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Preliminaries

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Financial time series (FT is concerned with theory and practice of asset valuation over time).

Comparison with other analysis: similarity and difference? Highly related, but with some added uncertainty, because FTS must deal with the ever-changing business & compare environment and the fact that volatility is not directly observed. Objective of the course

- to learn ways to get Ainsingiahinformatioje troff websol likely and to process the information.
- to provide some base this wedge to provide some base the such as skewness, heavy tails, and measure of dependence between asset returns
- to introduce some statistical tools & econometric models useful for analyzing these series .../tutorcs.com

Examples of kind of problems you can solve

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- Testing whether fin ts are weak-form informationally efficient.
- Testing whether the APT represent superior models for the determination of retermination of retermination of retermination.
- Measuring and forecasting the volatility of bond returns.
- Explaining the determination of bond repedit ratings used by the ratings agencies.
- Modelling long-term Asiation ships to Prive in Case and Lect pange rates
- Testing technical trading rules to determine which makes the most money.
- Testing the hypothesis that earnings or dividend announcements have no effect on stock prices O: 749389476
- Testing whether spot or futures markets react more rapidly to news.
- Forecasting the corr**elation** between the contries.

What are special characteristics of Financial Data?

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- Frequency & quantity of data
 - Stock market prices are measured every time there is a trade or somebody posts a new quote.
- Quality

Recorded asset prices are usually those at which the transaction took place. No possibility for measurement error but financial data are noisy. Email: tutores@163.com

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- Daily log returns of Apple stock: 2004
- 2. The VIX index
- 3. CDS spreads: Daily 3-year CDS spread 20, 2004 to September 19, 2014. Seasonal time series useful in



4. Quarterly earnings of Coca-Cola Company: 1983-2009

· earning forecasts

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- · pricing weather related derivatives (e.g. energy)
- modeling intraday behavior of asset Assignment Project Exam Help
- US monthly interest rates (3m & 6m Treasury bills)

Relations between the two series? Term structure of interest Email: tutorcs@163.com rates

6. Exchange rate between US Dollar vs Euro

Fixed income, hedging, carry trade

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Size of insurance claims.

Values of fire insurance claims (×1000 Krone) that exceeded 500 from 1972 to 1992.

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8. High-frequency financial data:

Tick-by-tick data of Caterpillars stock: January 04, 2010.

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Figure 1: Daily log returns of Apple stock from 2004 to 2013

Figure 3: Time plot of daily 3-year CDS spreads of JPM: from July 20, 2004 to September 19, 2014

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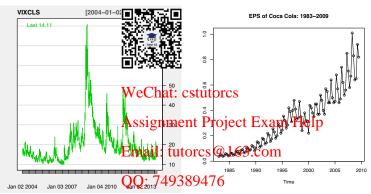


Figure 4: CBOE Vix index: January 2, 2004 to March 7, 2014. Figure 5: Quarterly earnings per share of Coco-Cola Company https://tutorcs.com

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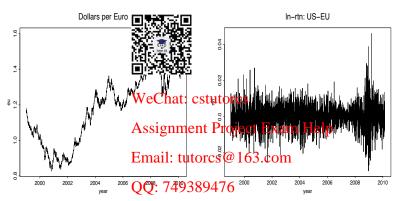


Figure 7: Daily log returns of FX (Dollar vs Euro) Figure 6: Daily Exchange Rate: Dollars per Euro https://tutorcs.com

What Is a Stock?

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Asset Return



What is a stock?

A stock (also known as Times security that represents the ownership of a fraction of a corporation. This entitles the owner of the stock to a proportion of the corporation's asset of profits sequentees how much stock they own. Units of stock are called shares.

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- Stocks are bought and sold predominantly on stock exchanges, though there can be private splesias well rand the great foundation of nearly every portfolio.
- Historically, they haw Quit 74133 med 776st other investments over the long run.

Recap!

Assets and equities

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What is a financial asset

Financial assets represen ts in the assets and securities of other institutions. Financial as stocks, sovereign and corporate bonds, preferred equity, and other hybrid securities. Financial assets are valued depending on how the investment is categorized and the motive behind it.

What Is Equity?

Equity, typically referred to as shareholders' equity (or owners' equity for privately held companies, represents the amount of money that would be returned to a company's shareholders if all of the assets were liquidated and all of the company's debt was paid off in the case of liquidation. In the case of acquisition, it is the value of company sales minus any liabilities owed by the company not transferred with the sale.

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Asset Return



What Is Earnings Per Sh

Earnings per share (EPS) is calculated as a company's profit divided by the outstanding shares of its common stock. The resulting number serves as an indicator of a company's profitability. It is common for a company to report EPS that is adjusted for extraordinary items and potential share dilution. The higher a company's EPS, the more profitable it is considered to be.

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Asset Returns: Definition

Gross return

Let Pt be the price of an 楼路低锅的低锅~桶锅~ividend.

