

Practical Exercise 3

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This exercise is a continuation of Practical Exercises 1 and 2. It is assumed that you have a working `myHist` function.

Problem 3.1

Modify your `myHist` function so that it returns an object of class `myHistogram`, which is not plotted. Write a print method for objects of this class, which prints just the number of cells.

Hint: When writing the print method it can be useful to know about the function `cat`.

Problem 3.2

How can you assign a class label to the returned object so that it is printed using your new print method, but it is still plotted as a histogram when given as argument to `plot`?

Problem 3.3

Write a `summary` method that returns a data frame with first column containing the midpoints of the cells and second column containing the counts.

Problem 3.4

Write a new `plot` method for objects of class `myHistogram` that uses `ggplot2` for plotting the histogram.