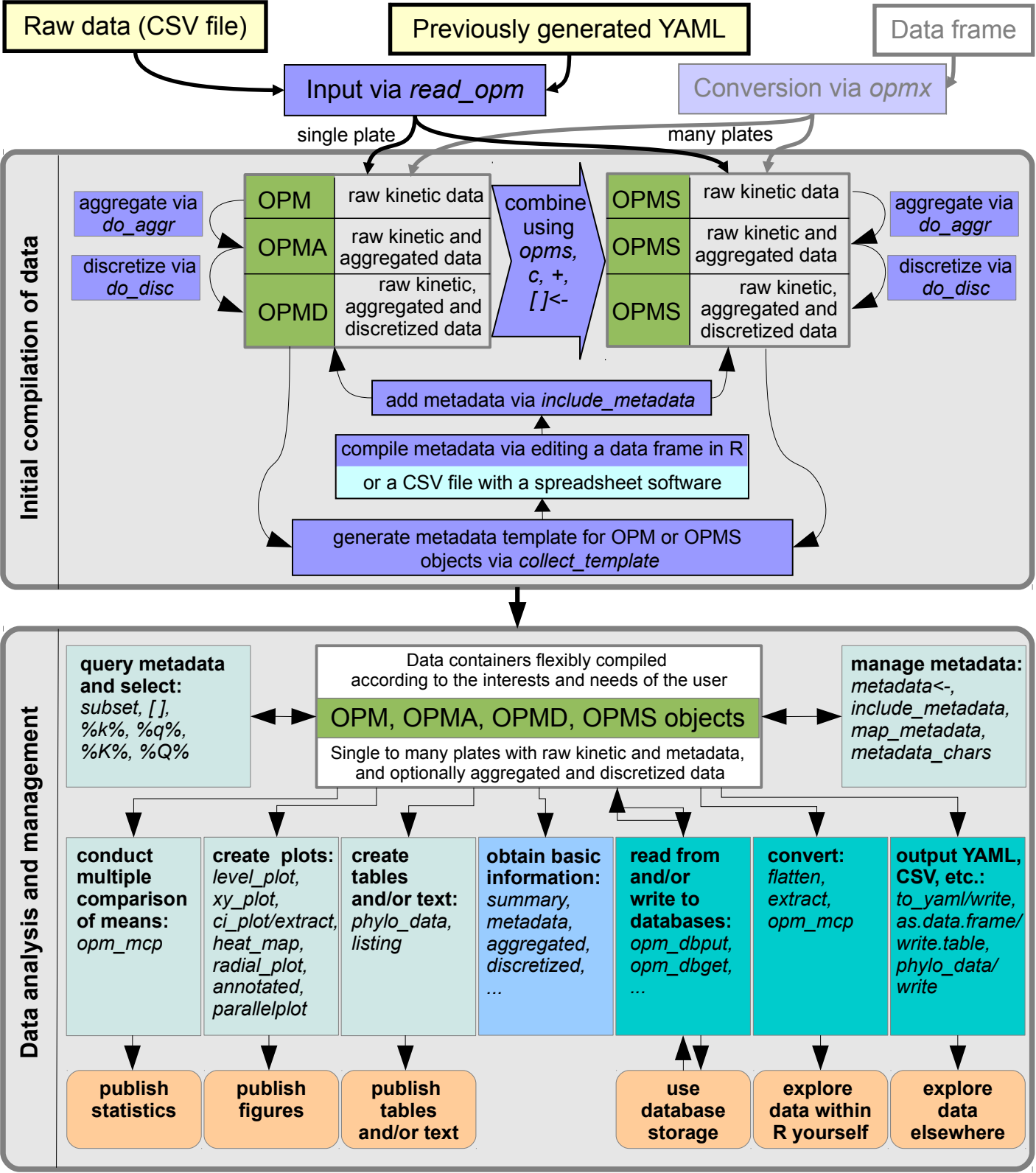
Raw data (CSV file)
Previously generated YAML
Data frame
Input via read_opm
Conversion via opmx
single plate
many plates
Initial compilation of data
aggregate via do_aggr
discretize via do_disc
OPM
raw kinetic data
OPMA
raw kinetic and aggregated data
OPMD
raw kinetic, aggregated and discretized data
combine using opms, c, +, [ ]<-
OPMS
raw kinetic data
OPMS
raw kinetic and aggregated data
OPMS
raw kinetic, aggregated and discretized data
aggregate via do_aggr
discretize via do_disc
add metadata via include_metadata
compile metadata via editing a data frame in R
or a CSV file with a spreadsheet software
generate metadata template for OPM or OPMS objects via collect_template
Data analysis and management
query metadata and select: subset, [ ], %k%, %q%, %K%, %Q%
Data containers flexibly compiled according to the interests and needs of the user
OPM, OPMA, OPMD, OPMS objects
Single to many plates with raw kinetic and metadata, and optionally aggregated and discretized data
manage metadata: metadata<-, include_metadata, map_metadata, metadata_chars
conduct multiple comparison of means: opm_mcp
create plots: level_plot, xy_plot, ci_plot/extract, heat_map, radial_plot, annotated, parallelplot
create tables and/or text: phylo_data, listing
obtain basic information: summary, metadata, aggregated, discretized, ...
read from and/or write to databases: opm_dbput, opm_dbget, ...
convert: flatten, extract, opm_mcp
output YAML, CSV, etc.: to_yaml/write, as.data.frame/write.table, phylo_data/write
publish statistics
publish figures
publish tables and/or text
use database storage
explore data within R yourself
explore data elsewhere