Adding error bars to a plot using ggplot2::qplot()

"+" goes between qplot() and geom_errorbar()

Comma!

```
qplot(y = mean.bar.top,
      x = category,
      data = df) +
  geom_errorbar(aes(ymin = error.bar.bottom,
                    ymax = error.bar.top))
```
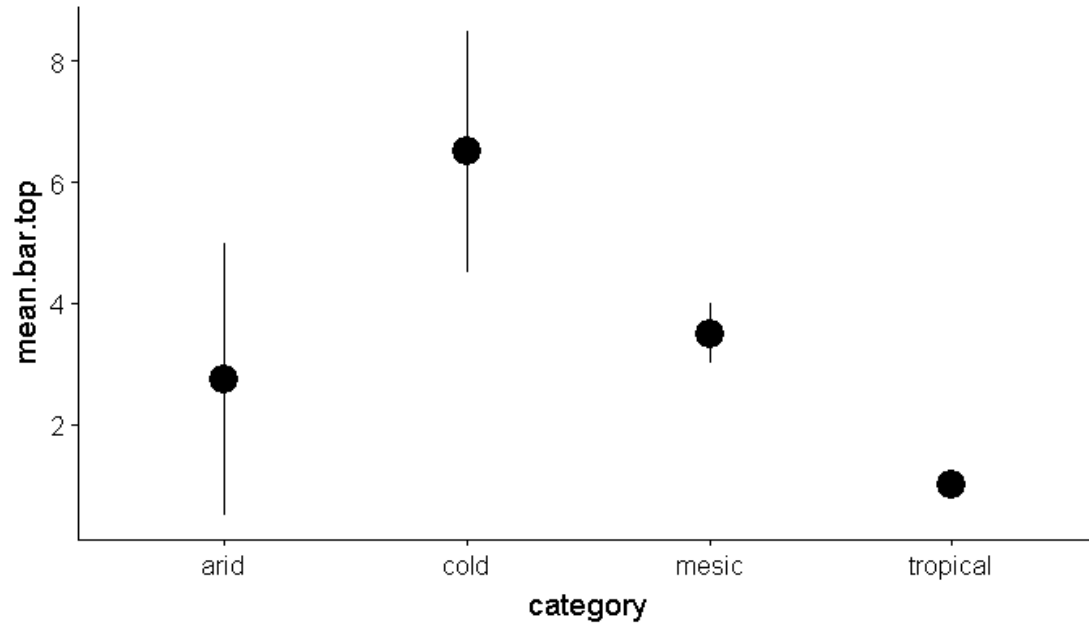
Add-on function that makes error bars

Argument aes() to set up the min and max

2 parentheses! One for aes(), The other for geom_errorbar()

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Make points bigger

"+" goes between qplot() and geom_errorbar()
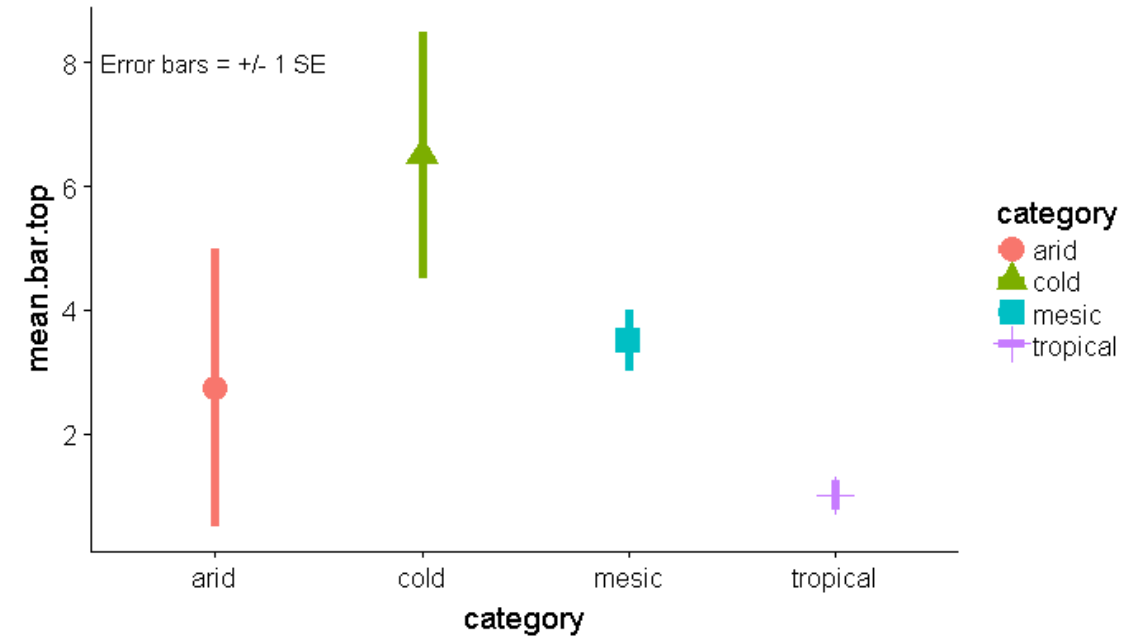
```
qplot(y = mean.bar.top,
      x = category,
      data = df) +
geom_errorbar(aes(ymin = error.bar.bottom,
                  ymax = error.bar.top),
                  width = 0)  +
geom_point(size = 6)
```

Another "+"

New geom to modify size of points

Changing colors & annotating

Change color

Change shape

```
qplot(y = mean.bar.top,
      x = category,
      color= category,
      shape = category,
      data = df) +
geom_errorbar(aes(ymin = error.bar.bottom,
                  ymax = error.bar.top).
                  width = 0,
                  size = 2)  +
geom_point(size = 5) +
annotate("text", x = 1, y = 8,
         label = "Error bars = +/- 1 SE")
```

Another "+"

And another "+"

Add annotation with in plot with annotate()

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