Package: mseviz (via r-universe)

November 2, 2024

Title Plots and Visualization Tools for Management Strategy Evaluation Results

Version 0.2.6.9008

Description A set of plots and visualization tools to explore and present the results of Management Strategy Evaluation (MSE) analyses.

Depends ggplotFL, data.table, patchwork

Imports xtable

Suggests testthat, knitr, rmarkdown

VignetteBuilder knitr

License EUPL

LazyLoad Yes

LazyData No

BugReports https://github.com/iagomosqueira/mseviz/issues

RoxygenNote 7.2.3

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

RemoteUrl https://github.com/flr/mseviz

RemoteRef HEAD

RemoteSha 488cd6c8fe91fb2bf09e634fd4cb3dad3ac43192

Contents

plotBPs *Boxplot by MP for a range of statistics Figure 3*

Description

Boxplot by MP for a range of statistics Figure 3

Usage

```
plotBPs(
  data,
  statistics = unique(data$statistic),
  size = 3,
  target = missing,
  limit = missing,
  reference = missing,
  yminmax = c(0.1, 0.9),
  lowupp = c(0.25, 0.75),
  show.mean = NULL
)
```

Examples

```
data(perf)
# A data.table of performance statistics per run,
head(perf)
# plot selected statistics
plotBPs(perf, statistics=c("SB0", "FMSY", "green"))
# Use FLR's own colourblind-friendly palette
plotBPs(perf, statistics=c("SB0", "FMSY", "green")) +
  scale_fill_flr()
# Add targets and limits by statistics, as named vectors
plotBPs(perf, statistics=c("SB0", "FMSY", "green"),
  target=c(SB0=0.40, FMSY=1, green=0.5), limit=c(SB0=0.10))
# Add references inm gray
plotBPs(perf, statistics=c("SB0", "FMSY", "green"),
  reference=c(SB0=0.50))
# size controls the diameter of the point behind thin boxplots
plotBPs(perf, statistics=c("SB0", "FMSY", "green"), size=3)
# Signal MPs by type (color) and target level (hue)
plotBPs(perf, statistics=c("SB0", "FMSY", "green")) +
scale_fill_manual(values=c("#f70e4a", "#fa537d", "#fc98b1",
 "#1189af", "#30beeb", "#83d8f3"))
```

plotTOs *Trade-offs plot by MP for a range of statistics Figure 4*

Description

Trade-offs plot by MP for a range of statistics Figure 4

Usage

```
plotTOs(
  data,
  x = unique(data$statistic)[1],
  y = setdiff(unique(data$statistic), x),
  probs = c(0.1, 0.5, 0.9),
  size = 0.5,
  alpha = 0.75
)
```

Examples

```
data(perf)
plotTOs(perf, x="C", y=c("SBMSY", "FMSY", "green", "SB0"))
```

Index