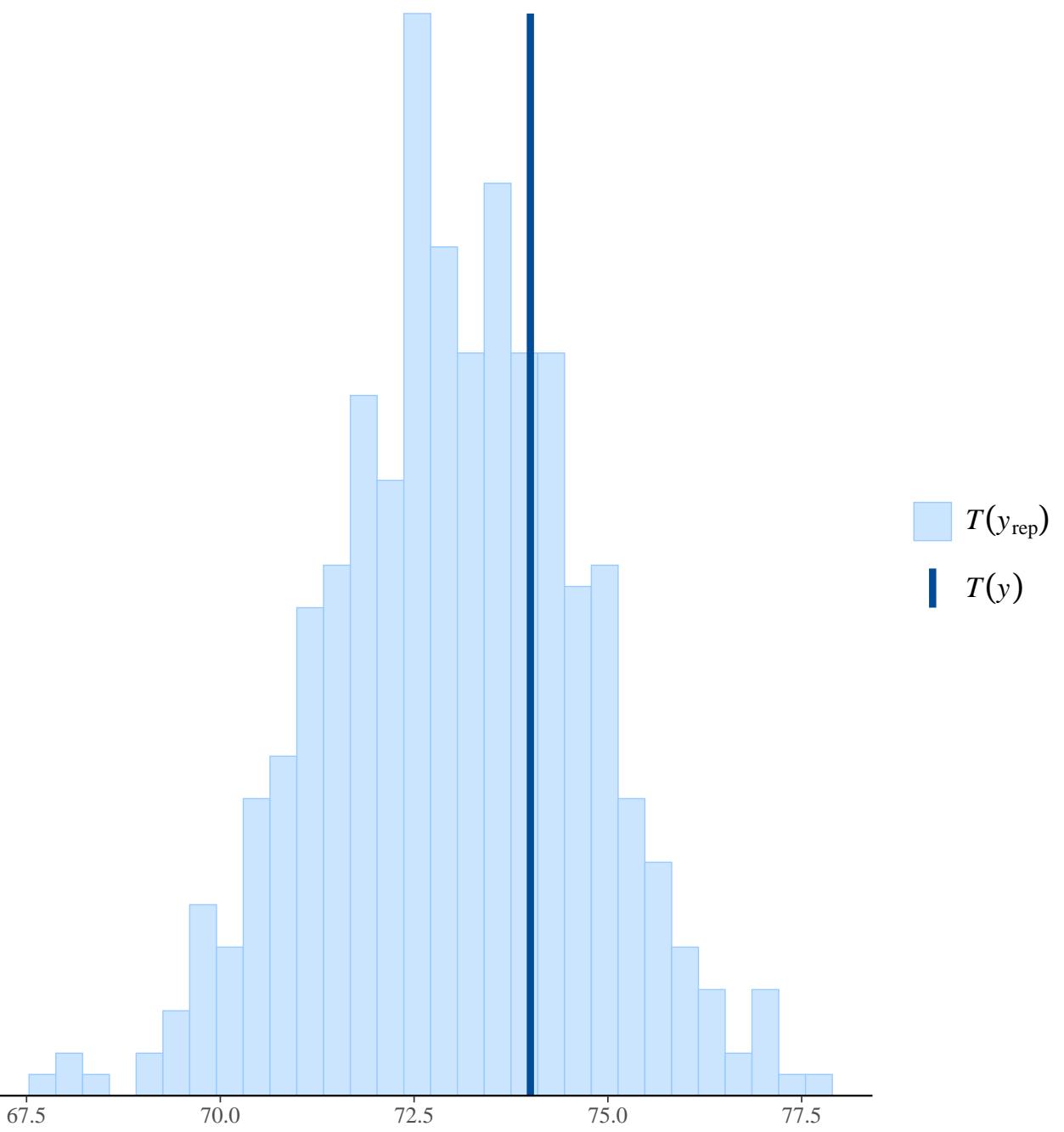
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help("PPC-test-statistics")

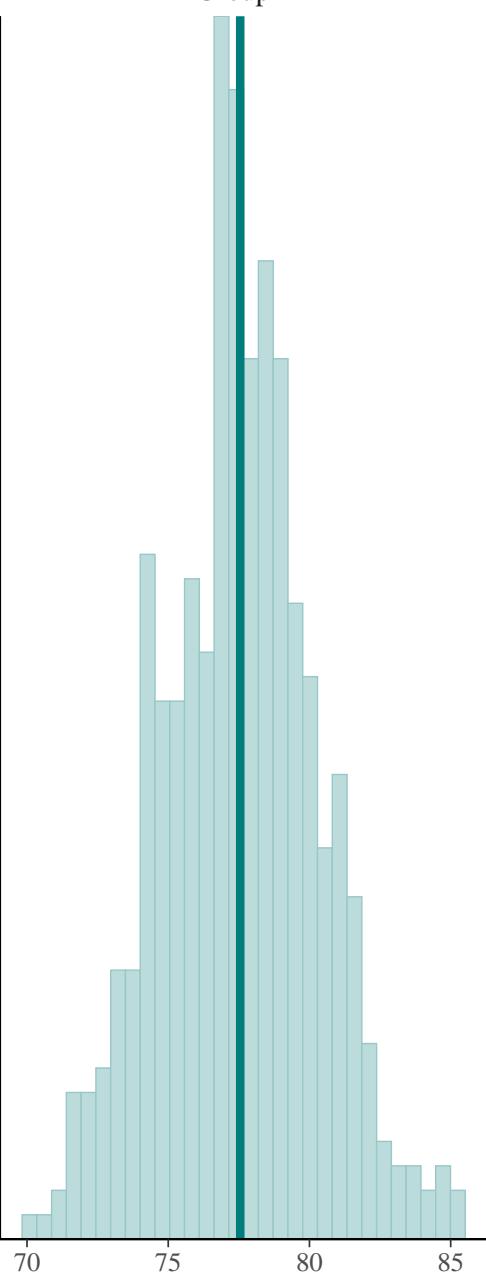


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help("PPC-test-statistics")
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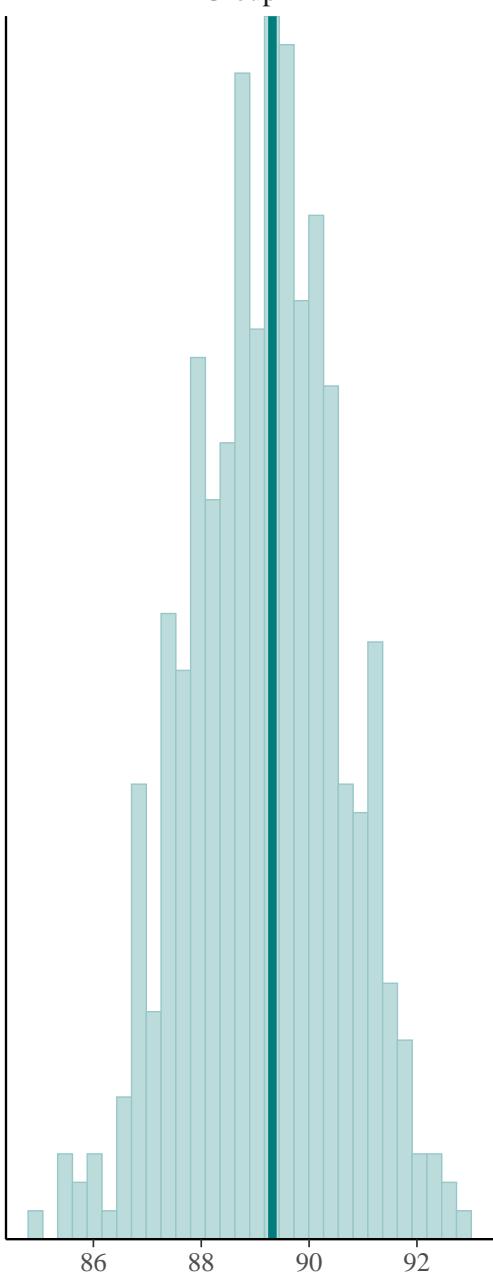


help("PPC-test-statistics")

GroupA



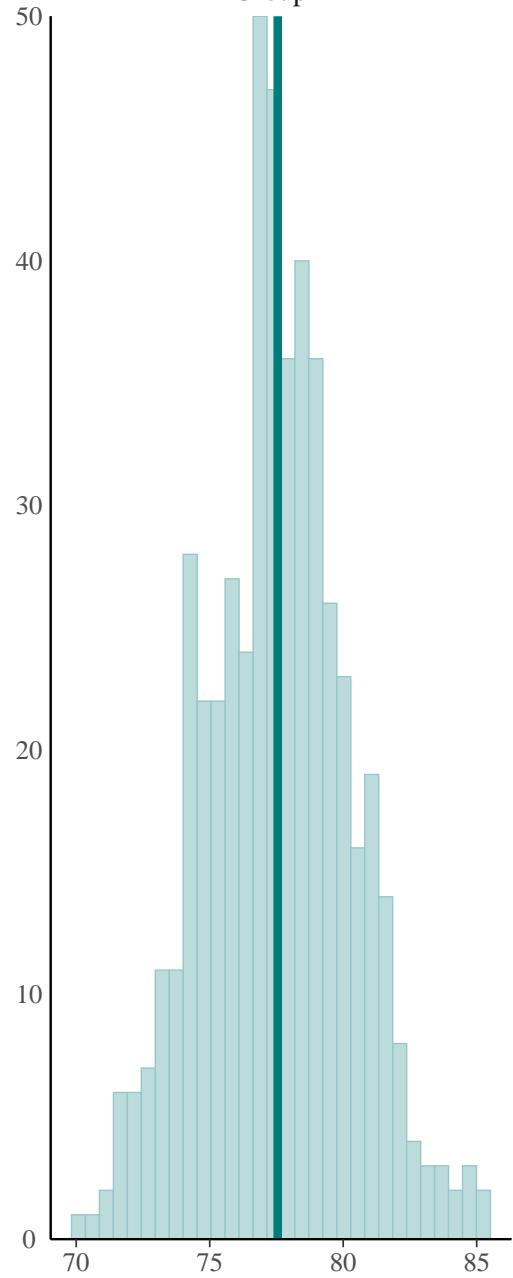
GroupB



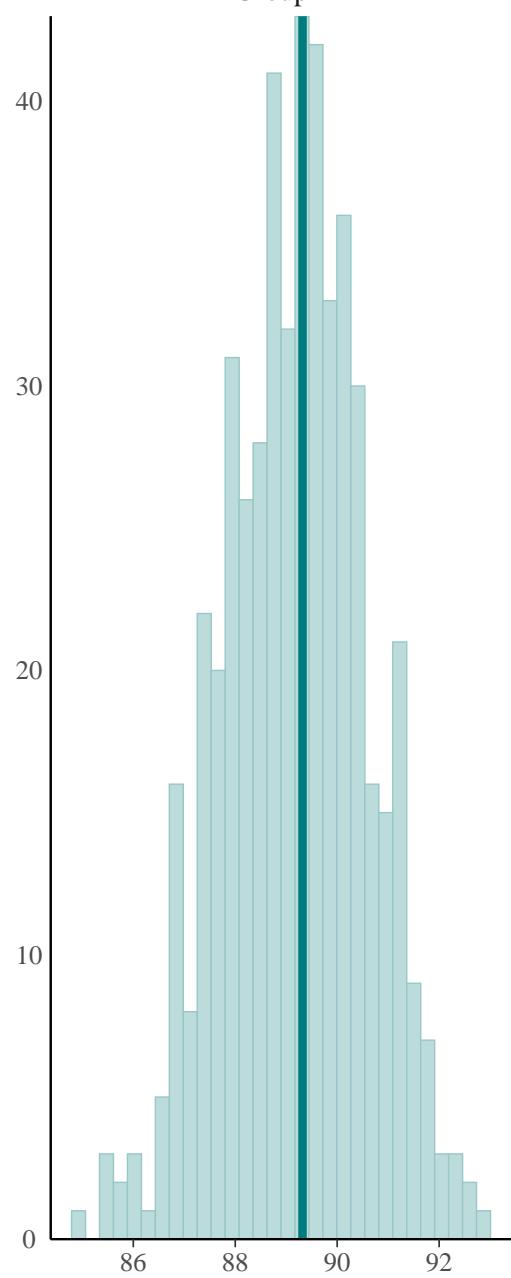
$T = \text{mean}$
 $T(y_{\text{rep}})$
 $T(y)$

help("PPC-test-statistics")

GroupA



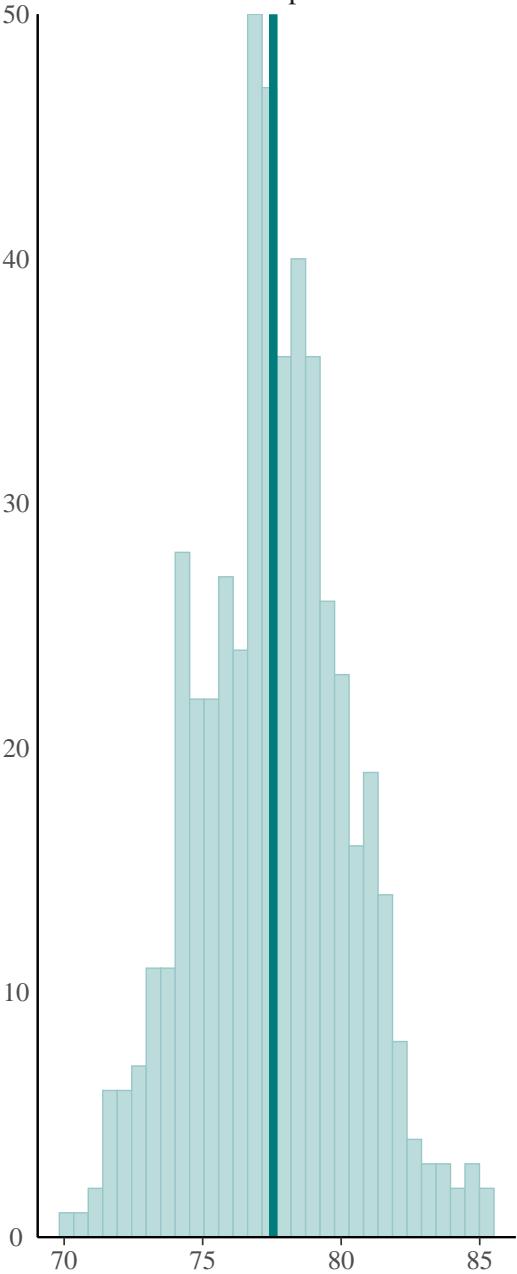
GroupB



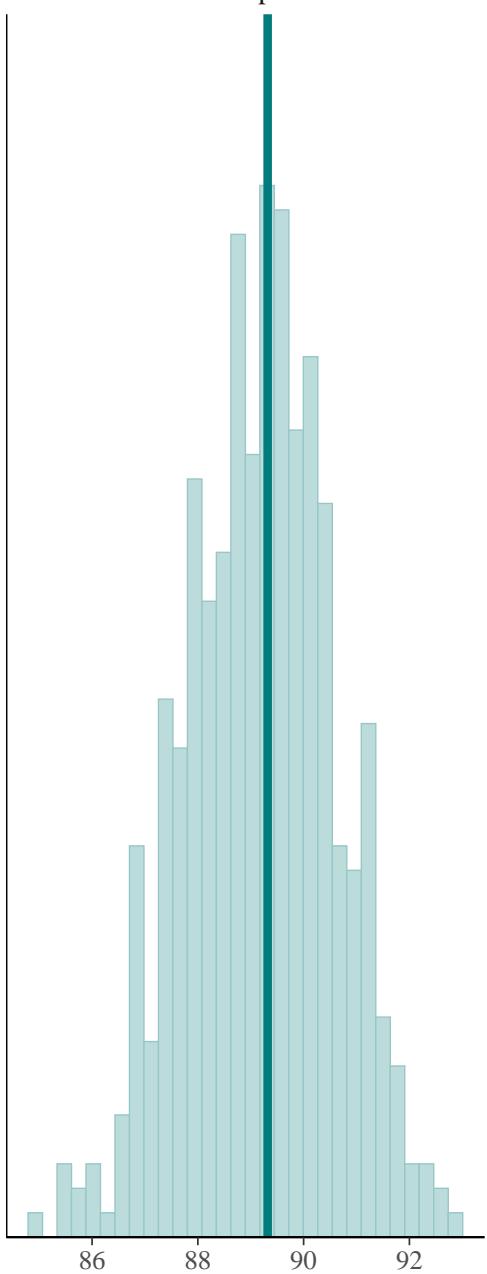
$T = \text{mean}$
 $T(y_{\text{rep}})$
 $T(y)$

help("PPC-test-statistics")

GroupA

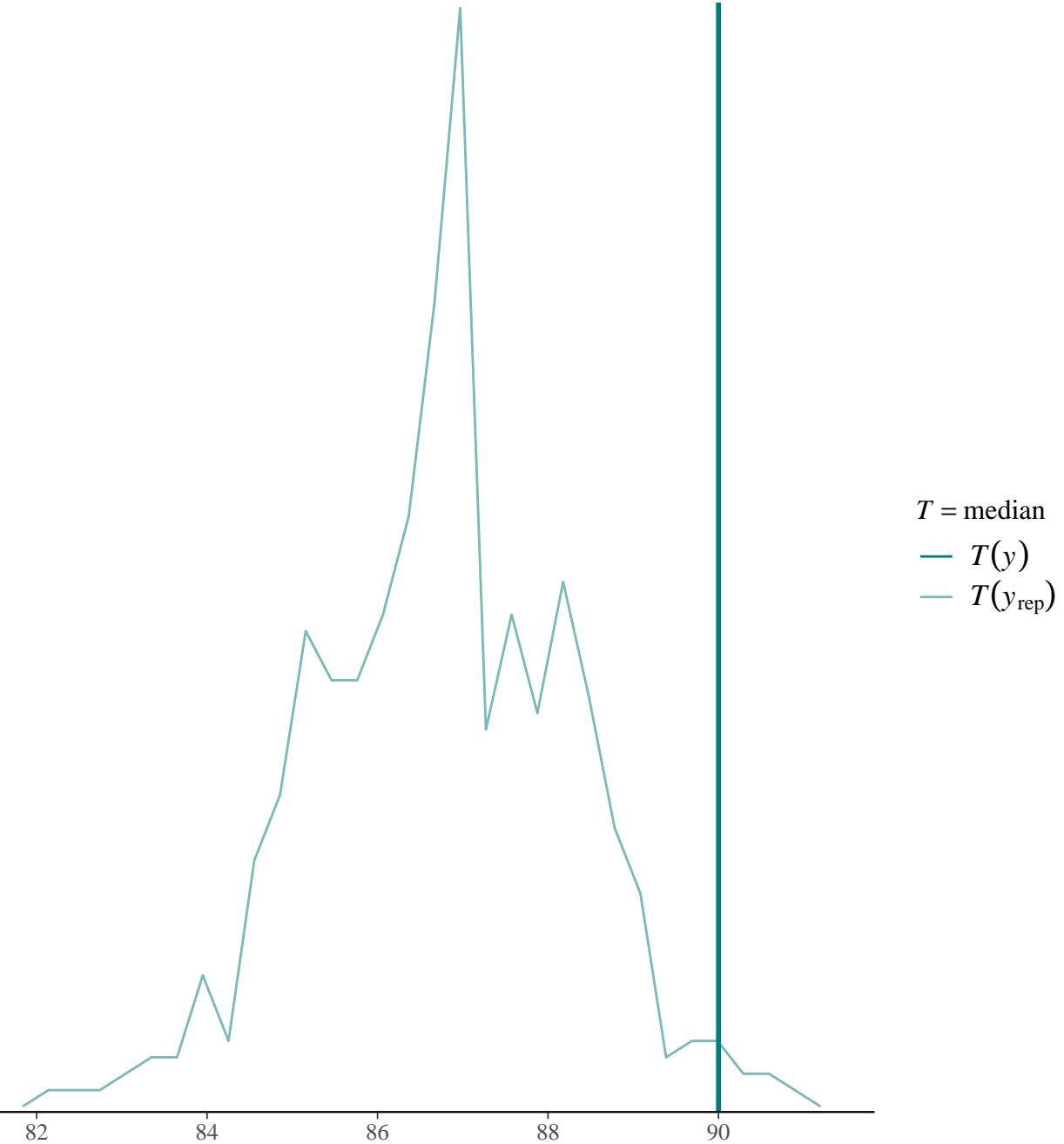


GroupB



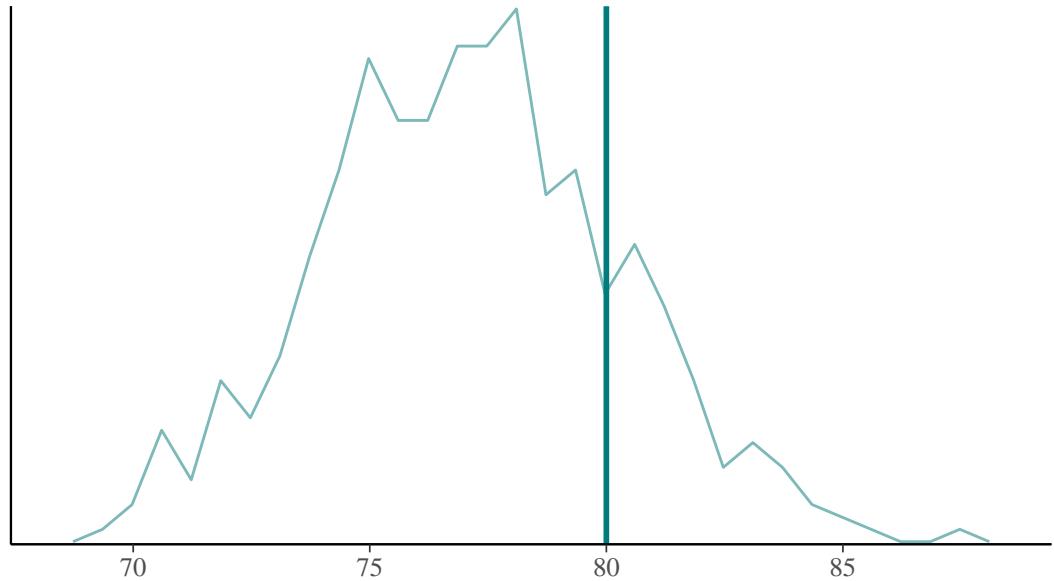
$T = \text{mean}$
 $T(y_{\text{rep}})$
 $T(y)$

help("PPC-test-statistics")

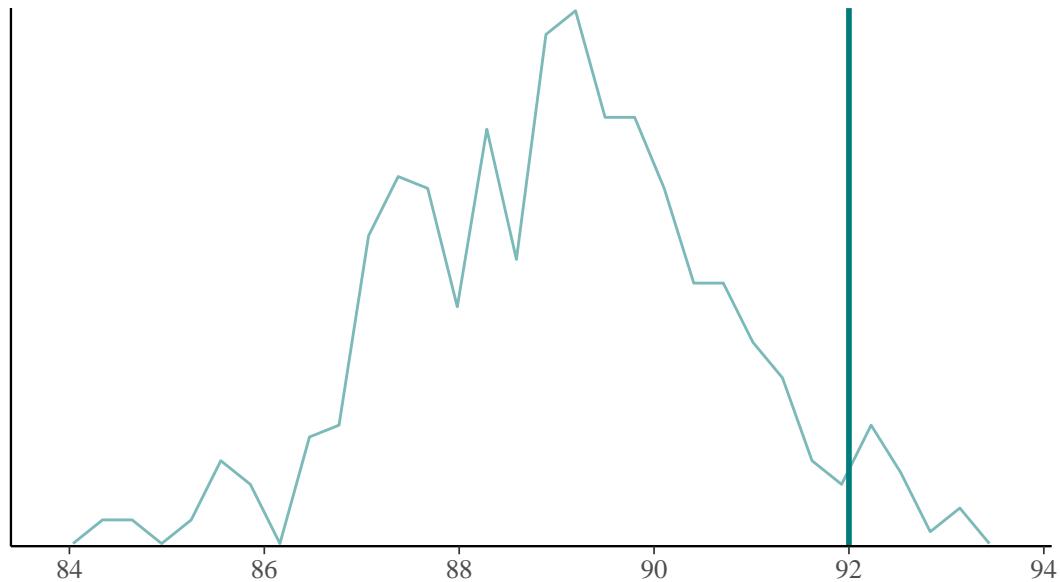


help("PPC-test-statistics")

GroupA

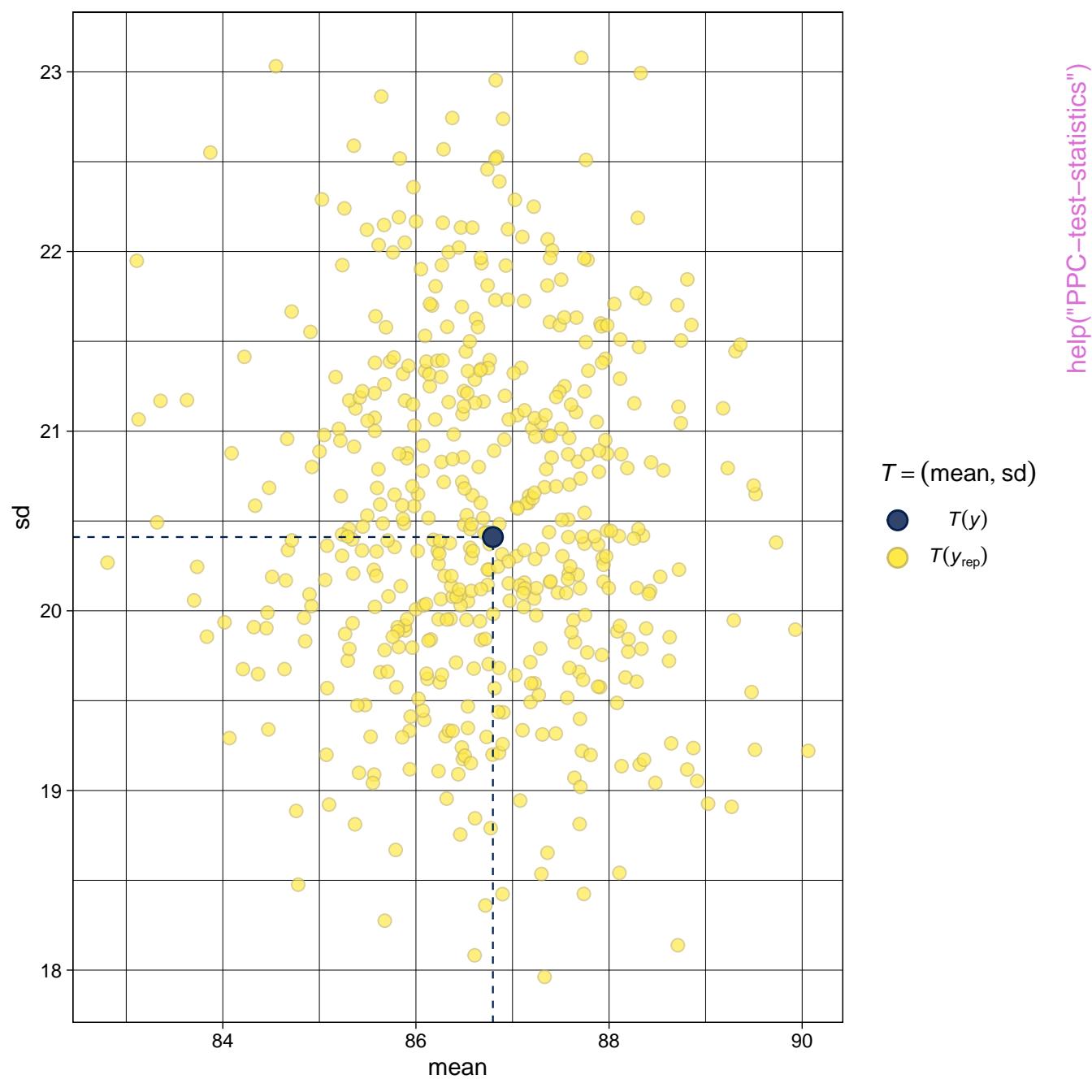


GroupB

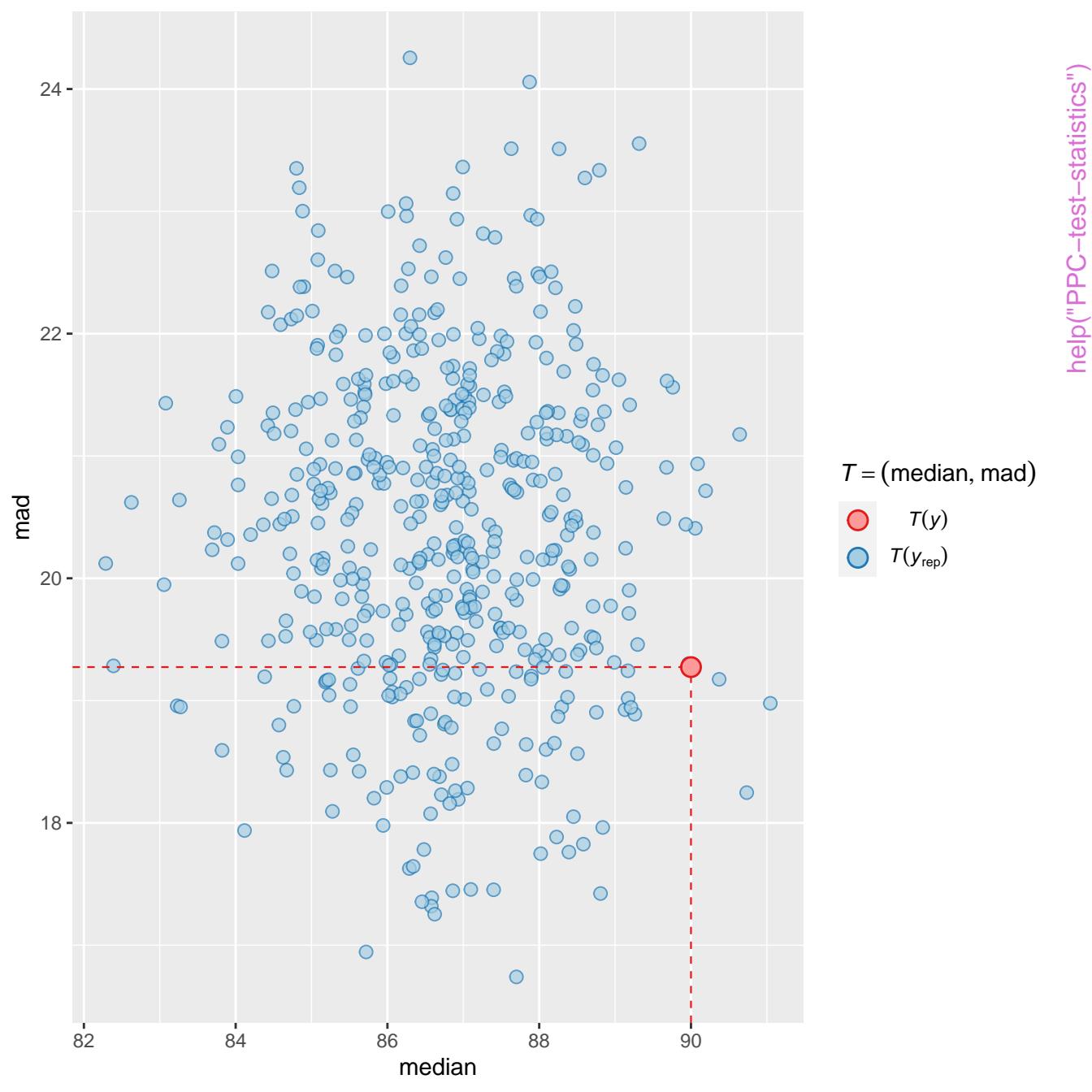


$T = \text{median}$
 $\text{---} T(y)$
 $\text{—} T(y_{rep})$

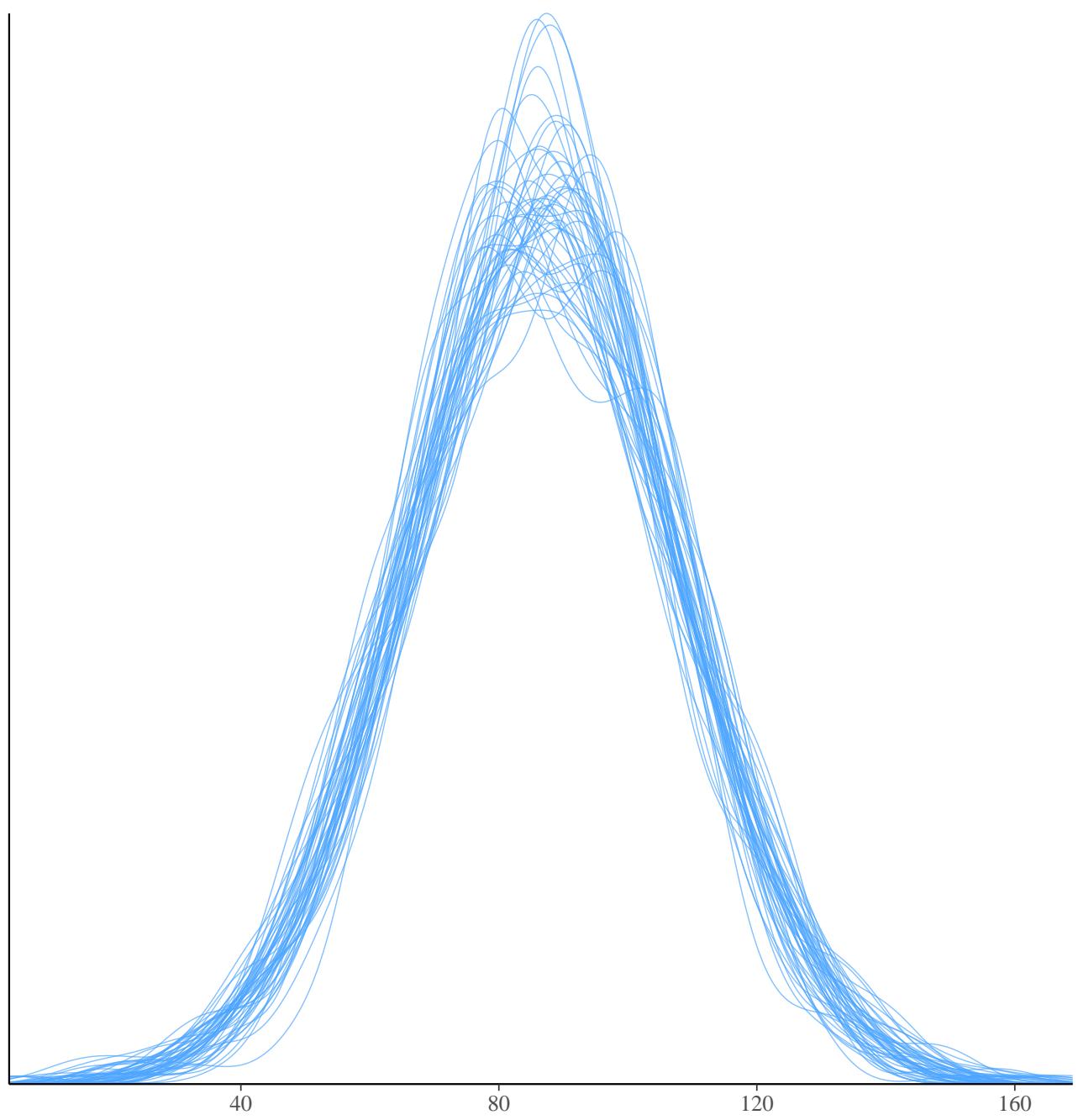
help("PPC-test-statistics")



