



Introduction to Rules



What Are Rules?

- 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
- Enter rules: buying shares
- exit rules: selling shares (converting them back into cash)





Using add.rule()

Many arguments









More Rule Mechanics



More arguments to rule Signal

- orderqty
- ordertype
- orderside



Using add.rule()

```
add.rule(strategy.st, name = "ruleSignal",
 arguments = list(sigcol = "filterexit", sigval = TRUE,
orderqty = "all", ordertype = "market",
orderside = "long",...),
type = "exit")
```









More Rule Mechanics II



More arguments to rule Signal

- 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



What Are Rules?

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



What Are Rules?

```
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



