zoo reference card

Creation

`zoo(x, order.by)`	creation of a `"zoo"` object from the observations `x` (a vector or a matrix) and an index `order.by` by which the observations are ordered. For computations on arbitrary index classes, methods to the following genric functions are assumed to work: combining `c()`, querying length `length()`, subsetting `[`, ordering `ORDER()` and value matching `MATCH()`.

Standard methods

`plot`	plotting
`lines`	adding a `"zoo"` series to a plot
`print`	printing
`summary`	summarizing (column-wise)
`str`	displaying structure of `"zoo"` objects
`head, tail`	head and tail of `"zoo"` objects

Coercion

`as.zoo`	coercion to `"zoo"` is available for objects of class `"ts"`, `"its"`, `"irts"` (plus a default method).
`as.`*class*`.zoo`	coercion from `"zoo"` to other classes. Currently available for *class* in `"matrix"`, `"vector"`, `"data.frame"`, `"list"`, `"irts"` and `"its"`.
`is.zoo`	querying wether an object is of class `"zoo"`

Merging and binding

`merge`	union, intersection, left join, right join along indexes
`cbind`	column binding along the intersection of the index
`rbind`	row binding (indexes may not overlap)
`aggregate`	compute summary statistics along a coarser grid of indexes

Mathematical operations

`Ops`	group generic functions performed along the intersection of indexes
`t`	transposing (coerces to `"matrix"` before)
`cumsum`	compute (columnwise) cumulative quantities: sums `cumsum()`, products `cumprod()`, maximum `cummax()`, minimum `cummin()`.

Extracting and replacing data and index

`index, time`	extract the index of a series
`index<-, time<-`	replace the index of a series
`coredata, coredata<-`	extract and replace the data associated with a `"zoo"` object
`lag`	lagged observations
`diff`	arithmetic and geometric differences
`start, end`	querying start and end of a series
`window, window<-`	subsetting of `"zoo"` objects using their index

`NA` handling

`na.omit`	omit `NA`s
`na.contiguous`	compute longest sequence of non-`NA` observations
`na.locf`	impute `NA`s by carrying forward the last observation
`na.approx`	impute `NA`s by interpolation