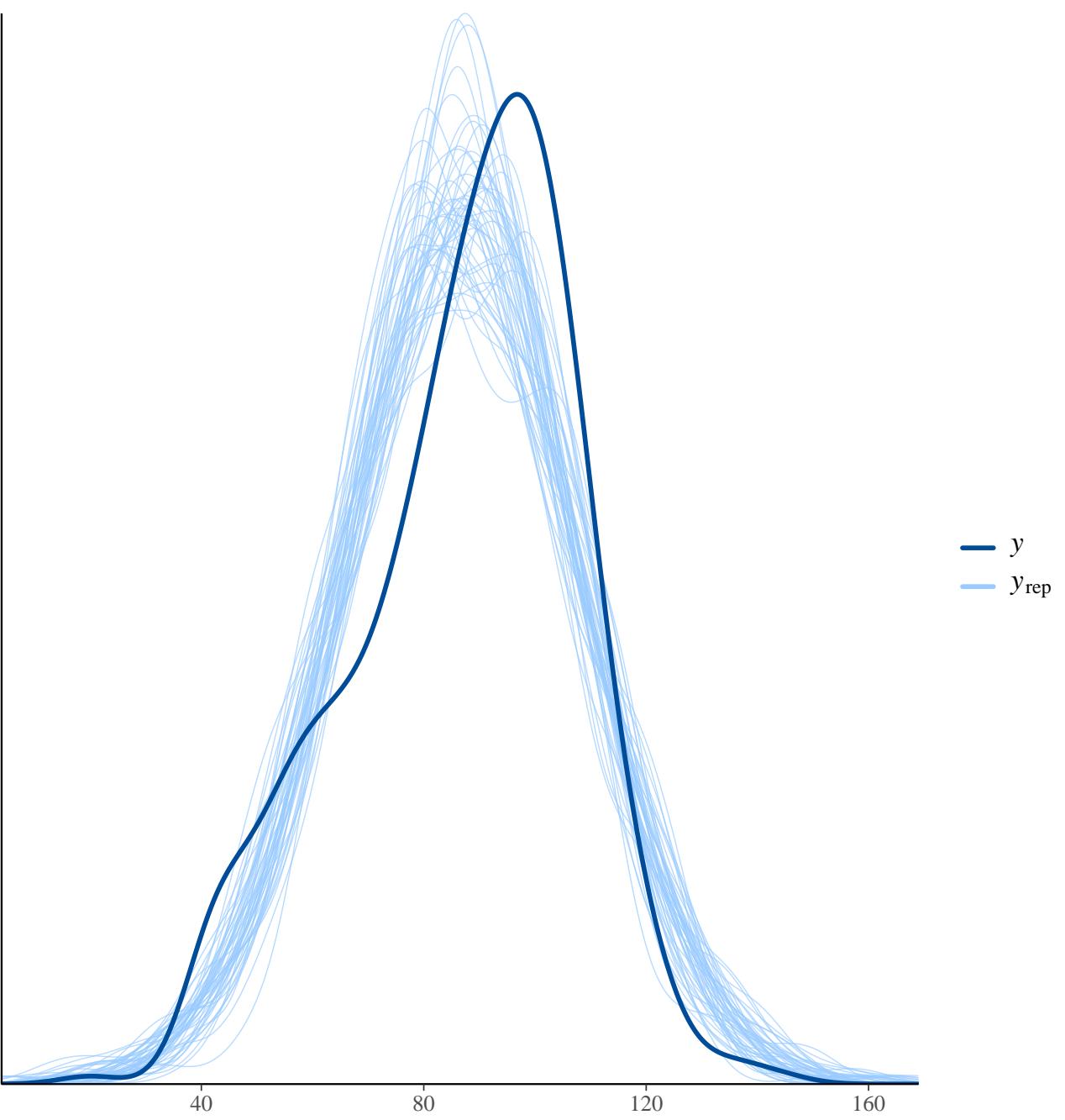
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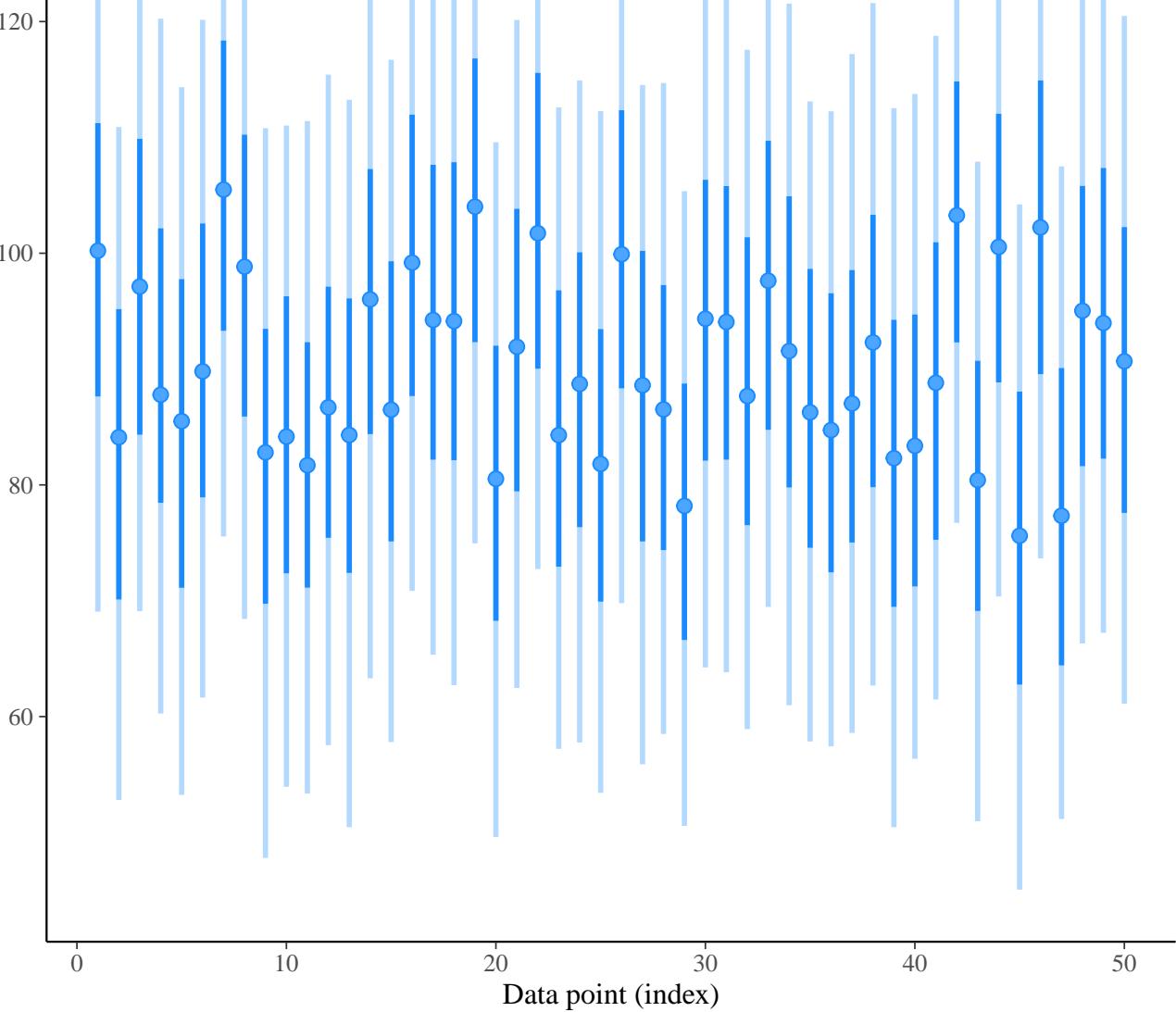
help("PPD-distributions")



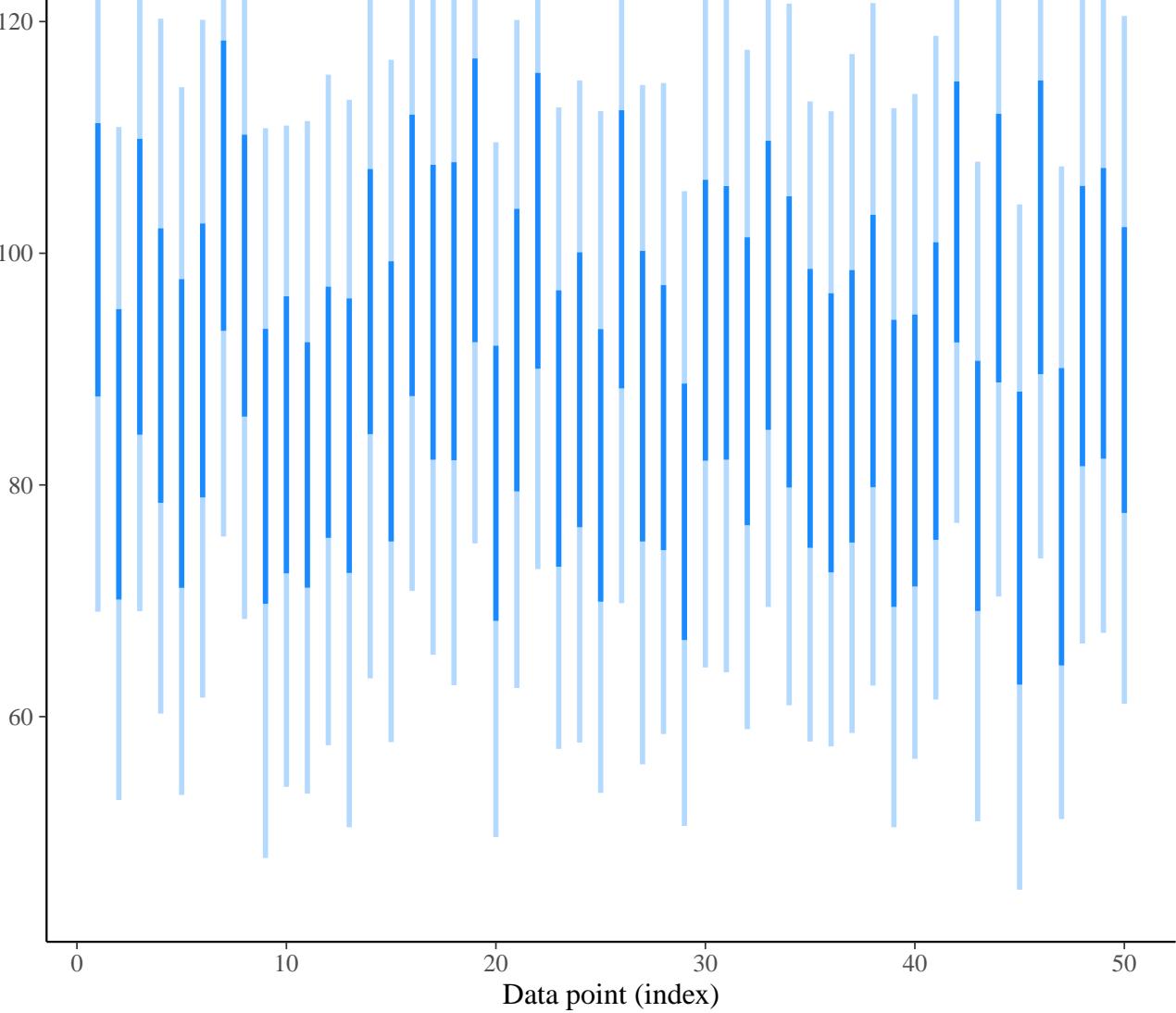
help("PPD-distributions")



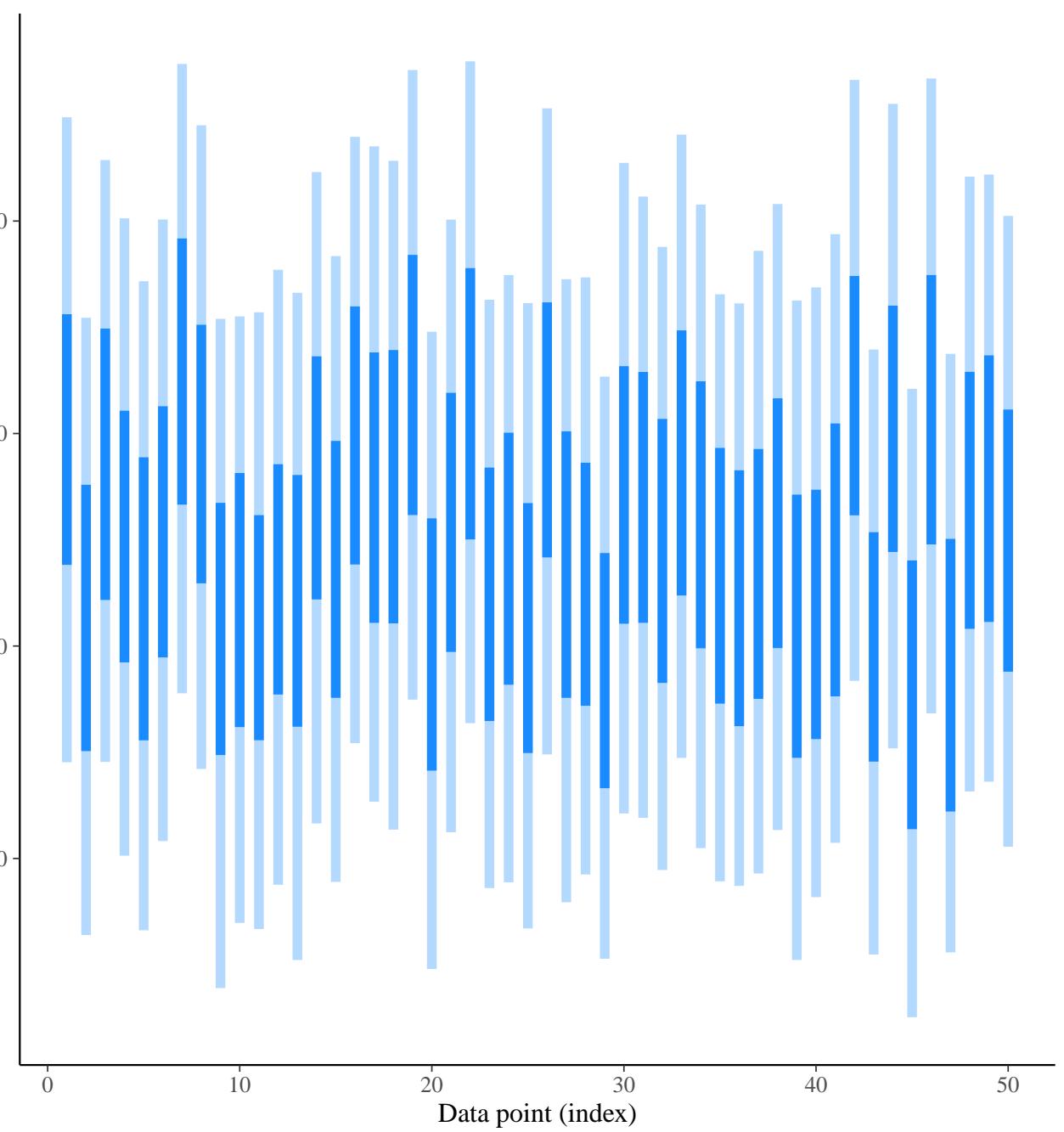
help("PPD-intervals")



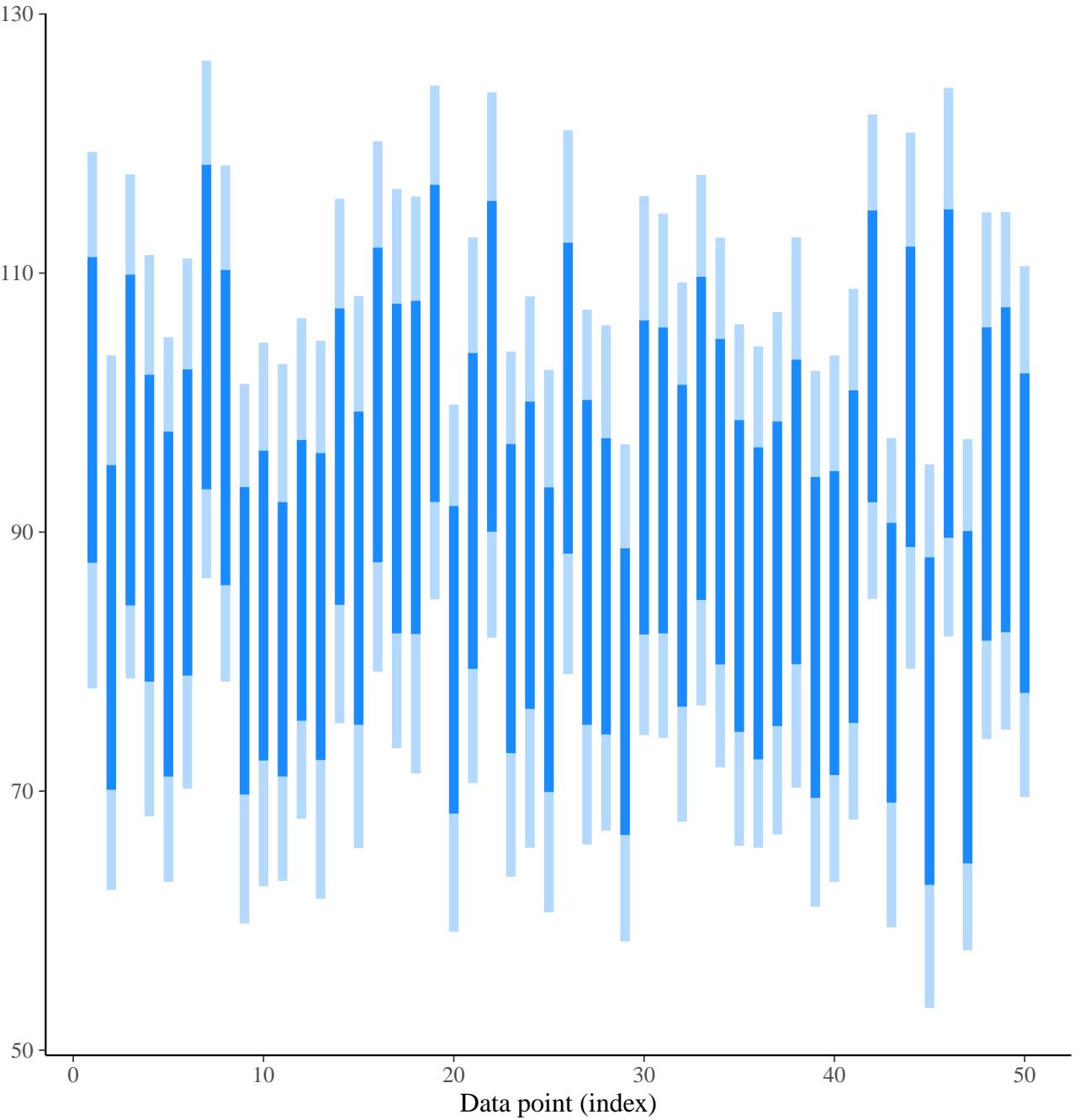
help("PPD-intervals")

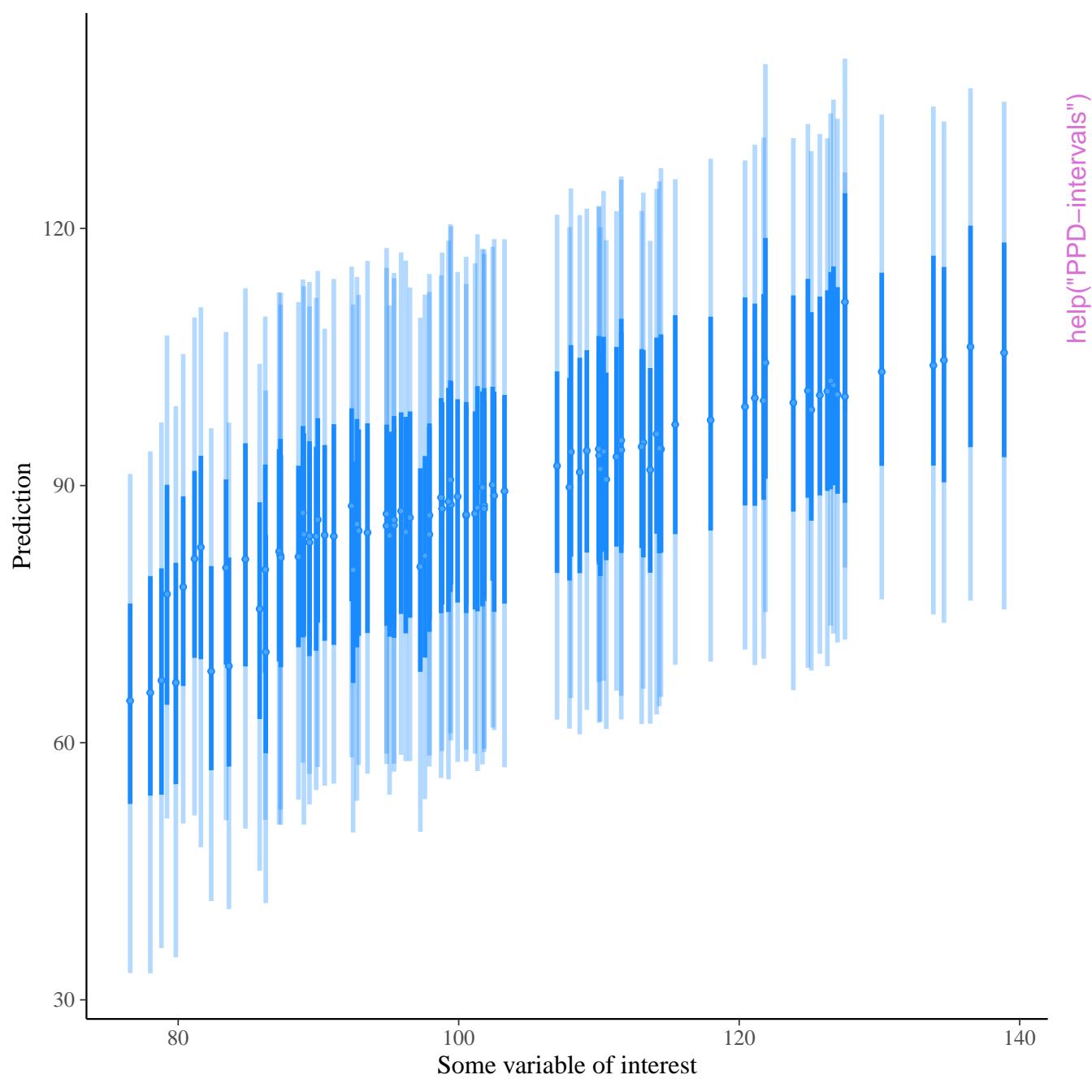


help("PPD-intervals")



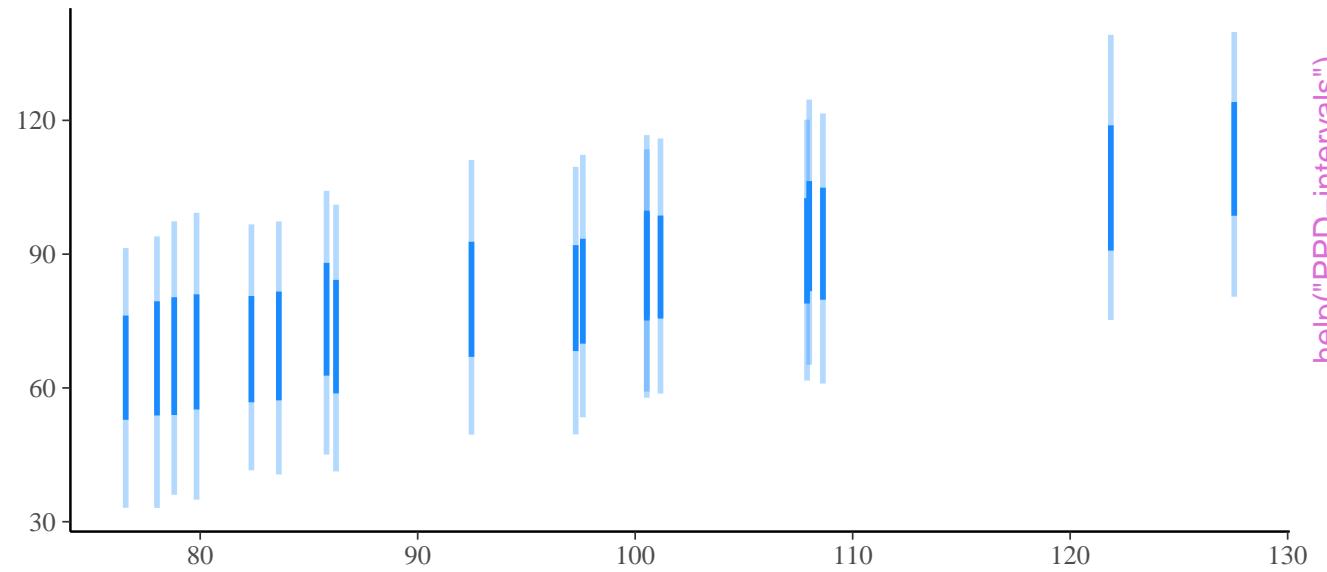
help("PPD-intervals")



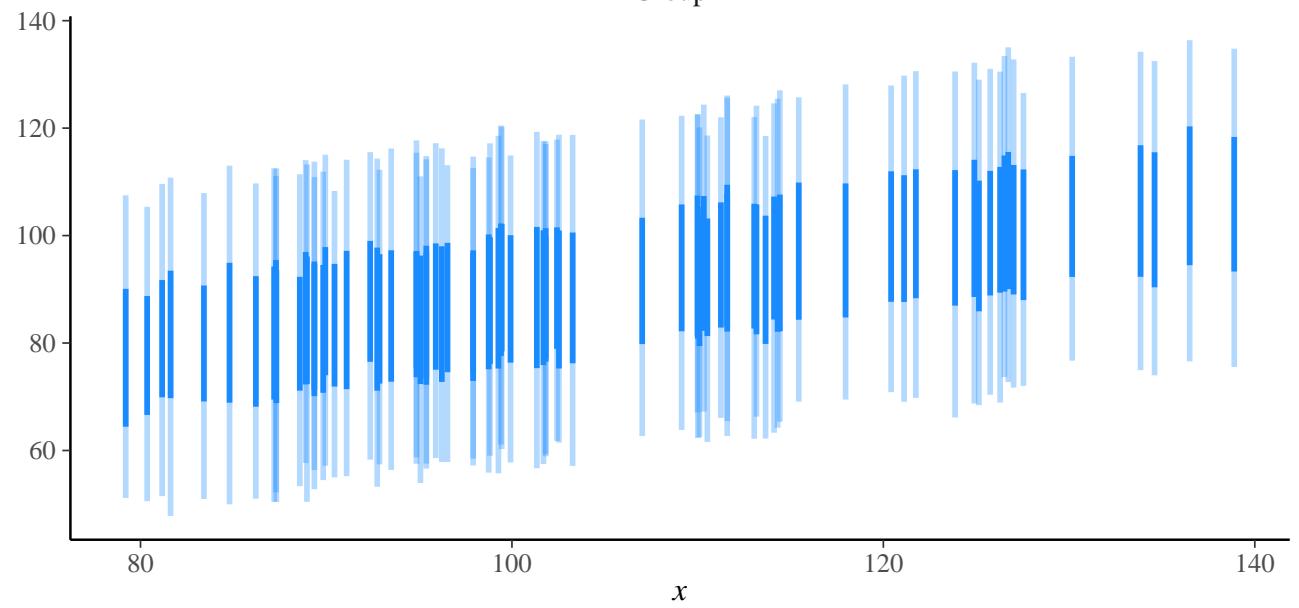


help("PPD-intervals")

GroupA

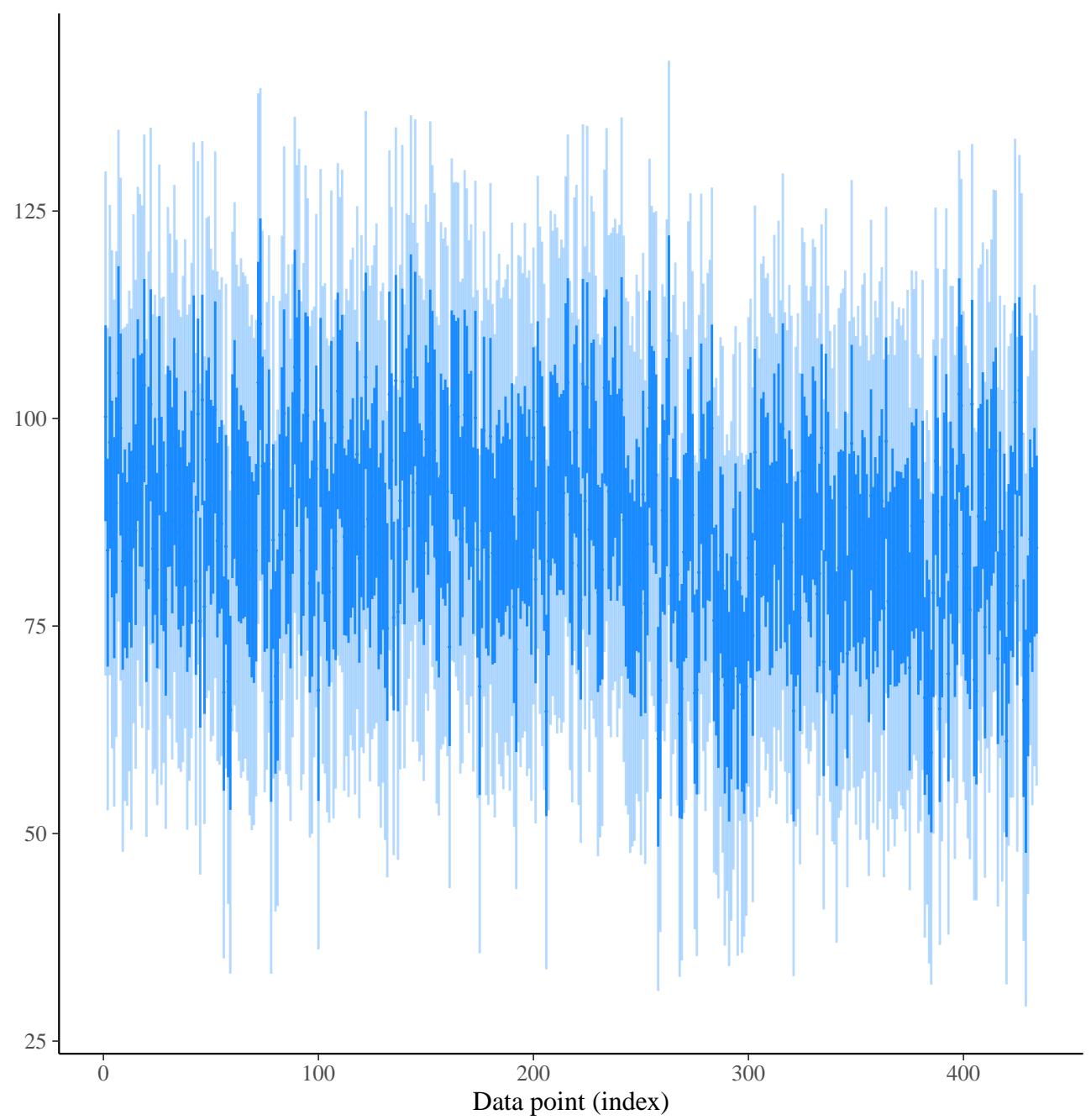


GroupB

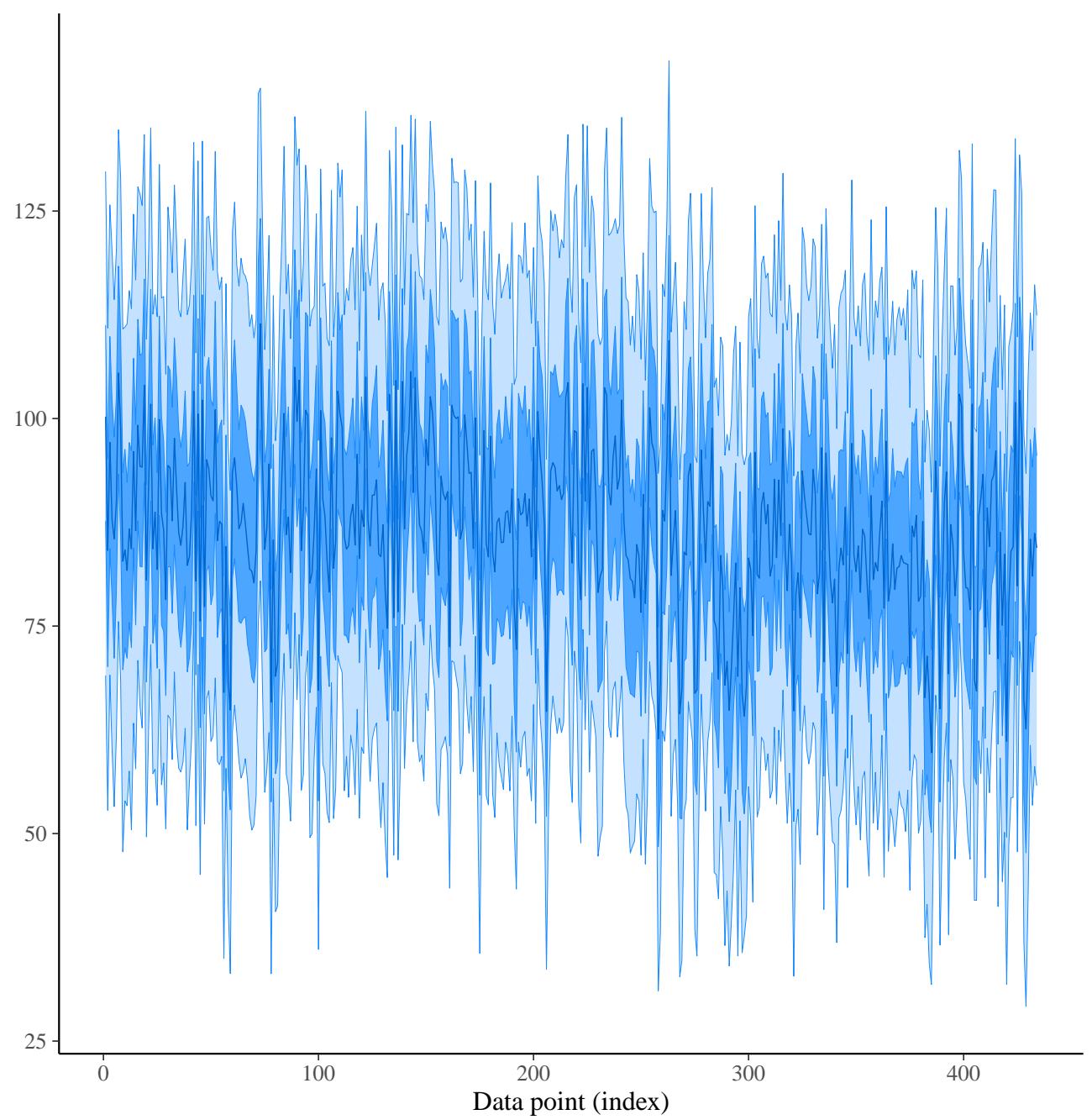


help("PPD-intervals")

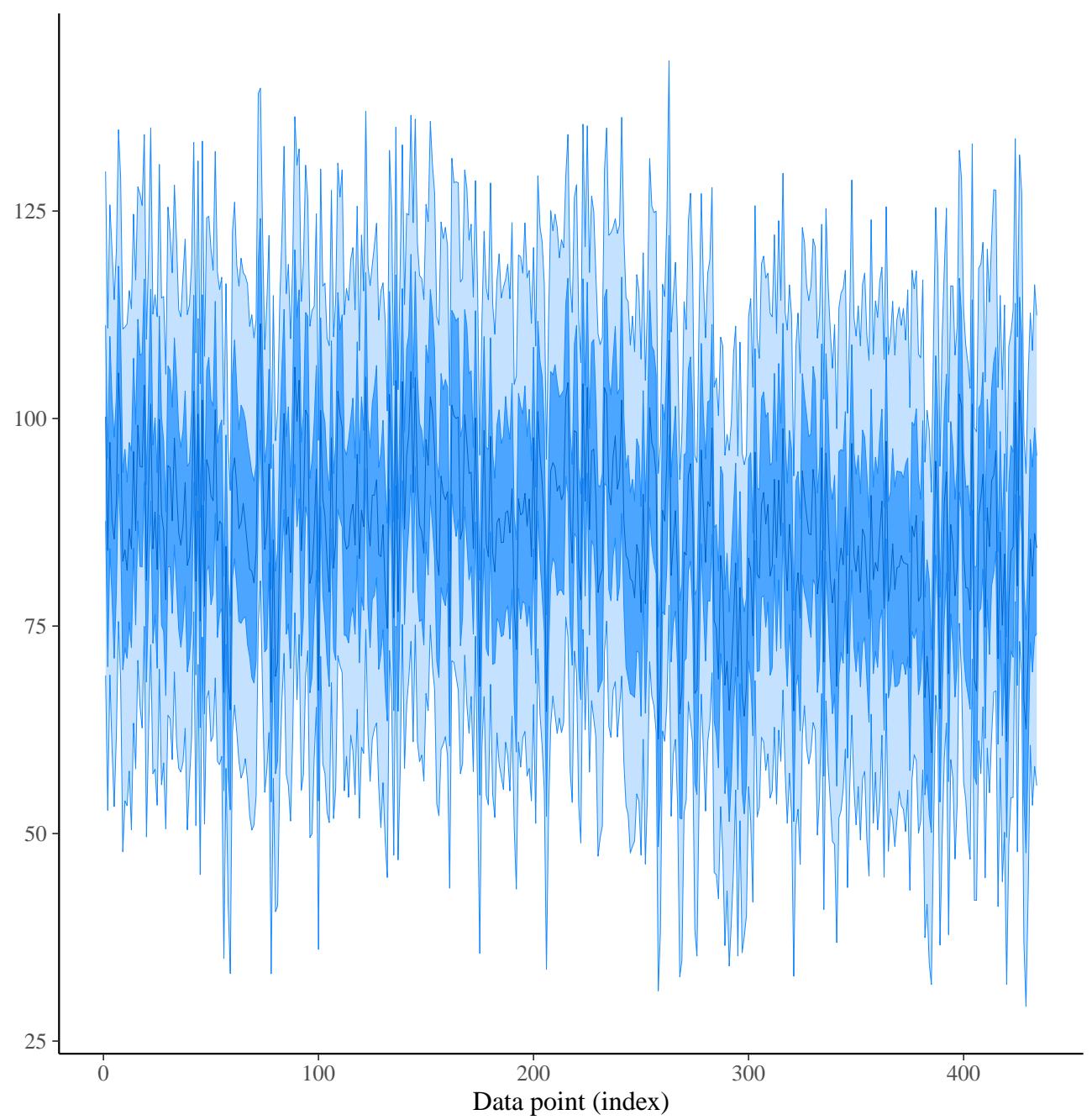
help("PPD-intervals")



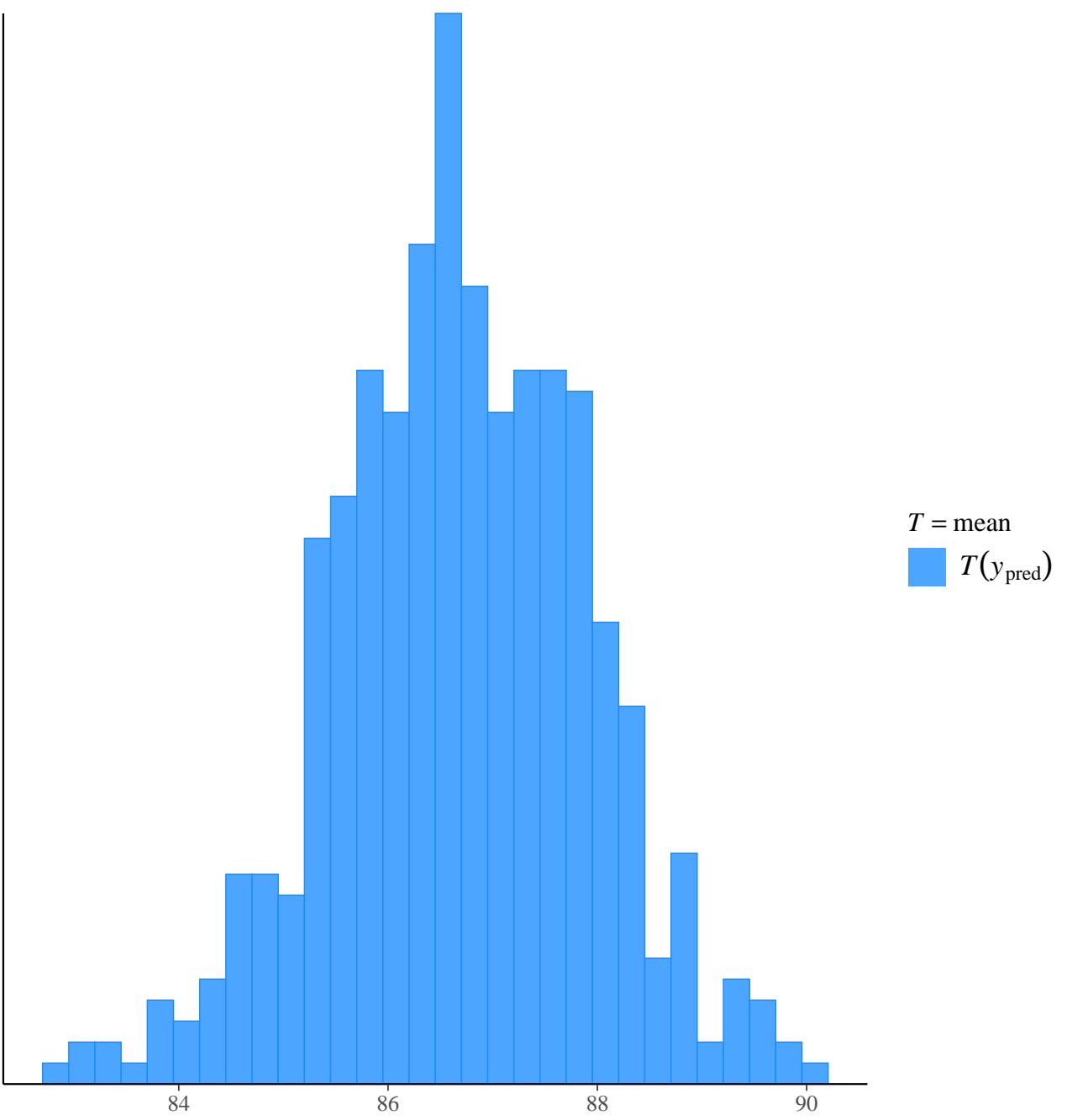
help("PPD-intervals")



