

tabdisp — Display tables

[Description](#)[Syntax](#)[Options](#)[Remarks and examples](#)[Also see](#)

Description

`tabdisp` displays data in a table. `tabdisp` calculates no statistics and is intended for use by programmers.

For the corresponding command that calculates statistics and displays them in a table, see [\[R\] table](#).

Although `tabdisp` is intended for programming applications, it can be used interactively for listing data.

Syntax

```
tabdisp rowvar [colvar [supercolvar]] [if] [in], cellvar(varnames)
      [by(superrowvars) format(%fmt) center left concise missing totals
      dotz cellwidth(#) csepwidth(#) scsepwidth(#) stubwidth(#)]
```

`by` is allowed; see [\[D\] by](#).

`rowvar`, `colvar`, and `supercolvar` may be numeric or string variables. Rows, columns, supercolumns, and superrows are thus defined as

| | |
|-------|---|
| | |
| row 1 | . |
| row 2 | . |

| | | | |
|-------|---|---|---|
| | | | |
| | | | |
| row 1 | . | . | . |
| row 2 | . | . | . |

| | | | |
|-------|---|---|---|
| | | | |
| | | | |
| row 1 | . | . | . |
| row 2 | . | . | . |

| | | | | | |
|-------------|---|---|---|---|---|
| | | | | | |
| | | | | | |
| superrow 1: | | | | | |
| row 1 | . | . | . | . | . |
| row 2 | . | . | . | . | . |
| superrow 2: | | | | | |
| row 1 | . | . | . | . | . |
| row 2 | . | . | . | . | . |

Options

`cellvar(varnames)` is required; it specifies the numeric or string variables containing the values to be displayed in the table's cells. Up to five variable names may be specified.

`by(superrowvars)` specifies numeric or string variables to be treated as superrows. Up to four variables may be specified.

`format(%fmt)` specifies the display format for presenting numbers in the table's cells. `format(%9.0g)` is the default; `format(%9.2f)` is a popular alternative. The width of the format you specify does not matter, except that *%fmt* must be valid. The width of the cells is chosen by `tabdisp` to be what it thinks looks best. The `cellwidth()` option allows you to override `tabdisp`'s choice.

`center` specifies that results be centered in the table's cells. The default is to right-align results. For centering to work well, you typically need to specify a display format as well. `center format(%9.2f)` is popular.

`left` specifies that column labels be left-aligned. The default is to right-align column labels to distinguish them from supercolumn labels, which are left-aligned. If you specify `left`, both column and supercolumn labels are left-aligned.

`concise` specifies that rows with all missing entries not be displayed.

`missing` specifies that, in cells containing missing values, the missing value (`.`, `.a`, `.b`, `...`, or `.z`) be displayed. The default is that cells with missing values are left blank.

`totals` specifies that observations where `rowvar`, `colvar`, `supercolvar`, or `superrowvars` contain the system missing value (`.`) be interpreted as containing the corresponding totals of `cellvar()`, and that the table be labeled accordingly. If the `dotz` option is also specified, observations where the stub variables contain `.z` will be thus interpreted.

`dotz` specifies that the roles of missing values `.` and `.z` be interchanged in labeling the stubs of the table. By default, if any of `rowvar`, `colvar`, `supercolvar`, and `superrowvars` contains missing (`.`, `.a`, `.b`, `...`, or `.z`), then `.` is placed last in the ordering. `dotz` specifies that `.z` be placed last. Also, if option `totals` is specified, `.z` values rather than `.` values will be labeled "Total".

`cellwidth(#)` specifies the width of the cell in units of digit widths; 10 means the space occupied by 10 digits, which is 0123456789. The default `cellwidth()` is not a fixed number but rather a number chosen by `tabdisp` to spread the table out while presenting a reasonable number of columns across the page.

`csepwidth(#)` specifies the separation between columns in units of digit widths. The default is not a fixed number but rather a number chosen by `tabdisp` according to what it thinks looks best.

`ssepwidth(#)` specifies the separation between supercolumns in units of digit widths. The default is not a fixed number but rather a number chosen by `tabdisp` according to what it thinks looks best.

`stubwidth(#)` specifies the width, in units of digit widths, to be allocated to the left stub of the table. The default is not a fixed number but rather a number chosen by `tabdisp` according to what it thinks looks best.

