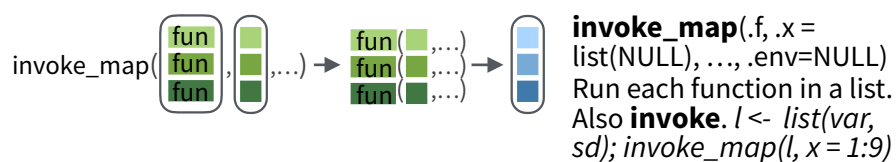
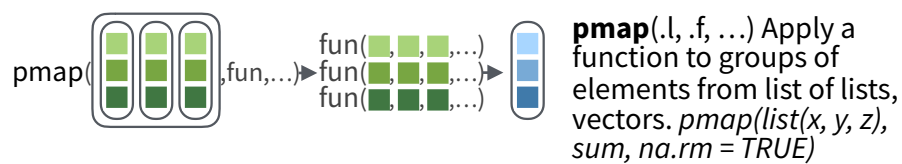
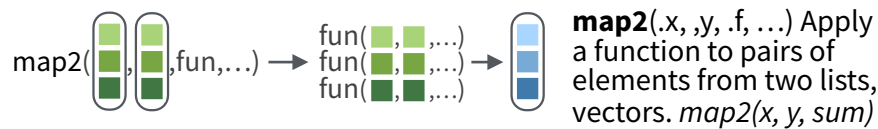
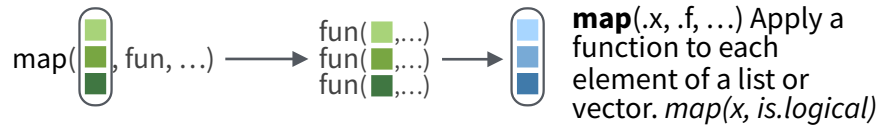


Apply functions with purrr : : CHEAT SHEET



Apply Functions

Map functions apply a function iteratively to each element of a list or vector.



lmap(.x, .f, ...) Apply function to each list-element of a list or vector.

imap(.x, .f, ...) Apply .f to each element of a list or vector and its index.

OUTPUT

map(), **map2()**, **pmap()**, **imap** and **invoke_map** each return a list. Use a suffixed version to return the results as a specific type of flat vector, e.g. **map2_chr**, **pmap_lgl**, etc.

Use **walk**, **walk2**, and **pwalk** to trigger side effects. Each return its input invisibly.

function	returns
map	list
map_chr	character vector
map_dbl	double (numeric) vector
map_dfc	data frame (column bind)
map_dfr	data frame (row bind)
map_int	integer vector
map_lgl	logical vector
walk	triggers side effects, returns the input invisibly

SHORTCUTS - within a purrr function:

"name" becomes **function(x) x\$name**. e.g. *map(l, "a")* extracts \$a from each element of l

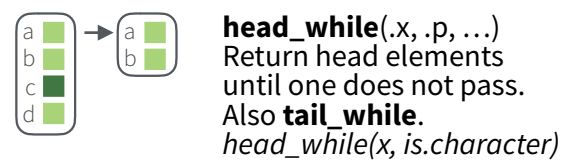
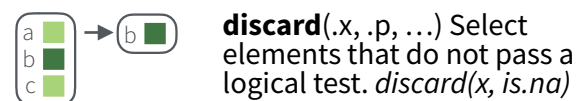
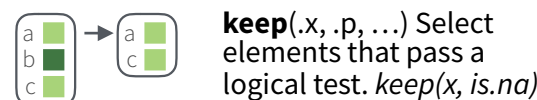
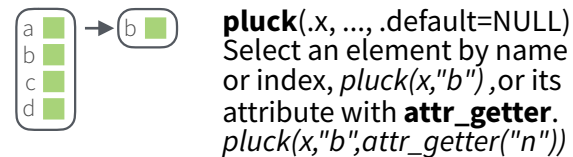
~ .x .y becomes **function(x, y) .x .y**. e.g. *map2(l, p, ~.x+.y)* becomes *map2(l, p, function(l, p) l + p)*

~ .. becomes **function(x) x**. e.g. *map(l, ~ 2 + .)* becomes *map(l, function(x) 2 + x)*

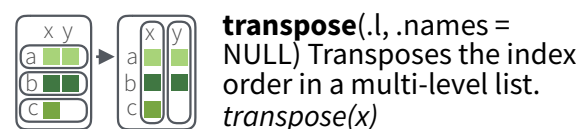
~ ..1 ..2 etc becomes **function(..1, ..2, etc) ..1 ..2 etc**. e.g. *pmap(list(a, b, c), ~ ..3 + ..1 - ..2)* becomes *pmap(list(a, b, c), function(a, b, c) c + a - b)*