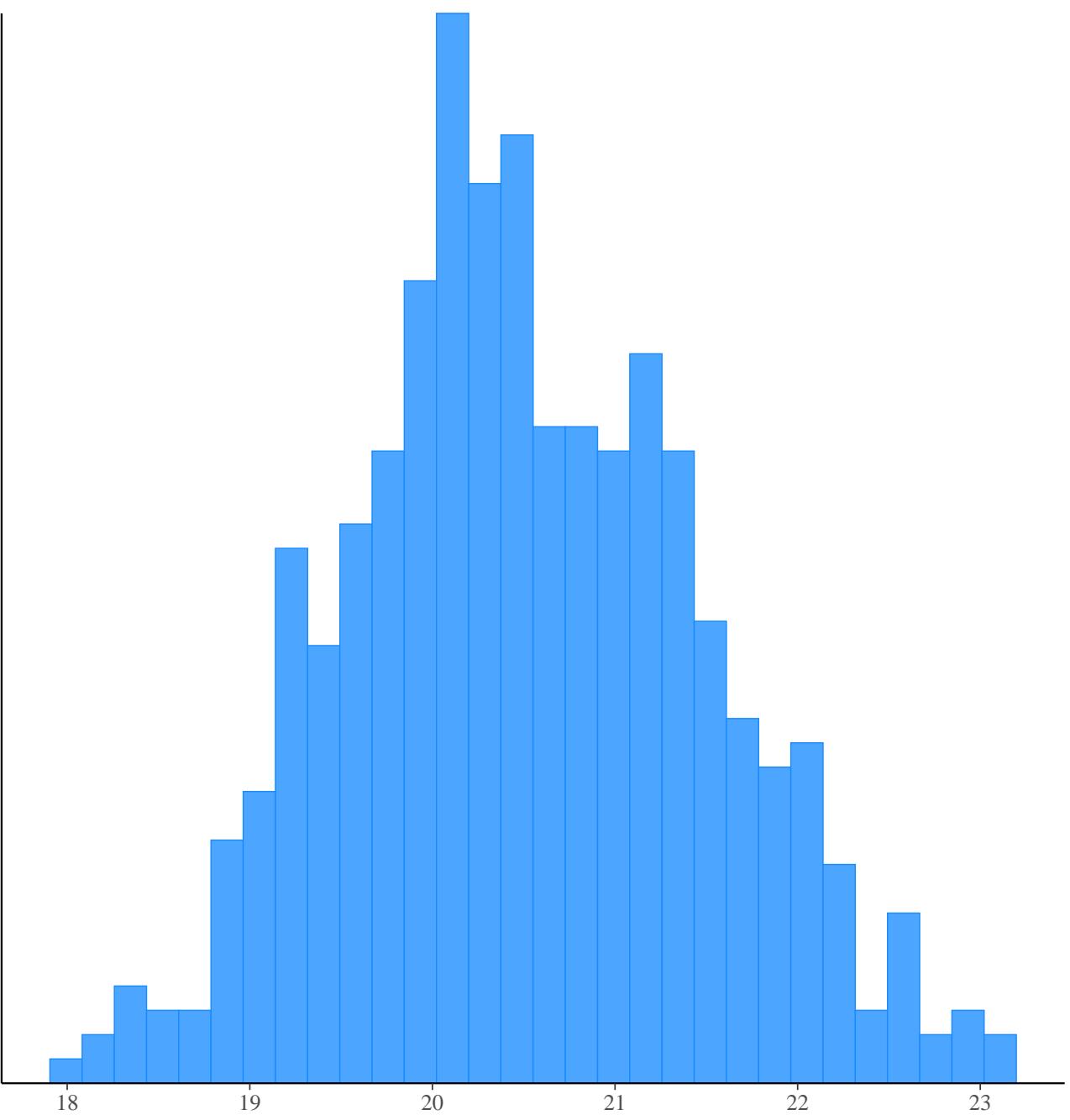
help("PPD-intervals")



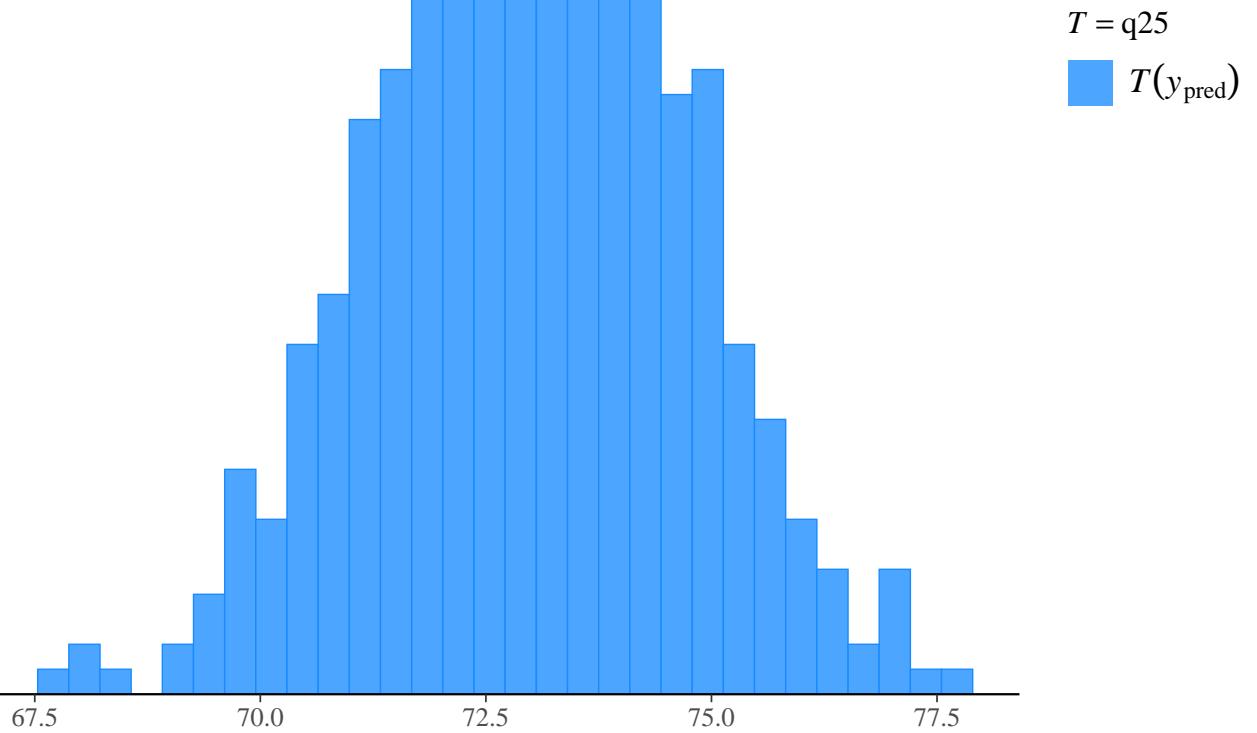
help("PPD-test-statistics")



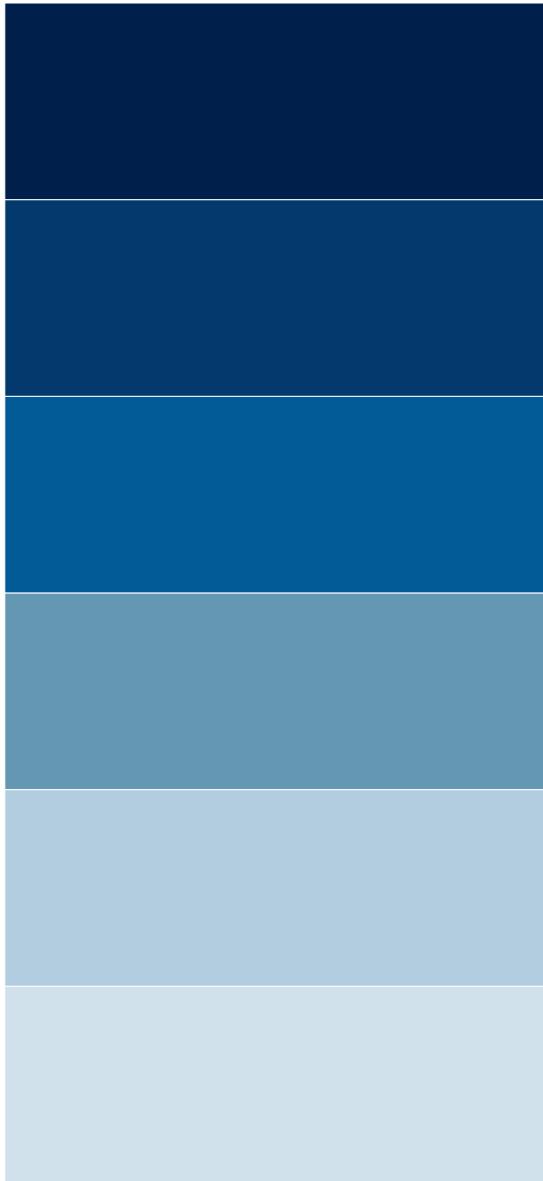
```
help("PPD-test-statistics")
```



help("PPD-test-statistics")

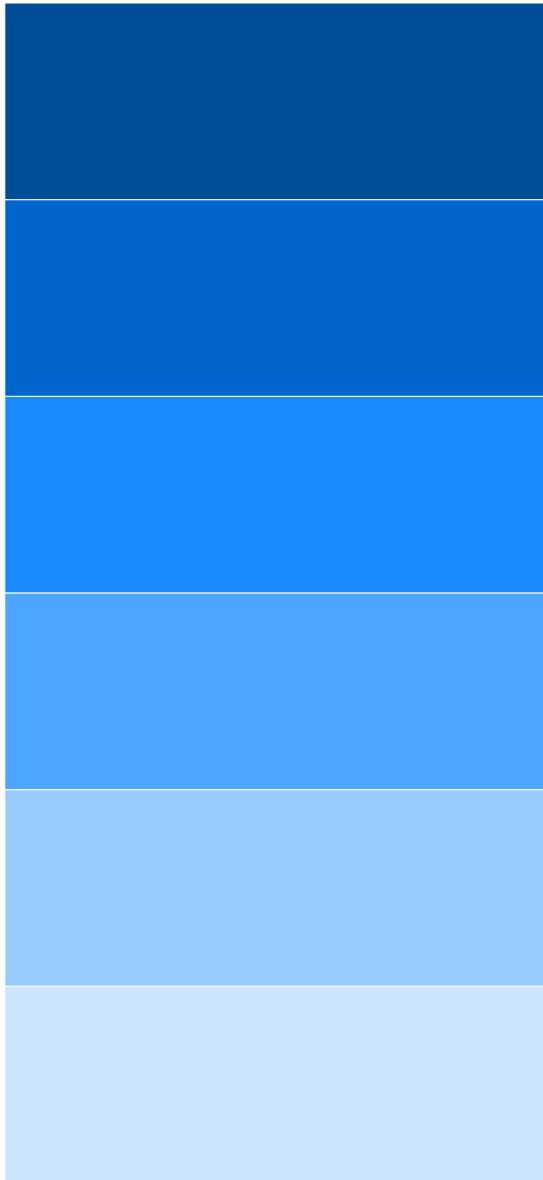


```
help("bayesplot-colors")
```



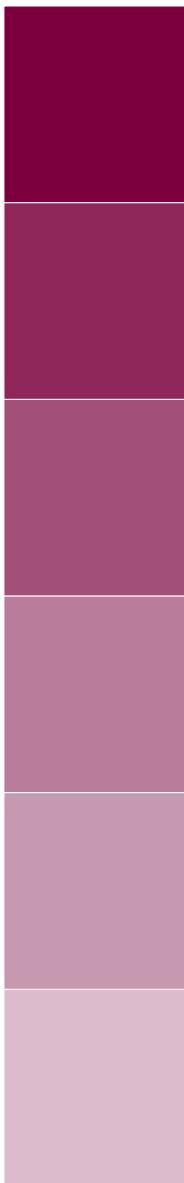
blue

```
help("bayesplot-colors")
```

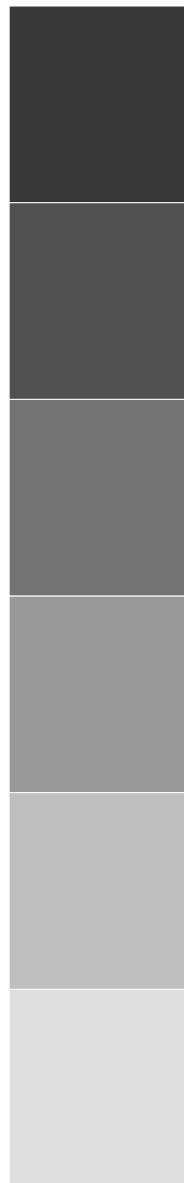


brightblue

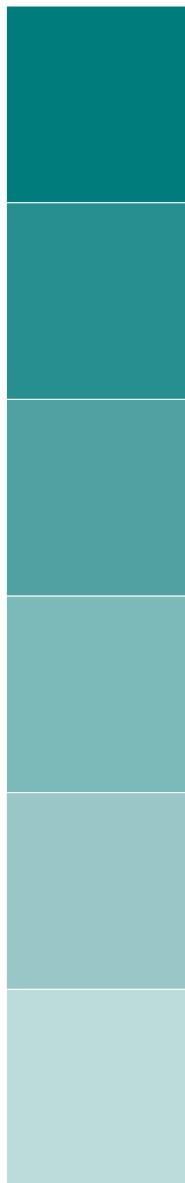
```
help("bayesplot-colors")
```



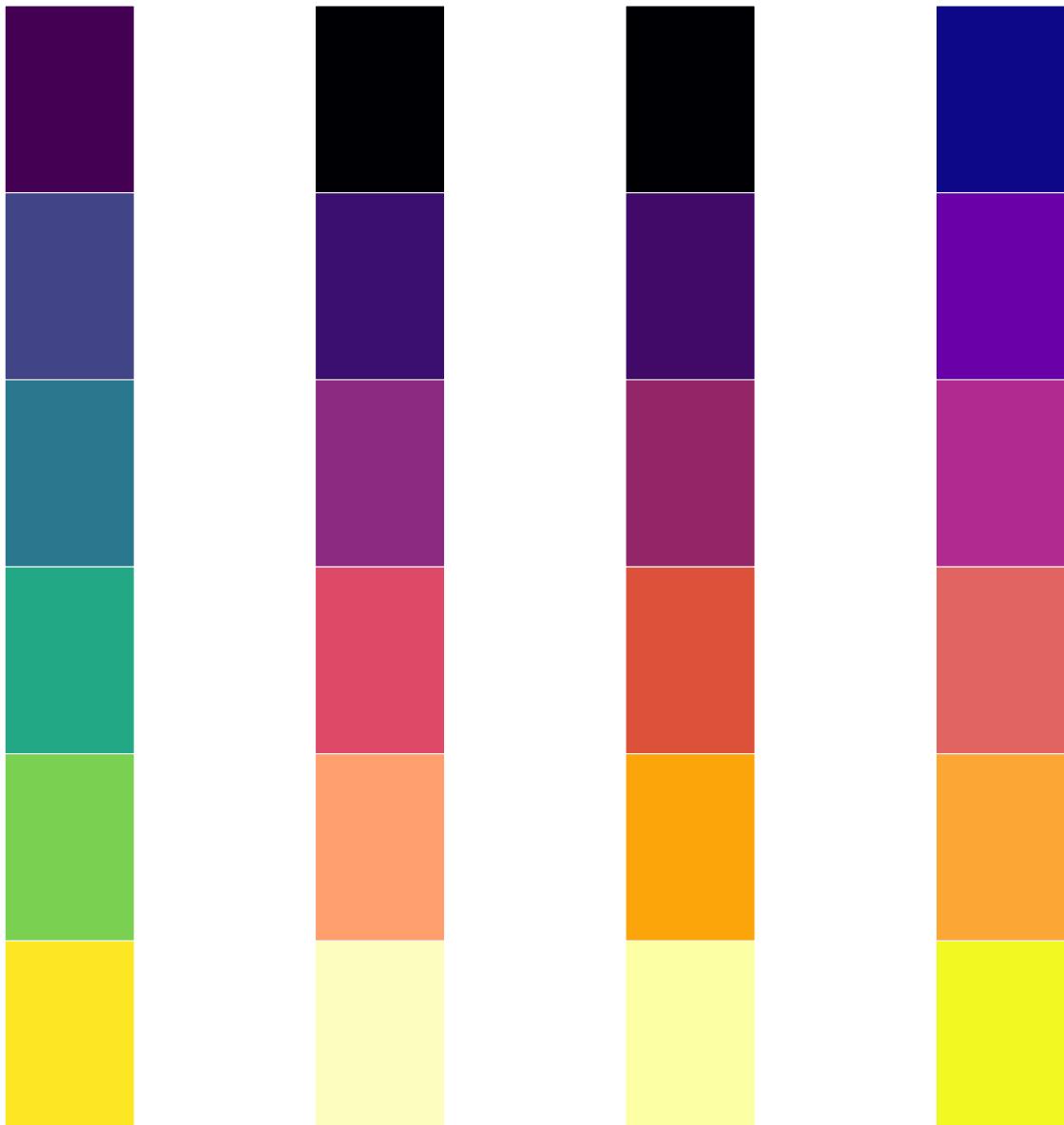
pink



gray



teal



viridis

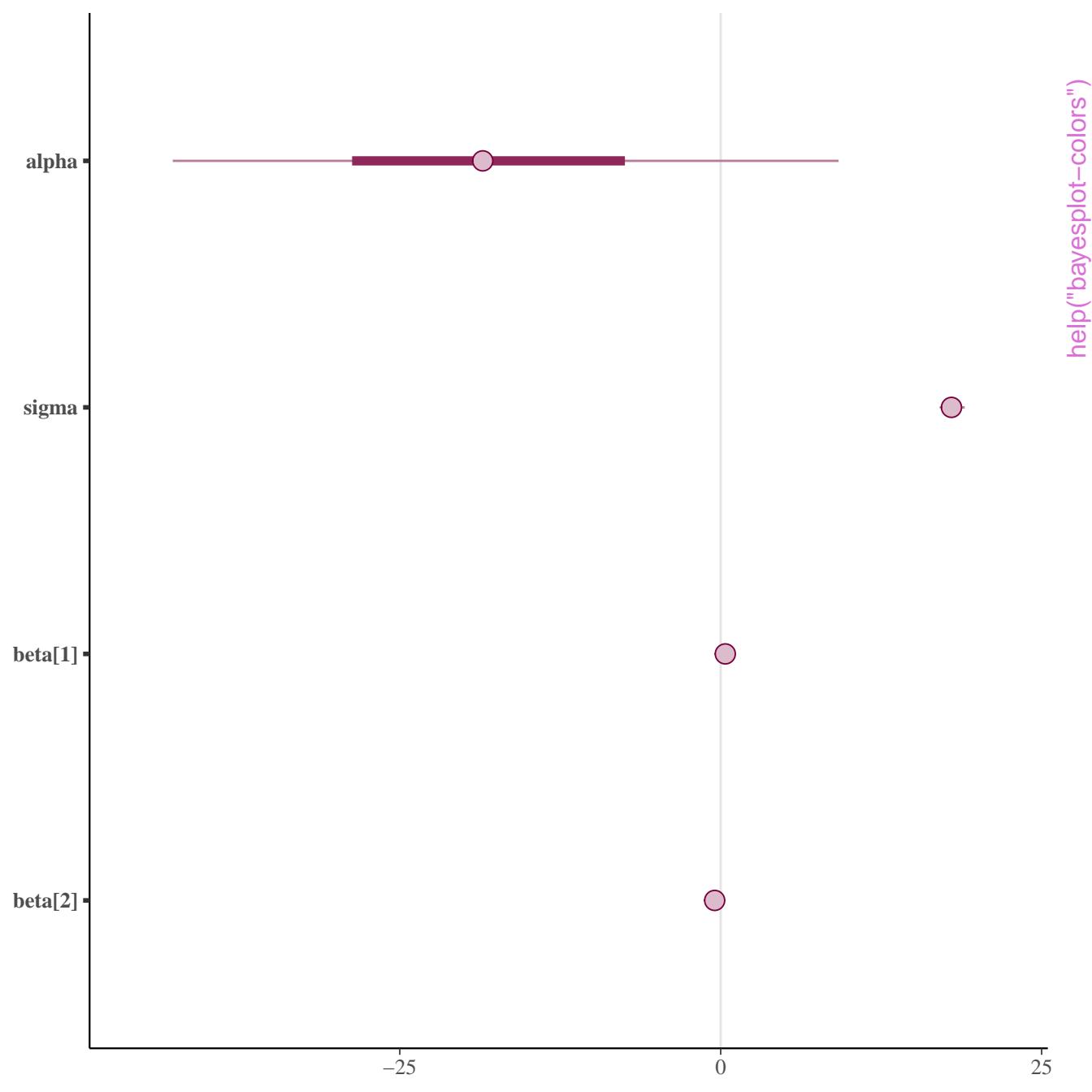
viridisA

viridisB

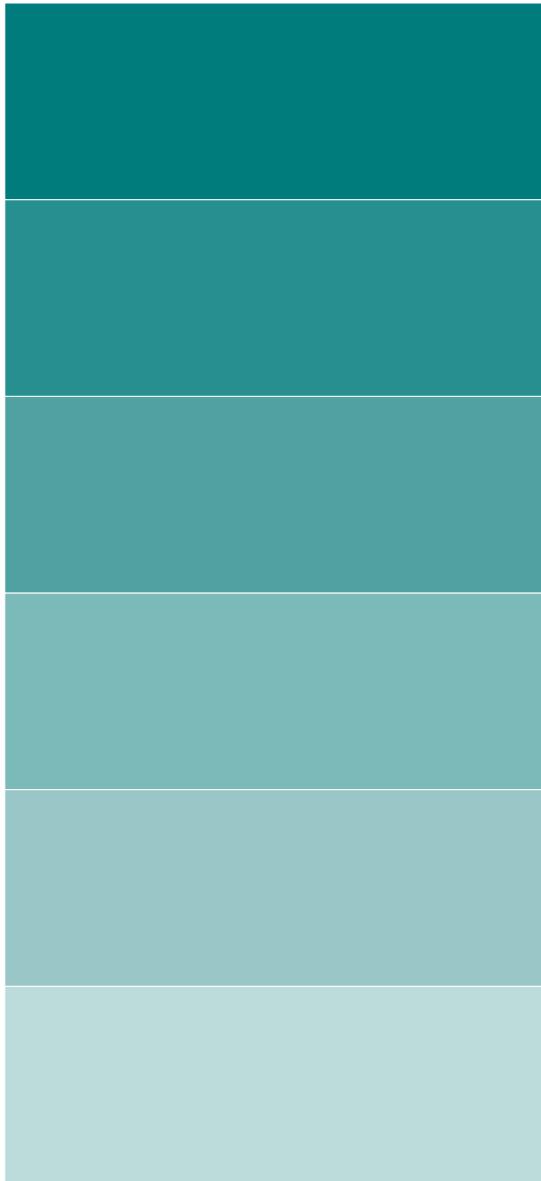
viridisC

help("bayesplot-colors")

```
help("bayesplot-colors")
```

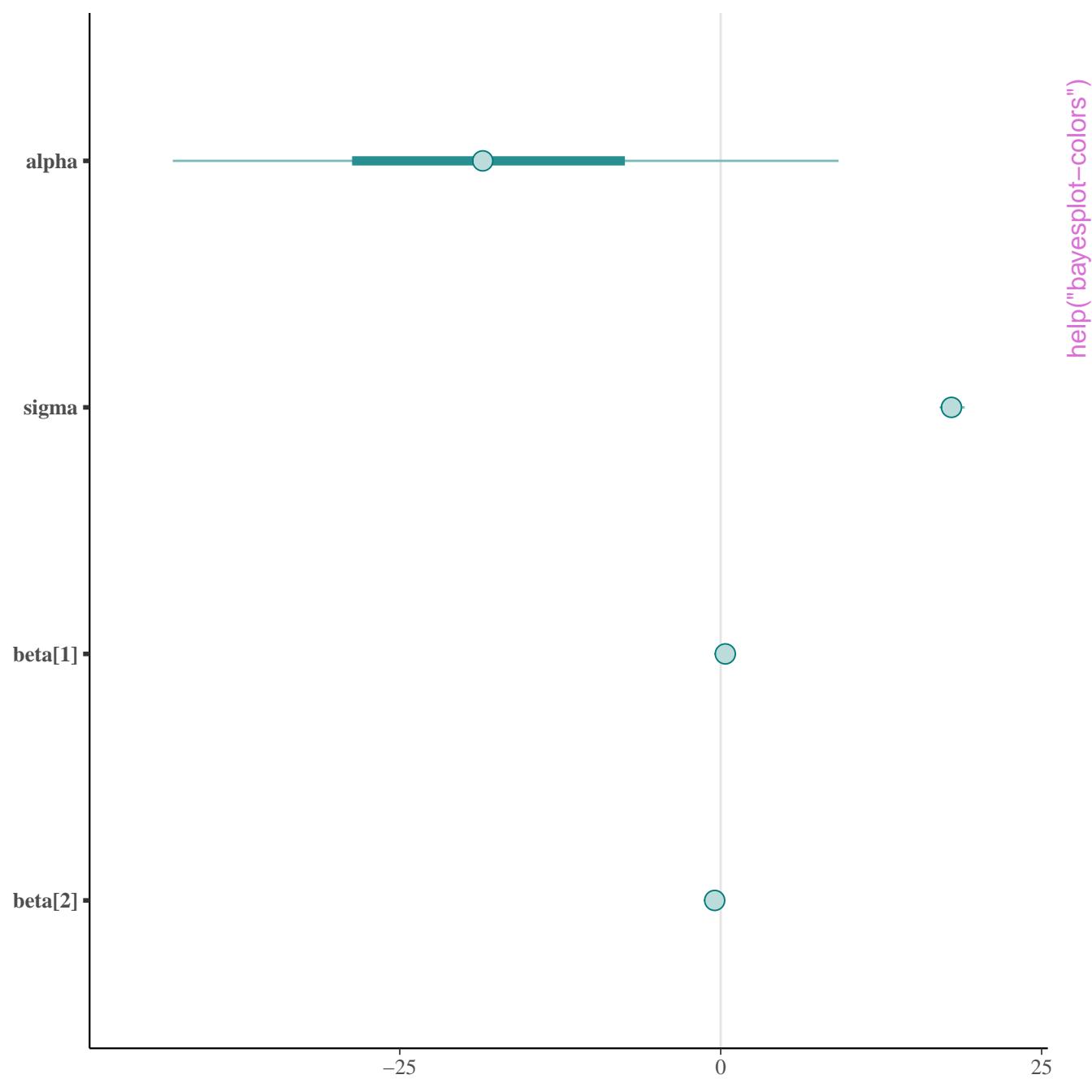


```
help("bayesplot-colors")
```

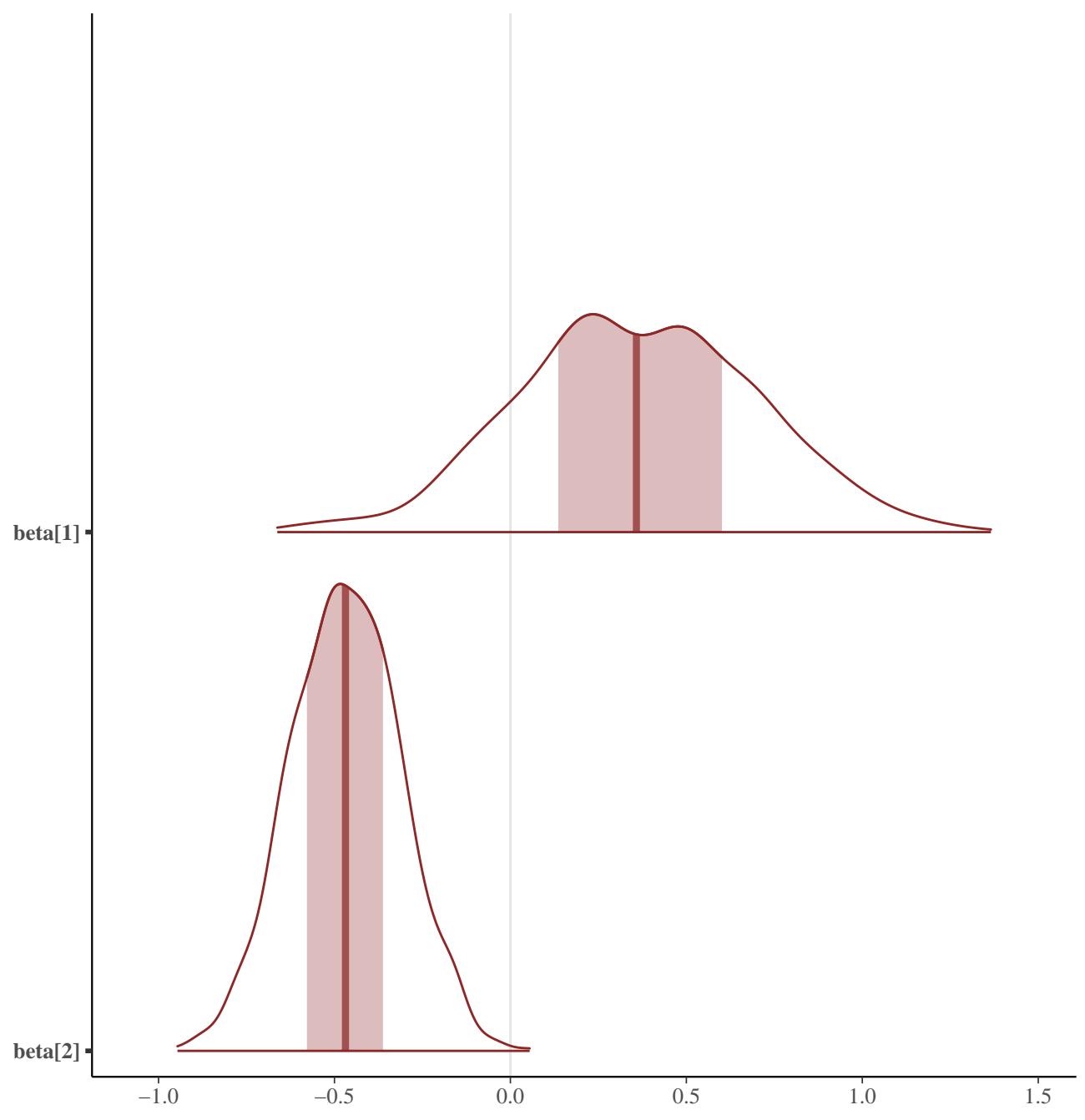


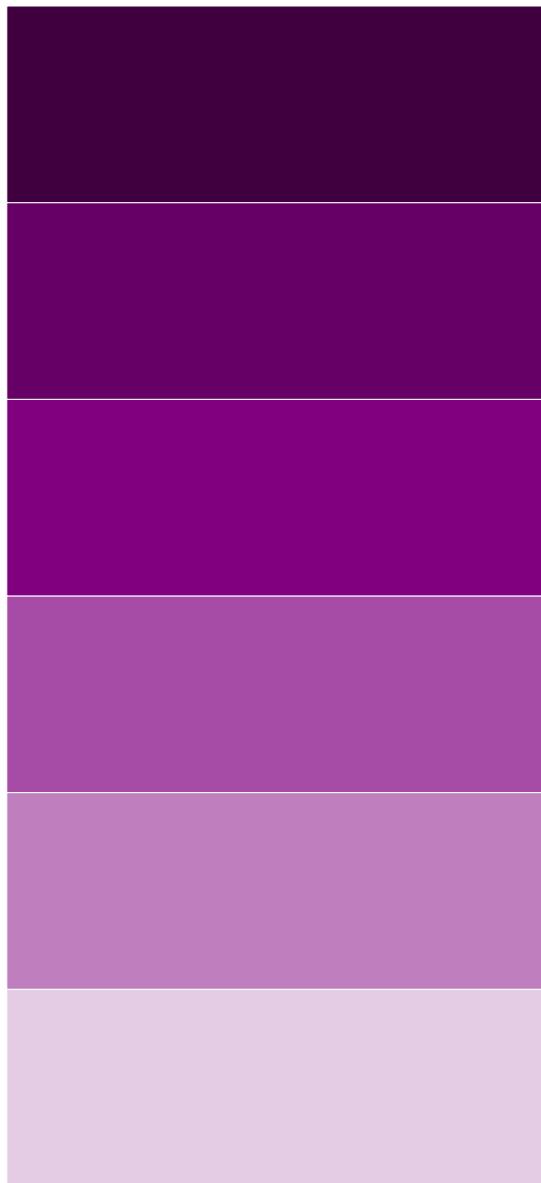
teal

help("bayesplot-colors")



help("bayesplot-colors")

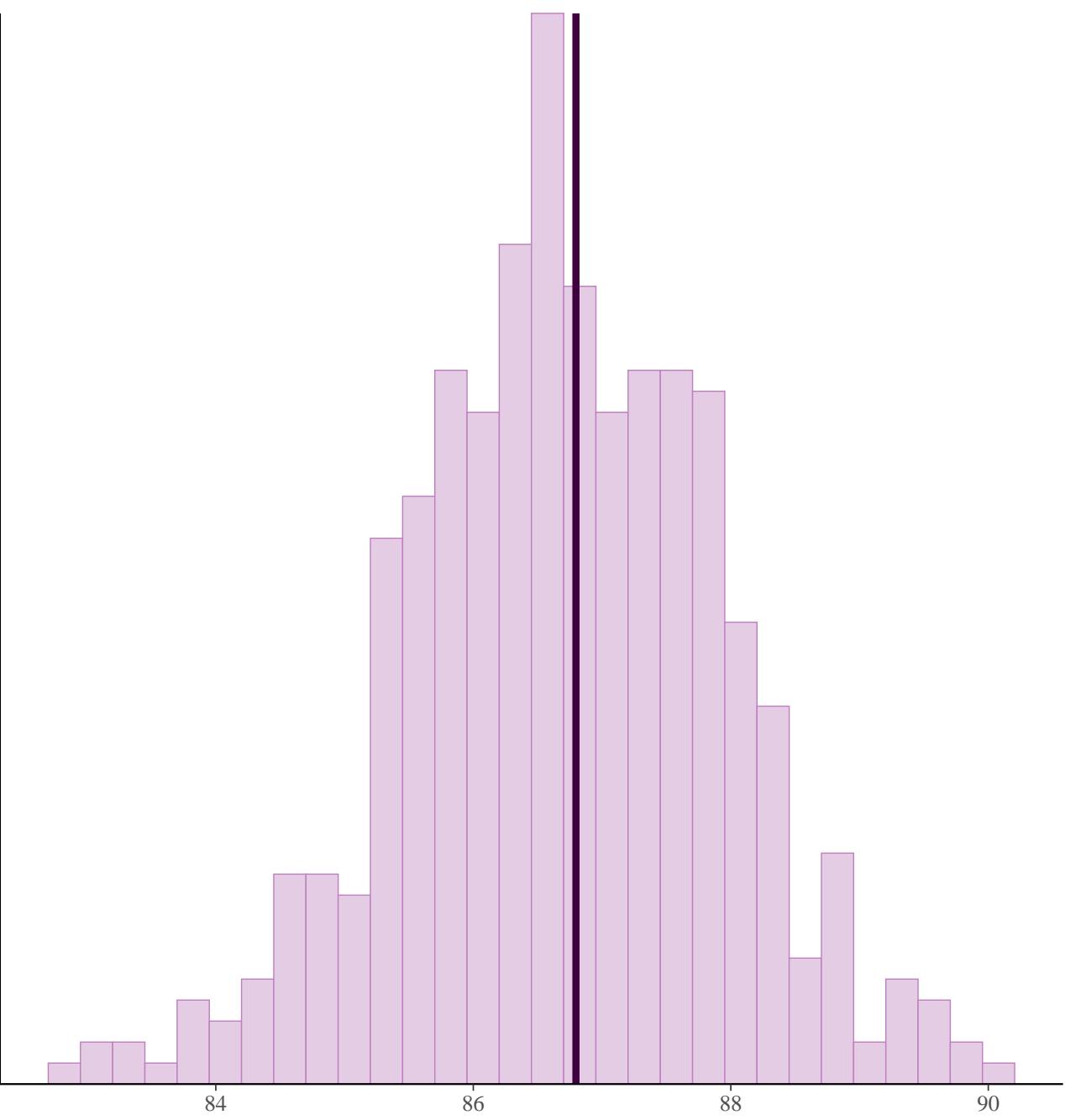




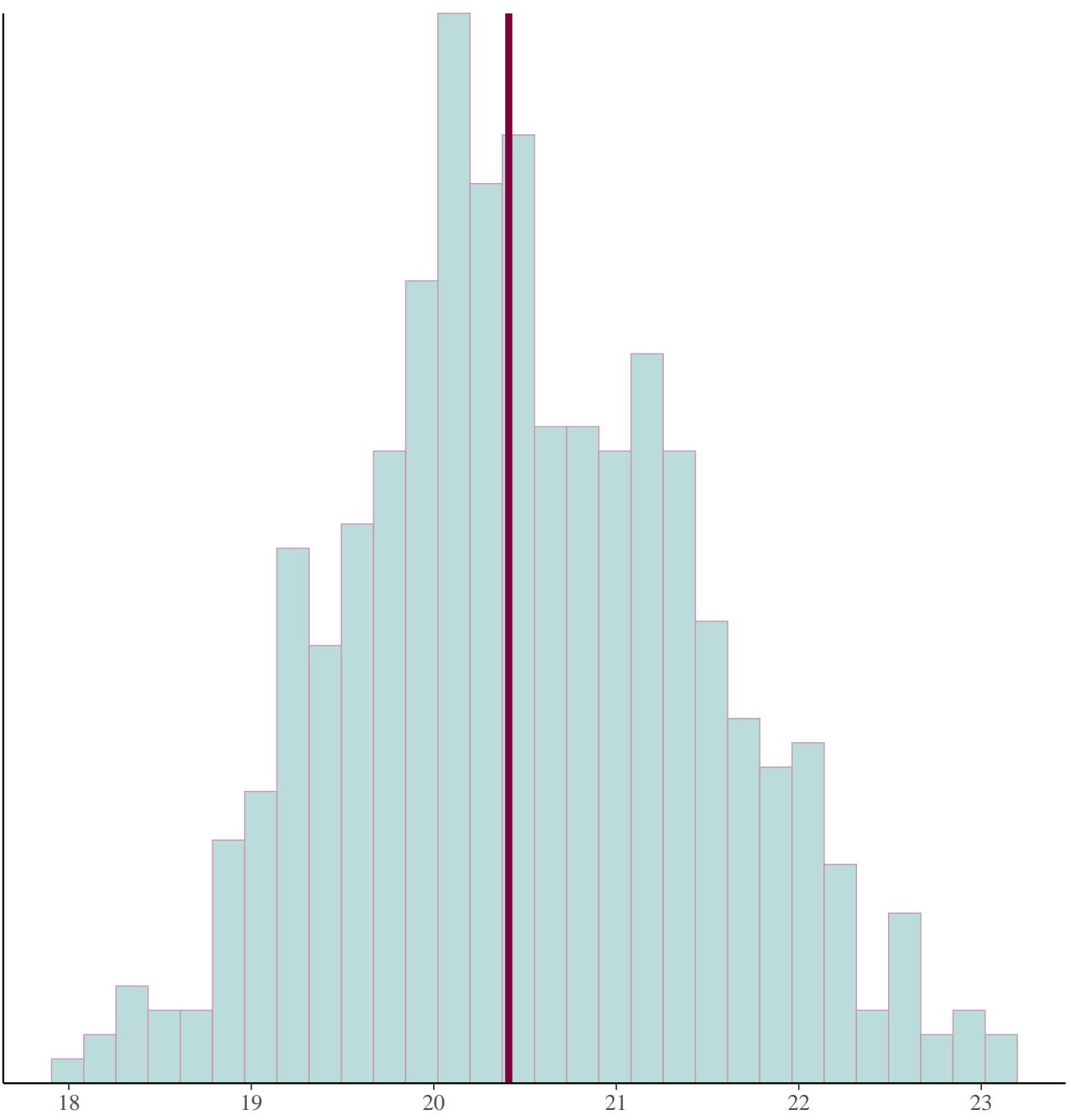
purple

help("bayesplot-colors")