Remarks and examples

[stata.com](http://www.stata.com)

Remarks are presented under the following headings:

- [Limits](#)
- [Introduction](#)
- [Treatment of string variables](#)
- [Treatment of missing values](#)

Limits

Up to four variables may be specified in the `by()` option, so with the three row, column, and supercolumn variables, seven-way tables may be displayed.

Up to five variables may be displayed in each cell of the table.

The sum of the number of rows, columns, supercolumns, and superrows is called the number of margins. A table may contain up to 3,000 margins. Thus a one-way table may contain 3,000 rows. A two-way table could contain 2,998 rows and 2 columns, 2,997 rows and 3 columns, . . . , 1,500 rows and 1,500 columns, . . . , or 2 rows and 2,998 columns. A three-way table is similarly limited by the sum of the number of rows, columns, and supercolumns. An $r \times c \times d$ table is feasible if $r + c + d \leq 3,000$. The limit is set in terms of the sum of the rows, columns, supercolumns, and superrows—not, as you might expect, their product.

Introduction

If you have not read [R] [table](#), please do so. `tabdisp` is what `table` uses to display the tables.

`tabdisp` calculates nothing. `tabdisp` instead displays the data in memory. In this, think of `tabdisp` as an alternative to `list`. Consider the following little dataset:

```
. use https://www.stata-press.com/data/r18/tabdxmpl1
. list
```

| | a | b | c |
|----|---|---|----|
| 1. | 0 | 1 | 15 |
| 2. | 0 | 2 | 26 |
| 3. | 0 | 3 | 11 |
| 4. | 1 | 1 | 14 |
| 5. | 1 | 2 | 12 |
| 6. | 1 | 3 | 7 |

We can use `tabdisp` to list it:

```
. tabdisp a b, cell(c)
```

| a | b | | |
|---|----|----|----|
| | 1 | 2 | 3 |
| 0 | 15 | 26 | 11 |
| 1 | 14 | 12 | 7 |

`tabdisp` is merely an alternative way to list the data. It is when the data in memory are statistics by category that `tabdisp` becomes really useful. `table` provides one prepackaging of that idea.

Unlike `list`, `tabdisp` is unaffected by the order of the data. Here are the same data in a different order:

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```
. use https://www.stata-press.com/data/r18/tabdxmpl2
. list
```

| | a | b | c |
|----|---|---|----|
| 1. | 1 | 3 | 7 |
| 2. | 0 | 3 | 11 |
| 3. | 1 | 2 | 12 |
| 4. | 1 | 1 | 14 |
| 5. | 0 | 1 | 15 |
| 6. | 0 | 2 | 26 |

and yet the output of `tabdisp` is unaffected.

```
. tabdisp a b, cell(c)
```

| a | b | | |
|---|----|----|----|
| | 1 | 2 | 3 |
| 0 | 15 | 26 | 11 |
| 1 | 14 | 12 | 7 |

Nor does `tabdisp` care if one of the cells is missing in the data.

```
. drop in 6
(1 observation deleted)
. tabdisp a b, cell(c)
```

| a | b | | |
|---|----|----|----|
| | 1 | 2 | 3 |
| 0 | 15 | | 11 |
| 1 | 14 | 12 | 7 |

On the other hand, `tabdisp` assumes that each value combination of the row, column, superrow, and supercolumn variables occurs only once. If that is not so, `tabdisp` displays the earliest occurring value:

```
. input
      a          b          c
6. 0 1 99
7. end
. list
```

| | a | b | c |
|----|---|---|----|
| 1. | 1 | 3 | 7 |
| 2. | 0 | 3 | 11 |
| 3. | 1 | 2 | 12 |
| 4. | 1 | 1 | 14 |
| 5. | 0 | 1 | 15 |
| 6. | 0 | 1 | 99 |

```
. tabdisp a b, cell(c)
```

| a | b | | |
|---|----|----|----|
| | 1 | 2 | 3 |
| 0 | 15 | | 11 |
| 1 | 14 | 12 | 7 |

Thus our previous claim that `tabdisp` was unaffected by sort order has this one exception.

Finally, `tabdisp` uses variable and value labels when they are defined:

```
. label var a "Sex"
. label define sex 0 male 1 female
. label values a sex
. label var b "Treatment Group"
. label def tg 1 "controls" 2 "low dose" 3 "high dose"
. label values b tg
. tabdisp a b, cell(c)
```

| Sex | Treatment Group | | |
|--------|-----------------|----------|-----------|
| | controls | low dose | high dose |
| male | 15 | | 11 |
| female | 14 | 12 | 7 |

There are two things you can do with `tabdisp`.

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You can use it to list data, but be certain that you have a unique identifier. In the automobile dataset, the variable make is unique:

```
. use https://www.stata-press.com/data/r18/auto2, clear
(1978 automobile data)
. list make mpg weight displa+ t      rep78
```

| | make | mpg | weight | displac | rep78 |
|-----|-------------------|-----|--------|---------|-----------|
| 1. | AMC Concord | 22 | 2,930 | 121 | Average |
| 2. | AMC Pacer | 17 | 3,350 | 258 | Average |
| 3. | AMC Spirit | 22 | 2,640 | 121 | . |
| 4. | Buick Century | 20 | 3,250 | 196 | Average |
| 5. | Buick Electra | 15 | 4,080 | 350 | Good |
| 6. | Buick LeSabre | 18 | 3,670 | 231 | Average |
| 7. | Buick Opel | 26 | 2,230 | 304 | . |
| 8. | Buick Regal | 20 | 3,280 | 196 | Average |
| 9. | Buick Riviera | 16 | 3,880 | 231 | Average |
| 10. | Buick Skylark | 19 | 3,400 | 231 | Average |
| 11. | Cad. Deville | 14 | 4,330 | 425 | Average |
| 12. | Cad. Eldorado | 14 | 3,900 | 350 | Fair |
| 13. | Cad. Seville | 21 | 4,290 | 350 | Average |
| 14. | Chev. Chevette | 29 | 2,110 | 231 | Average |
| 15. | Chev. Impala | 16 | 3,690 | 250 | Good |
| 16. | Chev. Malibu | 22 | 3,180 | 200 | Average |
| 17. | Chev. Monte Carlo | 22 | 3,220 | 200 | Fair |
| 18. | Chev. Monza | 24 | 2,750 | 151 | Fair |
| 19. | Chev. Nova | 19 | 3,430 | 250 | Average |
| 20. | Dodge Colt | 30 | 2,120 | 98 | Excellent |
| 21. | Dodge Diplomat | 18 | 3,600 | 318 | Fair |
| 22. | Dodge Magnum | 16 | 3,600 | 318 | Fair |
| 23. | Dodge St. Regis | 17 | 3,740 | 225 | Fair |
| 24. | Ford Fiesta | 28 | 1,800 | 98 | Good |
| 25. | Ford Mustang | 21 | 2,650 | 140 | Average |
| 26. | Linc. Continental | 12 | 4,840 | 400 | Average |
| 27. | Linc. Mark V | 12 | 4,720 | 400 | Average |
| 28. | Linc. Versailles | 14 | 3,830 | 302 | Average |
| 29. | Merc. Bobcat | 22 | 2,580 | 140 | Good |
| 30. | Merc. Cougar | 14 | 4,060 | 302 | Good |
| 31. | Merc. Marquis | 15 | 3,720 | 302 | Average |
| 32. | Merc. Monarch | 18 | 3,370 | 250 | Average |
| 33. | Merc. XR-7 | 14 | 4,130 | 302 | Good |
| 34. | Merc. Zephyr | 20 | 2,830 | 140 | Average |
| 35. | Olds 98 | 21 | 4,060 | 350 | Good |
| 36. | Olds Cutl Supr | 19 | 3,310 | 231 | Average |
| 37. | Olds Cutlass | 19 | 3,300 | 231 | Average |
| 38. | Olds Delta 88 | 18 | 3,690 | 231 | Good |
