SUMMARY STATISTICS



Use this cheat sheet to calculate statistical transformations on your data and display the results as geometric objects.

Use this for measures of center

Use this for measures of center and/or spread by explicitly setting the center, minimum, and maximum values

```
stat_summary(geom = <pointrange, linerange, errorbar, ribbon, crossbar>,
    fun = <mean, median, FUNCTION>,
    fun.min = <min, FUNCTION>,
    fun.max = <max, FUNCTION>,
    fun.args = list(<ARGS>),
    mapping = aes(<MAPPINGS>),
    position = <POSITIONING>,
    ...)
Use position_dodge() or
    position_dodge2() to dodge
geometric objects if necessary.
```

Use this for measures of center and/or spread by setting the center, minimum, and maximum values with a function

```
stat_summary(geom
                       = <pointrange, linerange, errorbar, ribbon, crossbar>,
              fun.data = <mean_cl_normal, mean_sdl, mean_se, mean_cl_boot, FUNCTION>,
              fun.args = list(<ARGS>),
              mapping = aes(<MAPPINGS>),
                                                                                                  99% Confidence interval
              position = <POSITIONING>,
                                                                                                  stat_summary(fun.data = mean_cl_normal,
              ...)
                                                                                                               fun.args = list(conf.int = .99),
 One standard deviation
                                                                                                  Boootstraped confidence interval with 2000 bootstraps
                                                 One standard error
 stat_summary(fun.data = mean_sdl,
                                                                                                  stat_summary(fun.data = mean_cl_boot,
                                                 stat_summary(fun.data = mean_se,
                                                                                                               fun.args = list(B = 2000),
              fun.args = list(mult = 1),
                                                              fun.args = list(mult = 1),
```