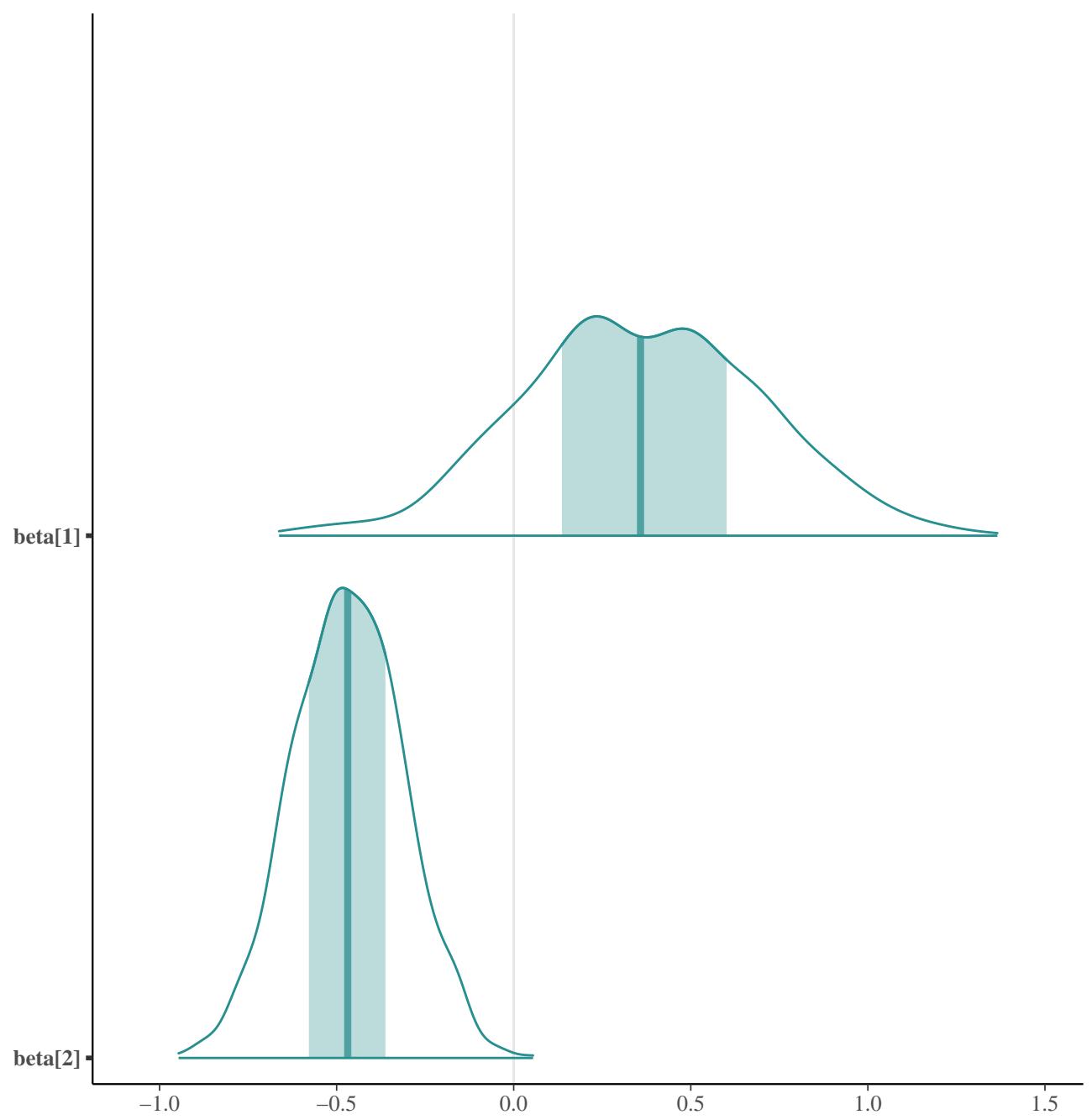
```
help("bayesplot-colors")
```



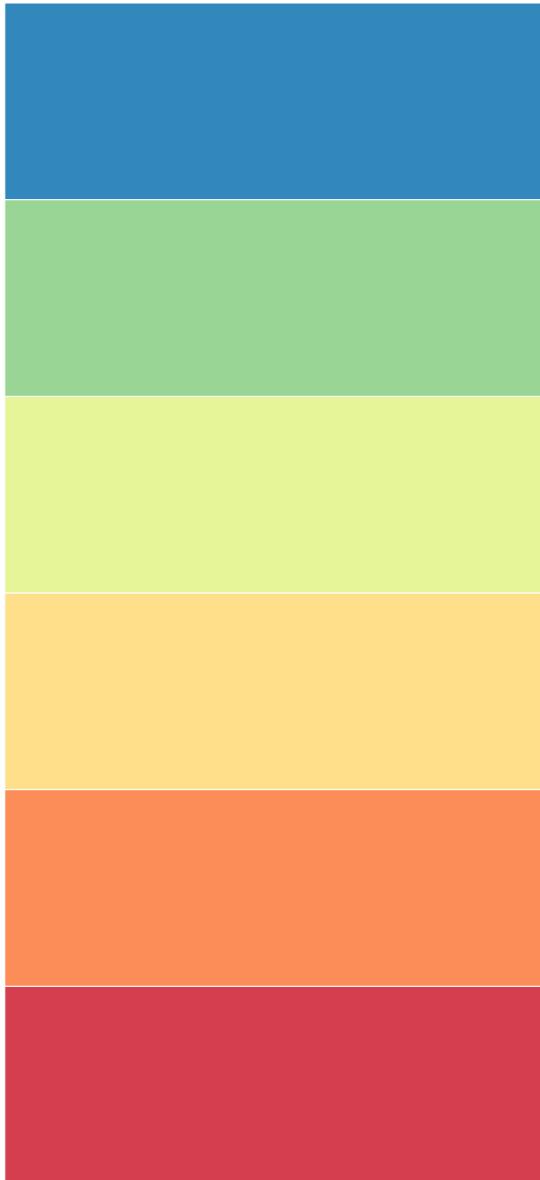
help("bayesplot-colors")



help("bayesplot")

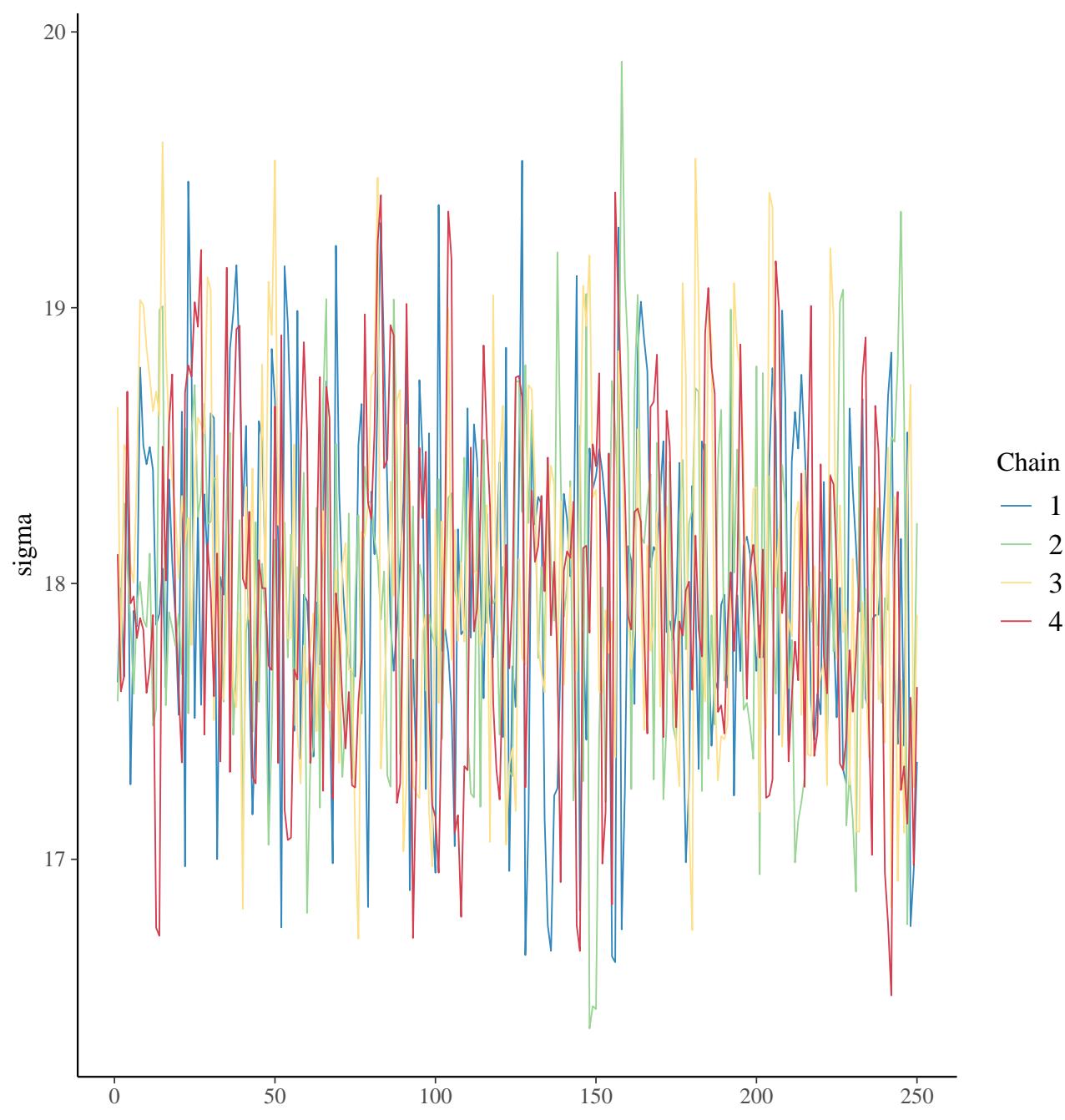


```
help("bayesplot-colors")
```

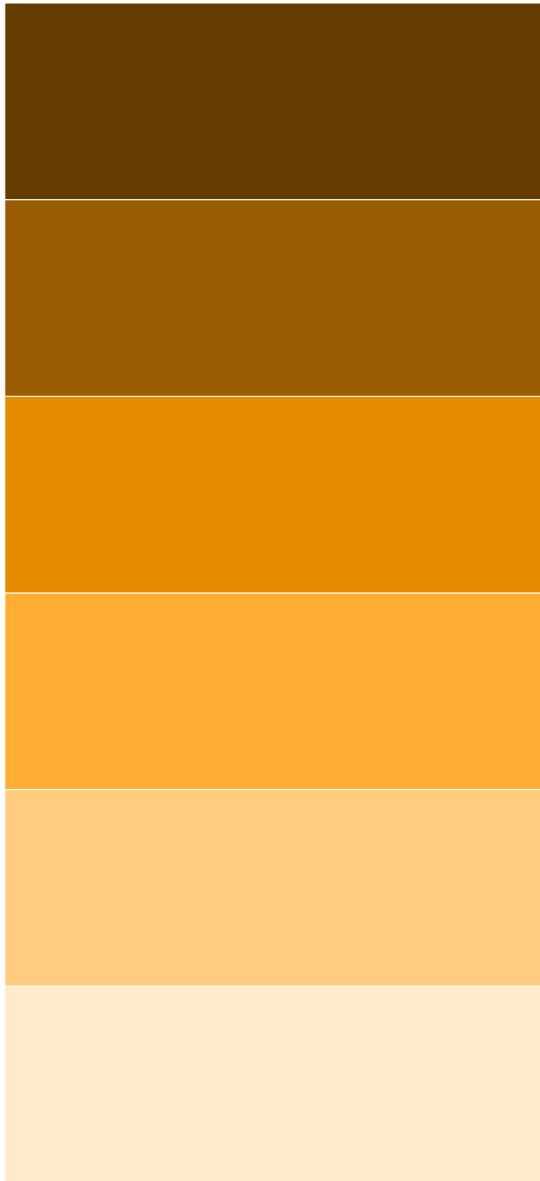


brewer-Spectral

help("bayesplot-colors")

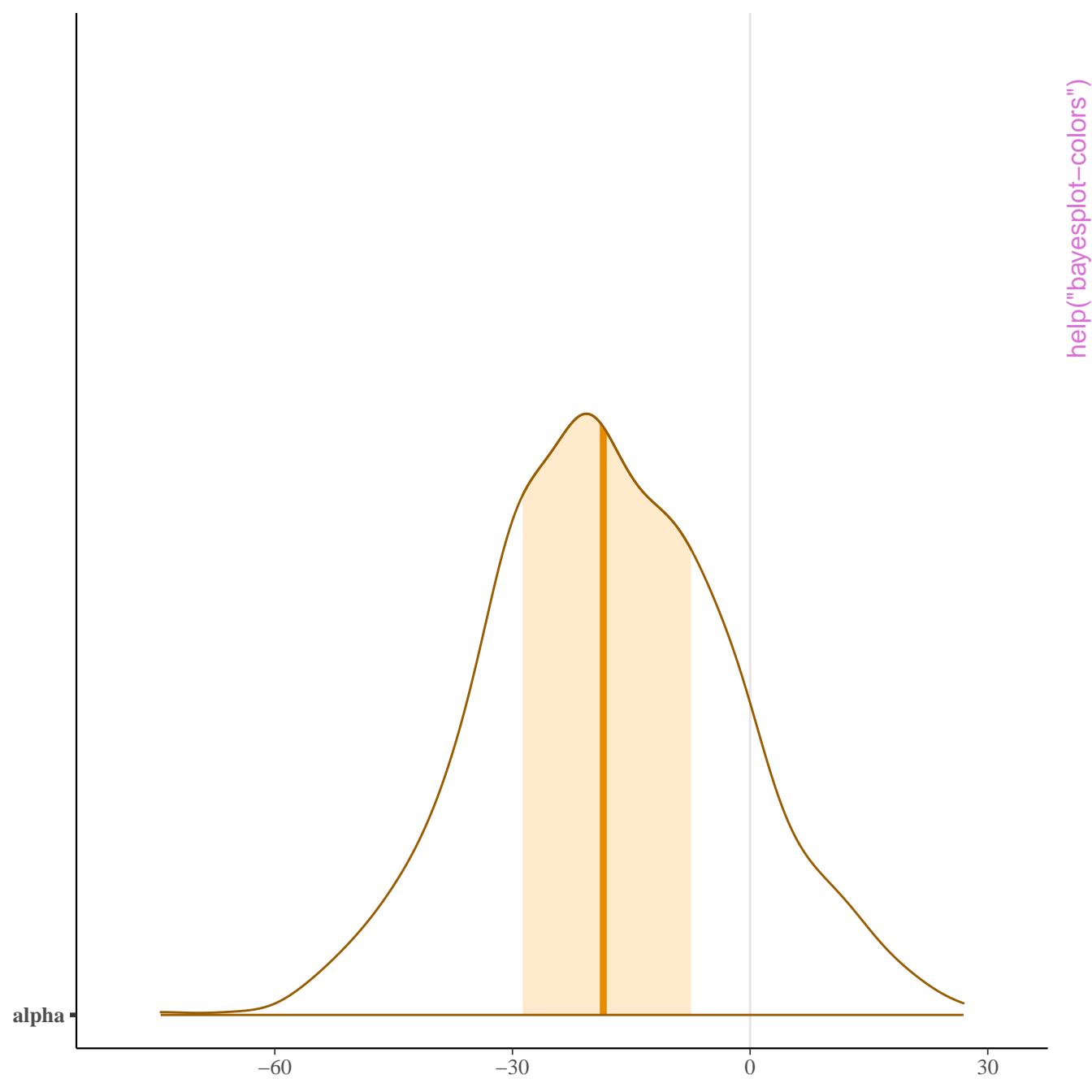


```
help("bayesplot-colors")
```



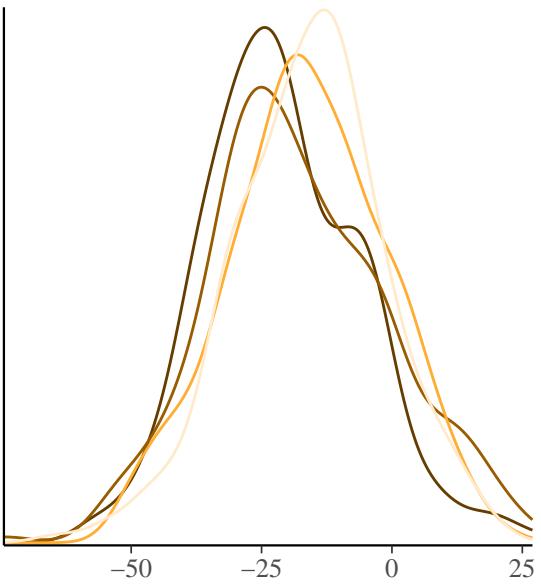
custom

help("bayesplot-colors")

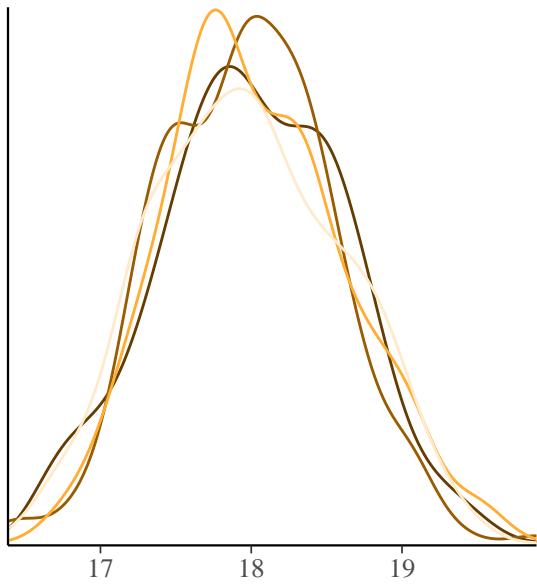


help("bayesplot-colors")

alpha



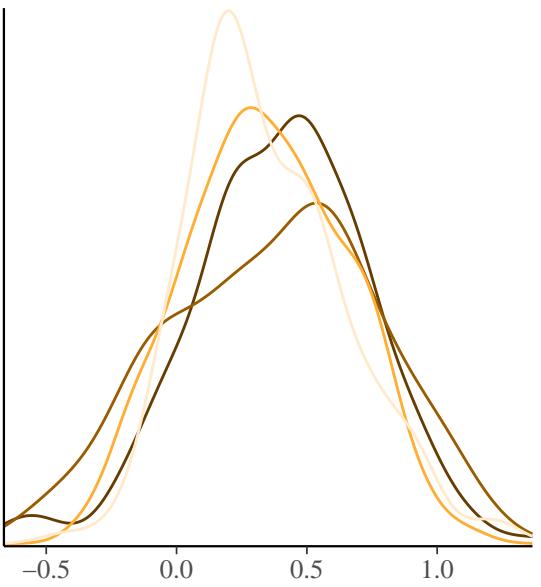
sigma



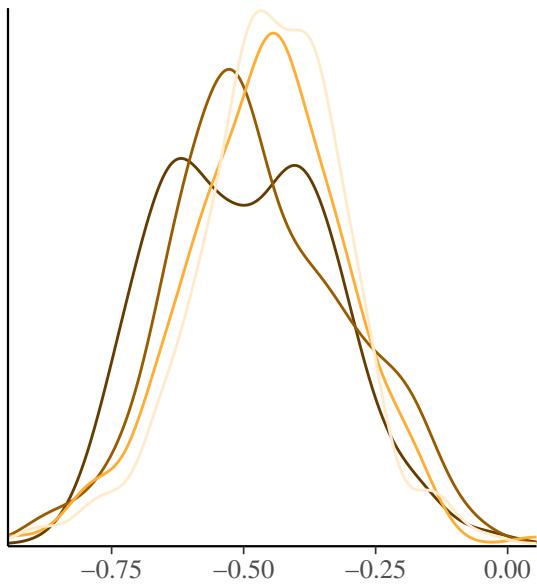
Chain

- 1
- 2
- 3
- 4

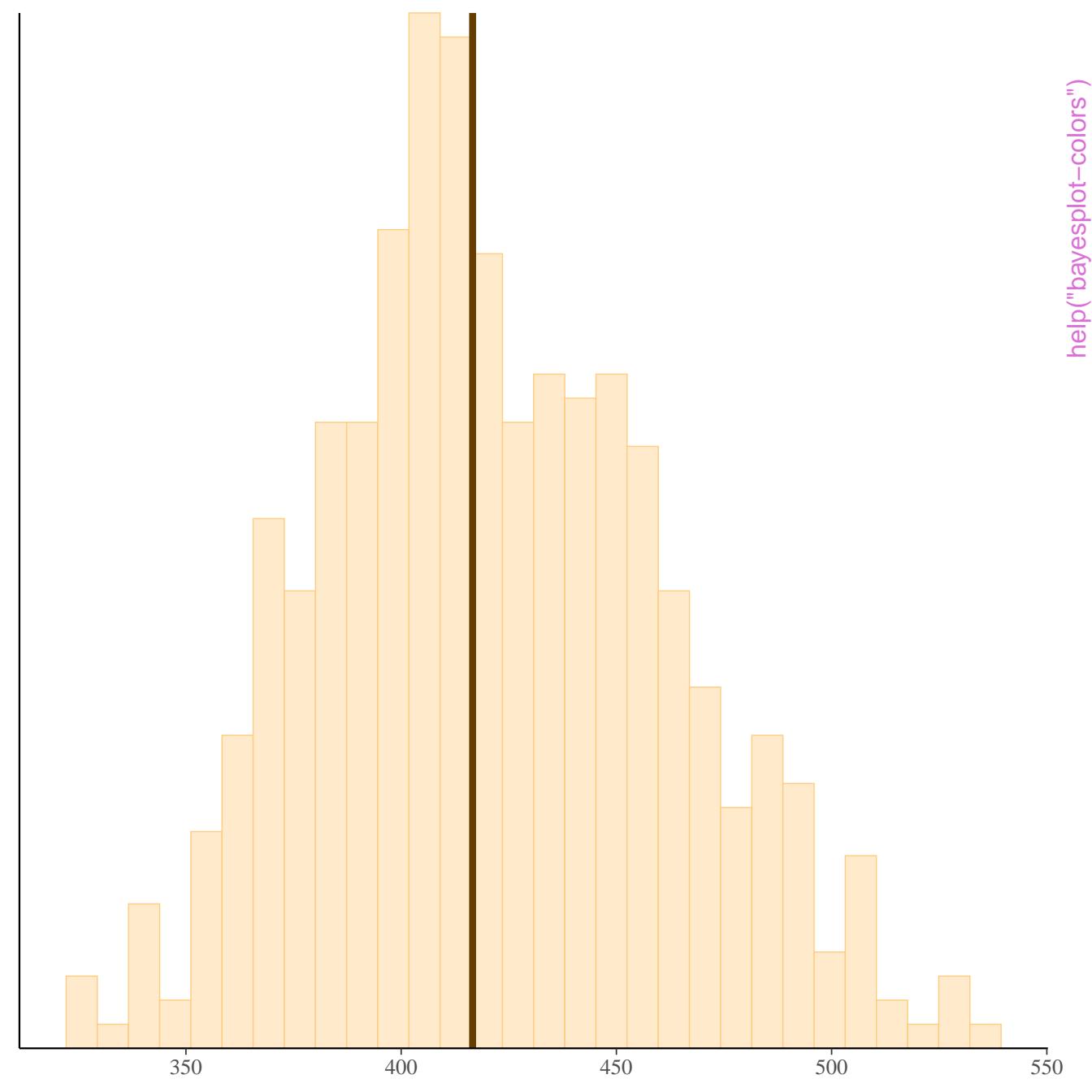
beta[1]



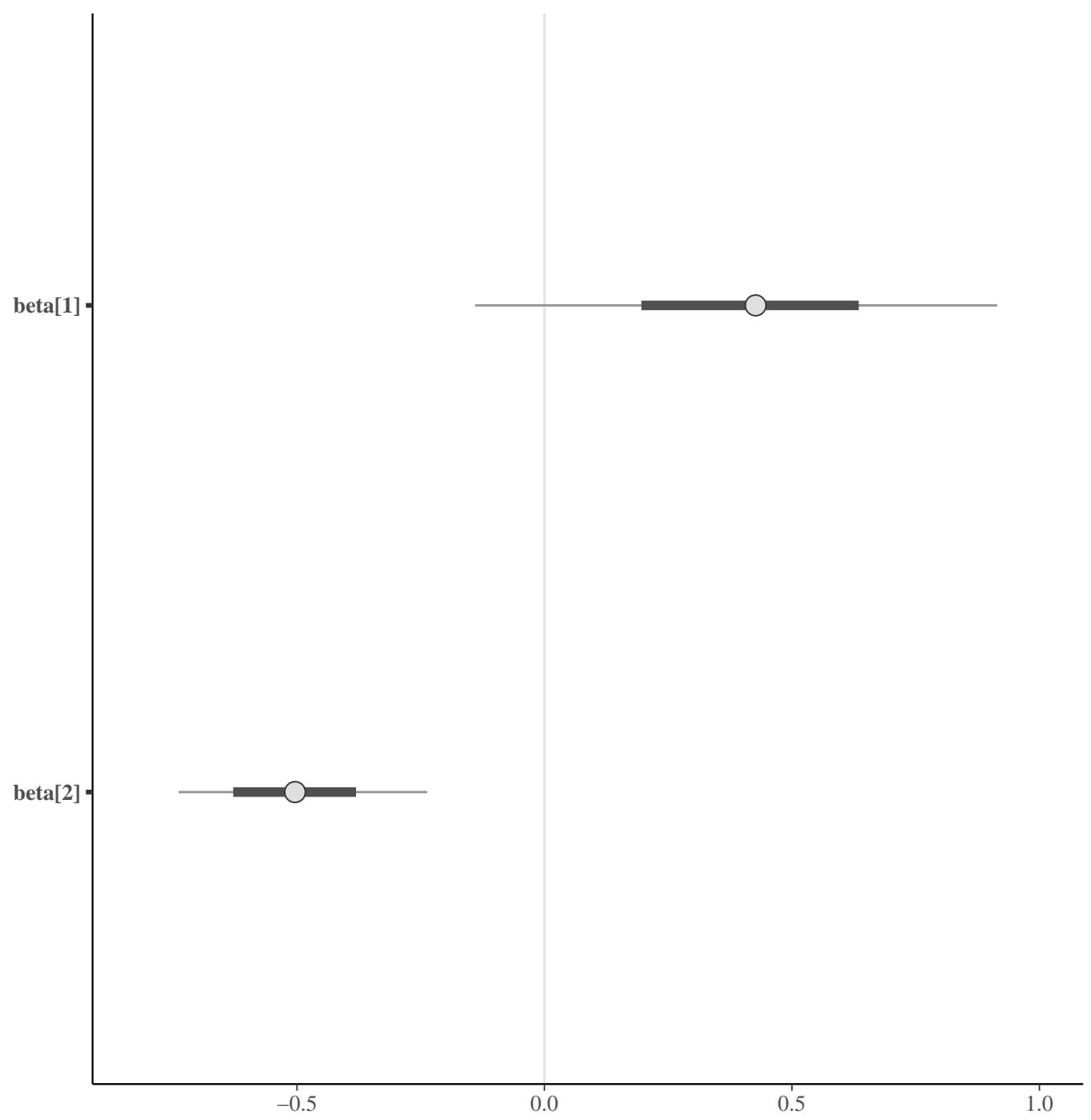
beta[2]



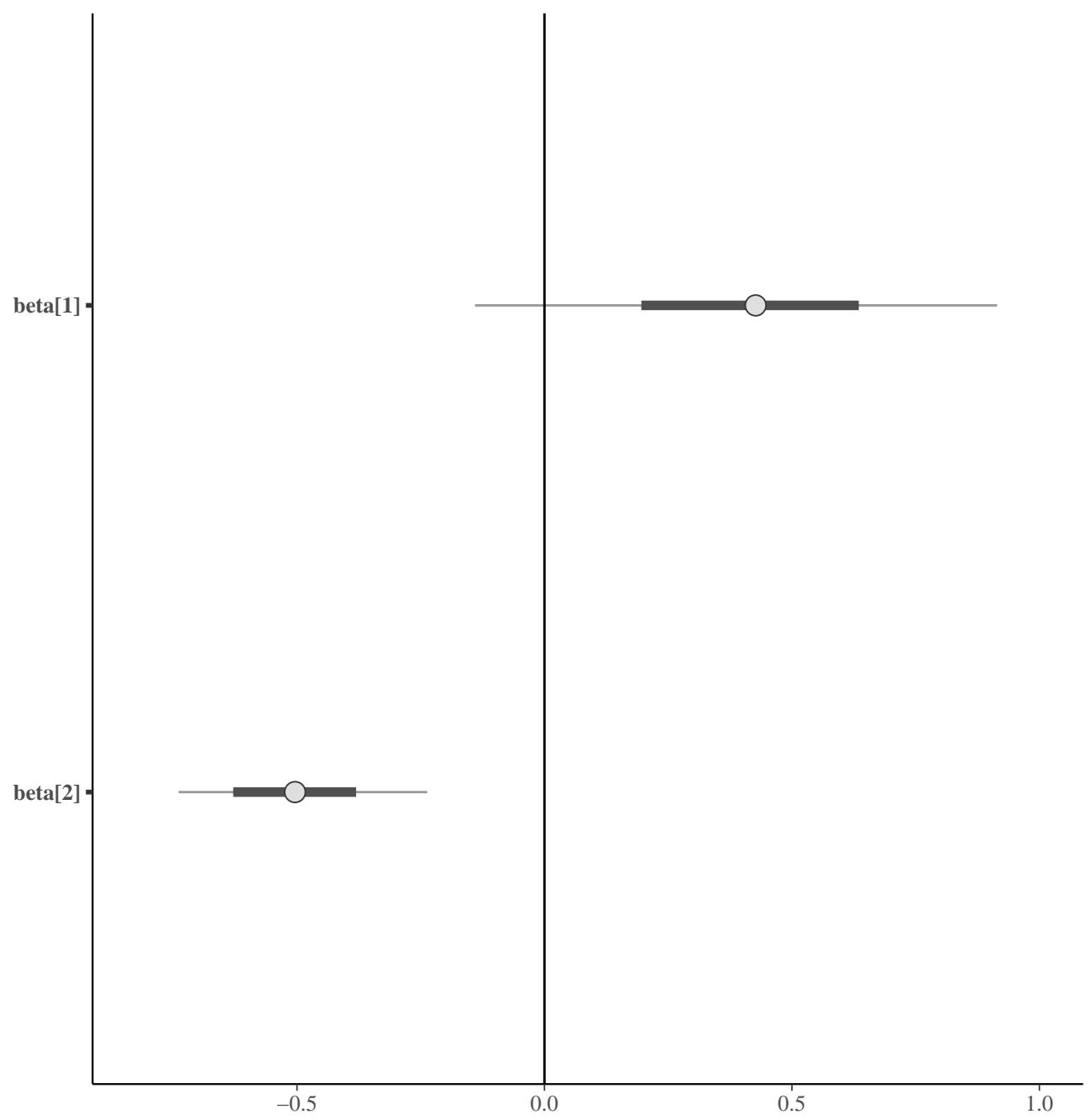
help("bayesplot-colors")



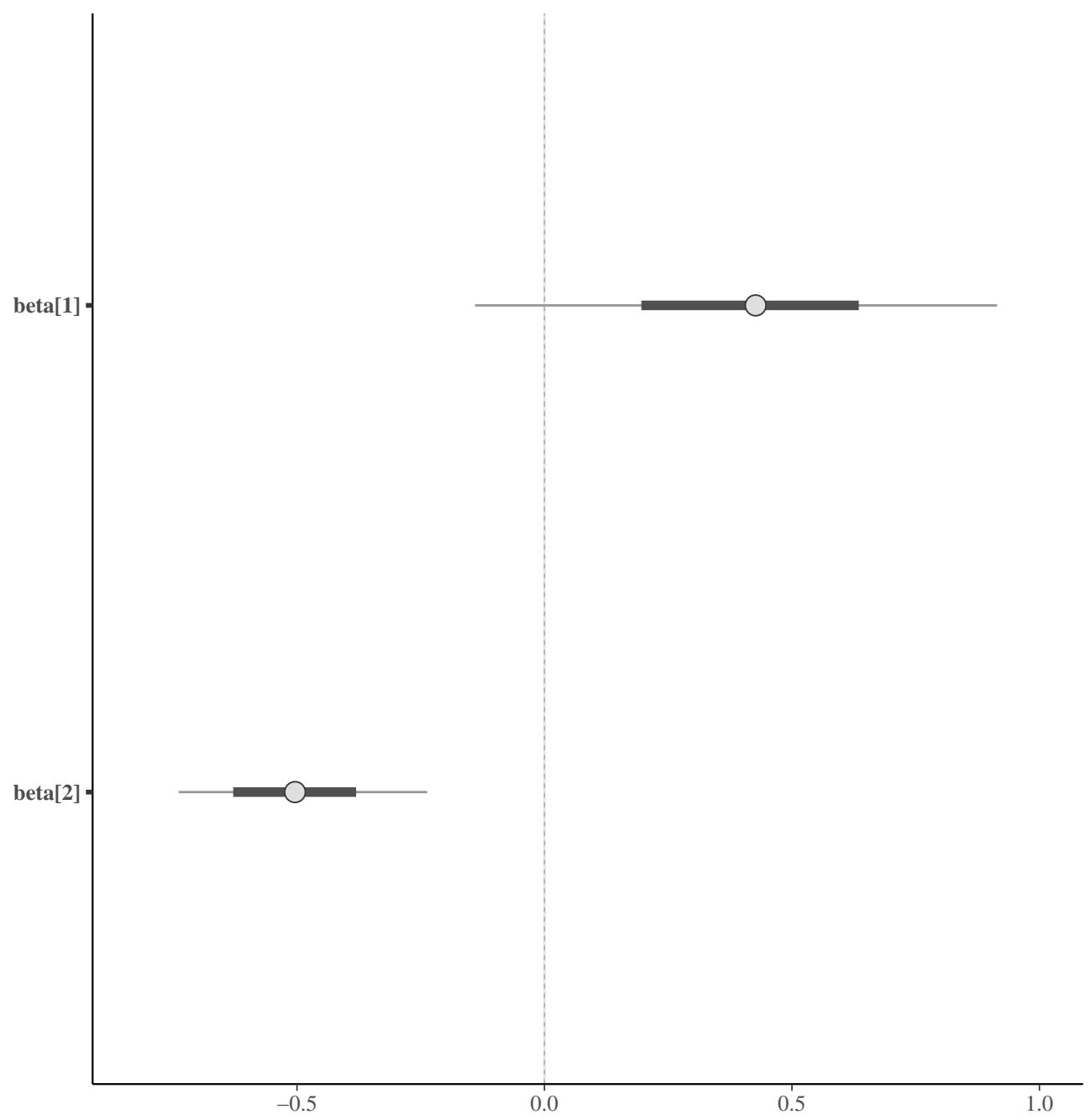
```
help("bayesplot-helpers")
```



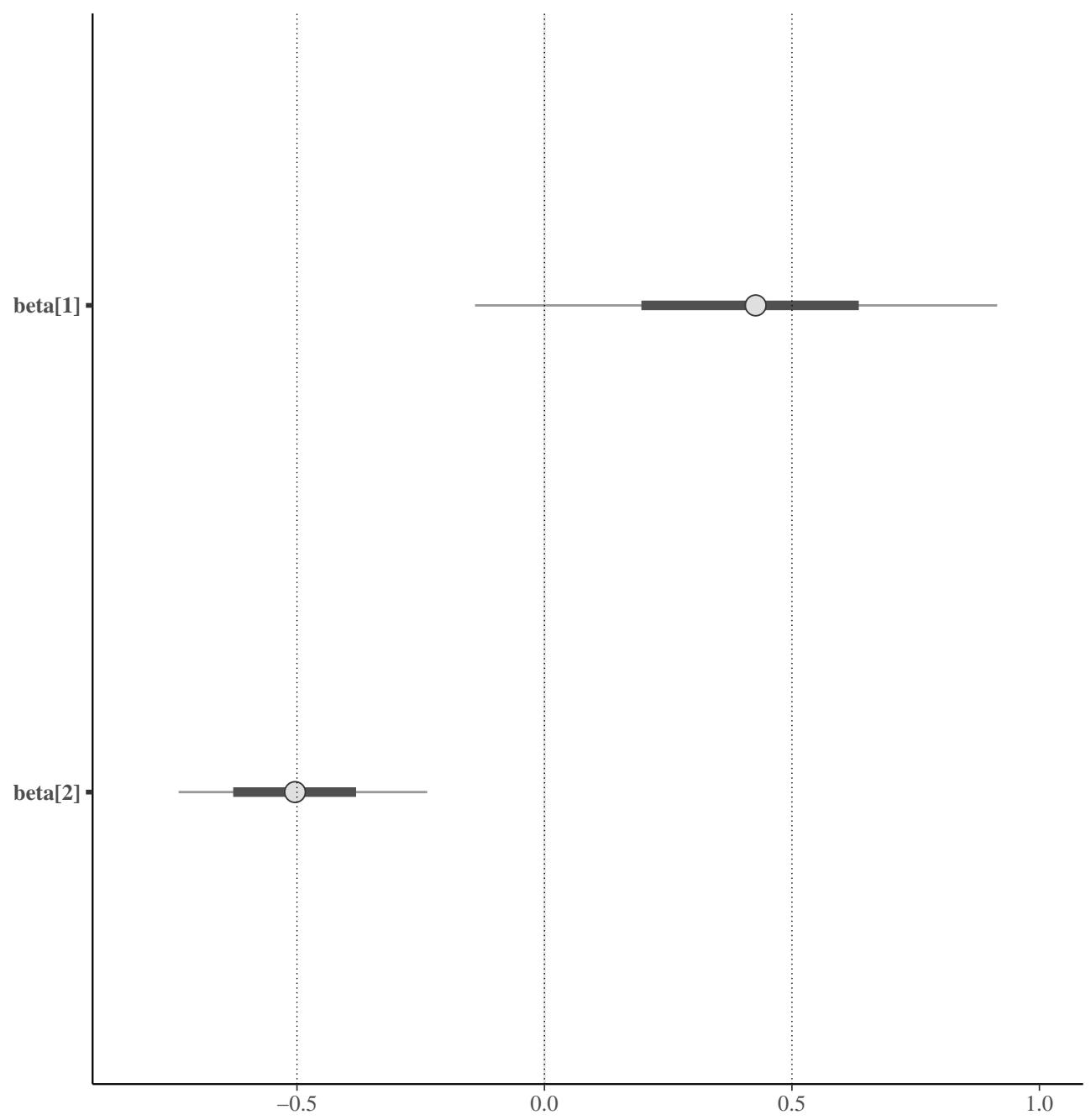
help("bayesplot-helpers")