Work with Lists

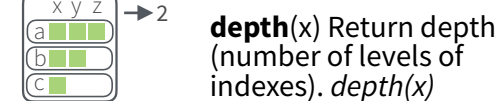
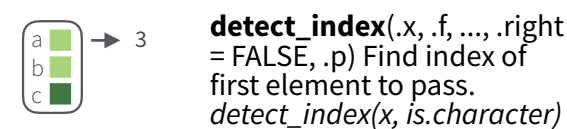
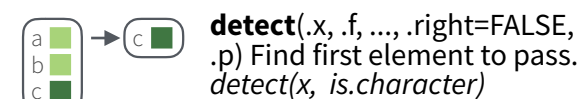
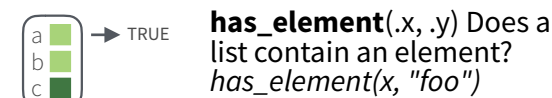
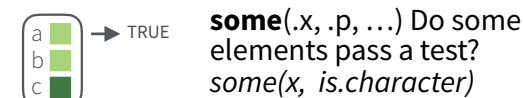
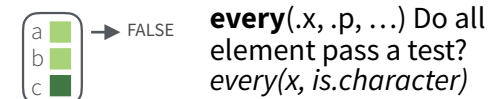
FILTER LISTS



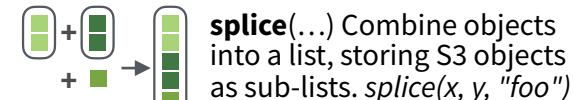
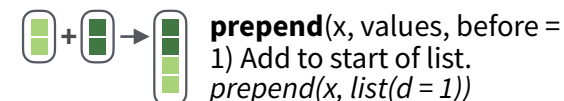
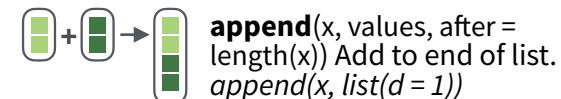
RESHAPE LISTS



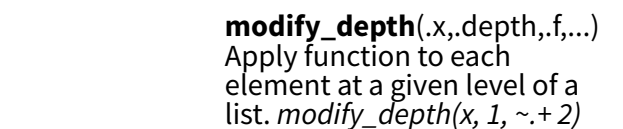
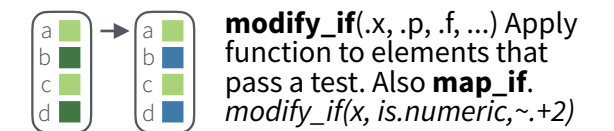
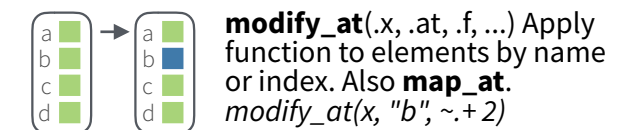
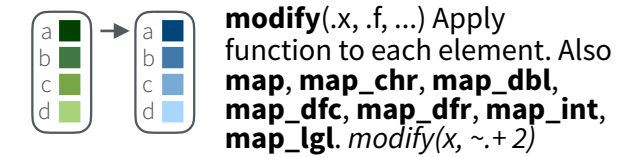
SUMMARISE LISTS



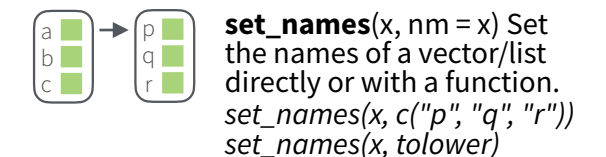
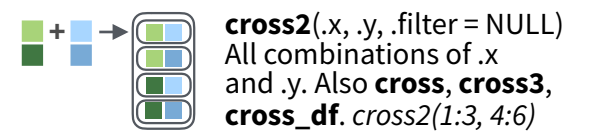
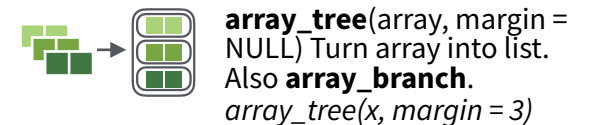
JOIN (TO) LISTS



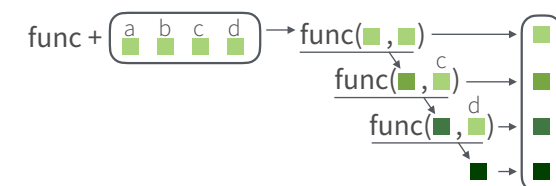
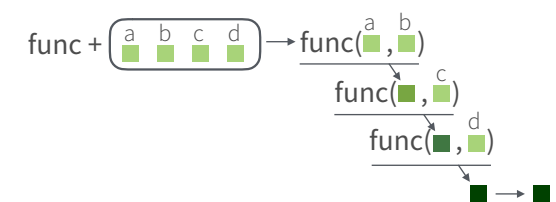
TRANSFORM LISTS



WORK WITH LISTS



Reduce Lists



Modify function behavior

compose() Compose multiple functions.

lift() Change the type of input a function takes. Also **lift_dl**, **lift_dv**, **lift_ld**, **lift_lv**, **lift_vd**, **lift_vl**.

rerun() Rerun expression n times.

negate() Negate a predicate function (a pipe friendly!)

partial() Partially apply a function, filling in some args.

safely() Modify func to return list of results and errors.

quietly() Modify function to return list of results, output, messages, warnings.

possibly() Modify function to return default value whenever an error occurs (instead of error).



