

Shortcut slab+interval geometries

The `stat_sample_slabinterval()` and `stat_dist_slabinterval()` stats are flexible meta-geometries for visualizing **sample data** or **analytical distributions**. With that flexibility comes a cost in remembering particular combinations of parameters that yield specific visualization types. Thus, `ggdist` also provides several **shortcut stats** with sensible default parameters:



This geometry uses these defaults:				
	mapping =	slab_type =	side =	justification =	normalize =
	<i>aesthetic mapping</i>	<i>function assigned to the computed aesthetic f</i>	<i>side to draw the slab on</i>	<i>position of interval relative to slab</i>	<i>What groups to normalize max height of slab thickness within</i>

`stat_sample_slabinterval()`
`stat_dist_slabinterval()`

`aes(thickness = f)`

"pdf"

"topright"

0

"all"



`stat_halfeye()`
`stat_dist_halfeye()`

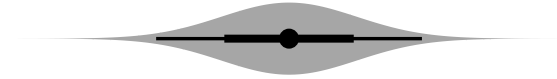
`aes(thickness = f)`

"pdf"

"topright"

0

"all"



`stat_eye()`
`stat_dist_eye()`

`aes(thickness = f)`

"pdf"

"both"

0

"all"



`stat_gradientinterval()`
`stat_dist_gradientinterval()`

`aes(slab_alpha = f)`

"pdf"

"topright"

0.5

"all"



`stat_histinterval()`

`aes(thickness = f)`

"histogram"

"topright"

0

"all"

`stat_cdfinterval()`
`stat_dist_cdfinterval()`

`aes(thickness = f)`

"cdf"

"topleft"

0.5

"none"



`stat_ccdfinterval()`
`stat_dist_ccdfinterval()`

`aes(thickness = f)`

"ccdf"

"topleft"

0.5

"none"

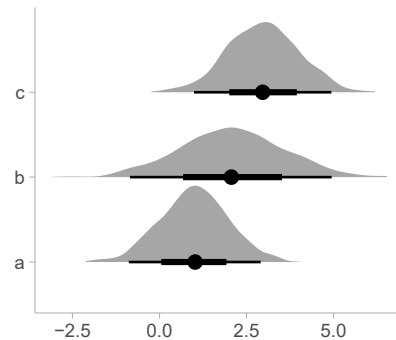


Example from `stat_sample_slabinterval()` sub-family

Using sample data

```
df = data.frame(
  group = c("a", "b", "c"),
  value = rnorm(
    3000,
    mean = c(1, 2, 3),
    sd = c(1, 1.5, 1)
  )
)
```

```
ggplot(df) +
  aes(y = group, x = value) +
  stat_halfeye()
```



Example from `stat_dist_slabinterval()` sub-family

Using analytical distributions

```
df = data.frame(
  group = c("a", "b", "c"),
  mean = c(1, 2, 3),
  sd = c(1, 1.5, 1)
)

ggplot(df) +
  aes(
    y = group,
    dist = dist_normal(mean, sd)
  ) +
  stat_dist_halfeye()
```

