PRICE PATTERN IDENTIFICATION





Objective

One critical aspect of technical analysis is the identifying price patterns. The topic discusses certain patterns are formed in the price charts which tend to impact price movements in a particular order.





Agenda

- Process
- Price pattern recognition
- Continual and Reversal Pattern
- Head & Shoulders Top and Bottom
- Double Top and Double Bottom
- Symmetrical Triangles
- Right Angle Triangle
- Wedge Formations
- Flags
- Minor Trend Change Indicators
- Gaps





Process

- 1. Direction of Major Price Trend
- 2. Internal Health of trend (V & OI)
- 3. Closest Support and Resistance levels
- 4. Look for orthodox price pattern
- 5. Determine measuring objective and the stop-out levels
- 6. Create a trading plan based
- 7. Do not force a conclusion; sometimes no trade is the best trade
- 8. Diversify the analysis





Price Pattern Recognition

- The patterns indicate the high probability direction of the major price trend
 - > Carry specific measuring objectives and, most importantly
 - > Alert a trader where things are going wrong
- Rationale of price charts => supply and demand synthesized into price
- Reversal patterns
- Continuation patterns





Continual and Reversal Pattern

- Continual Patterns
 - Patterns in which major underlying trend continues
 - > Generally associated with a correction before trend resumes
 - > Exp: Symmetrical triangles
 - Flags
 - Wedges





Continual and Reversal Pattern

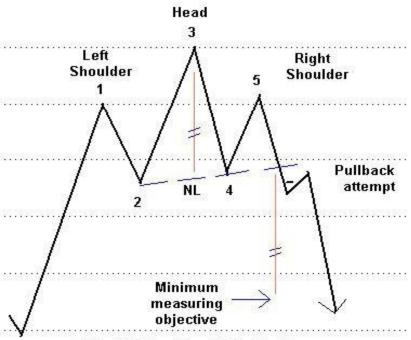
- Reversal Patterns
 - > Patterns in which major underlying trend reverses
 - ➤ Reversals generally happen before market sentiment changes(i.e. before fundamental news change)
 - > Exp. Head and Shoulders
 - Double Top, Double Bottom

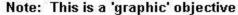




Head & Shoulder

- Most reliable (86-88%) reversal pattern
- Physically resembles a head & shoulders
- Precautions
 - Presence of trend
 - > 5 point reversal
 - High Volume @ head
 - OI decline @ head
 - Declining Vol @Right shoulder
 - Right shoulder lower than Head
 - Close outside pattern
 - > SYMMETREY









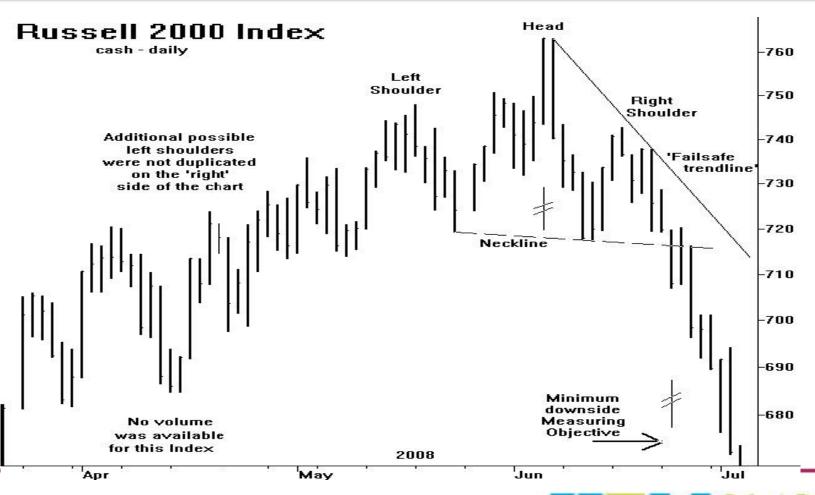
Head & Shoulder

- Activation
 - Close beyond pattern
- Measuring objective
 - Perpendicular distance from neckline to Head
- When to ENTER?
 - > Starts from breaking of pattern
- Stop Loss
 - Head taken off
 - > Failsafe trendline