| 39. | Olds Omega | 19 | 3,370 | 231 | Average |
| 40. | Olds Starfire | 24 | 2,730 | 151 | Poor |
| 41. | Olds Toronado | 16 | 4,030 | 350 | Average |
| 42. | Plym. Arrow | 28 | 3,260 | 156 | Average |
| 43. | Plym. Champ | 34 | 1,800 | 86 | Excellent |

| | | | | | |
|-----|------------------|----|-------|-----|-----------|
| 44. | Plym. Horizon | 25 | 2,200 | 105 | Average |
| 45. | Plym. Sapporo | 26 | 2,520 | 119 | . |
| 46. | Plym. Volare | 18 | 3,330 | 225 | Fair |
| 47. | Pont. Catalina | 18 | 3,700 | 231 | Good |
| 48. | Pont. Firebird | 18 | 3,470 | 231 | Poor |
| 49. | Pont. Grand Prix | 19 | 3,210 | 231 | Average |
| 50. | Pont. Le Mans | 19 | 3,200 | 231 | Average |
| 51. | Pont. Phoenix | 19 | 3,420 | 231 | . |
| 52. | Pont. Sunbird | 24 | 2,690 | 151 | Fair |
| 53. | Audi 5000 | 17 | 2,830 | 131 | Excellent |
| 54. | Audi Fox | 23 | 2,070 | 97 | Average |
| 55. | BMW 320i | 25 | 2,650 | 121 | Good |
| 56. | Datsun 200 | 23 | 2,370 | 119 | Good |
| 57. | Datsun 210 | 35 | 2,020 | 85 | Excellent |
| 58. | Datsun 510 | 24 | 2,280 | 119 | Good |
| 59. | Datsun 810 | 21 | 2,750 | 146 | Good |
| 60. | Fiat Strada | 21 | 2,130 | 105 | Average |
| 61. | Honda Accord | 25 | 2,240 | 107 | Excellent |
| 62. | Honda Civic | 28 | 1,760 | 91 | Good |
| 63. | Mazda GLC | 30 | 1,980 | 86 | Good |
| 64. | Peugeot 604 | 14 | 3,420 | 163 | . |
| 65. | Renault Le Car | 26 | 1,830 | 79 | Average |
| 66. | Subaru | 35 | 2,050 | 97 | Excellent |
| 67. | Toyota Celica | 18 | 2,410 | 134 | Excellent |
| 68. | Toyota Corolla | 31 | 2,200 | 97 | Excellent |
| 69. | Toyota Corona | 18 | 2,670 | 134 | Excellent |
| 70. | VW Dasher | 23 | 2,160 | 97 | Good |
| 71. | VW Diesel | 41 | 2,040 | 90 | Excellent |
| 72. | VW Rabbit | 25 | 1,930 | 89 | Good |
| 73. | VW Scirocco | 25 | 1,990 | 97 | Good |
| 74. | Volvo 260 | 17 | 3,170 | 163 | Excellent |

. tabdisp make, cell(mpg weight displ rep78)

| Make and model | Mileage (mpg) | Weight (lbs.) | displacement | rep78 |
|-------------------|---------------|---------------|--------------|-----------|
| AMC Concord | 22 | 2,930 | 121 | Average |
| AMC Pacer | 17 | 3,350 | 258 | Average |
| AMC Spirit | 22 | 2,640 | 121 | |
| Audi 5000 | 17 | 2,830 | 131 | Excellent |
| Audi Fox | 23 | 2,070 | 97 | Average |
| BMW 320i | 25 | 2,650 | 121 | Good |
| Buick Century | 20 | 3,250 | 196 | Average |
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| Buick LeSabre | 18 | 3,670 | 231 | Average |
| Buick Opel | 26 | 2,230 | 304 | |
| Buick Regal | 20 | 3,280 | 196 | Average |
| Buick Riviera | 16 | 3,880 | 231 | Average |
| Buick Skylark | 19 | 3,400 | 231 | Average |
| Cad. Deville | 14 | 4,330 | 425 | Average |
| Cad. Eldorado | 14 | 3,900 | 350 | Fair |
