

# An Overview of the PMwR Package

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The aim of `PMwR` is to provide a small set of reliable, efficient and convenient tools that help in processing and analysing trade and portfolio data. The package does not provide a complete application that could be used ‘as is’, but building blocks for creating such an application.

The package grew out of various pieces of software that I have written since 2008.<sup>1</sup> The package is currently under development and changes frequently, simply because the code has been written over many years and is in need of being groomed for general use.<sup>2</sup>

Specifically, the interfaces to functions are not stable (e.g., argument names are currently being made consistent across functions); in some cases, generic functions will be introduced. The **recommended practice** is therefore to **explicitly name arguments in function calls** (and not pass arguments by position). Any changes in argument names will be documented in the ChangeLog (<http://enricoschumann.net/R/packages/PMwR/ChangeLog>) and so can be easily followed.

The latest version of the package is available from <http://enricoschumann.net/R/packages/PMwR/>. To install the package from within R, type

```
> install.packages('PMwR', type = 'source',  
                  repos = c('http://enricoschumann.net/R',  
                           getOption('repos')))
```

within a session. The package depends on several other packages, which can be obtained from the same repository.

There is currently no automatic build for Windows. If you wish to use the package on Windows and have problems building it, then please contact me and I will provide you with a Windows version.

## What the package provides

The package provides functions that can serve as building blocks for many activities in portfolio management. Three examples follow; all details are in the manual:

<http://enricoschumann.net/R/packages/PMwR/manual/PMwR.html>.

The manual is a draft and it will change as frequently as the package. I am grateful for comments, suggestions and corrections.

## Testing strategies

See `?btest`.

## Keeping track of transactions

The package provides functions that work with journals (sometimes called blotters). See `?journal` and `?position`.

## Computing P&L and returns

See `?returns`, `?pl` and `?unit_prices`.

<sup>1</sup> In the unlikely case that you come across a really old version of the package: it was called `PM` before 2012.

<sup>2</sup> Even if `PMwR` is under development: the package is to provide reliable code. Hence, for all computations, unit tests are included. As of package version 0.5.1, there are 226 tests included. These tests are stored in subdirectory `unitTests`.