Introduction to rules

FINANCIAL TRADING IN R



Ilya Kipnis



- Rules are functions used to create a transaction given you wish to make one based on a signal
- Rules in R: more complex than indicators and signals

Using add.rule()

- Many arguments
- Enter rules: buying shares
- Exit rules: selling shares (converting them back into cash)



More rule mechanics

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More arguments to ruleSignal

- orderqty
- ordertype
- orderside

Using add.rule()



More rule mechanics

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More arguments to ruleSignal

- replace
- prefer

Structure

- replace: TRUE is other signals canceled, else FALSE
- prefer: when to enter into a position
 - bar: open, high, low, close
 - default: buy at close of next day/bar



Order sizing functions

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- Specify how much to buy or sell if orderqty not used
- Create dynamic order sizes as opposed to orderqty 's static order size

```
add.rule(strategy.st, name = "ruleSignal",
arguments = list(sigcol = "filterexit",
                 sigval = TRUE, orderqty = "all",
                 ordertype = "market",
                 orderside = "long",
                 replace = FALSE, prefer = Open",
                 osFUN = ..., tradeSize = ...,
                 maxSize = ...),
type = "exit")
```

- Order sizing function under same list of arguments in ruleSignal
- Similar to apply()