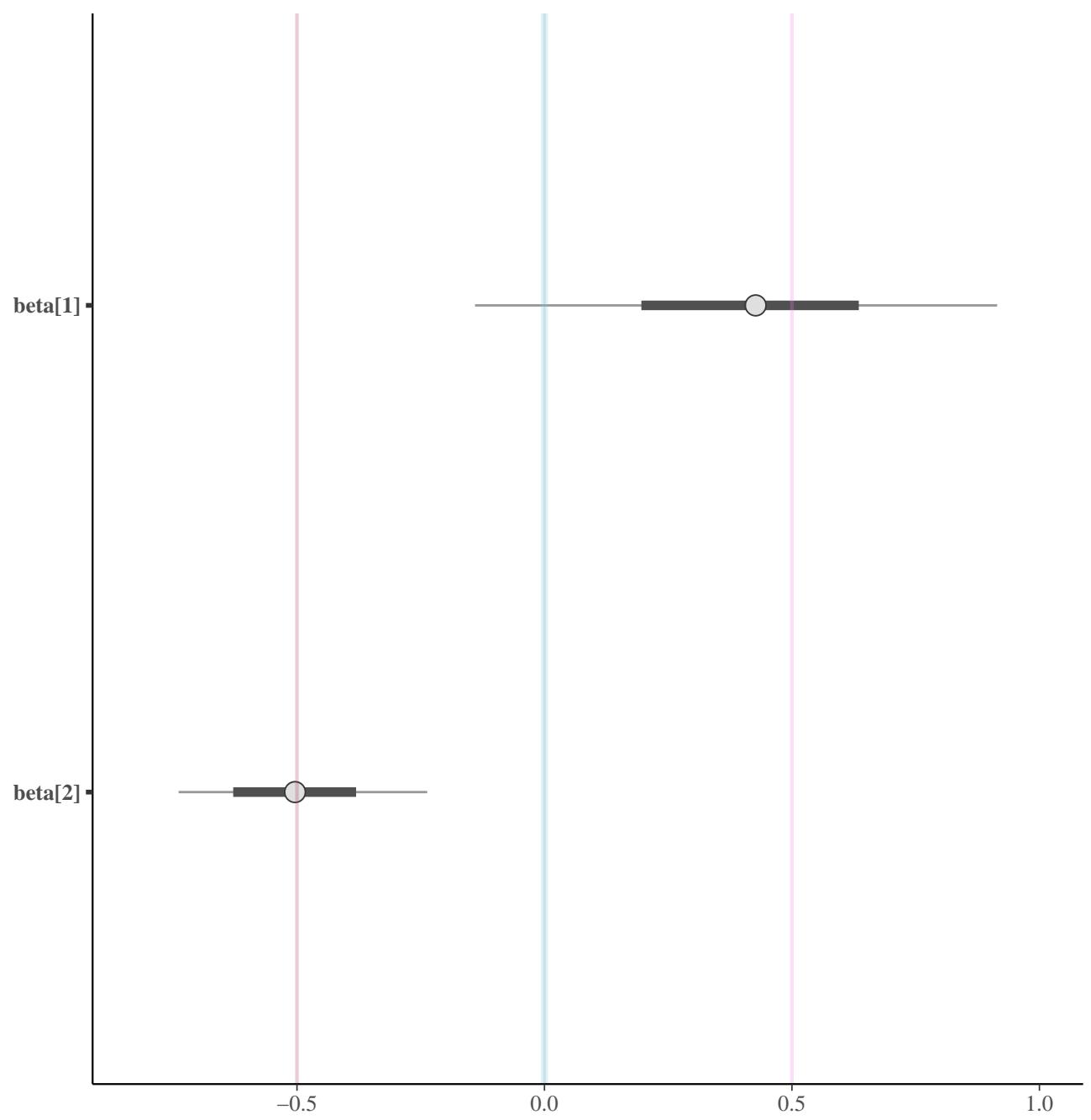
```
help("bayesplot-helpers")
```



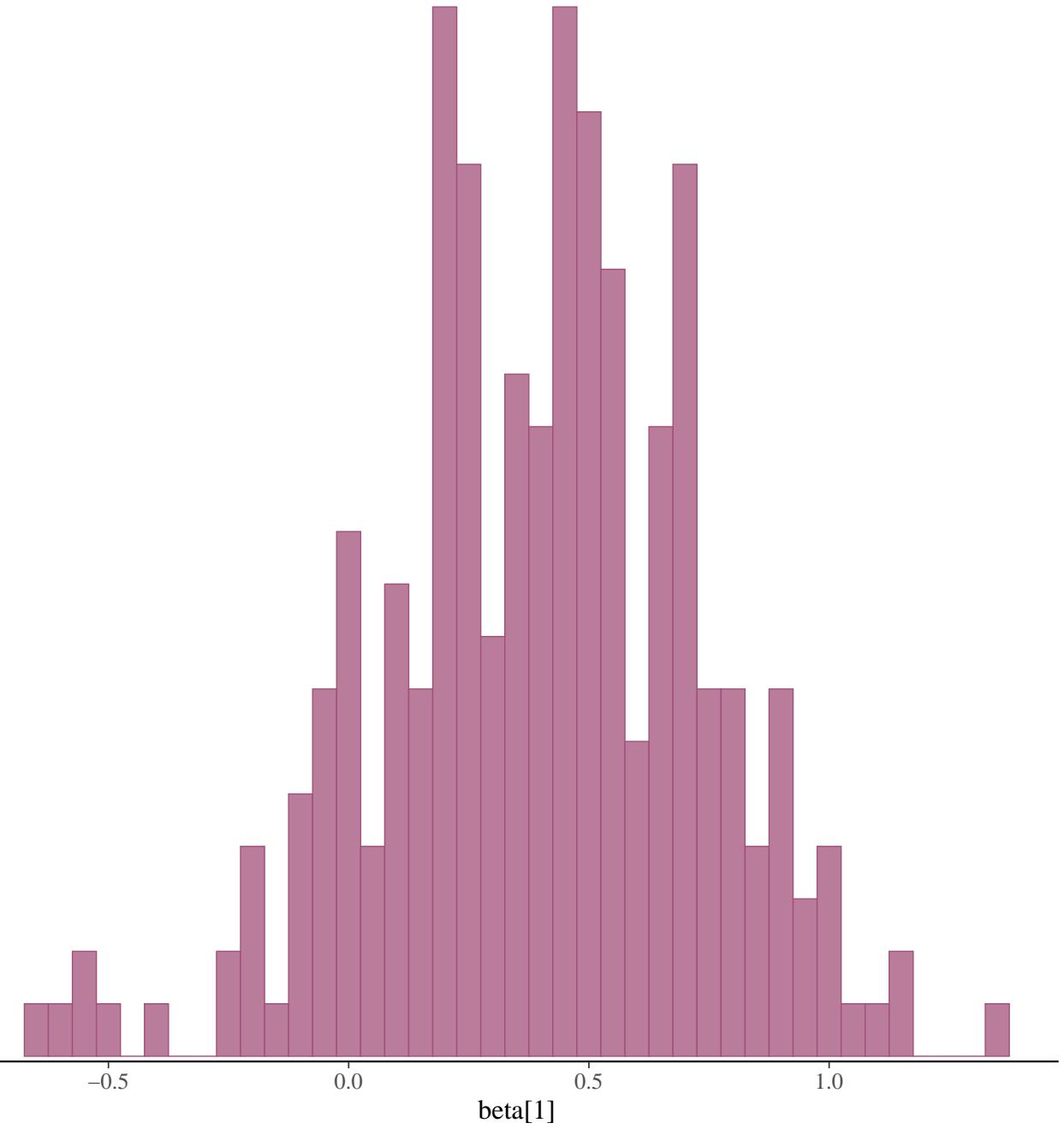
help("bayesplot-helpers")



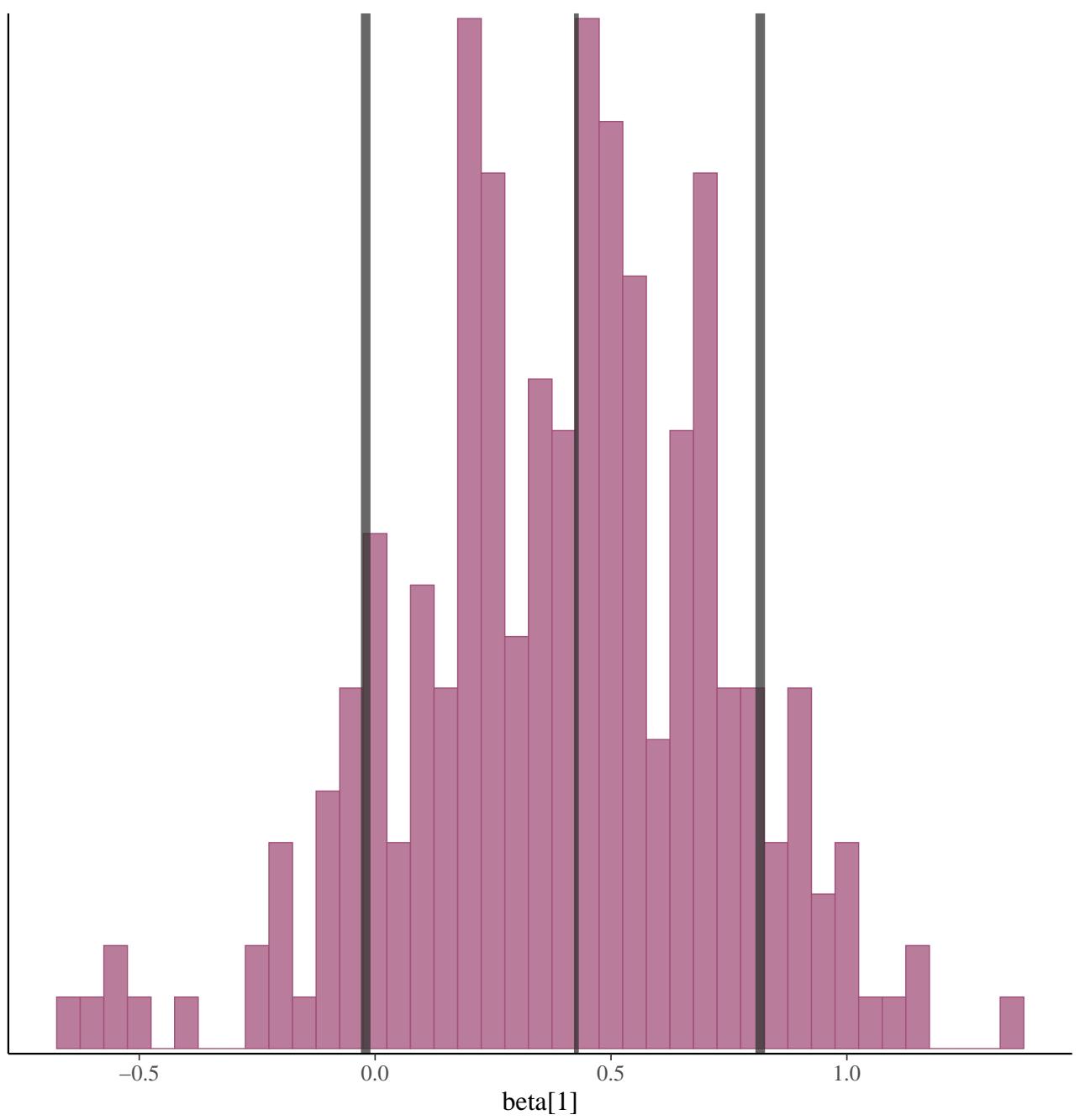
help("bayesplot-helpers")



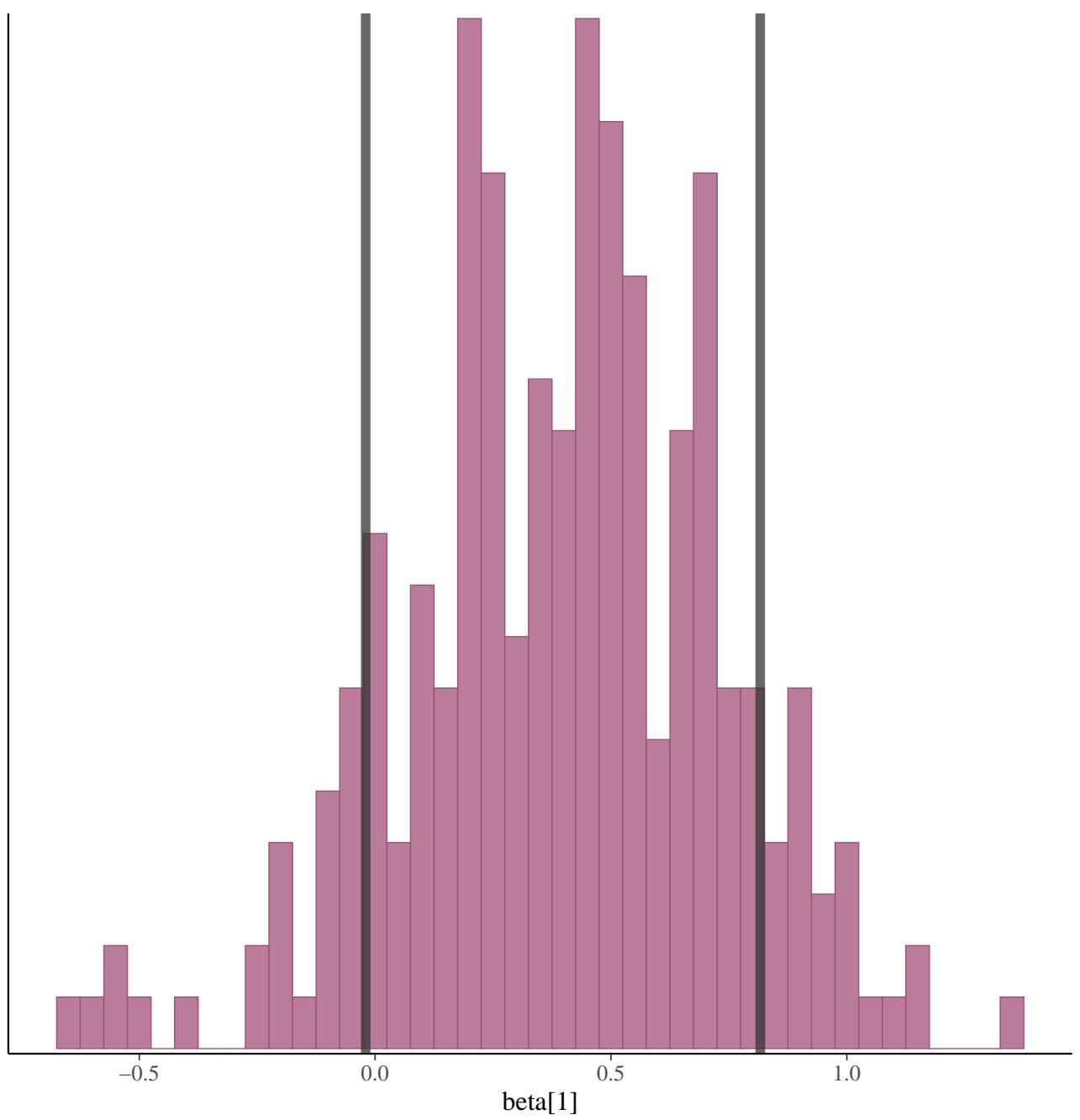
```
help("bayesplot-helpers")
```



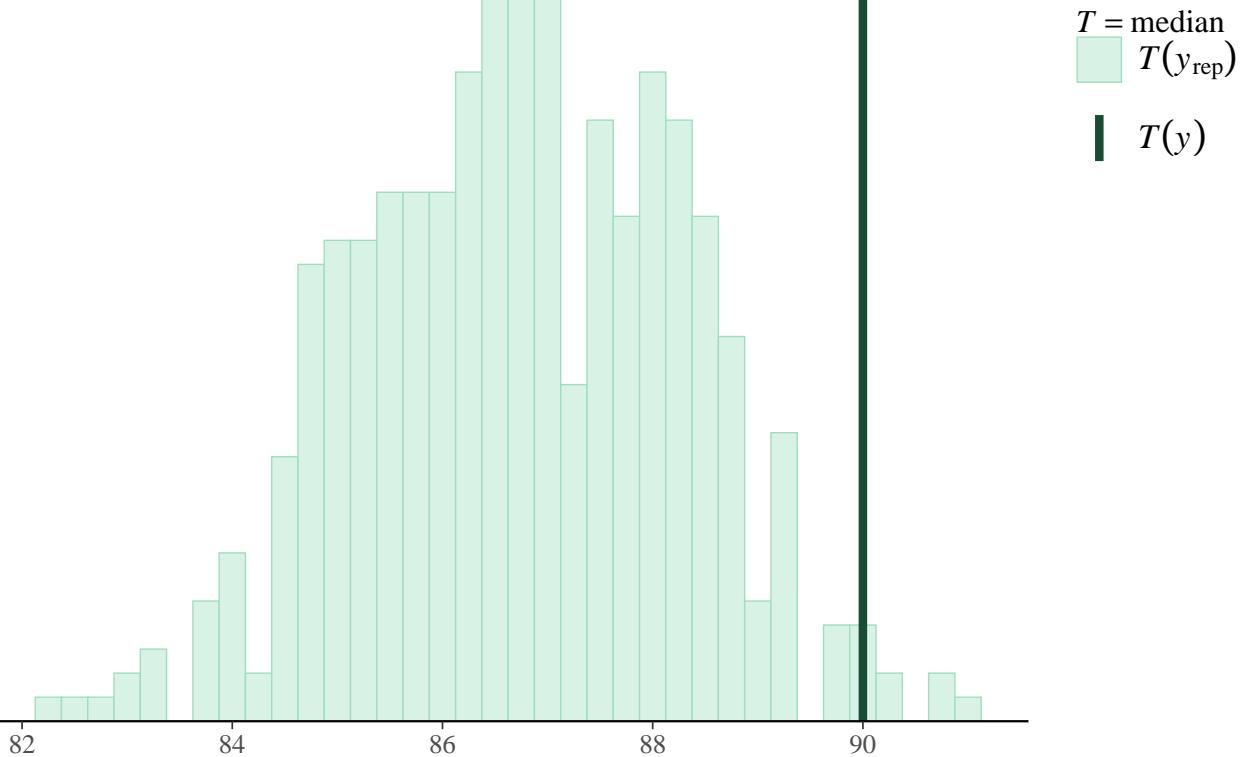
```
help("bayesplot-helpers")
```



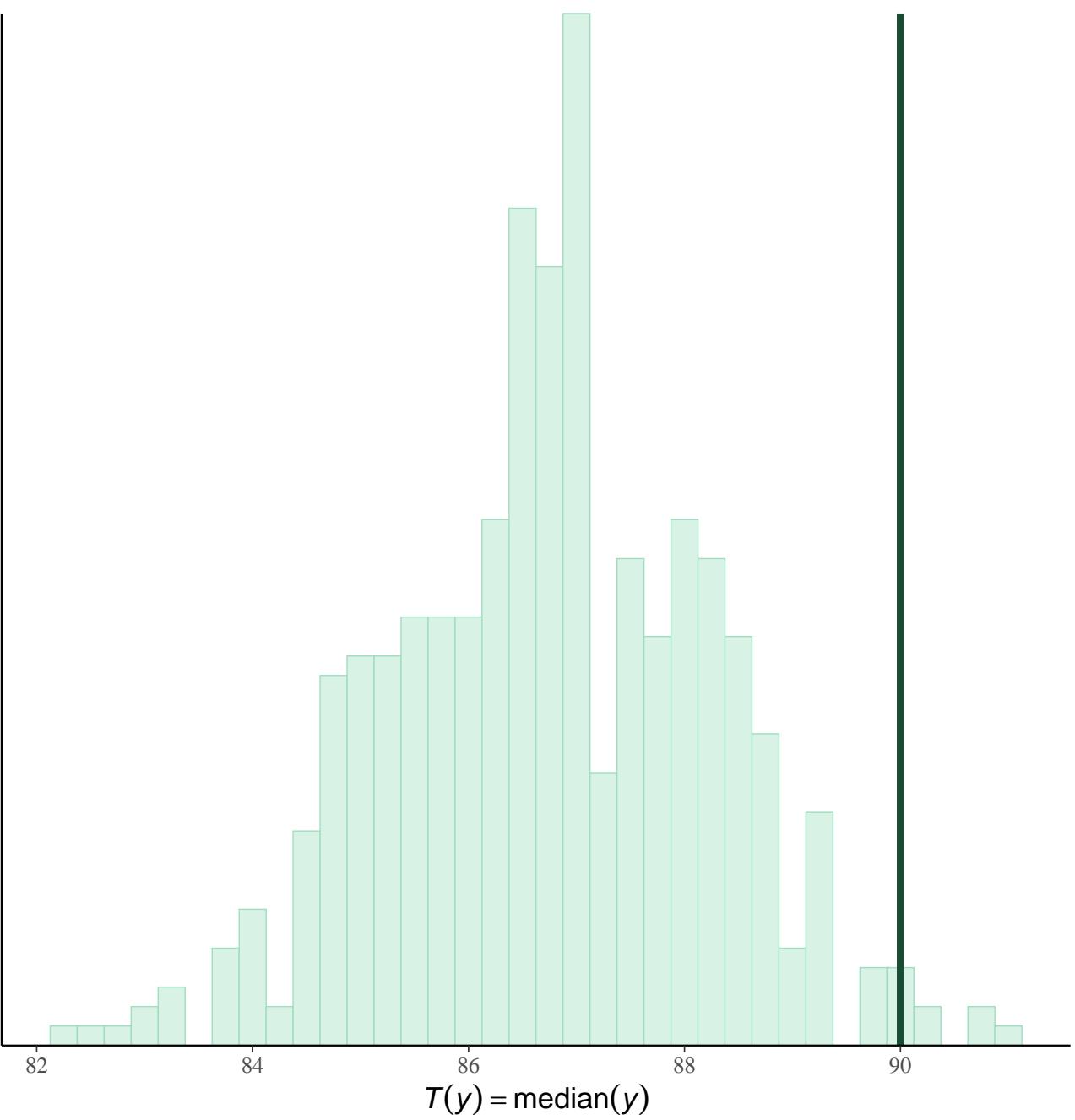
```
help("bayesplot-helpers")
```



help("bayesplot-helpers")

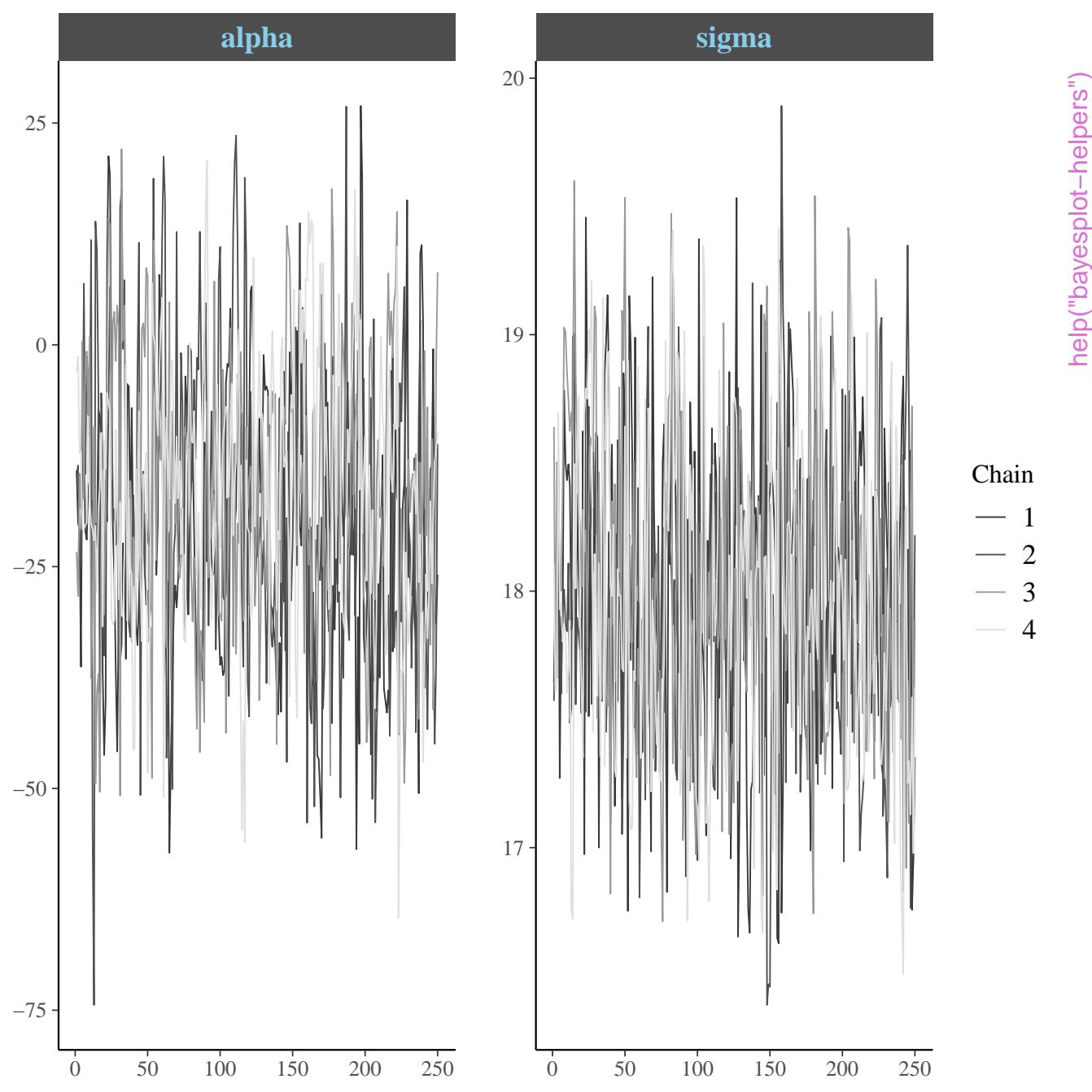


help("bayesplot-helpers")



alpha

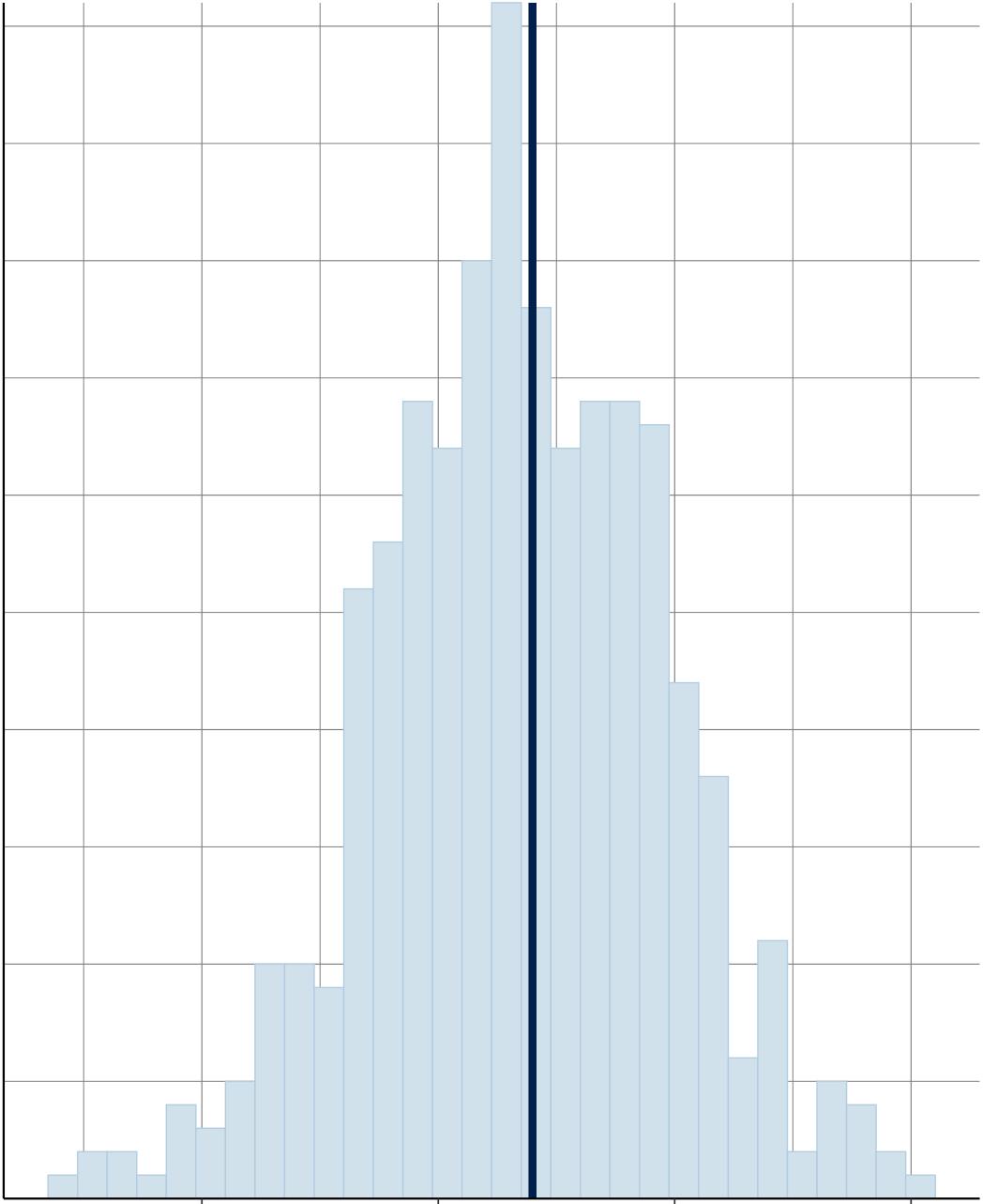
sigma

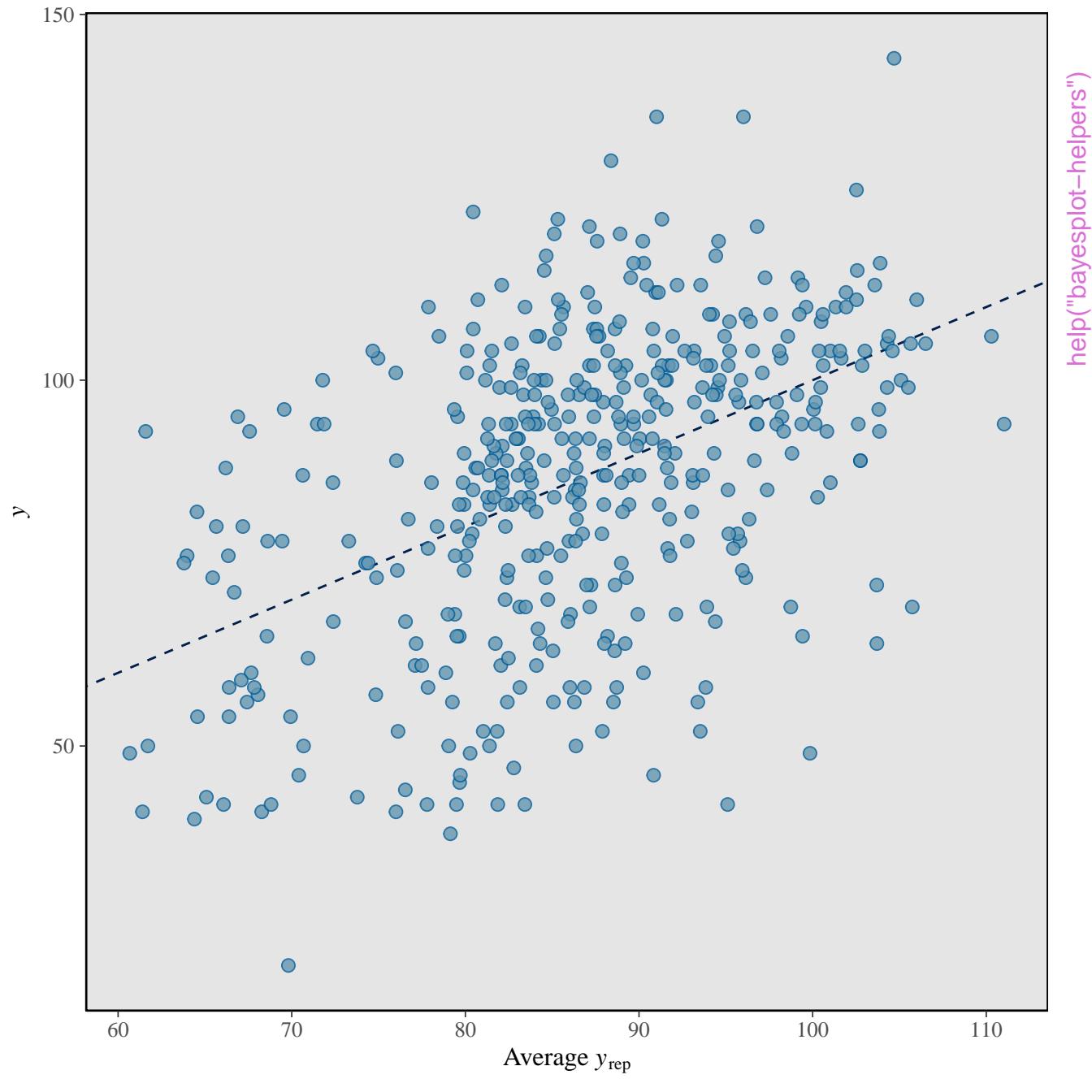


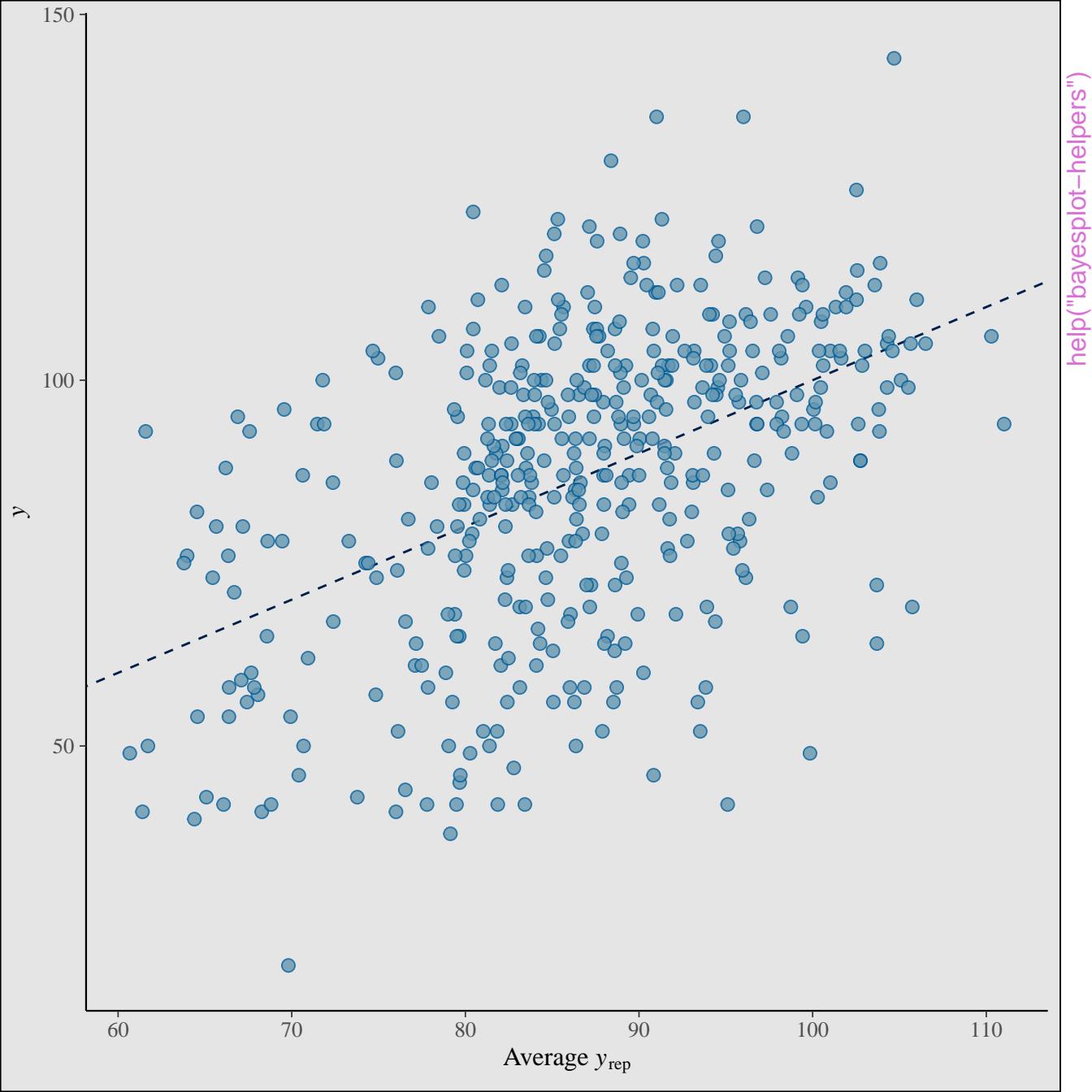
help("bayesplot")

