

factors-recode

1. Ordering of factors

1.1 Using `fct_inorder()`

```
sch0 <- factor(c("SBIZ", "NSHD", "SHBS", "SST", "SLAW"))
sch0
```

```
[1] SBIZ NSHD SHBS SST  SLAW
Levels: NSHD SBIZ SHBS SLAW SST
```

- the `Levels` default to an alphabetical sequence, but
- now I want to list factors `Levels` by the order in which they first appear
- `sch1` `Levels` will now follow the sequence of `sch0` (i.e. `SBIZ..`)

```
library(tidyverse) #include forcats
sch1 <- fct_inorder(sch0)
sch1
```

```
[1] SBIZ NSHD SHBS SST  SLAW
Levels: SBIZ NSHD SHBS SST SLAW
```

- or I can re-factor `sch0` again by making the `Levels` unique to `sch0`

```
sch2 <- factor(sch0, levels=unique(sch0))
sch2
```

```
[1] SBIZ NSHD SHBS SST  SLAW
Levels: SBIZ NSHD SHBS SST SLAW
```

- thirdly, you can factor and specify the order of `Levels`
- (which is probably the most direct way)

```
sch3 <- factor(c("SBIZ","NSHD","SHBS","SST","SLAW"),
               levels=c("SBIZ","NSHD","SHBS","SST","SLAW"))
sch3
```

```
[1] SBIZ NSHD SHBS SST SLAW
Levels: SBIZ NSHD SHBS SST SLAW
```

2. Renaming Factors

```
df<-tribble(
  ~Dept, ~Views,
  "Learning Systems and Applications", 2349,
  "Student Support", 683,
  "Student Support", 697,
  "Student Support", 534,
  "Teaching and Learning Center", 345,
  "School of Humanities and Behavioral Sciences", 324,
  "Digital Library Services", 223
)
df
```

```
# A tibble: 7 x 2
  Dept                               Views
  <chr>                             <dbl>
1 Learning Systems and Applications    2349
2 Student Support                      683
3 Student Support                      697
4 Student Support                      534
5 Teaching and Learning Center         345
6 School of Humanities and Behavioral Sciences 324
7 Digital Library Services             223
```

```
df$Dept <- as.factor(df$Dept) # change chr to factor
levels(df$Dept)
```

```
[1] "Digital Library Services"
[2] "Learning Systems and Applications"
[3] "School of Humanities and Behavioral Sciences"
[4] "Student Support"
[5] "Teaching and Learning Center"
```

```
df$Dept <- fct_recode(df$Dept,
  DLS="Digital Library Services",
  LSA = "Learning Systems and Applications",
  SHBS = "School of Humanities and Behavioral Sciences",
  TLC = "Teaching and Learning Center",
  SS = "Student Support")
df
```

```
# A tibble: 7 x 2
  Dept Views
  <fct> <dbl>
1 LSA    2349
2 SS      683
3 SS      697
4 SS      534
5 TLC     345
6 SHBS    324
7 DLS     223
```

```
df$Dept
```

```
[1] LSA  SS   SS   SS   TLC  SHBS DLS
Levels: DLS LSA SHBS SS TLC
```