

SOC 4015/5050: Lecture 16 Functions

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Packages

- janitor
- stats

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)1
```

¹ Use in a pipeline *after* `tabyl()` but *before* other adornment functions.

Optional Adornment: Adding Percentages

```
janitor::adorn_percentages(denominator = pctType)2
```

² Use in a pipeline *after* `tabyl()` and (if used) `adorn_totals()`.

Optional Adornment: Adding Percentages

```
janitor::adorn_pct_formatting(digits = val)3
```

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

Optional Adornment: Adding Frequencies

```
janitor::adorn_ns(position = position)4
```

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

Chi-Squared

Chi-Squared Test

```
stats::chisq.test(xvar, xvar)
```

Expected Frequencies

```
modelObj <- stats::chisq.test(xvar, xvar)  
modelObj$expected
```

Full Workflow

```
(modelObj <- stats::chisq.test(xvar, xvar))
```

Fisher's Exact Test

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