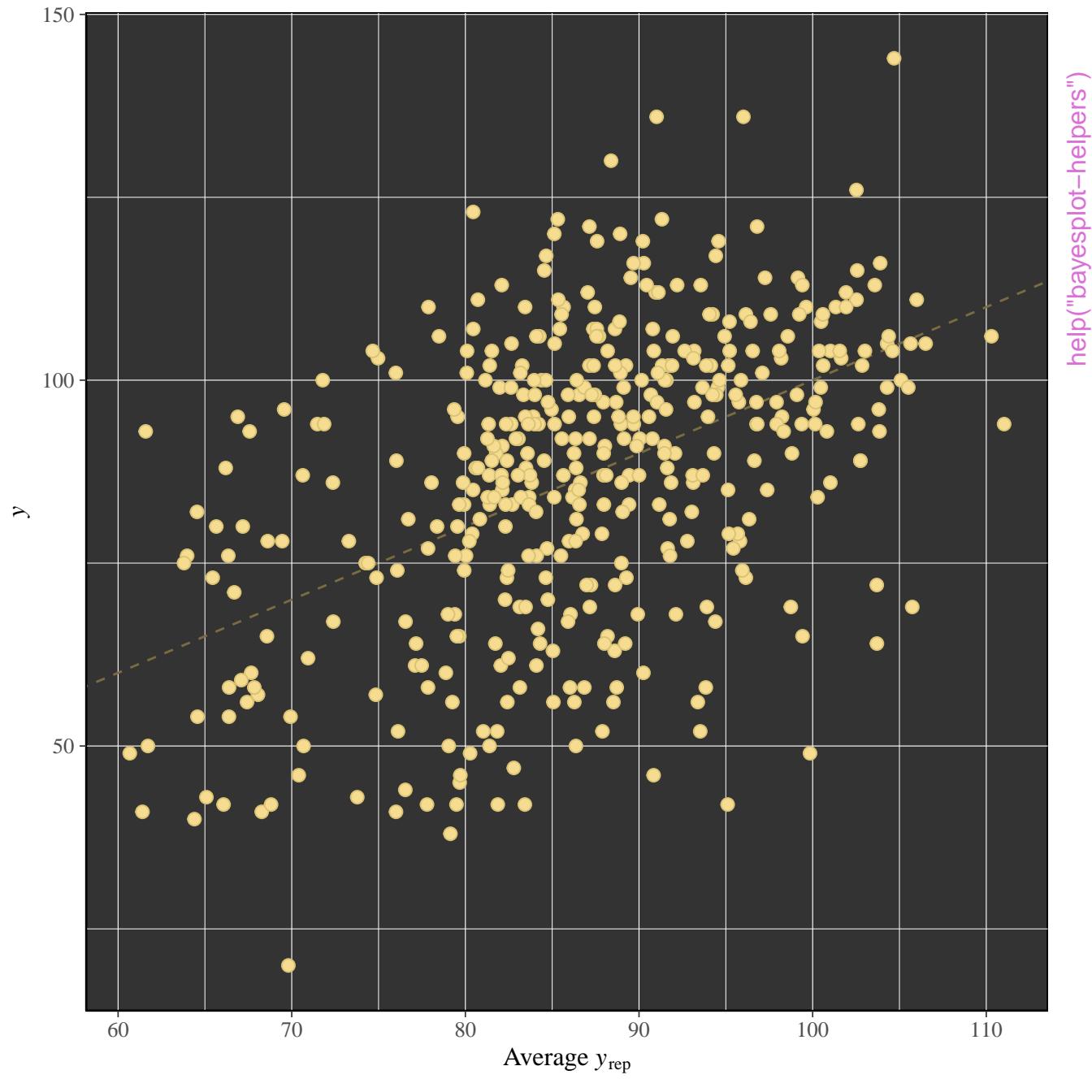
$T = \text{mean}$
 $T(y_{\text{rep}})$
| $T(y)$

84 86 88 90



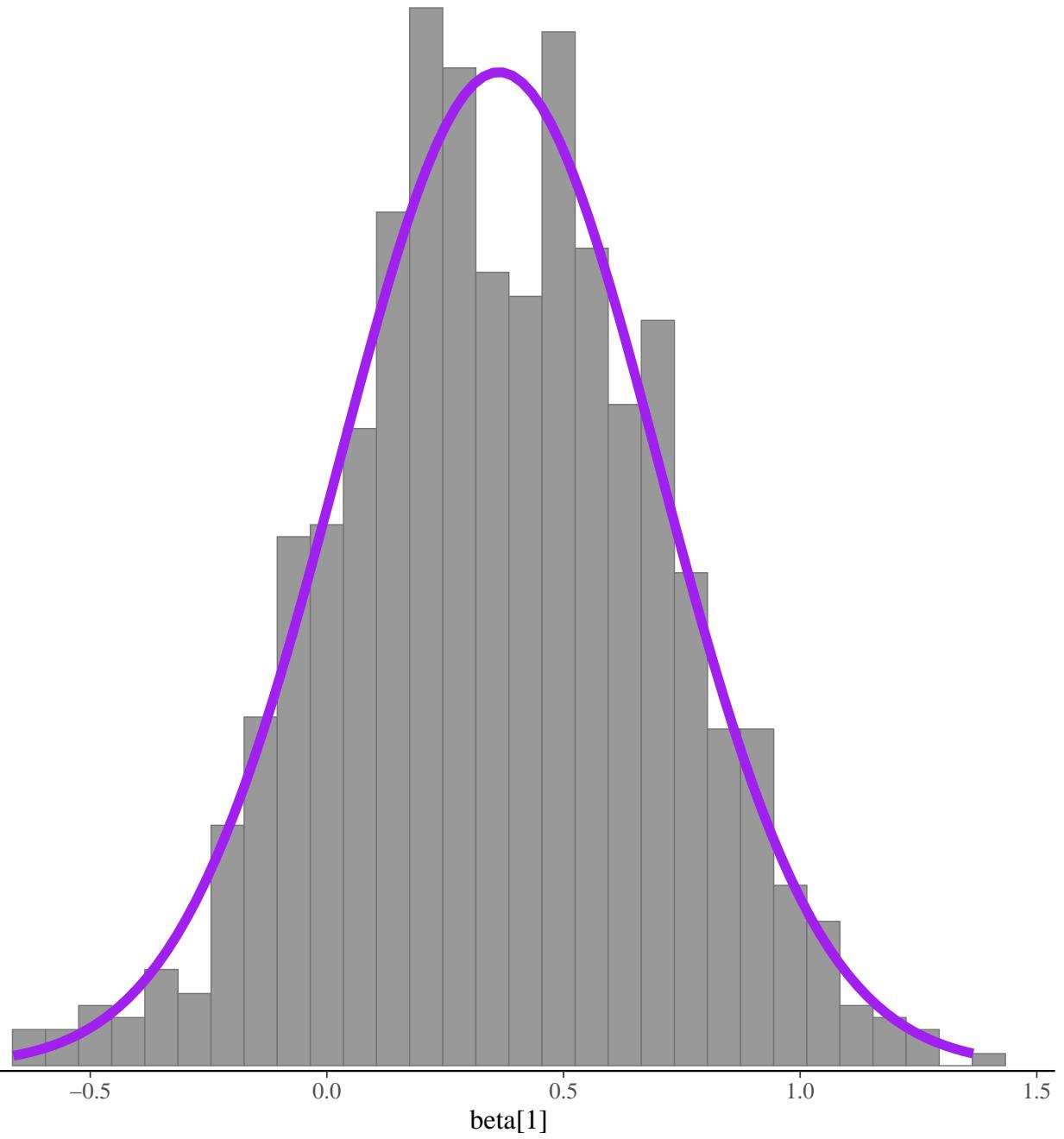




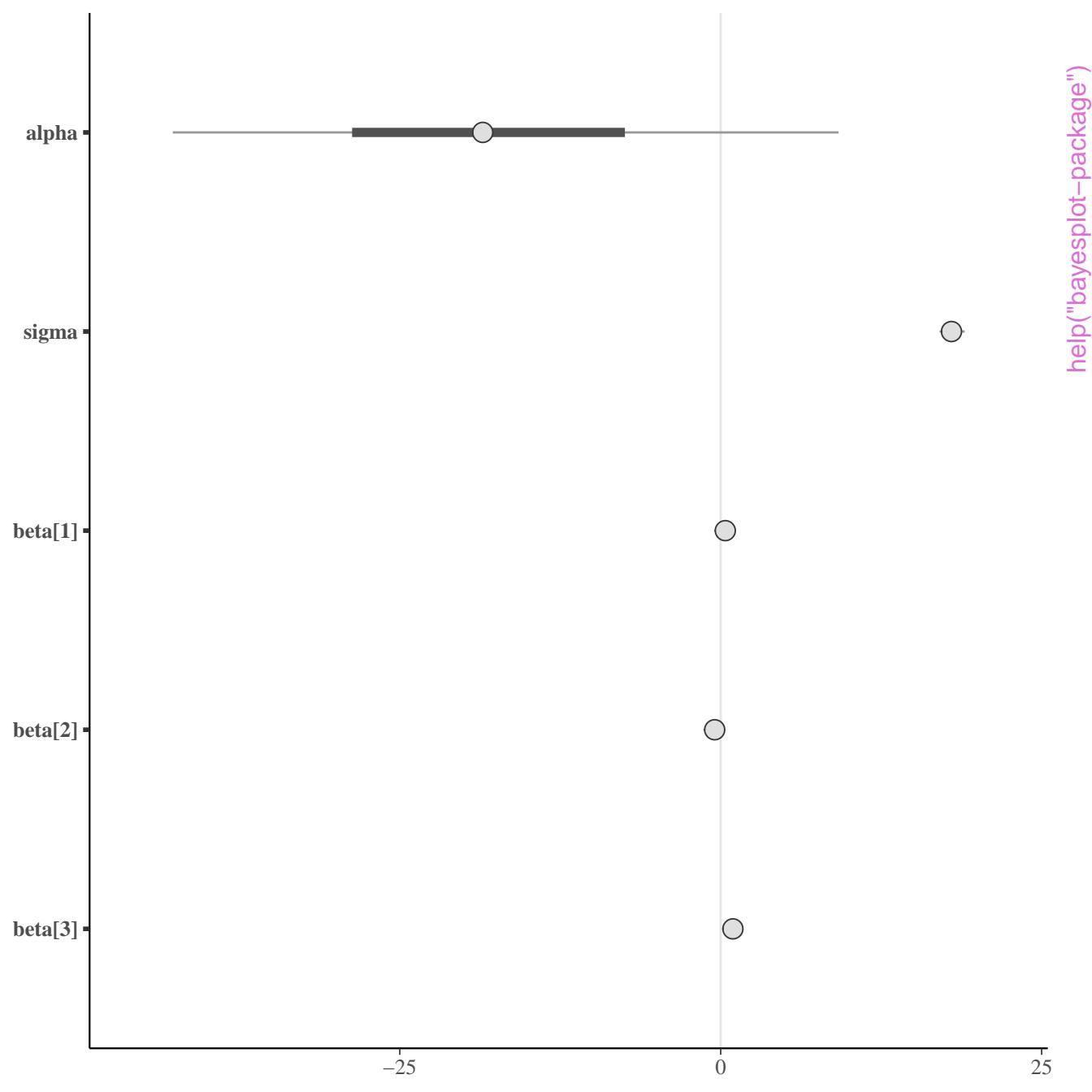


help("bayesplot-helpers")

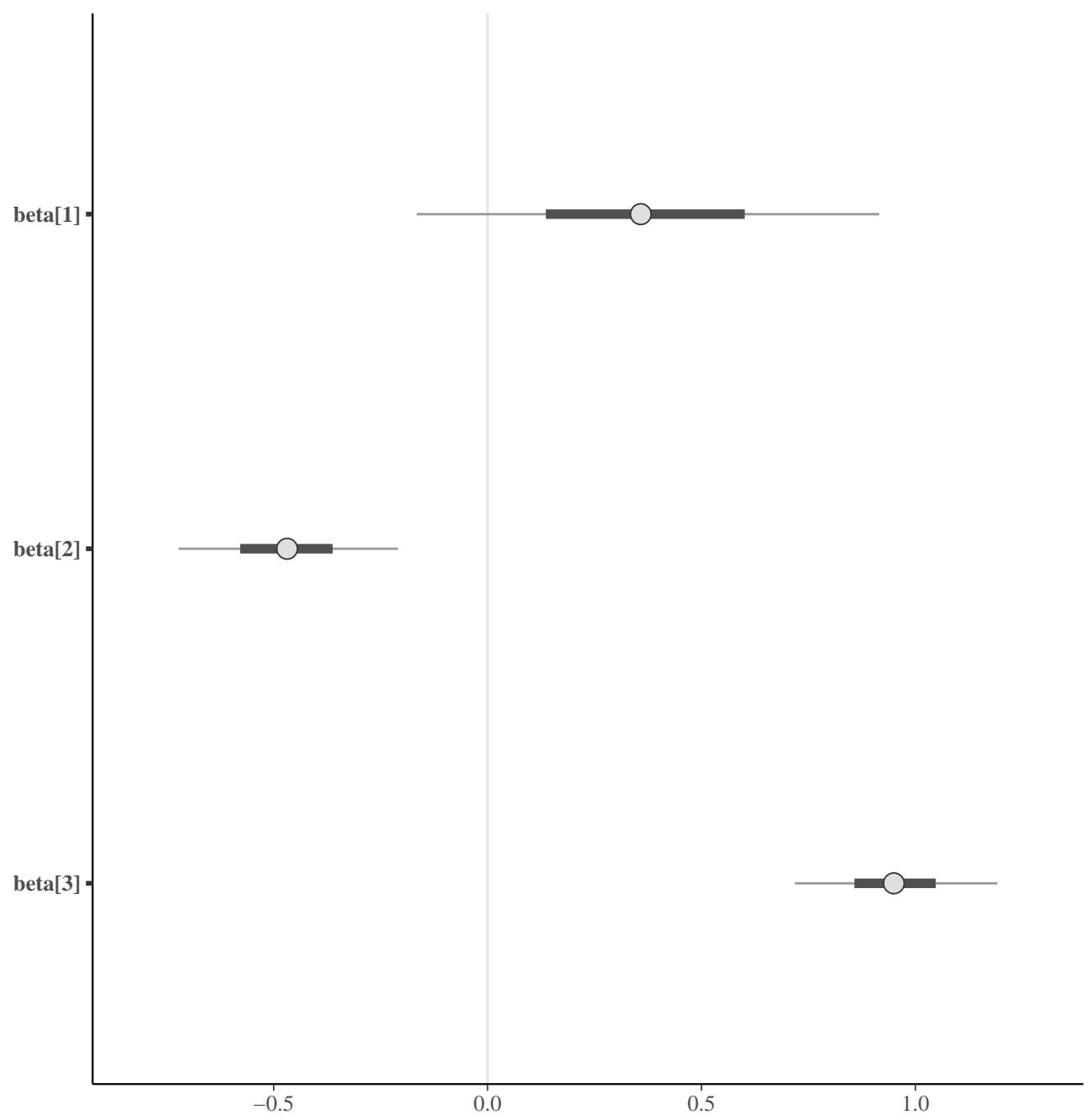
help("bayesplot-helpers")



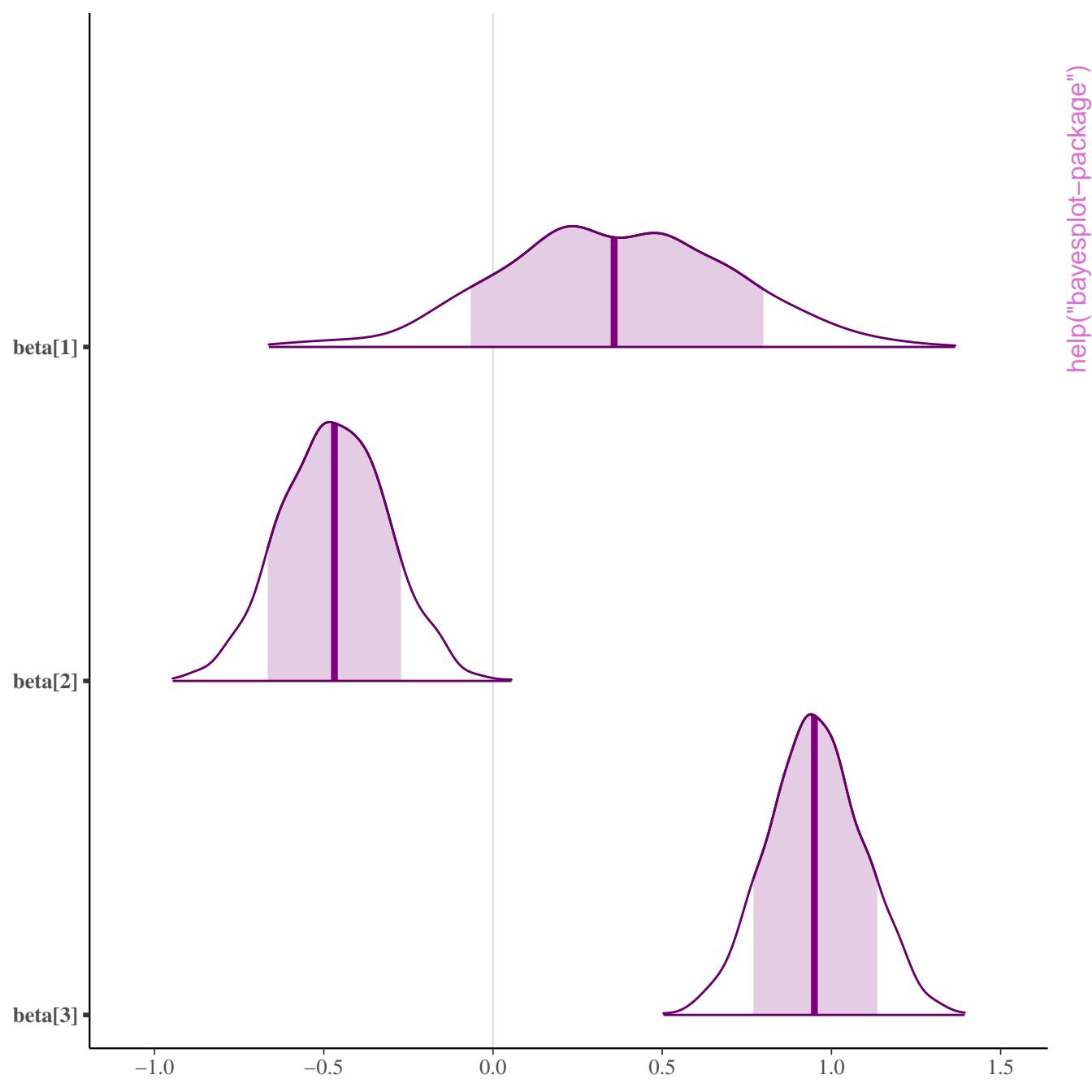
```
help("bayesplot-package")
```



```
help("bayesplot-package")
```

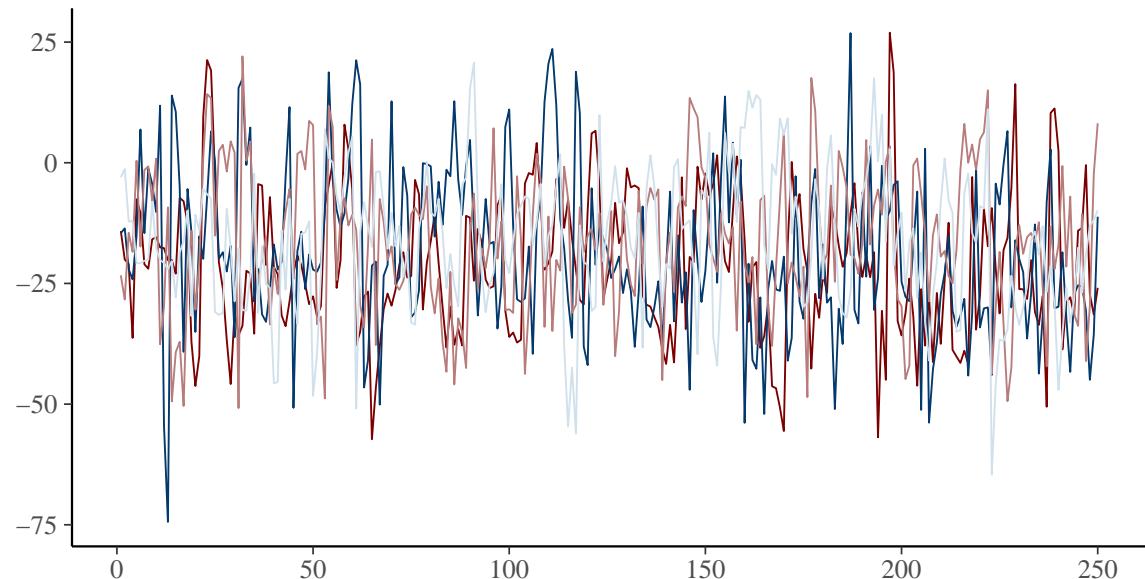


```
help("bayesplot-package")
```

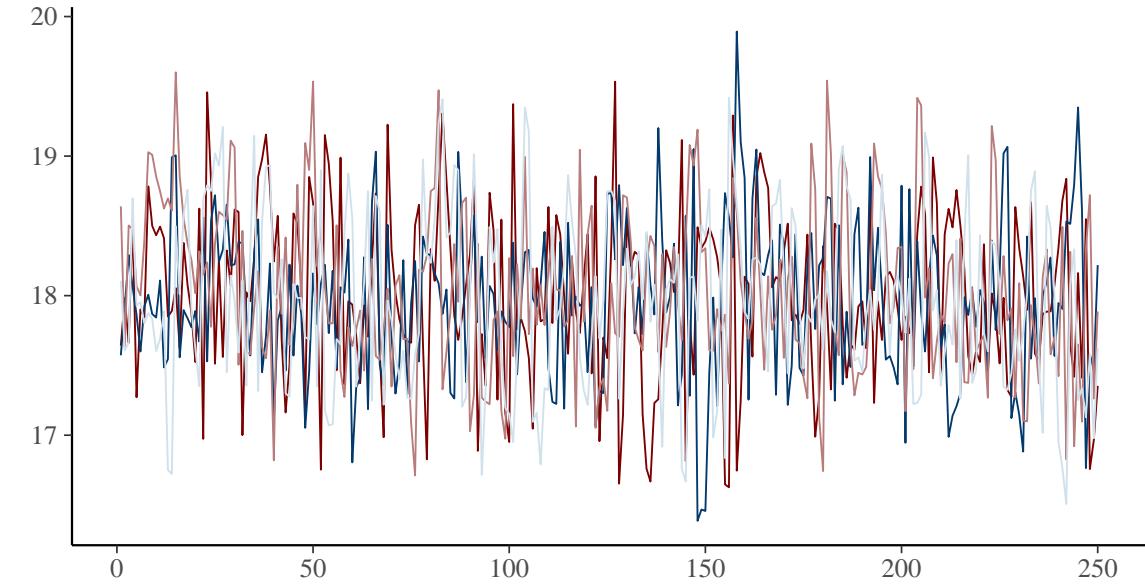


```
help("bayesplot-package")
```

alpha



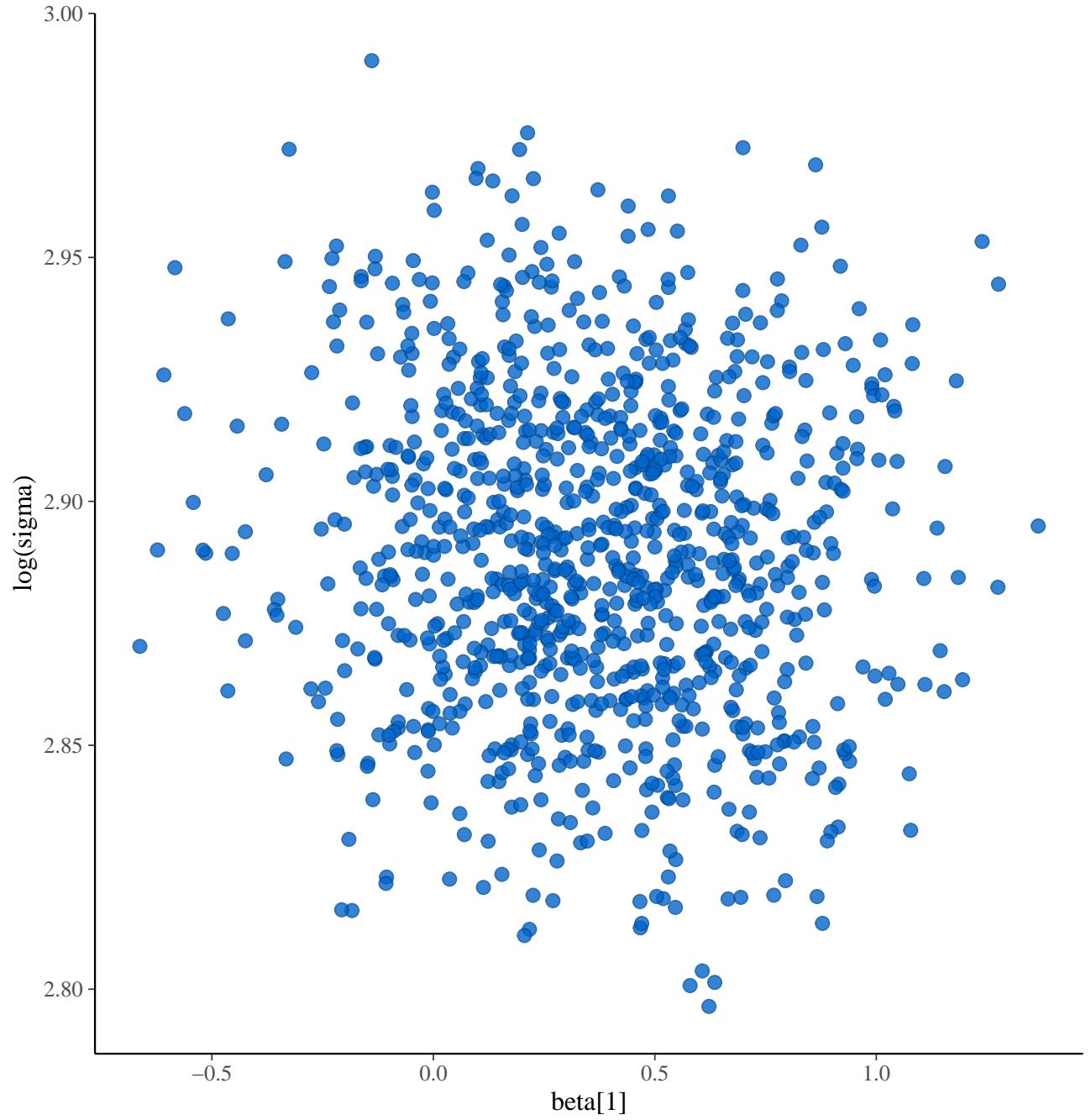
sigma



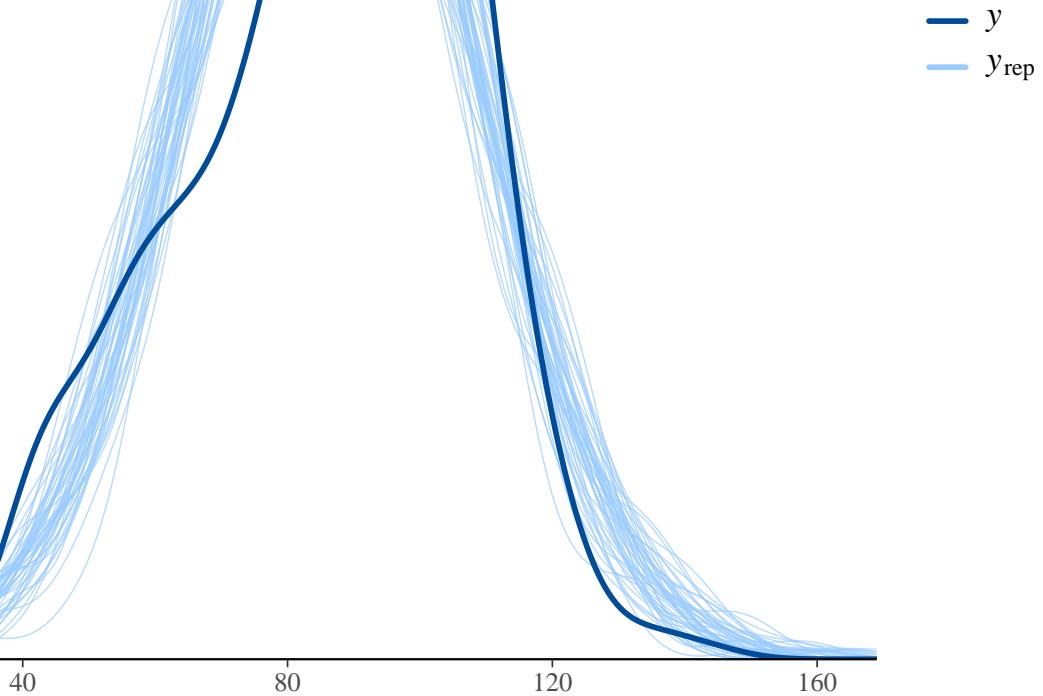
Chain

- 1
- 2
- 3
- 4

```
help("bayesplot-package")
```

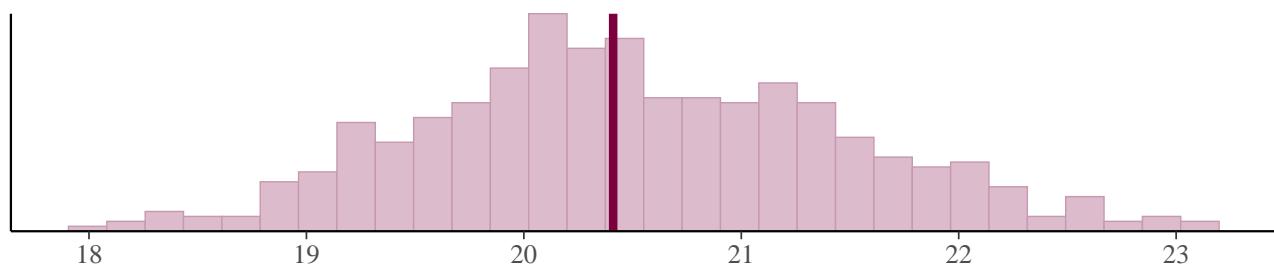


help("bayesplot-package")

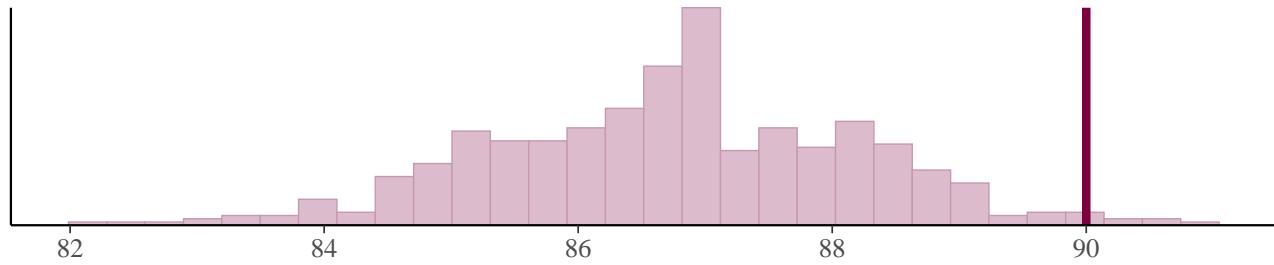


help("bayesplot_grid")

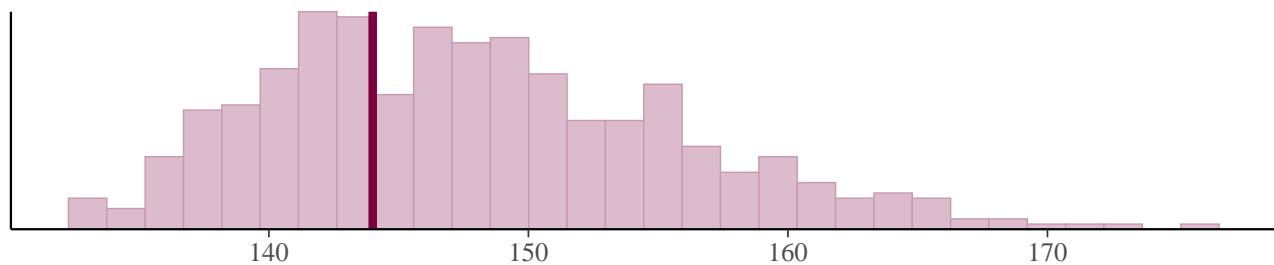
sd



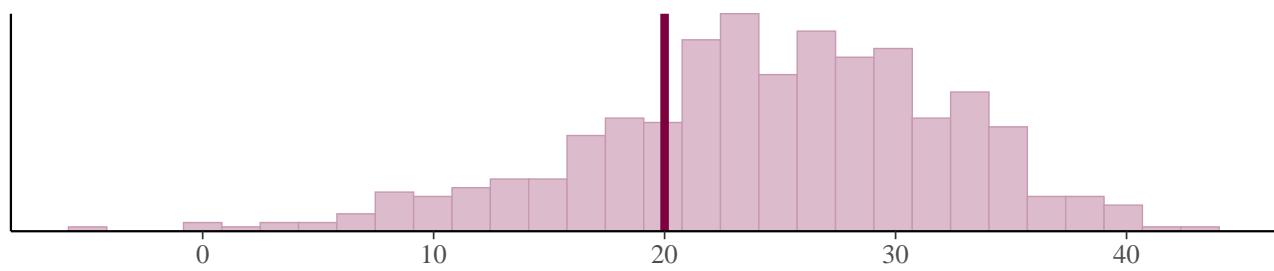
median



max

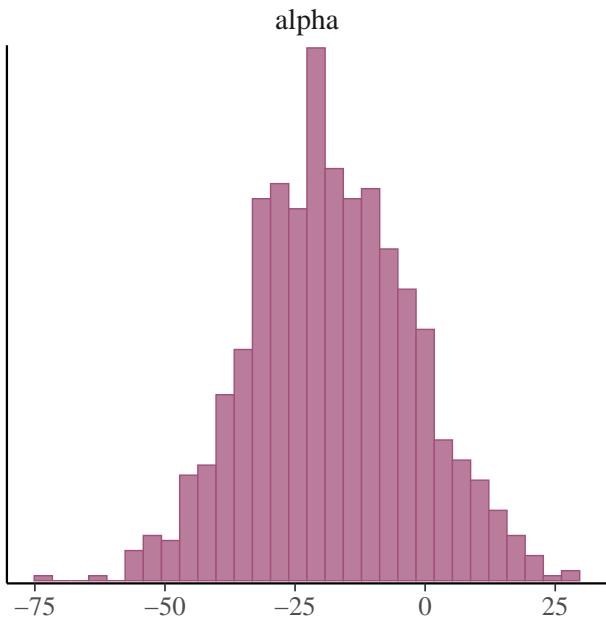


min

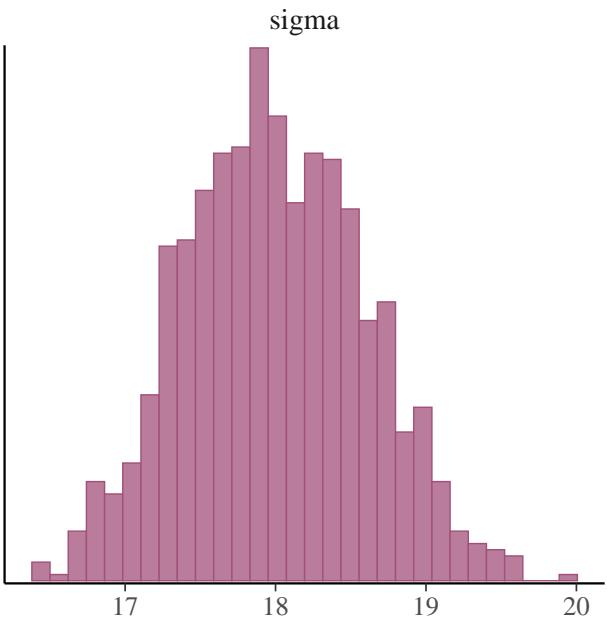


help("bayesplot_theme_get")

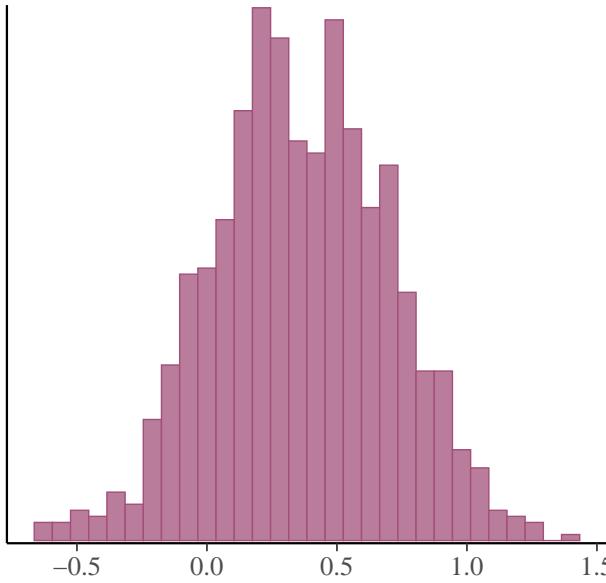
alpha



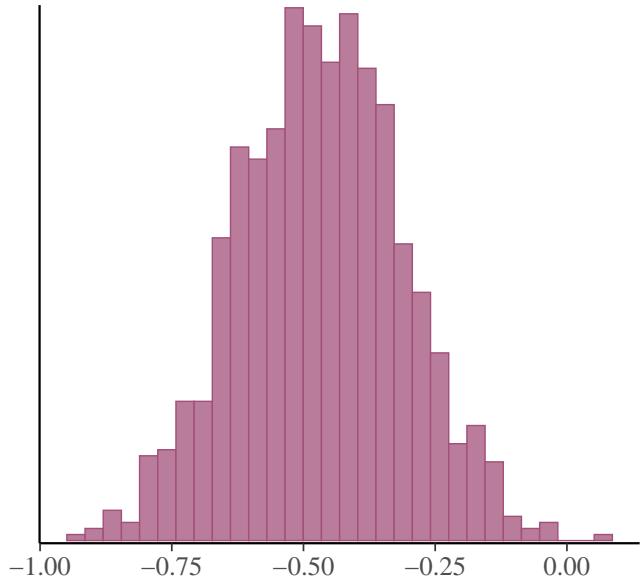
sigma



beta[1]

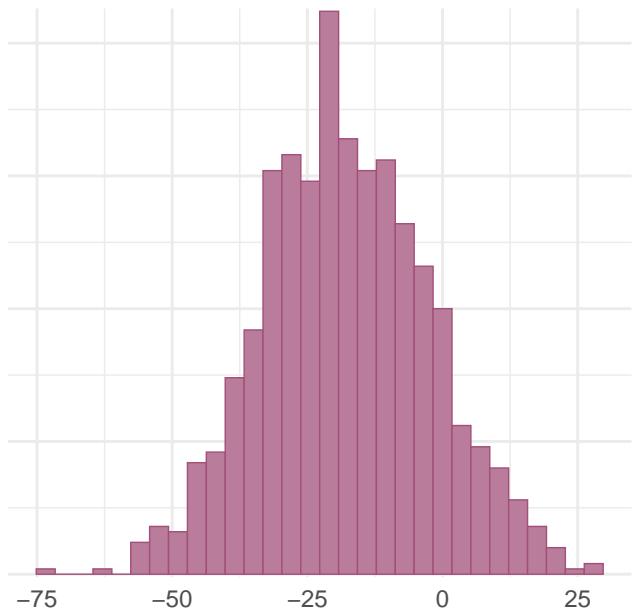


beta[2]

