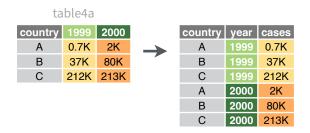
# Reshape Data - Pivot data to reorganize values into a new layout.



pivot\_longer(data, cols, names\_to = "name",
values\_to = "value", values\_drop\_na = FALSE)

"Lengthen" data by collapsing several columns into two. Column names move to a new names\_to column and values to a new values\_to column.

pivot\_longer(table4a, cols = 2:3, names\_to ="year", values\_to = "cases")

### table2

00000								
country	year	type	count		country	year	cases	рор
Α	1999	cases	0.7K	<b>→</b>	Α	1999	0.7K	19M
Α	1999	рор	19M		Α	2000	2K	20M
Α	2000	cases	2K		В	1999	37K	172M
Α	2000	рор	20M		В	2000	80K	174M
В	1999	cases	37K		С	1999	212K	1T
В	1999	рор	172M		С	2000	213K	1T
В	2000	cases	80K					
В	2000	рор	174M					
С	1999	cases	212K					
С	1999	рор	1T					

pivot\_wider(data, names\_from = "name", values\_from = "value")

The inverse of pivot\_longer(). "Widen" data by expanding two columns into several. One column provides the new column names, the other the values.

pivot\_wider(table2, names\_from = type, values\_from = count)

## Split Cells - Use these functions to split or combine cells into individual, isolated values.

### table5

2000 pop

2000

С

country	century	year		country	year
Α	19	99	<b>→</b>	Α	1999
Α	20	00		Α	2000
В	19	99		В	1999
В	20	00		В	2000

213K

1T

unite(data, col, ..., sep = "\_", remove = TRUE,
na.rm = FALSE) Collapse cells across several
columns into a single column.

unite(table5, century, year, col = "year", sep = "")

#### table3

country	year	rate		country	year	cases	pop
Α	1999	0.7K/19M		Α	1999	0.7K	19M
Α	2000	2K/20M	$\rightarrow$	Α	2000	2K	20M
В	1999	37K/172M		В	1999	37K	172
В	2000	80K/174M		В	2000	80K	174

**separate(**data, col, into, sep = "[^[:alnum:]]+", remove = TRUE, convert = FALSE, extra = "warn", fill = "warn", ...) Separate each cell in a column into several columns. Also **extract()**.

separate(table3, rate, sep = "/",
into = c("cases", "pop"))

country | year | rate table3 1999 0.7K country | year | 1999 Α 2000 2K Α 1999 0.7K/19M 2000 Α Α 2000 2K/20M В 1999 37K В 1999 37K/172M В 1999 2000 80K/174M В 2000 80K

В

2000

**separate\_rows(**data, ..., sep = "[^[:alnum:].]+", convert = FALSE) Separate each cell in a column into several rows.

separate\_rows(table3, rate, sep = "/")