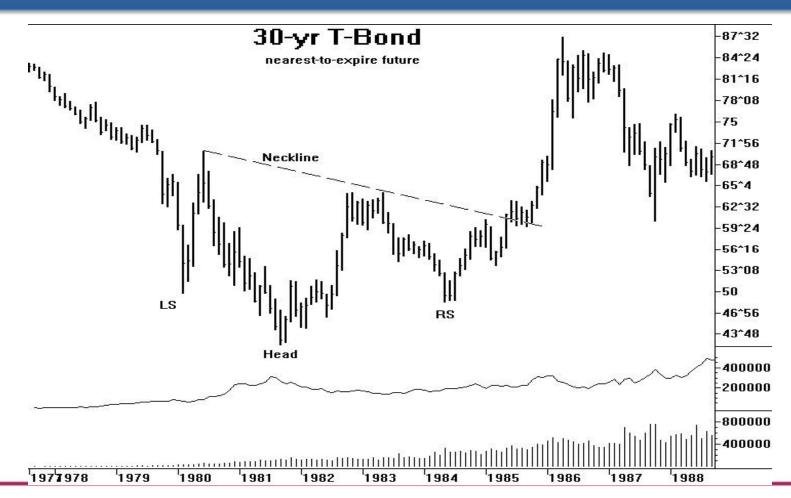
Head & Shoulder







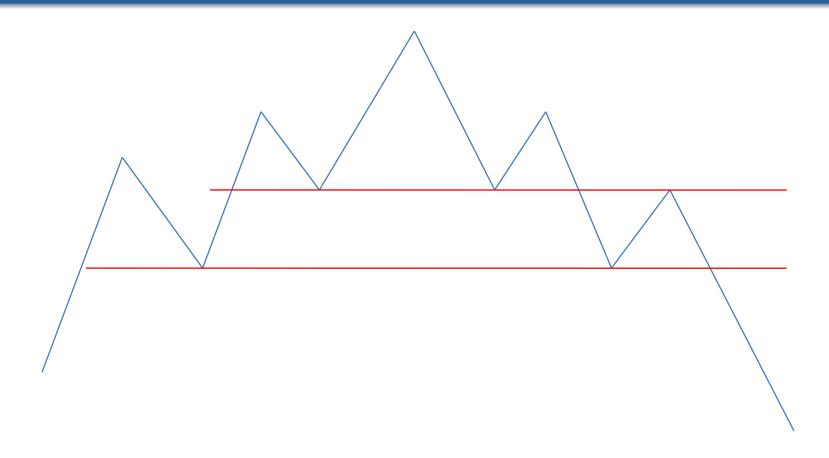
Year Trend







Multiple H&S







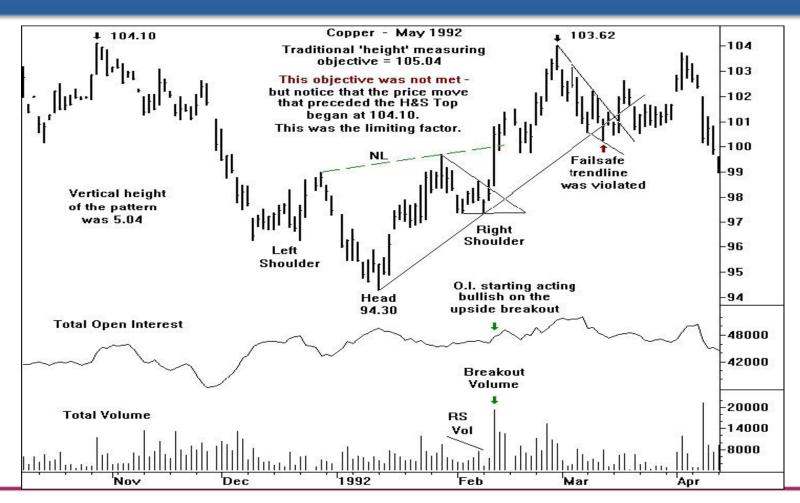
CAUTION!!!

- Any H&S formation, Top or Bottom, cannot be expected to retrace more than the price move that preceded it
- This price extreme is the limiting factor if application of the standard height objective results in a price beyond where the previous price move began





CAUTION!!!

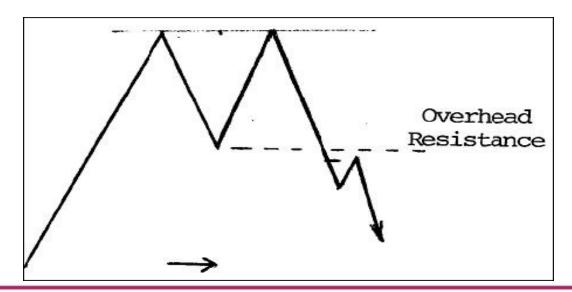






Double Top & Double Bottom

- Two price highs at approximately the same price level
- Prices must decline below and close below the low point established in-between the two price highs before a Double Top pattern has been officially activated