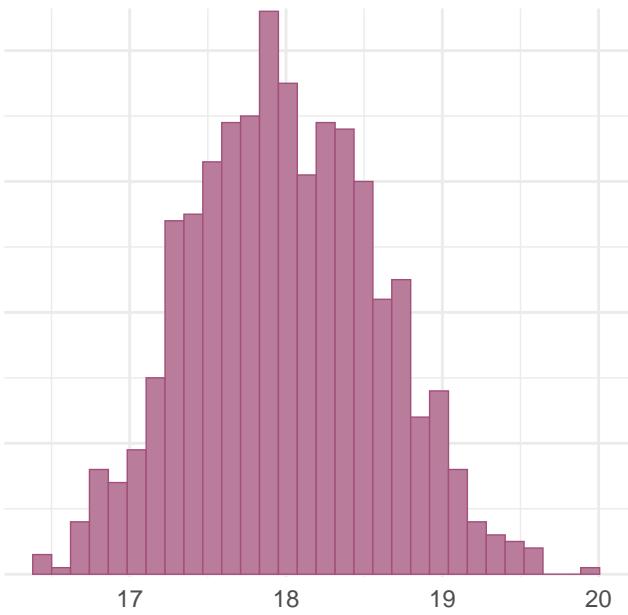


```
help("bayesplot_theme_get")
```

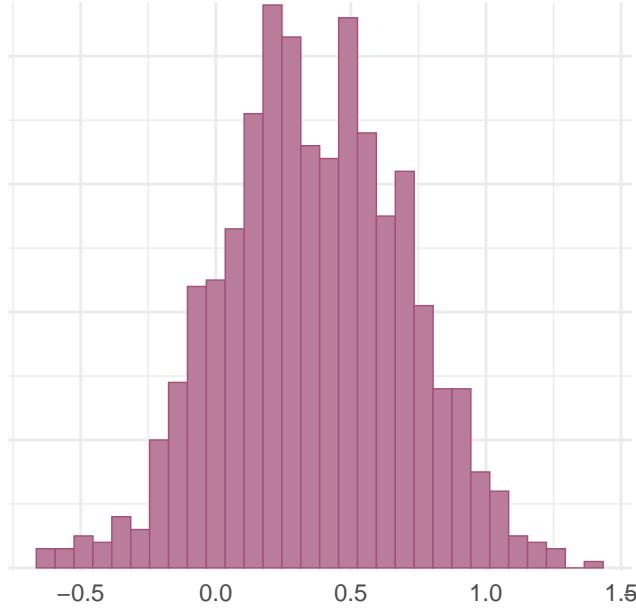
alpha



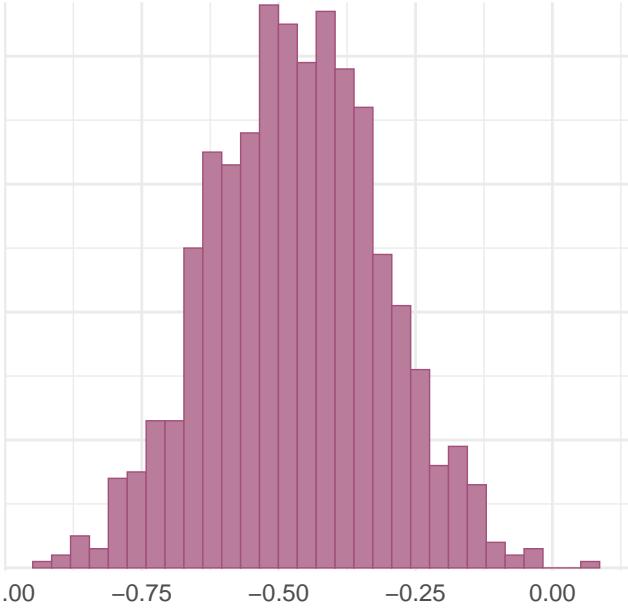
sigma



beta[1]

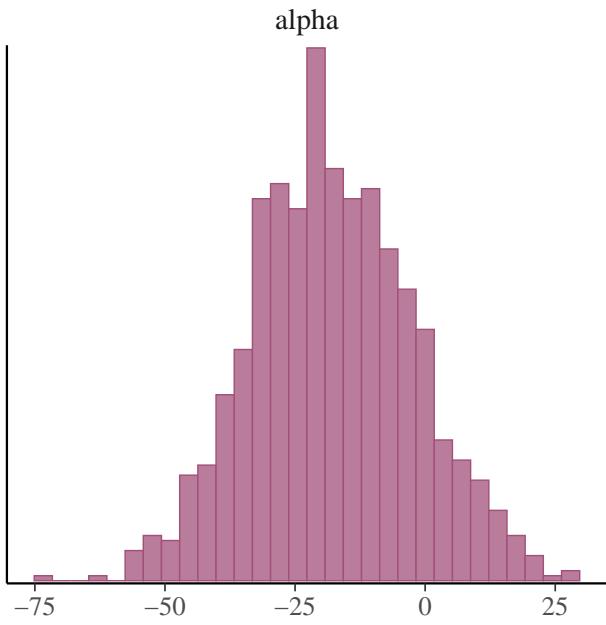


beta[2]

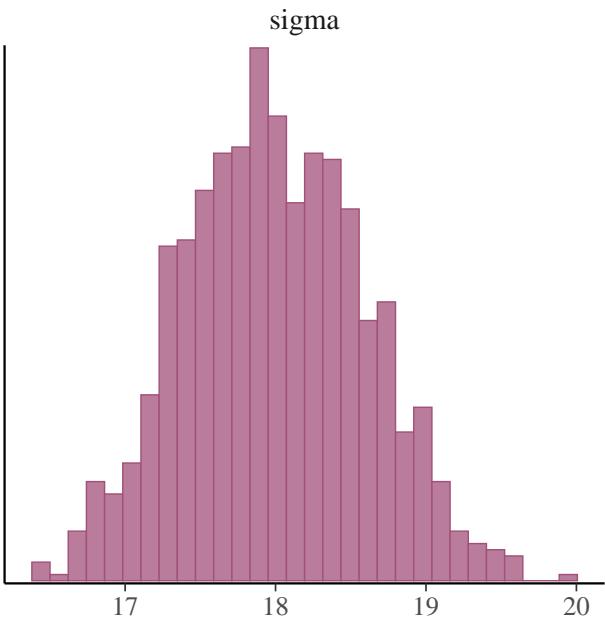


help("bayesplot_theme_get")

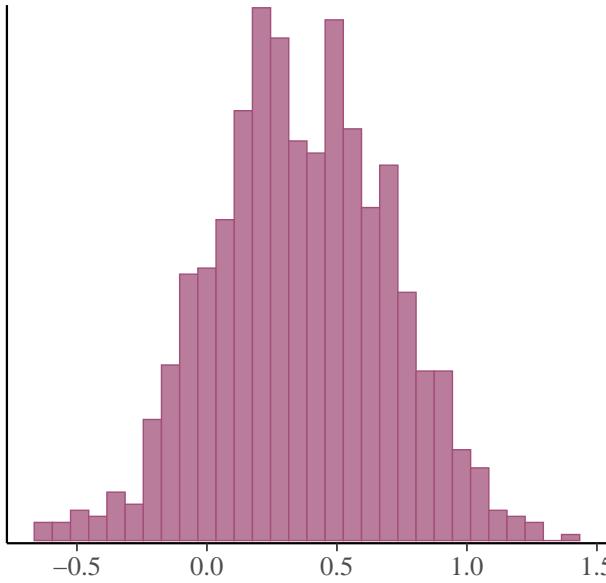
alpha



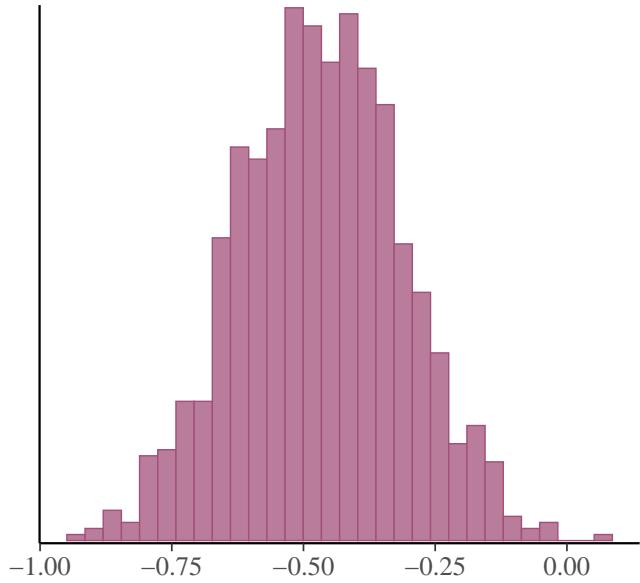
sigma



beta[1]

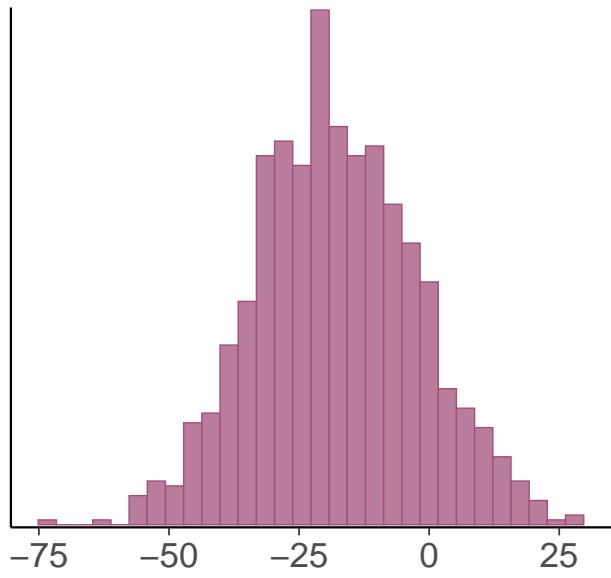


beta[2]

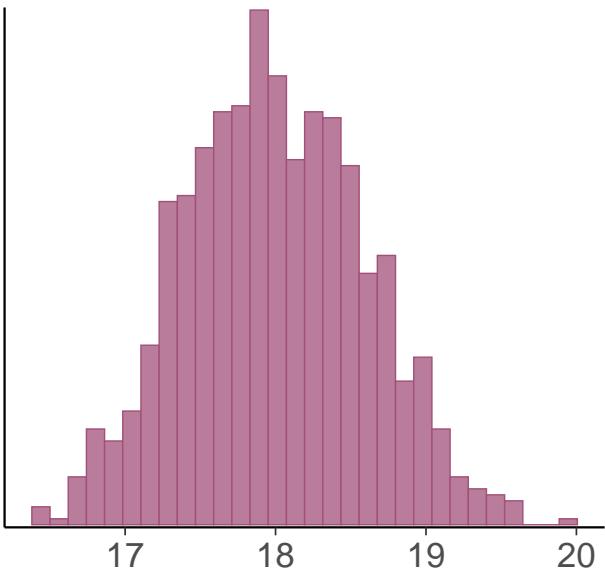


```
help("bayesplot_theme_get")
```

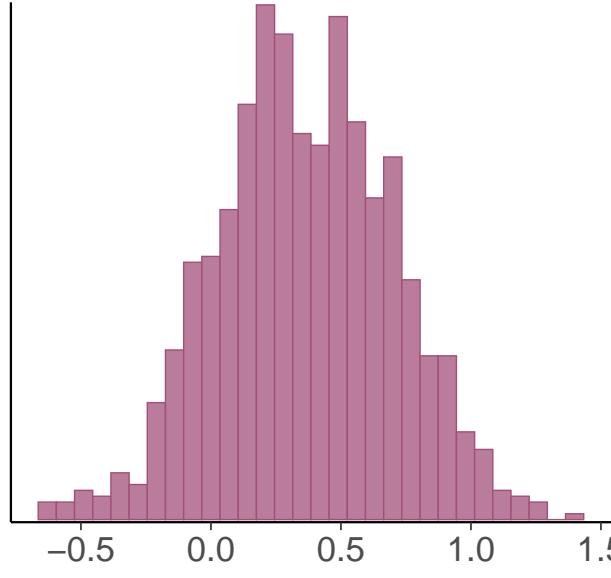
alpha



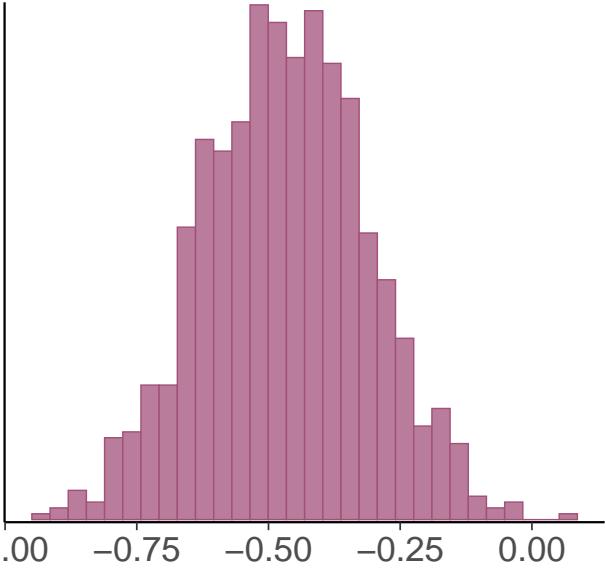
sigma



beta[1]

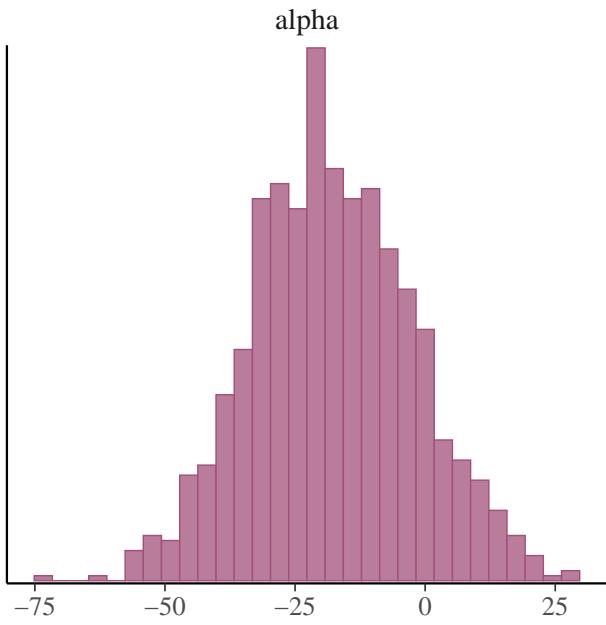


beta[2]

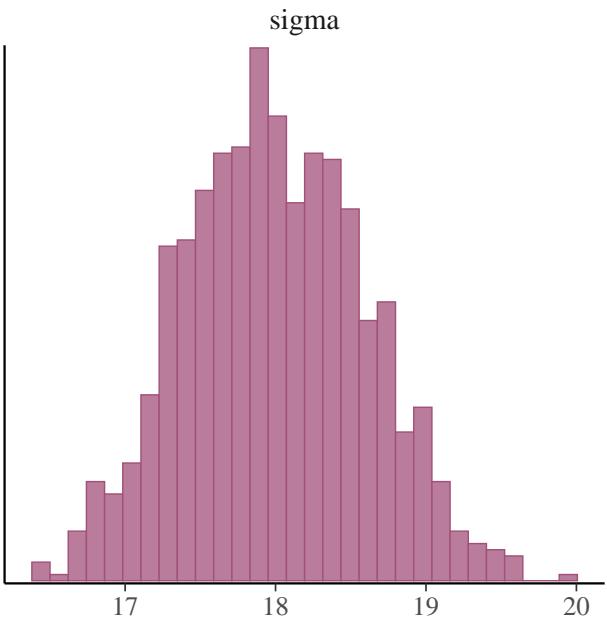


help("bayesplot_theme_get")

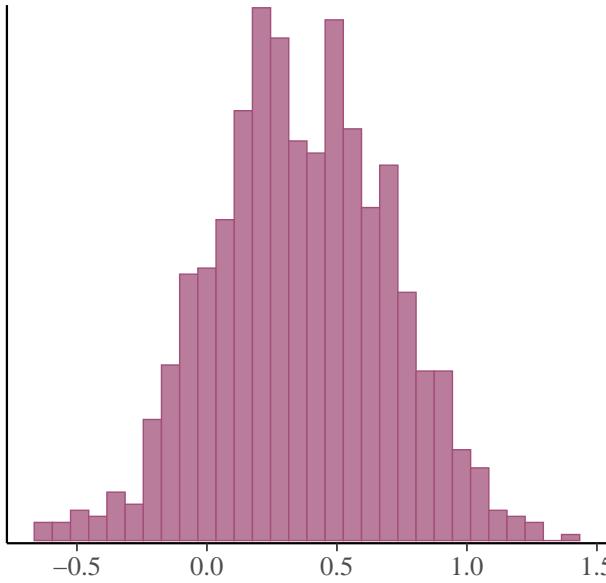
alpha



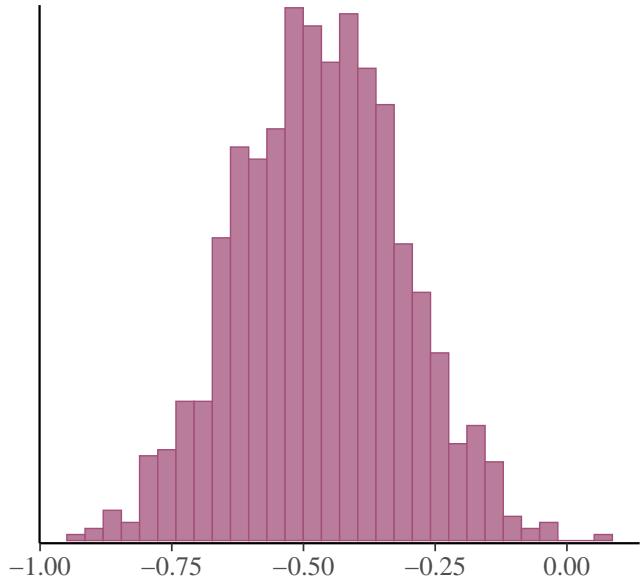
sigma



beta[1]

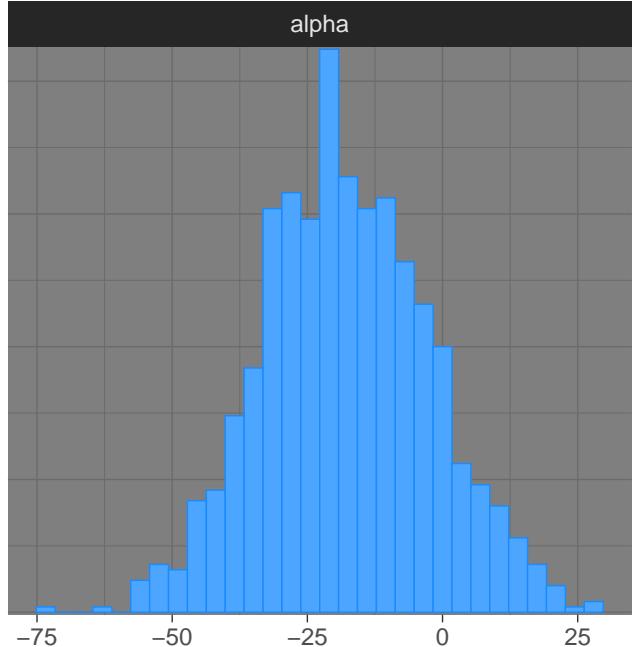


beta[2]

