5th session

13th March 2014

International Financial Markets

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Technical Analysis



Neely, C., Weller, P. 2011, Technical analysis in the Foreign Exchange Market, *Federal Reserve Bank of St Louis* WP 2011-001B

- In foreign exchange markets, it is basically used in <u>intradaily</u> transactions.
- Surveys of dealers almost all use to some extent.

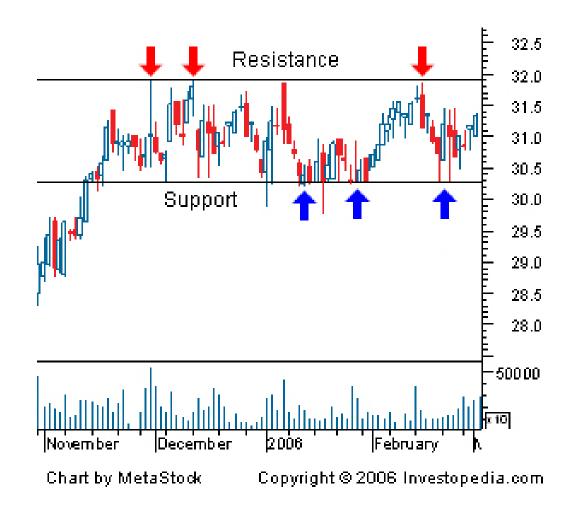
- Fundamental Analysis (examination of the product) vs Technical Analysis (observation of behaviours)
- Trends changing attitudes of investors
- Trends predictability

 It is based on the assumption that the market is inefficient and so it is possible to forecast the behaviour of the foreign exchange rate: the past is used to forecast the future. Extrapolation.

"History repeats itself."

• Identification of patterns.

- Signals to sell or to buy based on trends or on more complex rules.
- Extrapolative methods. Charting, mechanical rules.
 - Charting (very subjective)
 - Peaks and Throughs; Trendline
 - Mechanical rules
 - Filter rules: produce a buy (sell) signal whenever the exchange rate rises (falls) by more than a given percentage from its most recent low (high).
 - Moving averages
 - Other, more complex mathematical functions.



•It is considered that the price seldom passes the resistance level or comes under the support level.

•Inversion, once the levels are broken.

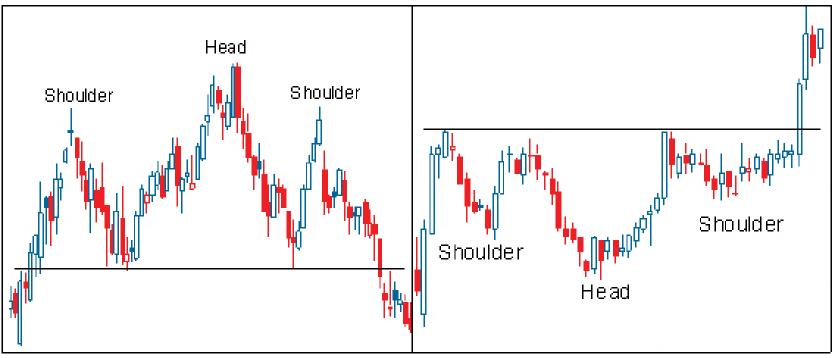


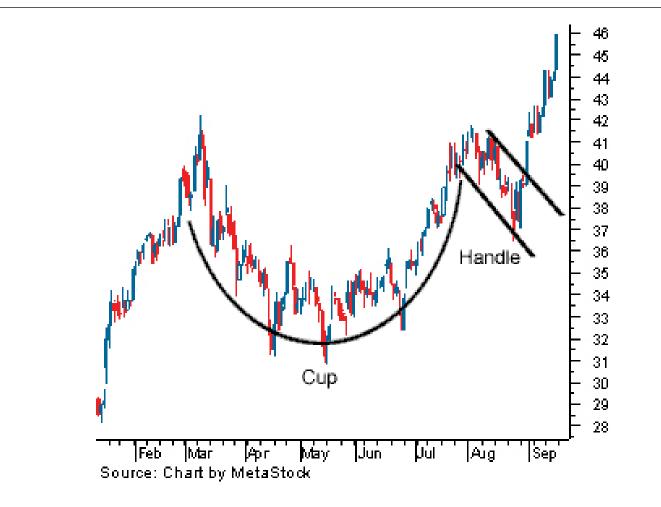
Chart by MetaStock

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•To identify a trend inversion .

