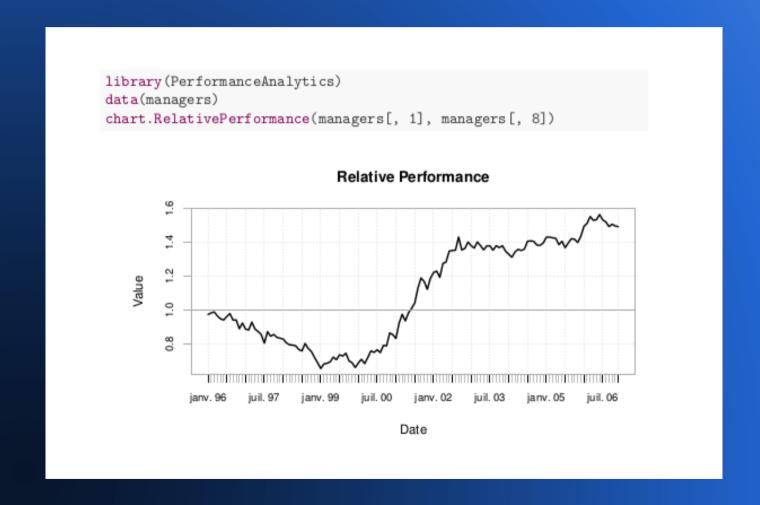
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R/Finance 2013
Lightning Talk

```
library (PerformanceAnalytics)
data(managers)
table.AnnualizedReturns(managers[, 1:8])
                                       HAM2
                                              HAM3
                                                     HAM4
                                                            HAM5
                               HAM1
                                                                   HAM6
## Annualized Return
                             0.1375 0.1747 0.1512 0.1215 0.0373 0.1373
  Annualized Std Dev
                             0.0888 0.1272 0.1265 0.1843 0.1584 0.0825
## Annualized Sharpe (Rf=0%) 1.5491 1.3732 1.1955 0.6592 0.2356 1.6642
                             EDHEC LS EQ SP500 TR
## Annualized Return
                                  0.1180
                                           0.0967
   Annualized Std Dev
                                  0.0708
                                            0.1500
## Annualized Sharpe (Rf=0%)
                                  1.6657
                                           0.6449
```



```
library (PerformanceAnalytics)
data(managers)
table.CAPM(managers[, 1], managers[, 8], scale = NA, Rf = 0, digits = 4)
                     HAM1 to SP500 TR
##
## Alpha
                              0.0077
## Beta
                              0.3906
## Beta+
                              0.3010
                              0.4257
## Beta-
## R-squared
                             0.4357
## Annualized Alpha
                     0.0969
## Correlation
                             0.6601
                            0.0000
## Correlation p-value
                           0.1132
## Tracking Error
## Active Premium
                         0.0408
## Information Ratio
                          0.3604
## Treynor Ratio
                             0.3521
```

```
library (PerformanceAnalytics)
data(managers)
table.Distributions(managers[, 1:8])
                                                   HAM4
##
                             HAM1
                                    HAM2
                                           намз
                                                          HAM5
                                                                  HAM6
## Monthly Std Dev
                           0.0256 0.0367 0.0365
                                                 0.0532 0.0457
                                                                0.0238
## Skewness
                          -0.6588 1.4580 0.7908 -0.4311 0.0738 -0.2800
                           5.3616 5.3794 5.6829 3.8632 5.3143 2.6511
## Kurtosis
                           2.3616 2.3794 2.6829 0.8632 2.3143 -0.3489
## Excess kurtosis
## Sample skewness
                          -0.6741 1.4937 0.8091 -0.4410 0.0768 -0.2936
## Sample excess kurtosis 2.5004 2.5270 2.8343
                                                0.9437 2.5541 -0.2778
##
                          EDHEC LS EQ SP500 TR
## Monthly Std Dev
                               0.0205
                                        0.0433
## Skewness
                               0.0177 -0.5531
## Kurtosis
                               3.9105 3.5598
## Excess kurtosis
                              0.9105 0.5598
## Sample skewness
                              0.0182 -0.5659
## Sample excess kurtosis
                              1.0013 0.6285
```

```
library (PerformanceAnalytics)
data(managers)
table.DrawdownsRatio(managers[, 1:8])
##
                    HAM1
                           HAM2
                                  HAM3
                                         HAM4
                                                HAM5
                                                       HAM6 EDHEC LS EQ
## Sterling ratio 0.5463 0.5139 0.3884 0.3136 0.0847 0.7678
                                                                 0.5688
## Calmar ratio 0.9062 0.7281 0.5226 0.4227 0.1096 1.7425
                                                                 1.0982
## Burke ratio 0.6593 0.8970 0.6079 0.1998 0.1008 1.0788
                                                                 0.8452
## Pain index
                0.0157 0.0642 0.0674 0.0739 0.1452 0.0183
                                                                 0.0178
## Ulcer index 0.0362 0.1000 0.1114 0.1125 0.1828 0.0299
                                                                 0.0325
## Pain ratio
                  8.7789 2.7187 2.2438 1.6443 0.2570 7.4837
                                                                 6.6466
## Martin ratio
                  3.7992 1.7473 1.3572 1.0798 0.2042 4.5928
                                                                 3.6345
                  SP500 TR
## Sterling ratio
                  0.1768
## Calmar ratio
                   0.2163
## Burke ratio
                   0.2191
## Pain index
                   0.1226
## Ulcer index
                   0.1893
## Pain ratio
                   0.7891
## Martin ratio
                    0.5112
```

```
library (PerformanceAnalytics)
data(managers)
table.DownsideRiskRatio(managers[, 1:8])
                                      HAM2
                                             HAM3
                                                    HAM4
                                                            HAM5
## Monthly downside risk
                             0.0145 0.0116 0.0174 0.0341 0.0304 0.0121
## Annualised downside risk 0.0504 0.0401 0.0601 0.1180 0.1054 0.0421
  Downside potential
                            0.0051 0.0061 0.0079 0.0159 0.0145 0.0054
## Omega
                             3.1907 3.3041 2.5803 1.6920 1.2816 3.0436
## Sortino ratio
                            0.7649 1.2220 0.7172 0.3234 0.1343 0.9102
## Upside potential
                            0.0162 0.0203 0.0203 0.0269 0.0186 0.0165
## Upside potential ratio
                             0.7503 2.2078 1.0852 0.8009 0.7557 1.0003
  Omega-sharpe ratio
                            2.1907 2.3041 1.5803 0.6920 0.2816 2.0436
##
                            EDHEC LS EQ SP500 TR
## Monthly downside risk
                                  0.0098
                                           0.0283
  Annualised downside risk
                                  0.0341
                                           0.0980
## Downside potential
                                  0.0041
                                           0.0132
## Omega
                                  3.3186
                                           1.6581
## Sortino ratio
                                  0.9691
                                           0.3064
## Upside potential
                                  0.0137
                                           0.0218
                                           0.7153
## Upside potential ratio
                                  1.1136
## Omega-sharpe ratio
                                  2.3186
                                           0.6581
```

All information on PerformanceAnalytics are available on the CRAN: http://cran.r-project.org/

Thank you for your attention!