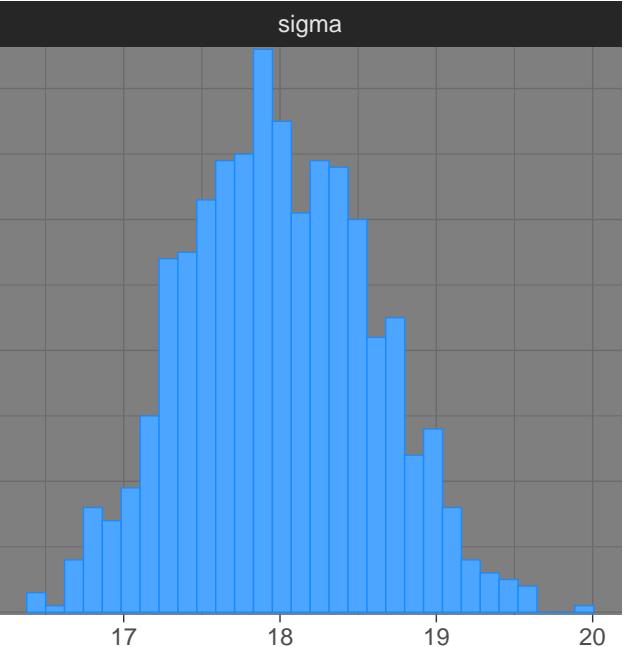


```
help("bayesplot_theme_get")
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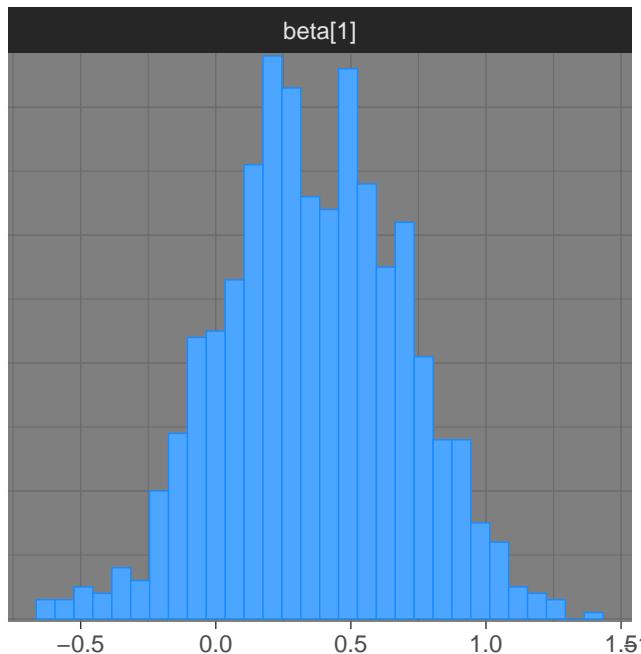
alpha



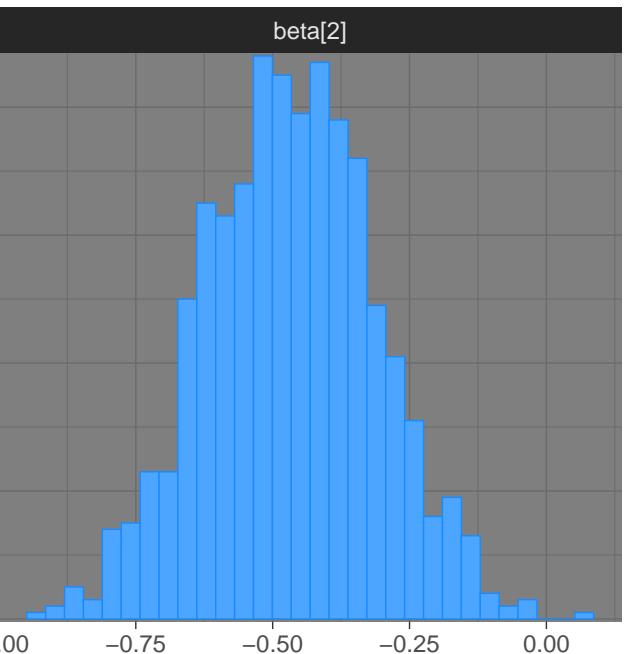
sigma



beta[1]

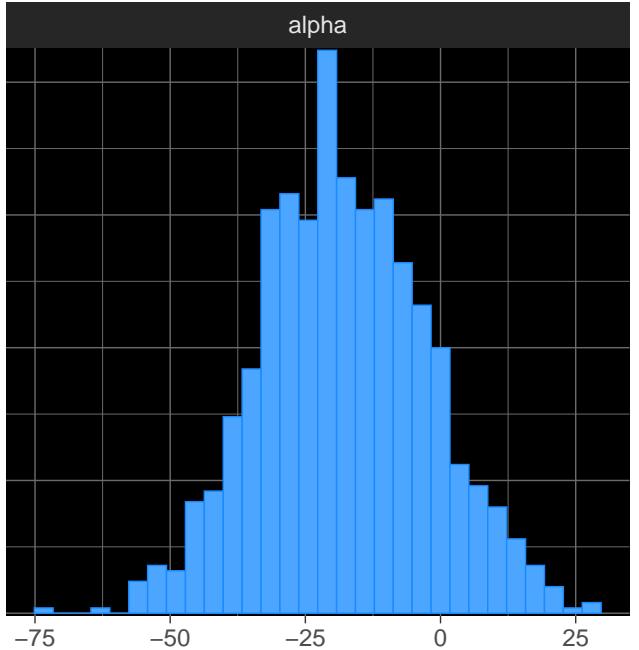


beta[2]

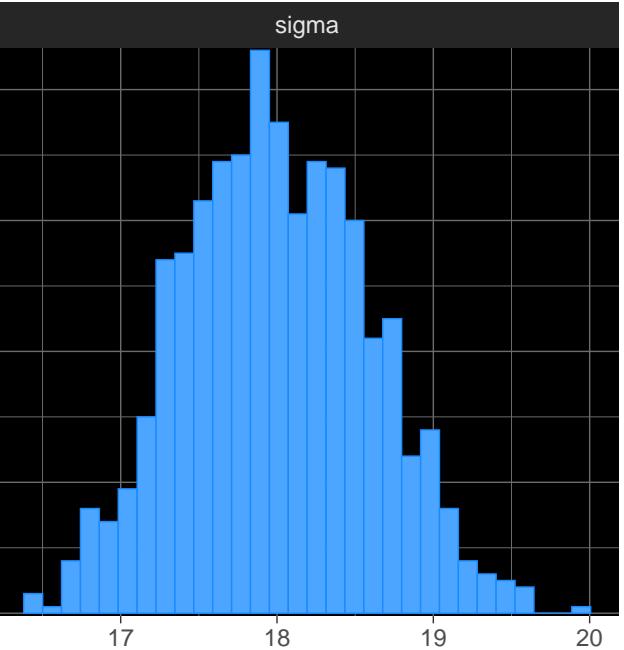


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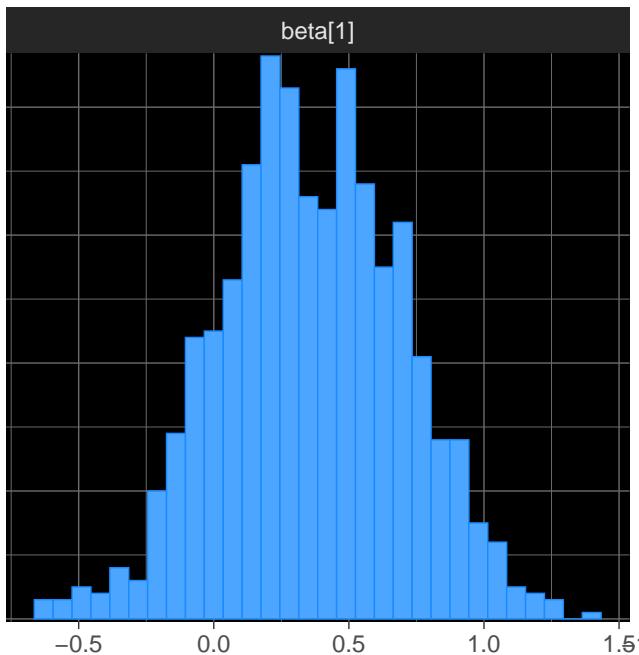
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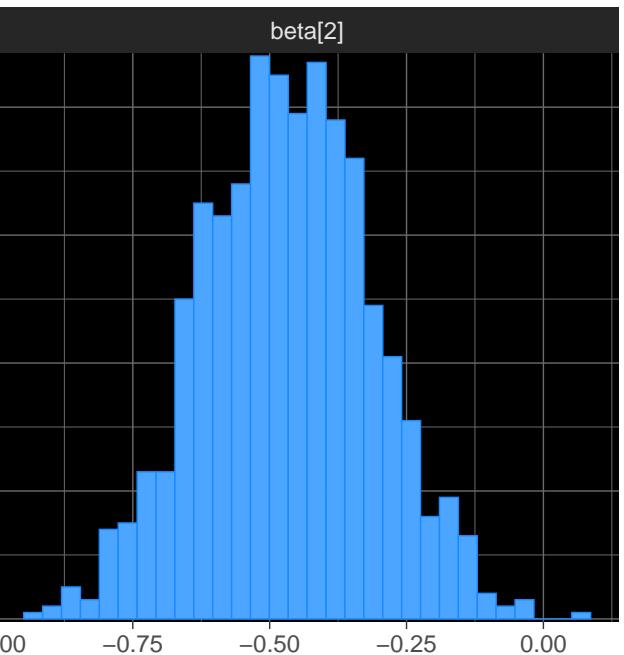
sigma



beta[1]

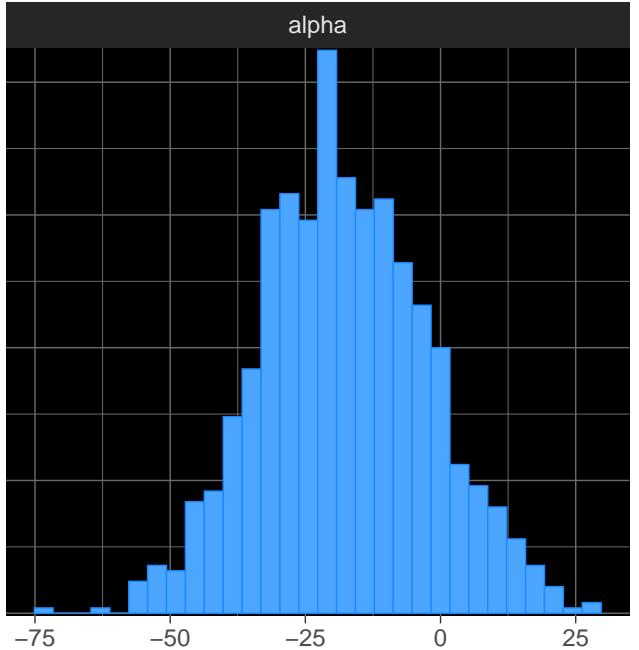


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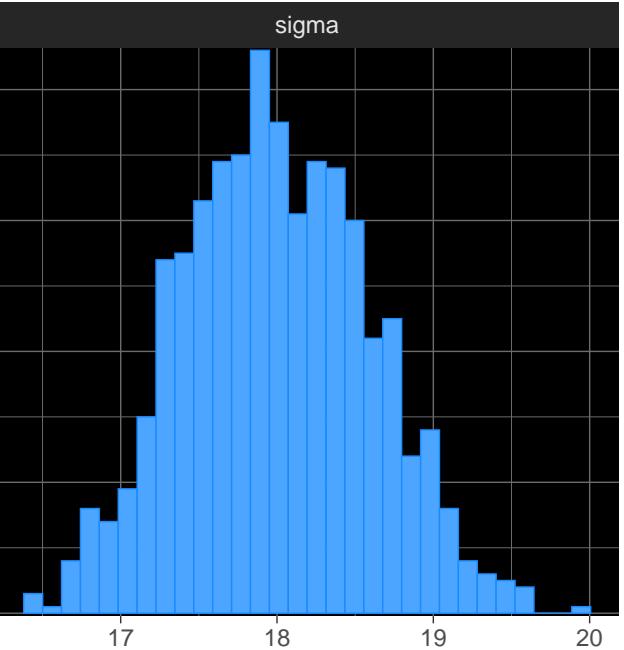


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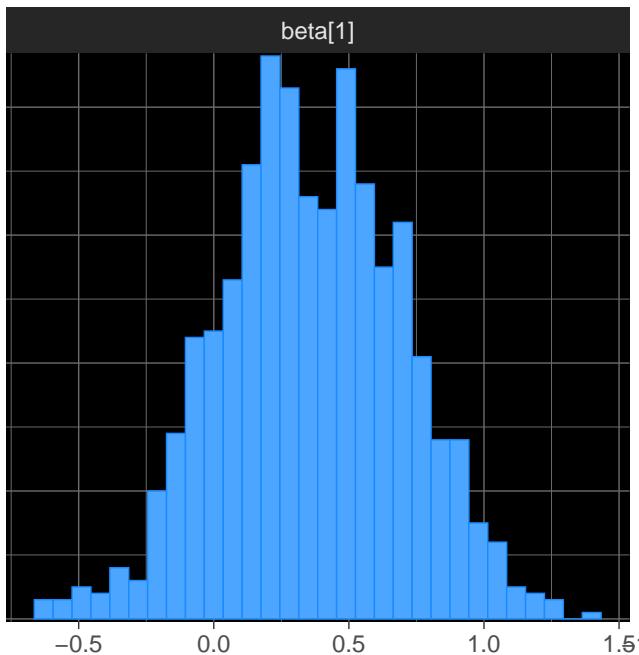
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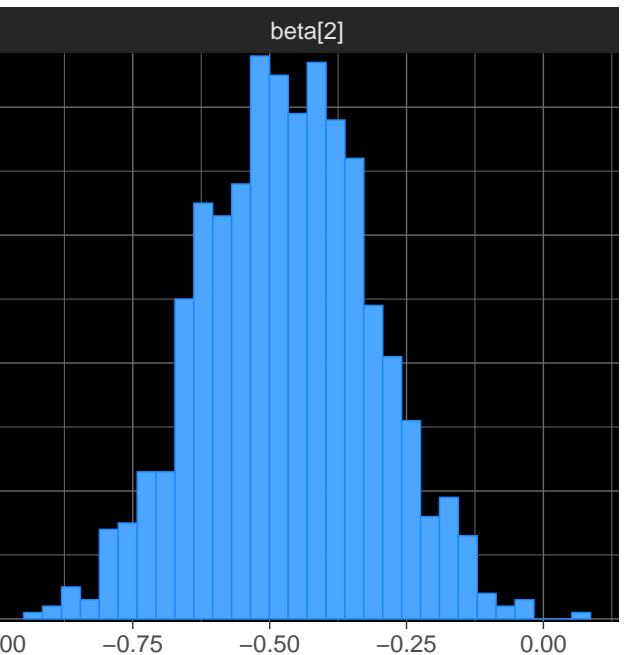
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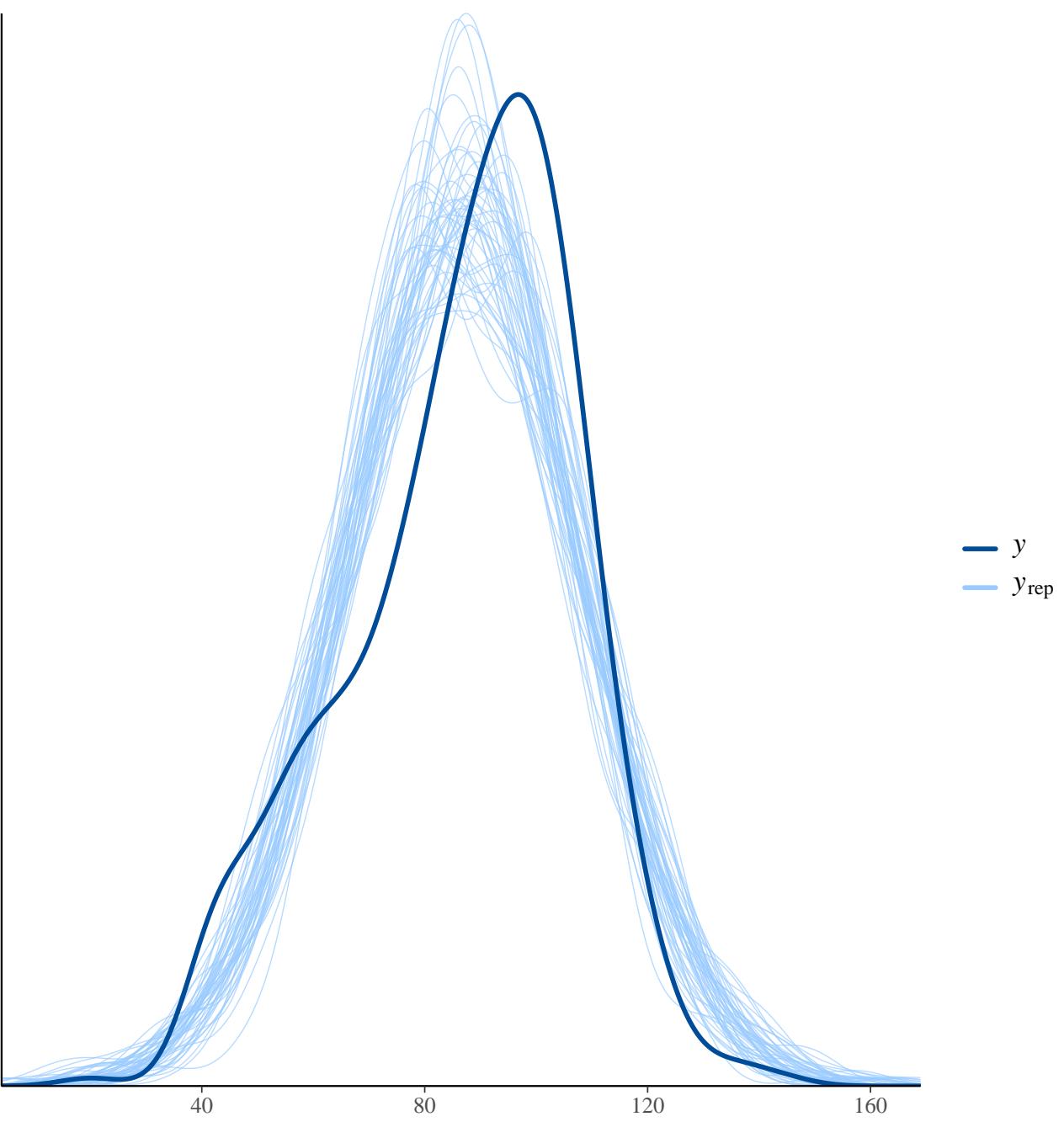
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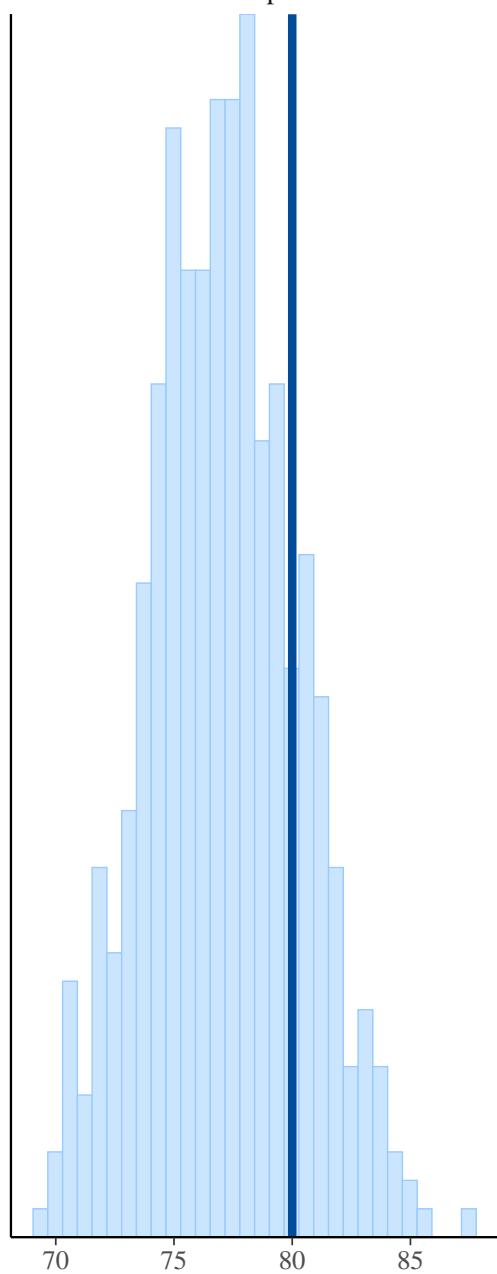
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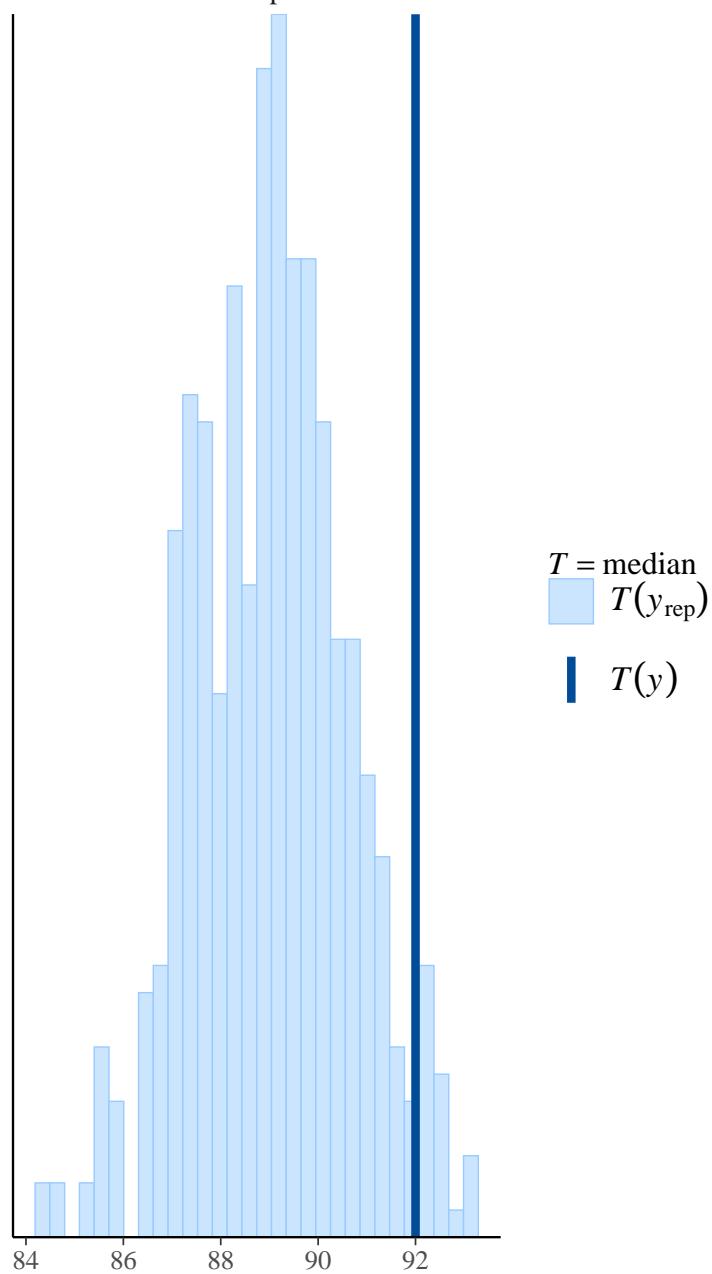
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GroupA

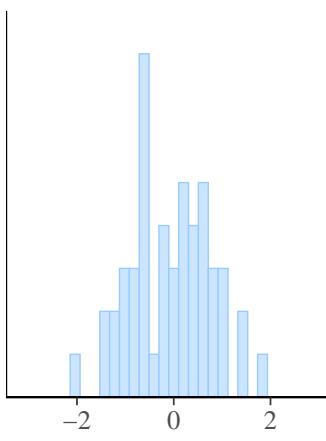
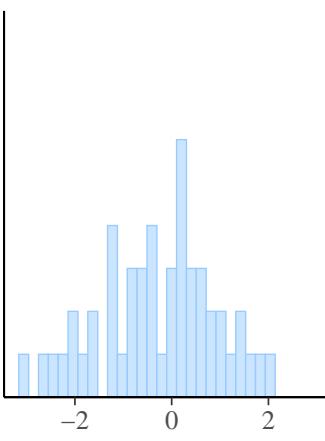
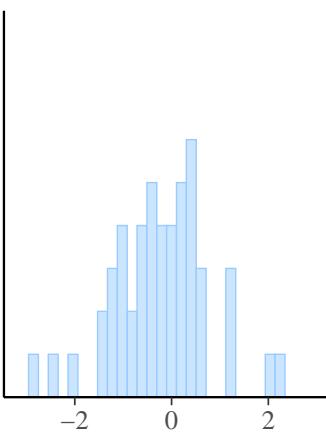
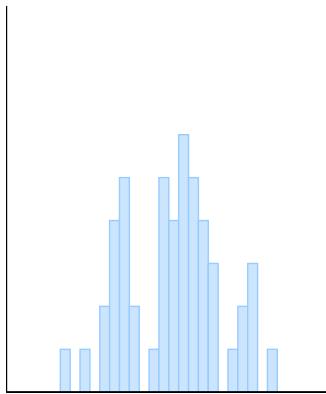
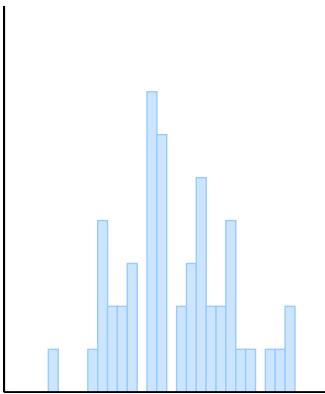
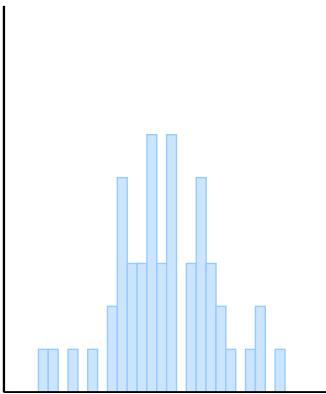
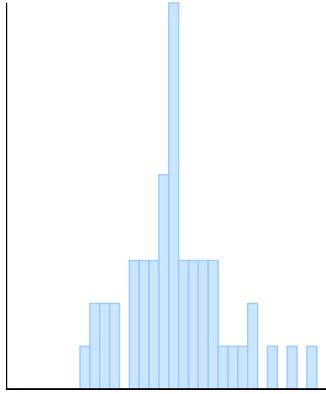
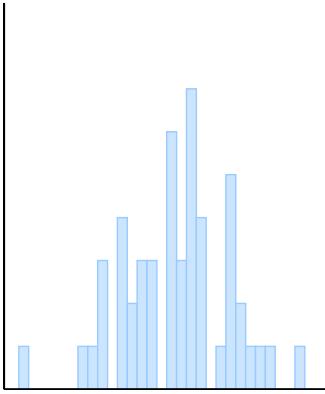
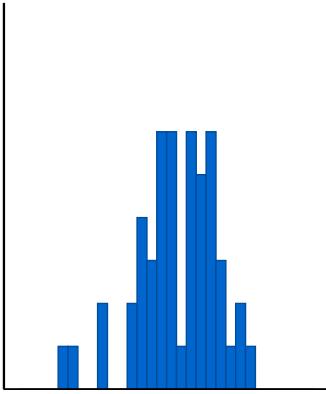


GroupB

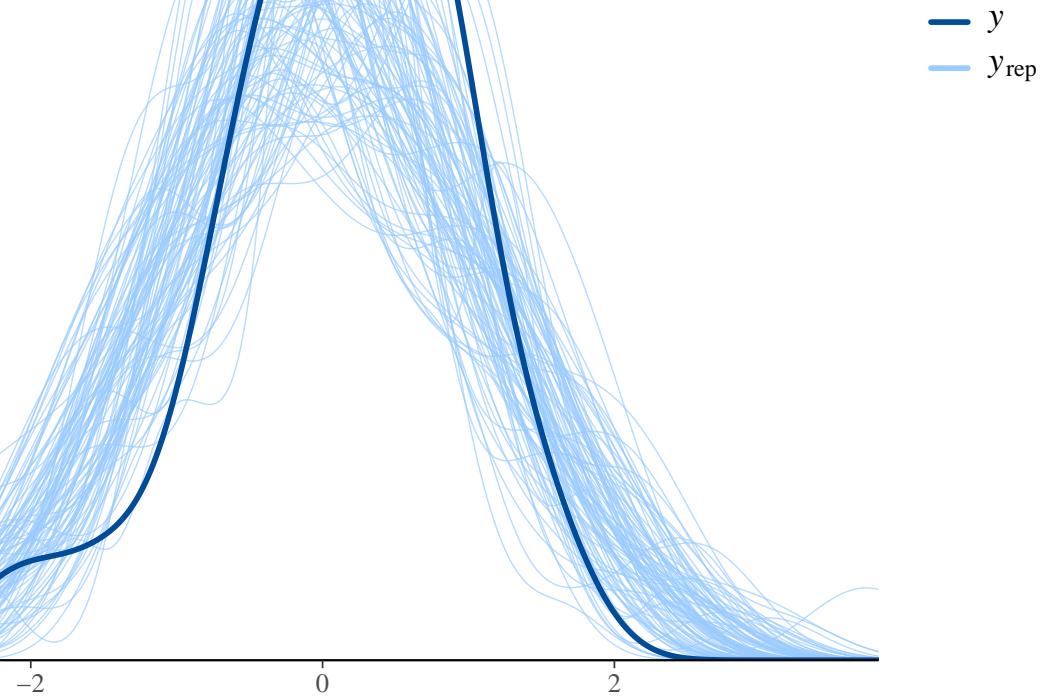


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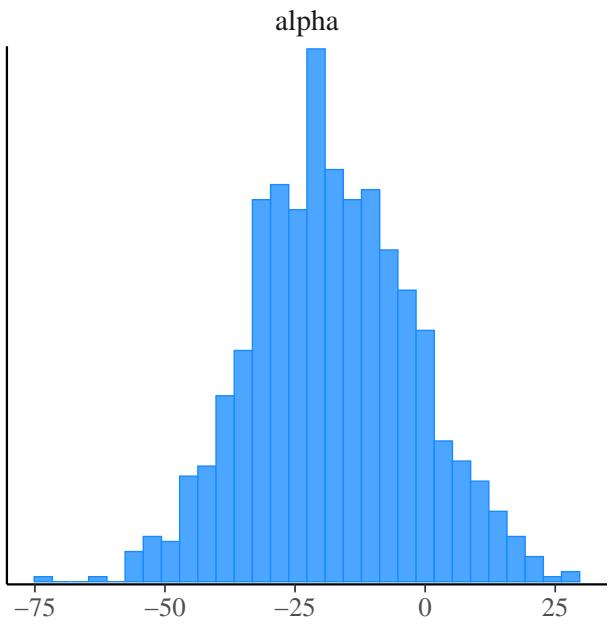
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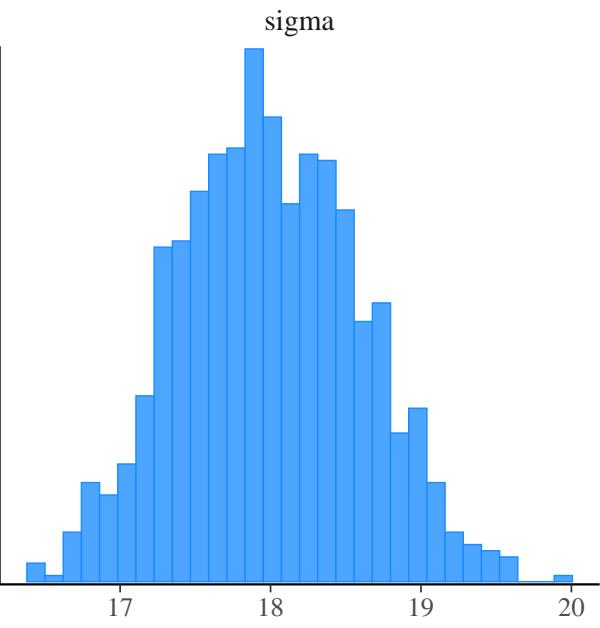
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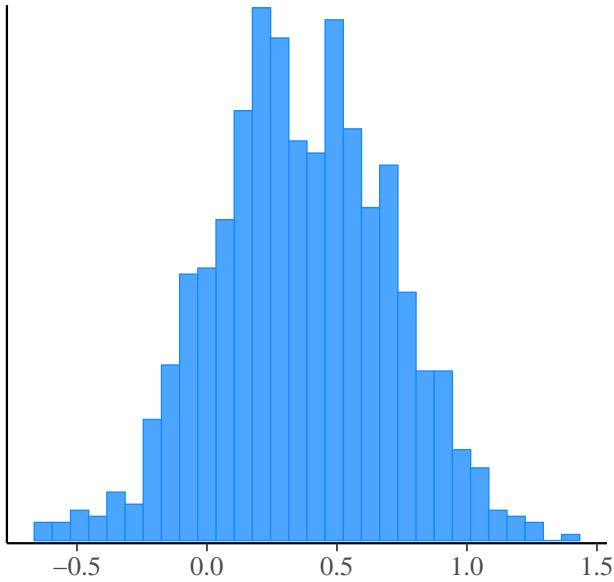
alpha



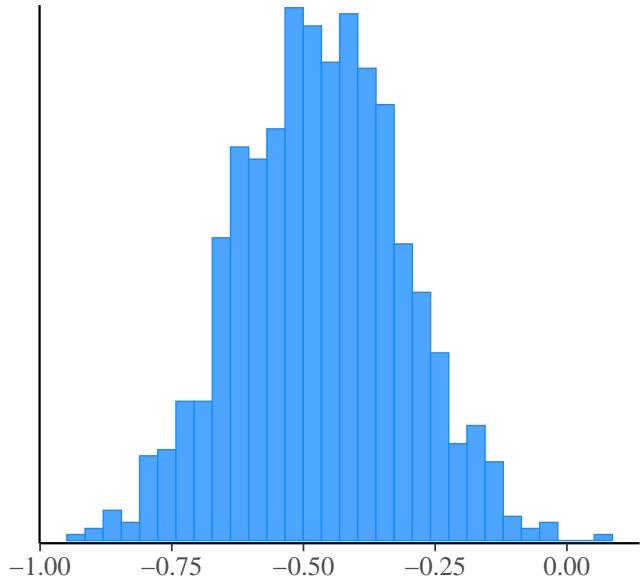
sigma



beta[1]

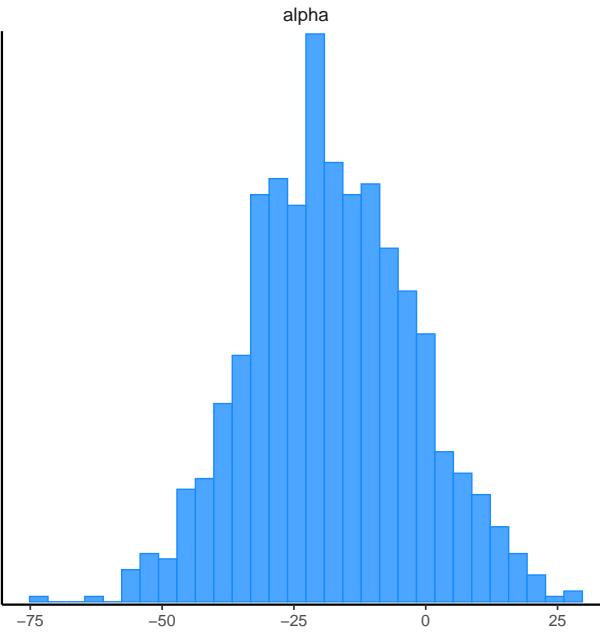


beta[2]

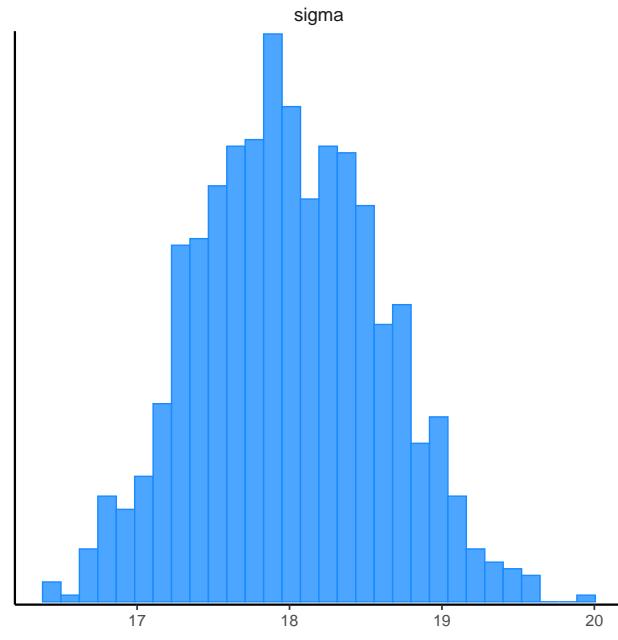


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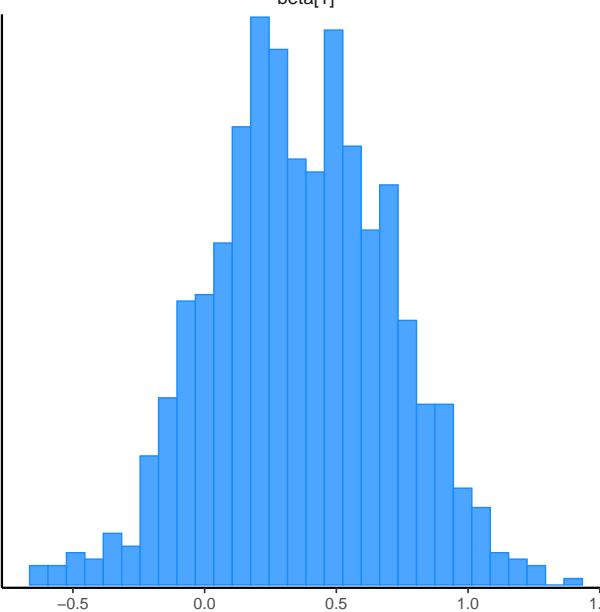
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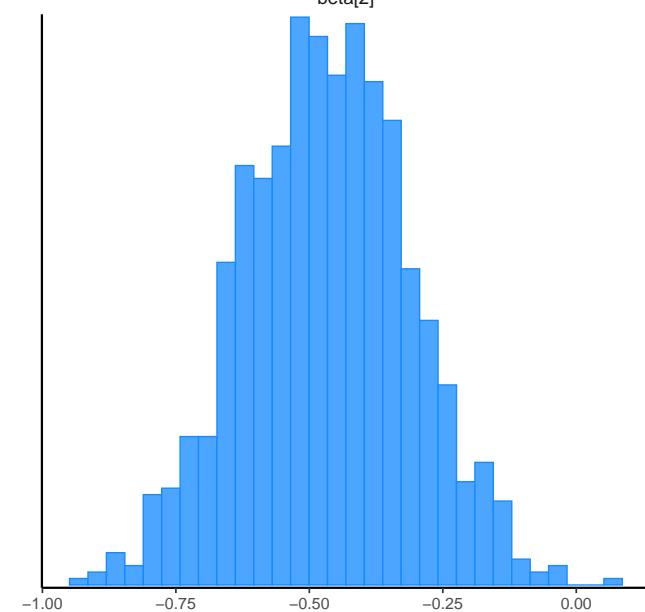
sigma



beta[1]

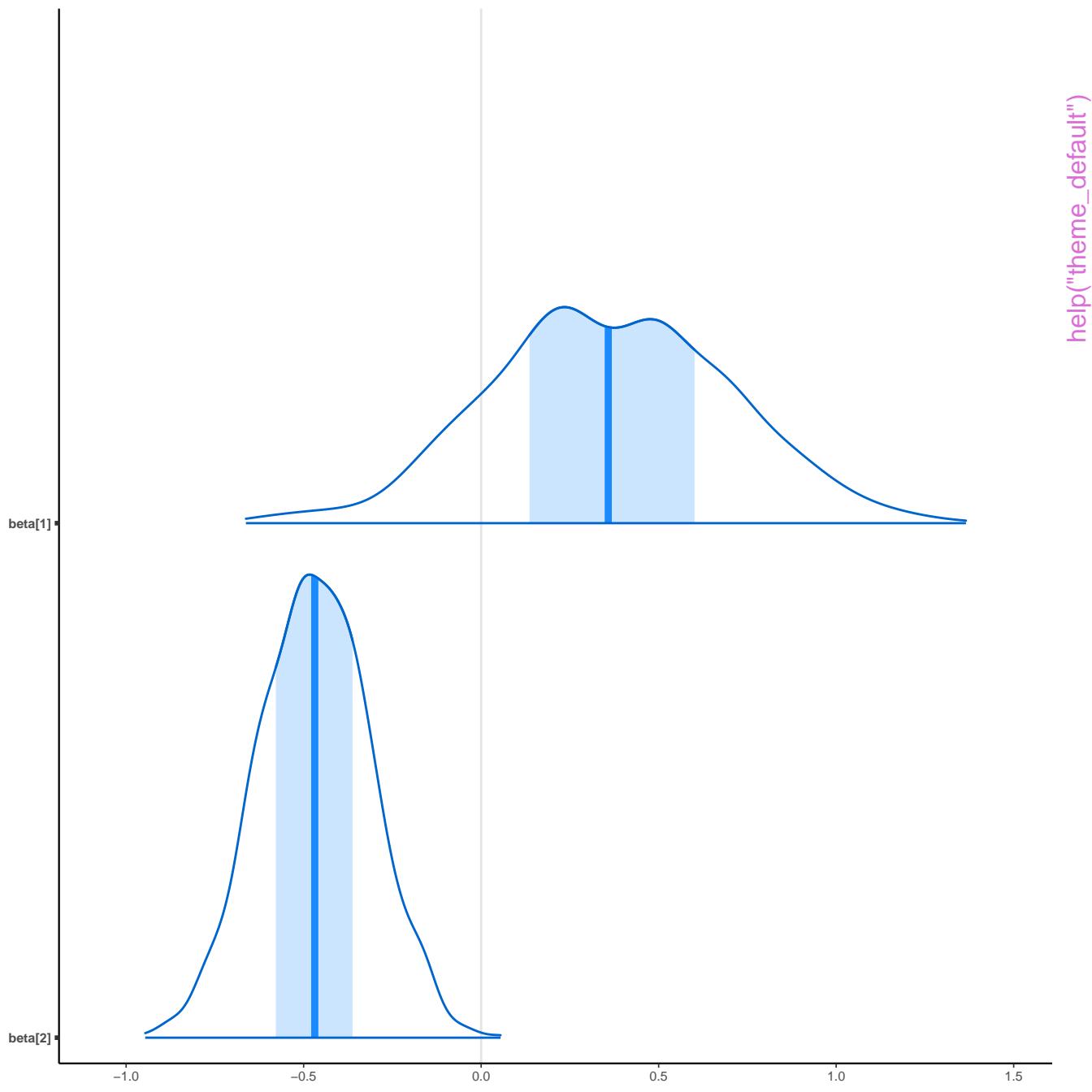


beta[2]

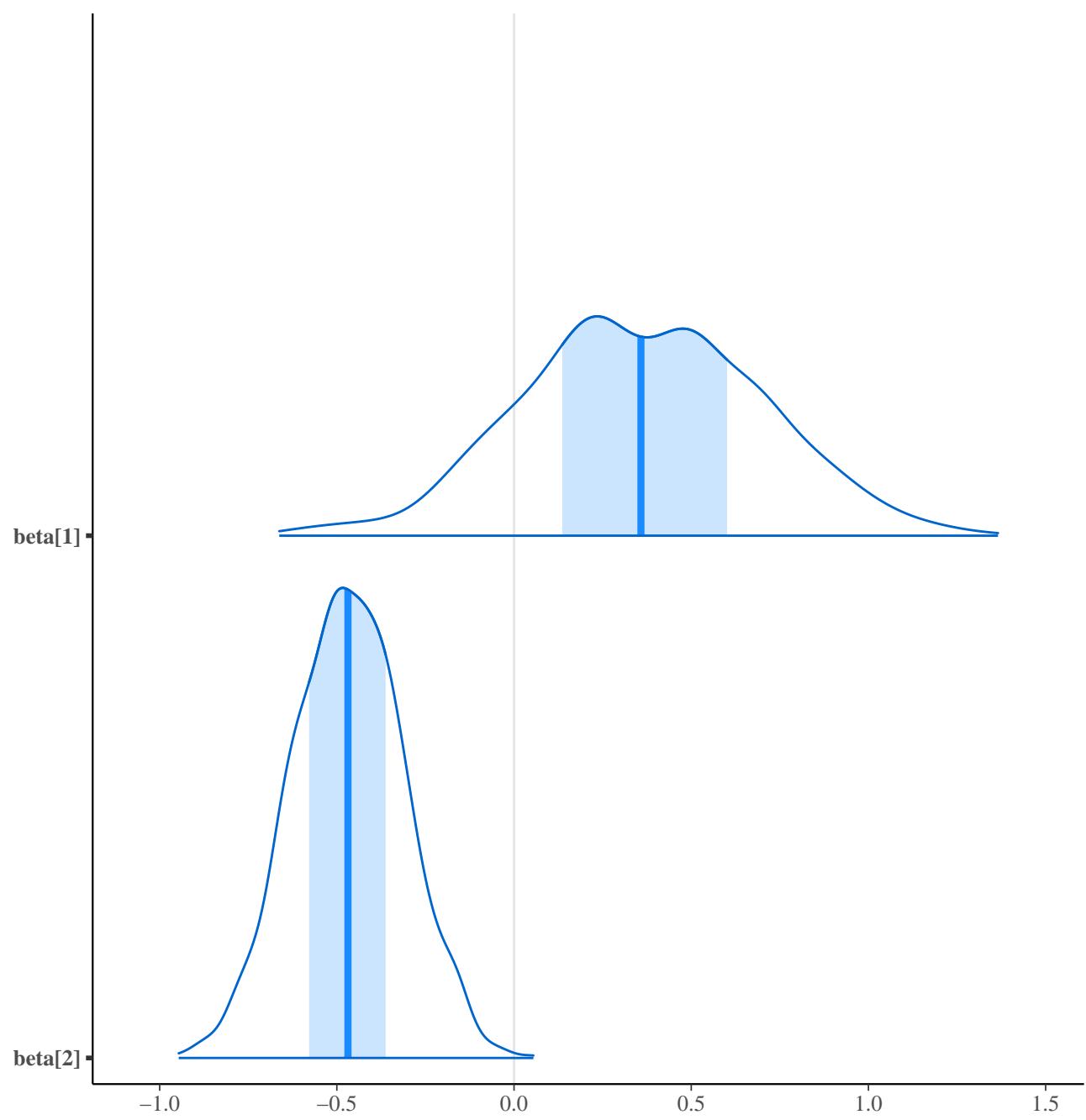


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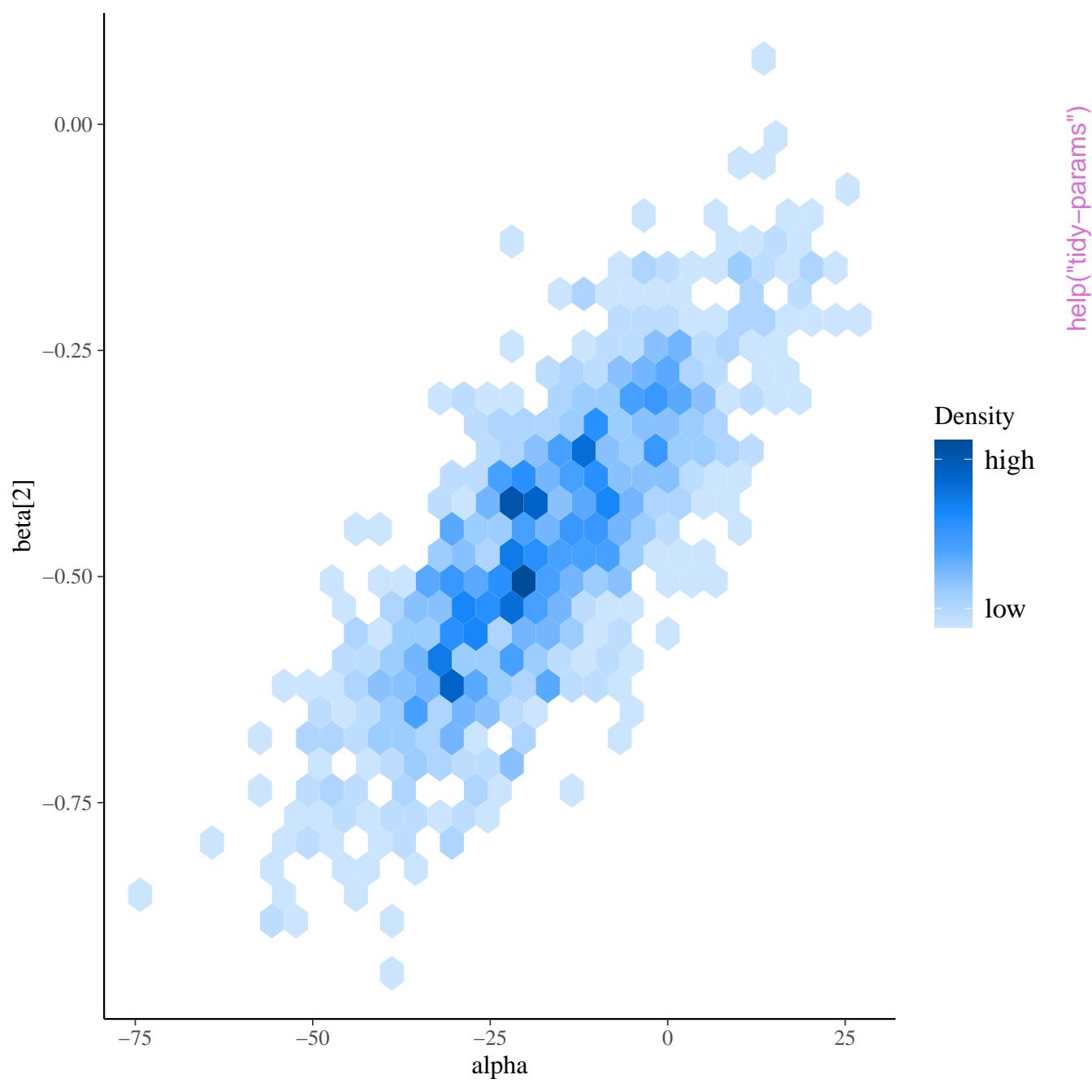
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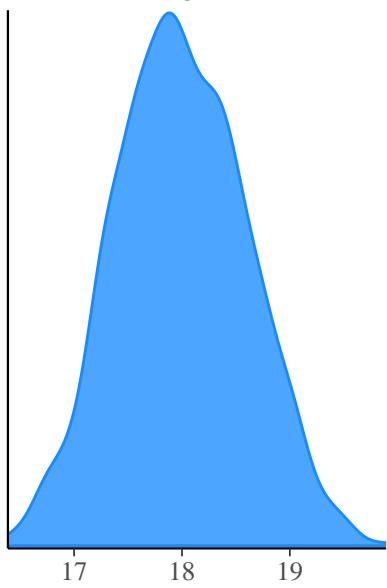
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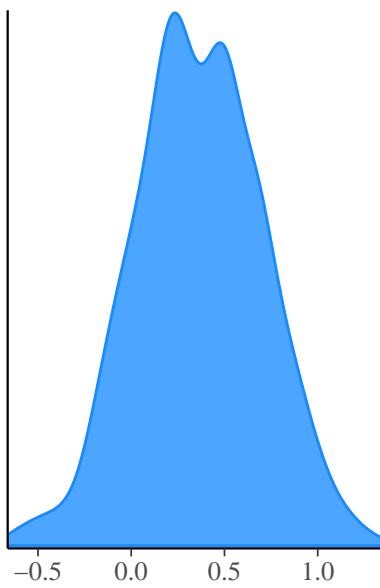
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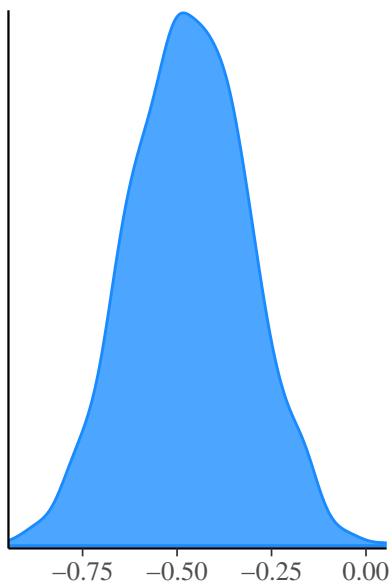
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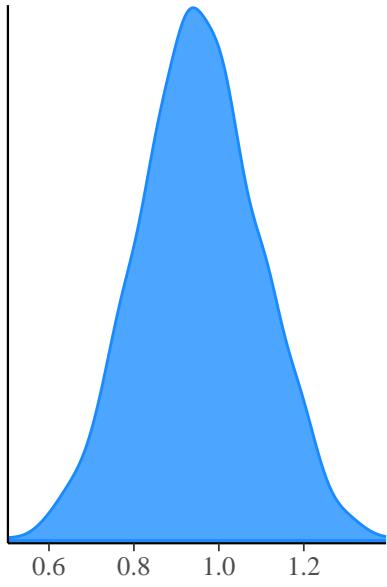
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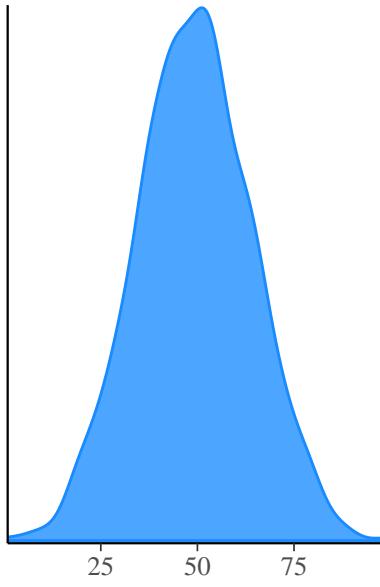
beta[2]



beta[3]

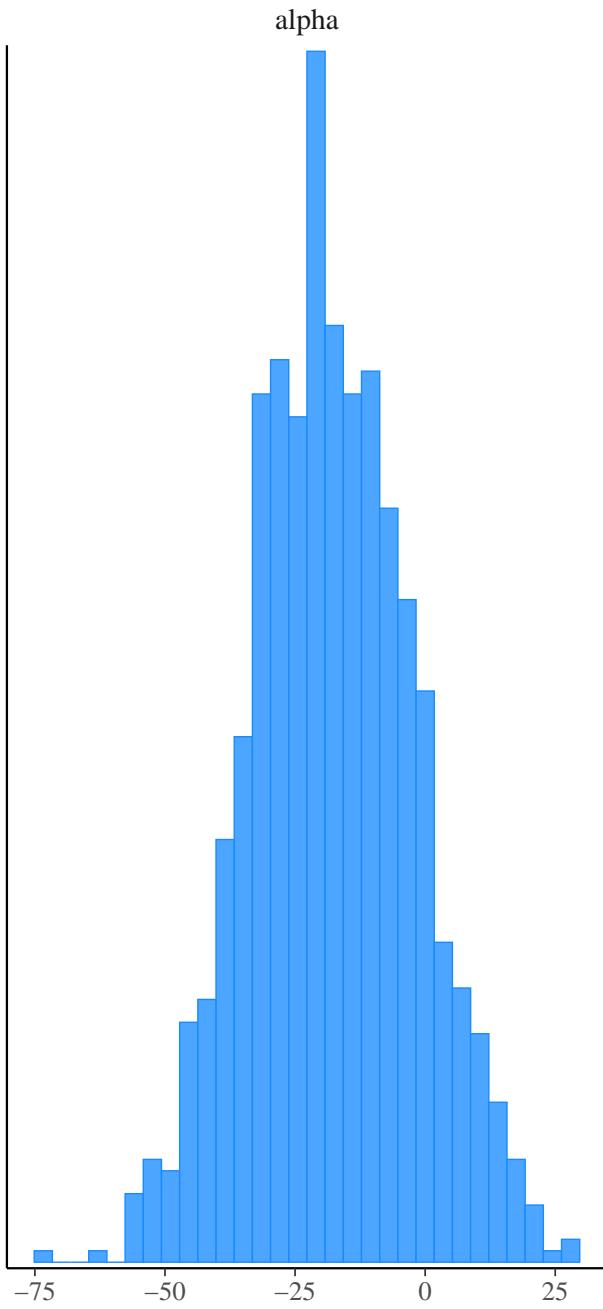


beta[4]

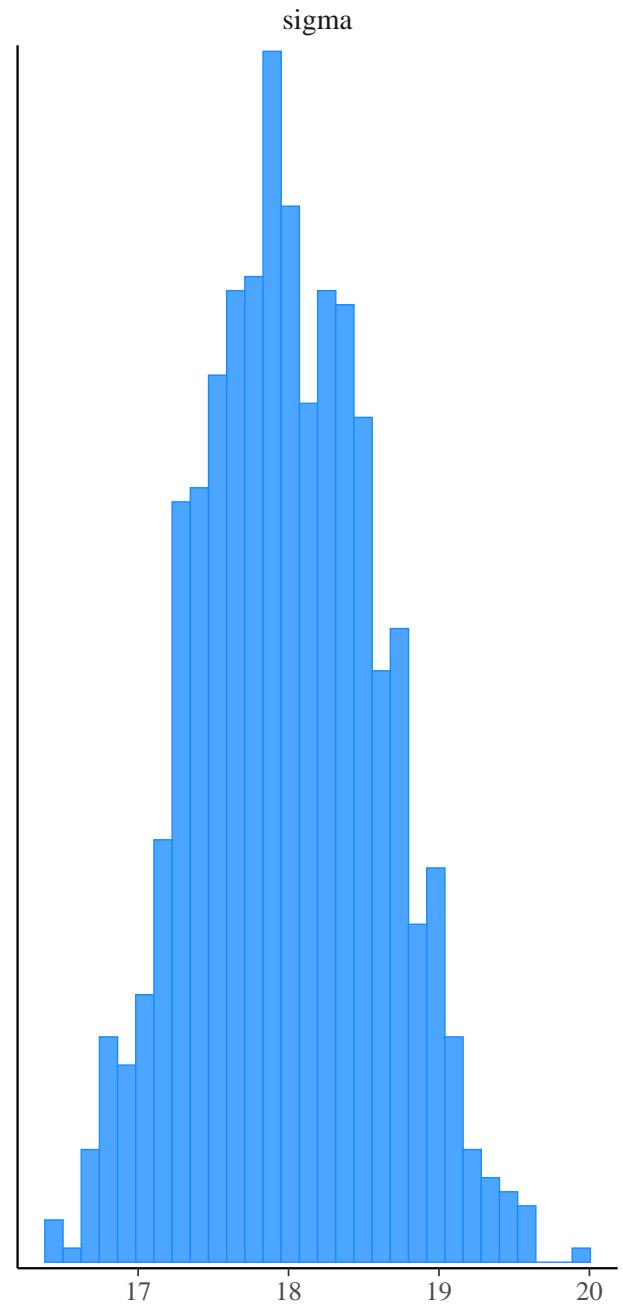


help("tidy-params")

alpha



sigma



help("tidy-params")

beta[1]

beta[3]

beta[4]

help("tidy-params")