One-period simple ret



yalve stock of
$$R_t = \frac{P_t}{P_{t-1}}$$

Asset Return

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$$P_t = P_{t-1}(1 + R_t)$$
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$$\frac{P_t}{P_t} = \frac{P_t}{P_t} \cdot \frac{P_{t-1}}{P_{t-1}}$$

Simple return:

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$$R_t = \frac{P_t}{P_{t-1}} = \frac{P_t}{P_{t-1}} - 1$$

 $m_t = \frac{1}{P_{t-1}} = \frac{1}{P_{t-1}}$ Email: tutorcs@163.com

(1+ Rt)-(1+ Rt-1)-

$$\begin{array}{rcl}
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1 + R_t(k) &= \frac{P_t}{R_{tt}} \\
& \text{https://futforcs.com} \\
&= (1 + R_t)(1 + R_{t-1}) \cdots (1 + R_{t-k+1}) \\
&= \Pi_{j=0}^{k-1} (1 + R_{t-j})
\end{array}$$

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rices of Apple stock in December 2011. Table below gives five da

Date 12/02 12/0							
Date	12/02	12/0		1/07	12/08	12/09	
Price(\$)	389.70	393.01	J90.9J	389.09	390.66	393.62	

• The 1-day simple return of holding the stock from 12/8 to 12/9:

0.76%

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• The 3-day simple returnaid: hutong the 163kcom 12/02 to 12/07:

-0.15%

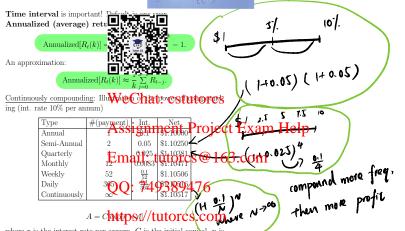
• The 5-day **simple** return for holding the stock from 12/02 to 12/09:

Answer?

Annulalized Asset Returns

Preliminaries





where r is the interest rate per annum, C is the initial capital, n is the number of years, and exp is the exponential function.

Annulalized Asset Returns

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Asset Return

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Present value



Continuously comp log) return

$$r_t = \ln(1$$
 We that P_t

where $p_t = \ln(P_t)$.
Multiperiod log return: Assignment Project Exam Help

$$\begin{array}{ll} r_t(k) &= \ln[1+R_t(\textbf{k})\textbf{mail: tutorcs@163.com} \\ &= \ln[(1+R_t)(1+R_{t-1})\cdots(1+R_{t-k+1})] \\ &= \ln(1+R_t)\textbf{QQ}(1+R_{t-1})+\cdots(1+R_{t-k+1}) \\ &= \ln(1+R_t)\textbf{QQ}(1+R_{t-1})+\cdots(1+R_{t-k+1}) \\ &= r_t + r_{t-1} \textbf{https:///tutorcs.com} \end{array}$$

Annulalized Asset Returns

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Asset Return

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Example Consider again

tock price.

• What is the log retuling /8 to 12/9?

A:

7.5%WeChat: cstutorcs

What is the log return from day 12/2 to 12/9?

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1%

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What is the log return from day 12/6 to 12/8?

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Market Index and Return

- 程序代写代做 CS编程辅导 Market index: $P_{m,t} = \sum_{i=1}^{N} w_{it}P_{i,t}, \ t=1,2,\cdots$
 - weight w_{it} depends w_{it} depen
- Log return:



eg. S&P/ASX20WinGhatinGREULPICS



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An investor holds stocks crossft and Citi- Group. Assume that her capital allocation is 30% What is the mean simple return of her stock portfolio?

Assume monthly simple **Woodhat:IBMutoicos**oft and Citi-Group, 1.35%, 2.62% and 1.17% respectively.

Answer: Assignment Project Exam Help

• Portfolio Return: $R_{p,t} = \sum_{i=1}^{n} w_{it} R_{i,t}, t = 1, 2, \cdots$, where N is the number of assets held by investigate M is wealth allocation.

Adjusted Returns

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Asset Return

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$$r_{t+1} = \ln \left(\frac{P_t + D_t}{P_{t-1}} \right)$$

$$= \ln \left(\frac{P_t + D_t}{P_{t-1}} \right)$$

Adjusting for inflation (Rehater Stylores)

$$r_t^{Real} = \ln \left(\frac{\text{Assignment}_a}{1 + R_t} \right) = \ln \left(\frac{\text{Exand Help}}{P_{t-1}} \right)$$

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• Adjusting for Risk (Excess Returns)

$$Z_t \quad \text{QQ: } \begin{array}{l} 749389476 \\ z_t \quad \text{https://tutorles.} \\ \text{Rom} \\ R_{ft}) \neq r_t - r_{ft} \end{array}$$

BUT if Z_t is small: $z_t \approx r_t - r_{ft}$

Dividends, Excess returns

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Asset Return

Relationship:

$$r_t = R_t, \quad R_t = e^{r_t} - 1.$$

If the returns are in **Property**, then

$$r_t = 100 \times \ln(\text{WeC}_{100}^{R_t}); \text{ cstate}[\exp(r_t/100) - 1] \times 100.$$

Temporal aggregation of the returns produces Help

$$1 + R_t(k)$$
 Email: Particles $\mathbf{R}_t \mathbf{163}$. Contine R_{t-k+1} , $r_t(k) = 0.5$ $7^t 7^t 9389476 + r_{t-k+1}$.

These two relations are important in practice, e.g. obtain annual returns from month type in the transfer of t

Example

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If the monthly log return \blacksquare are 4.46%, -7.34% and 10.77%, then

- what is the corresponder that is the corresponder to the term of the term of
- what is the corresponding the territy simple return?

Answer

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(1) Quarterly log return:

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(2) Quarterly simple return:

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What is your investment plan?

How to inverst \$100?

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