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PMWR provides several methods for toLatex.

## Monthly returns

For a timeseries (e.g. zoo or xts), the function returns provides monthly returns.

> returns(DAX, period = "month")

```
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec YTD 2014 -1.0 4.1 -1.4 0.5 3.5 -1.1 -4.3 0.7 0.0 -1.6 7.0 -1.8 4.3 2015 9.1 6.6 5.0 -4.3 -0.4 -4.1 3.3 -9.3 -5.8 12.3 4.9 -5.6 9.6
```

To have such a table placed into a LaTeX file, you can put the following snippet into a Sweave file.

```
\begin{tabular}{rrrrrrrrrrrr}
<<results=tex,echo=false>>=
toLatex(returns(DAX, period = "month"), ytd = "\\textsc{ytd}")
@
\end{tabular}
```

The results will look like this:

```
Jan Feb Mar Apr May Jun
                                                Sep
                                      Jul Aug
                                                     Oct Nov Dec YTD
2014
     -1.0
           4.1
                -1.4 0.5
                            3.5
                                -1.1
                                     -4.3
                                           0.7
                                                 0.0
                                                     -1.6
                                                            7.0
                                                                -1.8
                                                                      4.3
2015
      9.1
           6.6
                 5.0 -4.3
                          -0.4 -4.1
                                     3.3
                                          -9.3
                                                -5.8
                                                     12.3
                                                            4.9
                                                                -5.6
                                                                      9.6
```

## **NAVseries**

Summaries of NAVseries contain a number of statistics that can be placed into LATEX templates.

```
> returns(DAX, period = "annualised")

6.9% [02 Jan 2014 -- 30 Dec 2015]
```

To do so, call toLatex with a summary of one or more NAVseries, and a template.

```
DAX: 6.9\% \\
REXP: 3.8\% \\
```

Note that the template was recycled, i.e. it was used for both series. We may also pass separate templates for each series.

The keyword %sparkline adds a sparkline:

bonds (REXP) returned 3.8\%.

Since templates are recycled, we can easily create rows for LATEX tables, such as this one:

		Return p.a.	Volatility
DAX	Mary Mary Mary	6.9	18.0
REXP		3.8	1.9

...which is produced by the following call:

When several NAV series are passed to toLatex, all sparkline plots use the same y-scale. It is then straightforward to produce tables such as the following one, in which we have sorted 50 random series by total return (see the vignette source for the code).

Return	Vol	Return	Vol	Return	Vol	
52.4	0.9	4.1	1.0	 -5.7	1.0	
23.9	0.9	4.1	1.0	-6.8	1.0	
21.1	1.0	 3.6	1.0	 -8.1	1.0	
20.5	1.1	3.1	1.0	 -8.8	1.0	
20.4	1.0	3.0	1.0	 -11.4	1.0	~~~~
19.3	1.0	 2.9	1.0	-12.2	1.0	
17.0	1.0	2.6	0.9	-12.9	1.0	-
15.3	1.0	1.9	0.9	 -14.6	1.0	
13.6	1.0	1.8	1.0	-16.0	1.0	
13.6	1.0	 1.5	1.0	-17.8	0.9	
11.1	0.9	 0.5	1.0	-19.6	1.1	~~~~
10.3	1.0	 0.0	1.0	 -24.2	1.1	
8.9	1.0	 -2.3	1.0	-24.2	1.0	
7.8	1.1	 -3.2	1.0	-28.3	1.0	-
7.7	1.1	-3.9	1.0	 -32.5	1.0	
5.1	1.0	 -4.7	1.0	 -41.2	1.0	
4.1	1.0	 -5.5	1.1			