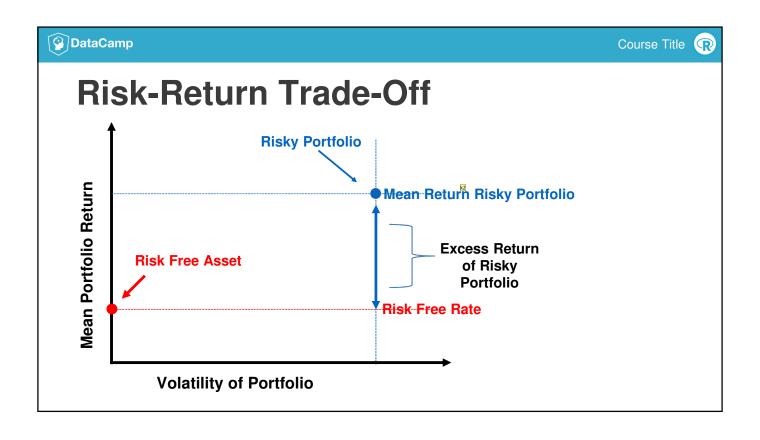
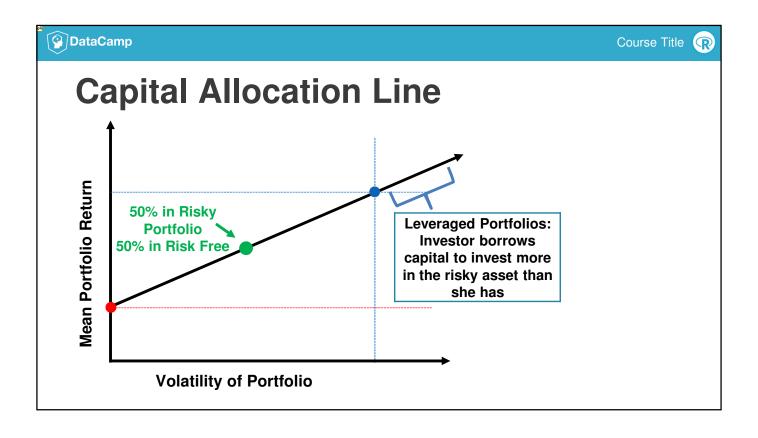


Slide 2

k1 i deleted the word exaxtly to have everyithing on two lines kboudt; 5/31/2016





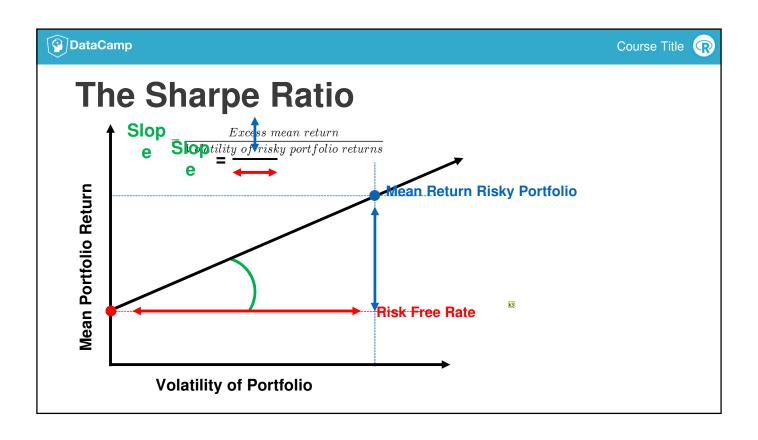
Slide 3

k2 i moved the names to the right and changed to mean return kboudt; 5/31/2016

Slide 4

k4 deleted risk free rate and mean portfolio return

kboudt; 5/31/2016





Slide 5

k3 move to the right kboudt; 5/31/2016

Slide 6

k5 kboudt; 5/31/2016

k6 remove the space please kboudt; 5/31/2016



Introduction to Portfolio Analysis



Annualize Monthly Performance

Annualized Return Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

- Arithmetic mean: monthly mean * 12
- Geometric mean, when Ri are monthly returns:

$$[(1+R_1)*(1+R_2)*\cdots(1+R_T)]^{\frac{12}{T}}$$
 -1

Vol: monthly vol * sqrt(12)



Course Title (R)



Performance Statistics In Action

> mean(sample_returns) # arithmetic mean [1] 0.015

> mean.geometric(sample_returns) # geometric mean [1] 0.01468148



> Return.annualized(sample_returns, scale = 12, geometric = FALSE)

> Return.annualized(sample_returns, scale = 12, geometric = TRUE) [1] 0.1911235