Triple top - trend reversal





• **Continuation pattern**, when crossing the resistance level of the handle. The cup must always precede the handle.

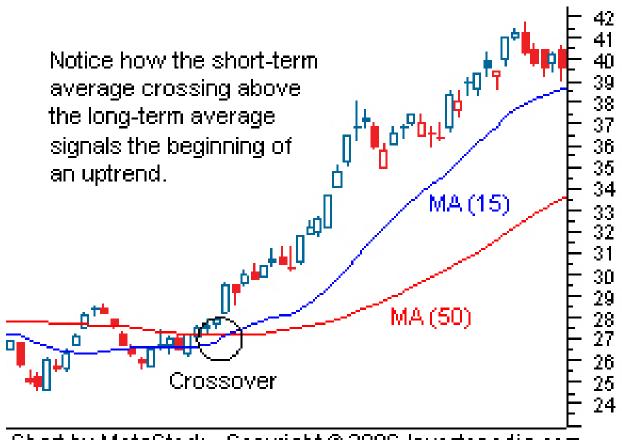


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Bollinger band: considers the volatility in the determination of the resistance and support levels . The bands are 2 standard deviations above and below the Moving Average (of approx. 20 days).

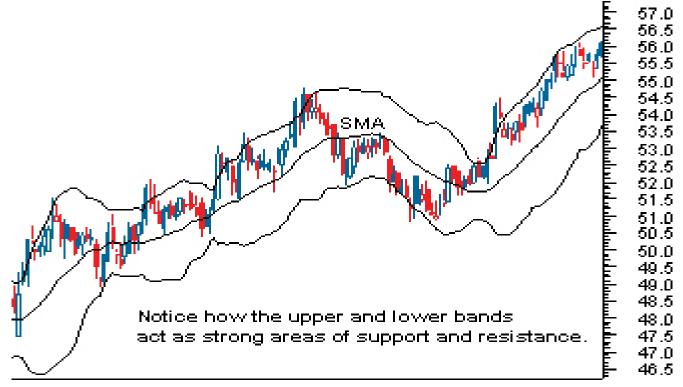


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$$momentum = close_{today} - close_{N \, days \, ago}$$

Gives an idea of the intensity of the trend.

Onother measure that gives the idea of the intensity of the trend is VOLUME.

technical analysis video

http://rapidforex.com/technical-analysis/forex-trading-chartexercise/

Efficient Markets and Technical Analysis

- Technical Analysts believe they can **beat the market**.
- Efficient Markets Hypothesis: Prices reflect all relevant information. They are the market's best guess of the fundamental value.
 - Only <u>news</u> causes prices to move. Markets adjust very rapidly.
 - Trends occur by chance. They cannot be exploited to make money.

- Evaluation of technical trading strategies
 - Mixed results
 - Difficulties:
 - Results may show profitable trading rules on certain datasets, not on others. Negative results ignored but positive results published.
 - Apparently successful trading strategies may indicate that risk is not measured properly, and not necessarily inefficiency

• The Technical Analysis and the Psychology of Investors

Patterns exist because of the predictability (not necessarily the rationality) of investors

- TA may be popular because of:
 - <u>Representativeness</u>

Not considering other determinants of the probability of an event, a period of partial observation is representative of the global image.

<u>Communal Reinforcement</u>

Believing what many people say. Doing what many people do.

Selective Thinking

Believing more in positive events than in negative events, ignoring negative evidence.

<u>Confirmation bias</u> is a subcategory – People look for evidence that confirms one's previous beliefs.

• Might create some departures from perfect efficiency that permit trading rules to have value. But that does not explain the time variation in the returns (profitable simple rules from mid-70's 1990, not so much after that).



REGIMES

International Monetary System

- 1870-1913: Gold Standard working well
- 1914-45: Collapse of the Gold Standard
- 1946-70s: Bretton Woods (dollar standard)
- 1970s-present: end of Bretton Woods
- Current exchange rate arrangements http://www.imf.org/external/pubs/ft/ar/2012/eng/pdf/a2.pdf