Title

> **fillin —** Rectangularize dataset

Description

fillin adds observations with missing data so that all interactions of *varlist* exist, thus making a complete rectangularization of *varlist*. fillin also adds the variable _fillin to the dataset. _fillin is 1 for observations created by using fillin and 0 for previously existing observations.

varlist may not contain strLs.

Quick start

Add observations so that all possible interactions of v1 and v2 exist and flag new observations with _fillin = 1

    fillin v1 v2

As above, but also include interactions with v3

    fillin v1 v2 v3

Menu

Data > Create or change data > Other variable-transformation commands > Rectangularize dataset

Syntax

fillin *varlist*

Remarks and examples

▷ Example 1

We have data on something by sex, race, and age group. We suspect that some of the combinations of sex, race, and age do not exist, but if so, we want them to exist with whatever remaining variables there are in the dataset set to missing. For example, rather than having a missing observation for black females aged 20–24, we want to create an observation that contains missing values:

```
. use http://www.stata-press.com/data/r15/fillin1
. list
```

	sex	race	age_gr~p	x1	x2
1.	female	white	20-24	20393	14.5
2.	male	white	25-29	32750	12.7
3.	female	black	30-34	39399	14.2

```
. fillin sex race age_group
. list, sepby(sex)
```

	sex	race	age_gr~p	x1	x2	_fillin
1.	female	white	20-24	20393	14.5	0
2.	female	white	25-29	.	.	1
3.	female	white	30-34	.	.	1
4.	female	black	20-24	.	.	1
5.	female	black	25-29	.	.	1
6.	female	black	30-34	39399	14.2	0
7.	male	white	20-24	.	.	1
8.	male	white	25-29	32750	12.7	0
9.	male	white	30-34	.	.	1
10.	male	black	20-24	.	.	1
11.	male	black	25-29	.	.	1
12.	male	black	30-34	.	.	1

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References

Baum, C. F. 2016. *An Introduction to Stata Programming*. 2nd ed. College Station, TX: Stata Press.

Cox, N. J. 2005. Stata tip 17: Filling in the gaps. *Stata Journal* 5: 135–136.

Also see

[D] **cross** — Form every pairwise combination of two datasets

[D] **expand** — Duplicate observations

[D] **joinby** — Form all pairwise combinations within groups

[D] **save** — Save Stata dataset