| Cad. Seville | 21 | 4,290 | 350 | Average |
| Chev. Chevette | 29 | 2,110 | 231 | Average |
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| Chev. Monte Carlo | 22 | 3,220 | 200 | Fair |

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| | | | | |
|-------------------|----|-------|-----|-----------|
| Chev. Monza | 24 | 2,750 | 151 | Fair |
| Chev. Nova | 19 | 3,430 | 250 | Average |
| Datsun 200 | 23 | 2,370 | 119 | Good |
| Datsun 210 | 35 | 2,020 | 85 | Excellent |
| Datsun 510 | 24 | 2,280 | 119 | Good |
| Datsun 810 | 21 | 2,750 | 146 | Good |
| Dodge Colt | 30 | 2,120 | 98 | Excellent |
| Dodge Diplomat | 18 | 3,600 | 318 | Fair |
| Dodge Magnum | 16 | 3,600 | 318 | Fair |
| Dodge St. Regis | 17 | 3,740 | 225 | Fair |
| Fiat Strada | 21 | 2,130 | 105 | Average |
| Ford Fiesta | 28 | 1,800 | 98 | Good |
| Ford Mustang | 21 | 2,650 | 140 | Average |
| Honda Accord | 25 | 2,240 | 107 | Excellent |
| Honda Civic | 28 | 1,760 | 91 | Good |
| Linc. Continental | 12 | 4,840 | 400 | Average |
| Linc. Mark V | 12 | 4,720 | 400 | Average |
| Linc. Versailles | 14 | 3,830 | 302 | Average |
| Mazda GLC | 30 | 1,980 | 86 | Good |
| Merc. Bobcat | 22 | 2,580 | 140 | Good |
| Merc. Cougar | 14 | 4,060 | 302 | Good |
| Merc. Marquis | 15 | 3,720 | 302 | Average |
| Merc. Monarch | 18 | 3,370 | 250 | Average |
| Merc. XR-7 | 14 | 4,130 | 302 | Good |
| Merc. Zephyr | 20 | 2,830 | 140 | Average |
| Olds 98 | 21 | 4,060 | 350 | Good |
| Olds Cutl Supr | 19 | 3,310 | 231 | Average |
| Olds Cutlass | 19 | 3,300 | 231 | Average |
| Olds Delta 88 | 18 | 3,690 | 231 | Good |
| Olds Omega | 19 | 3,370 | 231 | Average |
| Olds Starfire | 24 | 2,730 | 151 | Poor |
| Olds Toronado | 16 | 4,030 | 350 | Average |
| Peugeot 604 | 14 | 3,420 | 163 | |
| Plym. Arrow | 28 | 3,260 | 156 | Average |
| Plym. Champ | 34 | 1,800 | 86 | Excellent |
| Plym. Horizon | 25 | 2,200 | 105 | Average |
| Plym. Sapporo | 26 | 2,520 | 119 | |
| Plym. Volare | 18 | 3,330 | 225 | Fair |
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| Pont. Grand Prix | 19 | 3,210 | 231 | Average |
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| Pont. Phoenix | 19 | 3,420 | 231 | |
| Pont. Sunbird | 24 | 2,690 | 151 | Fair |
| Renault Le Car | 26 | 1,830 | 79 | Average |
| Subaru | 35 | 2,050 | 97 | Excellent |
| Toyota Celica | 18 | 2,410 | 134 | Excellent |
| Toyota Corolla | 31 | 2,200 | 97 | Excellent |
| Toyota Corona | 18 | 2,670 | 134 | Excellent |
| VW Dasher | 23 | 2,160 | 97 | Good |
| VW Diesel | 41 | 2,040 | 90 | Excellent |
| VW Rabbit | 25 | 1,930 | 89 | Good |
| VW Scirocco | 25 | 1,990 | 97 | Good |
| Volvo 260 | 17 | 3,170 | 163 | Excellent |

Mostly, however, tabdisp is intended for use when you have a dataset of statistics that you want to display:

```
. collapse (mean) mpg, by(foreign rep78)
. list
```

| | rep78 | foreign | mpg |
|-----|-----------|----------|---------|
| 1. | Poor | Domestic | 21 |
| 2. | Fair | Domestic | 19.125 |
| 3. | Average | Domestic | 19 |
| 4. | Good | Domestic | 18.4444 |
| 5. | Excellent | Domestic | 32 |
| 6. | . | Domestic | 23.25 |
| 7. | Average | Foreign | 23.3333 |
| 8. | Good | Foreign | 24.8889 |
| 9. | Excellent | Foreign | 26.3333 |
| 10. | . | Foreign | 14 |

```
. tabdisp foreign rep78, cell(mpg)
```

| Car origin | Repair record 1978 | | | | | . |
|------------|--------------------|--------|---------|---------|-----------|-------|
| | Poor | Fair | Average | Good | Excellent | |
| Domestic | 21 | 19.125 | 19 | 18.4444 | 32 | 23.25 |
| Foreign | | | 23.3333 | 24.8889 | 26.3333 | 14 |

```
. drop if rep78==.
(2 observations deleted)
. tabdisp foreign rep78, cell(mpg) format(%9.2f) center
```

| Car origin | Repair record 1978 | | | | |
|------------|--------------------|-------|---------|-------|-----------|
| | Poor | Fair | Average | Good | Excellent |
| Domestic | 21.00 | 19.12 | 19.00 | 18.44 | 32.00 |
| Foreign | | | 23.33 | 24.89 | 26.33 |

Treatment of string variables

The variables specifying the rows, columns, supercolumns, and superrows may be numeric or string. Also, the variables specified for inclusion in the table may be numeric or string. In the example below, all variables are strings, including reaction:

```
. use https://www.stata-press.com/data/r18/tabdxmpl3, clear
. tabdisp agecat sex party, c(reaction) center
```

| Age category | Party Affiliation and Sex | | | |
|--------------|---------------------------|------------------|----------------------|--------------------|
| | Democrat Female | Democrat Male | Republican Female | Republican Male |
| Old | Favor | Favor | Indifferent | Strongly Favor |
| Young | Strongly Favor | Indifferent | Disfavor | Disfavor |

Treatment of missing values

The `cellvar()` variables specified for inclusion in the table may contain missing values, and whether the variable contains a missing value or the observation is missing altogether makes no difference:

```
. use https://www.stata-press.com/data/r18/tabdxmpl4
. list
```

| | sex | response | pop |
|----|-----|----------|-----|
| 1. | 0 | 0 | 12 |
| 2. | 0 | 1 | 20 |
| 3. | 0 | 2 | .a |
| 4. | 1 | 0 | 15 |
| 5. | 1 | 1 | 11 |

```
. tabdisp sex response, cell(pop)
```

| Sex | Response | | |
|-----|----------|----|---|
| | 0 | 1 | 2 |
| 0 | 12 | 20 | |
| 1 | 15 | 11 | |

In the above output, the (1,3) cell is empty because the observation for `sex = 0` and `response = 2` has a missing value for `pop`. The (2,3) cell is empty because there is no observation for `sex = 1` and `response = 2`.

If you specify the `missing` option, rather than cells being left blank, the missing value will be displayed:

```
. tabdisp sex response, cell(pop) missing
```

| Sex | Response | | |
|-----|----------|----|----|
| | 0 | 1 | 2 |
| 0 | 12 | 20 | .a |
| 1 | 15 | 11 | . |

Missing values of the row, column, superrow, and supercolumn variables are allowed, and, by default, missing values are given no special meaning. The output below is from a different dataset.

```
. use https://www.stata-press.com/data/r18/tabdxmlp5
. list
```

| | sex | response | pop |
|----|-----|----------|-----|
| 1. | 0 | 0 | 15 |
| 2. | 0 | 1 | 11 |
| 3. | 0 | . | 26 |
| 4. | 1 | 0 | 20 |
| 5. | 1 | 1 | 24 |
| 6. | 1 | . | 44 |
| 7. | . | . | 70 |
| 8. | . | 0 | 35 |
| 9. | . | 1 | 35 |

```
. tabdisp sex response, cell(pop)
```

| sex | response | | |
|-----|----------|----|----|
| | 0 | 1 | . |
| 0 | 15 | 11 | 26 |
| 1 | 20 | 24 | 44 |
| . | 35 | 35 | 70 |

If you specify the `total` option, however, the system missing values are labeled as reflecting totals:

```
. tabdisp sex response, cell(pop) total
```

| sex | response | | |
|-------|----------|----|-------|
| | 0 | 1 | Total |
| 0 | 15 | 11 | 26 |
| 1 | 20 | 24 | 44 |
| Total | 35 | 35 | 70 |

`tabdisp` did not calculate the totals; it merely labeled the results as being totals. The number 70 appears in the lower right because there happens to be an observation in the dataset where both `sex` and `response` contain a system missing value and `pop` = 70.

Here the row and column variables were numeric. If they had been strings, the `total` option would have given the special interpretation to `sex` = "" and `response` = "".

Also see

- [R] [table](#) — Table of frequencies, summaries, and command results
- [R] [tabstat](#) — Compact table of summary statistics
- [R] [tabulate oneway](#) — One-way table of frequencies
- [R] [tabulate, summarize\(\)](#) — One- and two-way tables of summary statistics
- [R] [tabulate twoway](#) — Two-way table of frequencies
- [D] [collapse](#) — Make dataset of summary statistics

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