Package: rrViewer (via r-universe)

February 3, 2025

Title Plotting tools for evaluating Coho run reconstructions

Version 0.1.0

Description One of the yearly tasks of the FRAM team is to complete
the Coho Run Reconstruction. This involves careful evaluation
of myriad values in excel files to confirm that they are within
reasonable expectations. This package assists in this process
by plotting the values of the current run reconstruction across
equivalent values in past years.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

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URL https://github.com/cbedwards-dfw/rrViewer,
https://cbedwards-dfw.github.io/rrViewer/,
https://framverse.r-universe.dev/rrViewer

BugReports https://github.com/cbedwards-dfw/rrViewer/issues

Imports cli, dplyr, ggplot2, glue, janitor, patchwork, readxl, rlang,
tidyr, zoo

Config/pak/sysreqs libicu-dev

Repository https://framverse.r-universe.dev

RemoteUrl https://github.com/cbedwards-dfw/rrViewer

RemoteRef HEAD

RemoteSha e7e15240fc0713f0ea04ed315f26750443333dc1

Contents

| list_rr_options | *Provide "stock" and "management_unit_name" options for a run reconstruction dataframe* |

Description

Once a run reconstruction dataframe is created, it's nice to see the options for `stock` and `management_unit_name` identifiers for making plots. This function acts as a wrapper for `unique(data$stock)` if no stock name is provided; if stock name is provided, instead is a wrapper for filtering to that stock and then `unique(data$management_unit_name`. When presenting management unit names, removes astrixes; this is consistent with `plot_rr_mu()` behavior.

Usage

```
list_rr_options(data, stock = NULL)
```

Arguments

data	Dataframe generated by `read_rr_trs()`
stock	Optional, stock

Value

character vector

| plot_rr_mu | *Plot timeseries of values for a given management unit.* |

Description

Plot timeseries of values for a given management unit.

Usage

```
plot_rr_mu(
  data,
  stock.use,
  mu.use,
  normalize_fisheries = TRUE,
  base_font_size = 13
)
```

Arguments

`data`	Dataframe generated from `read_rr_trs()`
`stock.use`	Character string of stock name (which identify blocks within the run reconstruction excel file) to plot. Use `list_rr_options()` to see options.
`mu.use`	Character string of "management_unit_name" (which identify rows within each block of the run reconstruction excel file) to plot. Use `list_rr_options()` to see options. Matches versions of management unit name with and without astrices, as those are only used to add notes and should not be treated as new versions of a management unit.
`normalize_fisheries`	
	Logical: should the calues of fisheries by turned to % of this stock's catch per fishery in each year (`TRUE`) or presented as raw values (`FALSE`). Defaults to `TRUE`.
`base_font_size`	Integer passed to theme_bw() to set baseline font size in figures. Defaults to 13.

Value

Figure object made of ggplots combined using {`patchwork`}.

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read_rr_trs	*Read and format run reconstruction*

Description

RR sheets are organized into blocks – one left, usually also one right – for each stock. Each block has management units for rows and fisheries for columns, with some summary columns and some summary rows. This function translates those into longform; see details. This function is designed to be robust to the addition or subtraction of rows or columns within blocks, and additions of new blocks that have "Return Year" in the second column, first row and "Wild" in the final row, first column. However, changes in the number of columns between the left and right blocks (e.g., shifting the black separator column from N to something else) *will* break this function. However, it appears that this is typically addressed by creating a "continued" block for blocks that would exceed the number of columns. The `combine_continued` argument controls handling of these blocks.

Usage

```
read_rr_trs(path, combine_continued = TRUE)
```

Arguments

`path`	Run reconstruction file
`combine_continued`	
	Logical: Should "continued" type blocks be combined? Defaults to `TRUE`.

Details

To translate each block into compatible longform dataframes, we add several identifiers. `$stock` identifies which stock is in use, `year` and `sheetname` identify which datasheet the data comes from, `block` identifies whether the data comes from the right or left blocks, and then `management_unit_name` and `col_name` identify the row and column identifiers from within each block. Because the columns for right-hand blocks sometimes include super-columns (e.g., "Stillaguamish/Snohomish" has "Aggregate Totals", "Stillaguamish Origin", and Snohomish Origin"). `col_name_super` identifies these. This is given it's own `block` and `stock` value.

We also have have a specieal block for "Ar 13D Net CWT..." in columns P-Q.

Value

tibble of run reconstruction in long form. See details.

Examples

```
## Not run:
rr.dat <- read_rr_trs("/Copy of PScohoRR_TRS_2010-2023_2023-01-22 _draft.xlsx")

## End(Not run)
```

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