

SOC 4930/5050: Week 16 R Functions

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Packages

- `janitor`¹
- `stats`

¹ You *must* use the development version of `janitor` that is available through GitHub. The CRAN version does not support two-way tables currently.

Contingency Tables

One-way Table

```
janitor::tabyl(.data, varName)
```

Two-way Table

```
janitor::tabyl(.data, xvar, xvar)
```

Optional Adornment: Adding Totals

```
janitor::adorn_totals(where = position)2
```

² Use in a pipeline *after* `tabyl()` but *before* other adornment functions.

Optional Adornment: Adding Percentages

```
janitor::adorn_percentages(denominator = pctType)3
```

³ Use in a pipeline *after* `tabyl()` and (if used) `adorn_totals()`.

Optional Adornment: Adding Percentages

```
janitor::adorn_pct_formatting(digits = val)4
```

⁴ Use in a pipeline *after* `tabyl()` and (if used) `adorn_totals()`.

Optional Adornment: Adding Frequencies

```
janitor::adorn_ns(position = position)5
```

⁵ Use in a pipeline *after* `tabyl()` and (if used) `adorn_totals()`.

Chi-Squared

Chi-Squared Test

```
stats::chi.square(xvar, xvar)
```

Expected Frequencies

```
modelObj <- stats::chi.square(xvar, xvar)  
modelObj$expected
```

Fisher's Exact Test

```
stats::fisher.test(xvar, xvar, simulate.p.value = TRUE)
```