

6: Factors with forcats

Suppose we have the following toy data set, named `df`, on the categorical variable `cat1` and the quantitative variable `x`.

cat	x	cat1	cat2
A	2	newA	AB
B	-1	newB	AB
C	14	newC	C

- Change the names of factor levels with `fct_recode()`:

```
df %>% mutate(cat1 = fct_recode(cat, newA = "A",
                                newB = "B",
                                newC = "C"))
```

- Collapse many levels of a factor into fewer levels with `fct_collapse()`

```
df %>% mutate(cat2 = fct_collapse(cat,
                                    AB = c("A", "B"),
                                    C = "C"))
```

- Order levels of a factor by a quantitative variable with `fct_reorder()`:

```
df %>% mutate(cat3 = fct_reorder(cat, x))
```

levels: "B", "A", "C"

levels of cat: "A", "B", "C"

- Manually order the levels of a factor with `fct_relevel()`:

```
df %>% mutate(cat4 = fct_relevel(cat, c("C", "A", "B")))
```

levels: "C", "A", "B"

useful for
barplots &
side by side
barplots