**Purpose:** Histogram of the SHF or meat weight relationships for each year. The data used depends on the years of interest and leads to several options on what is plotted.

Notes:

* Not entirely clear why we have from = “survwt” and type = “wt”, these appear to be very similar options. Need to see an example of the data that would lead to the differences.

**Version Control:** Multiple versions exist, usually duplicates of each other but no guarantees.

**Required packages**:

**Function Arguments Summary**

1. **ps.dat**: Old MW-SH data from 1981-2012.
2. **survey.obj**: Survey data including shell height frequencies and summary of size classes, for data

since 2012 and possibly earlier

1. **from**: Where to pull the data. Default ='surv'. Options:
   * + "ps"- use old data (up to 2012) only:
     + "special" is survey data but with a special structure in which each list level is a different year
     + "survwt" is survey data using weights rather than numbers.
2. **yr**: Years of interest. If missing it takes all data from 1981-current,
3. **type**: Shell height (sh) or meat weight (wt) plot. Default ='sh'
4. **col1**: Color 1. Default = 'seagreen2'
5. **col2**: Color 2. Default ='red'
6. **col3**: Color 3. Default ='navy'
7. **rows**: Number of rows in the plotting device, a row = 1 year of data. Default = 7
8. **pdf**: Produce a pdf plot? Default = F
9. **xl**: X axis limit. Default is missing
10. **rel**: Relative frequency (%) or Frequency of data in figures. (T/F) Default =T
11. **mean.line**: Plot the mean. (T/F) default = F
12. **adj**: adj location of text on figure. Default =0.1
13. **bx**: Add a box around figure. Default = F
14. **strata**: Strata to choose.=1:7,
15. **ymax**: y axis maximum. Default is missing
16. **recline**: Draw a line to seperate the Pre recruits recruits and commercial scallops size classes. Default = NULL
17. **recline2**: An additional line to seperate the Pre recruits recruits and commercial scallops size classes. Default = NULL,
18. **wd**: Width of the plot device. Default = 10,
19. **ht**: Height of the plot device. Default = 12
20. **ylab**: Label for the y- axis. Default ="Mean N / standard tow",
21. **sample.size**: Sample size from the survey each year, just used as lable on plot. (T/F) Default = F
22. **add.title**: Add a title to the plot? (T/F) default = F.
23. **cex.mn**: Magnification of title plot. Default = 1.
24. **titl**: The title name. Default is blank.
25. **cx.axis**: The axis text size. Default = 1.5.

**Section 1**

Straightforward function used to plot shell height frequency data or weight data. Several options on where to get the data from, the default uses a typical survey object which has the number of individuals in each year and shell height frequency bin, optionally we could look at weights via from = “survwt” or type = ‘wt’

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