Double Top & Double Bottom

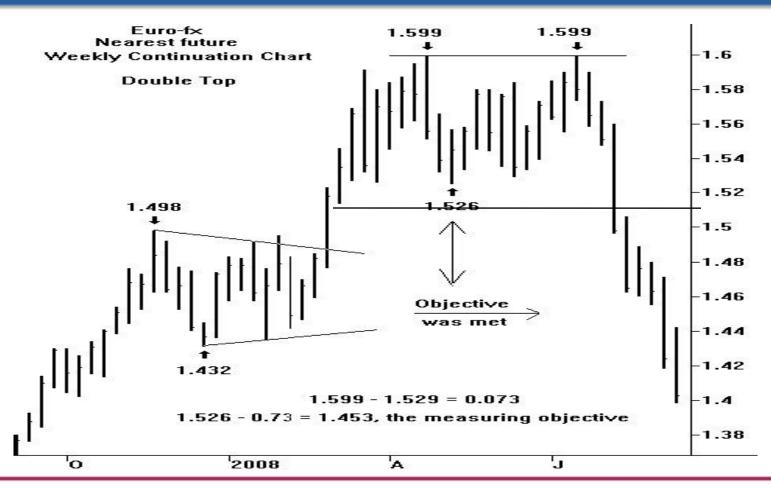
Caution

- > A 'double' formation is not all that reliable price pattern
- ➤ A 'double' formation, Top or Bottom, is not a common pattern on a future or forward chart
- Measuring Objective
 - Vertical height of the pattern is subtracted from the price low inbetween the two highs or lows





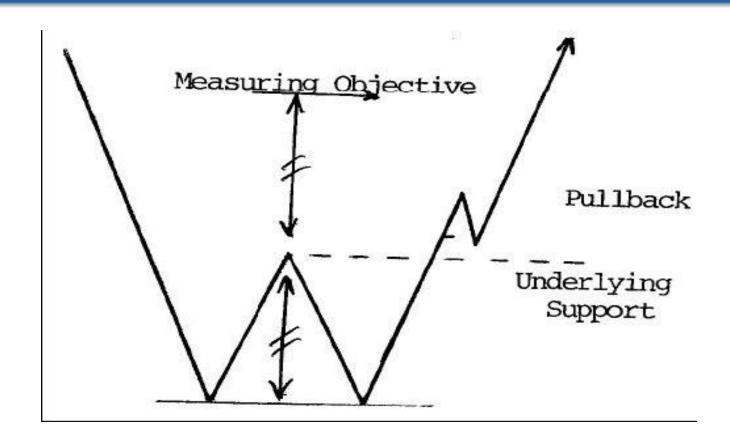
Double Top: Example







Double Bottom







Double Bottom Example







TRIPLE TOP

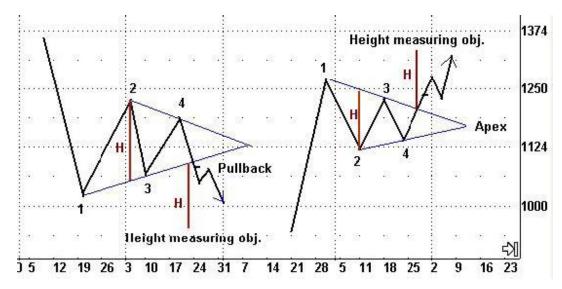






Symmetrical Triangle

Continual Pattern



- Net sideways price movement on the chart, after which, a significant directional price move ensues
- New price move can be in either direction but there is an overwhelming tendency for a valid triangle to act as a continuation pattern





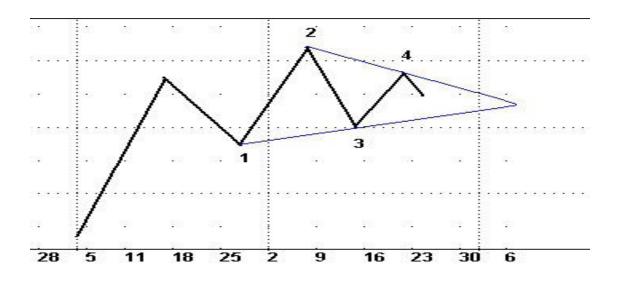
Symmetrical triangle

- 'Works' on all time frame charts
- Four reversals of the 'minor' price trend are necessary to create the two converging boundary lines
- Any triangle is not an active pattern until a closing tic mark is posted beyond one of the boundary lines
- The first reversal point (1) in any valid triangle is always at a relative price high in a bull market or at a relative price low in a bear market
- Volume usually moves irregularly lower





What's Wrong?



Pattern has not given a break out. Hence risky to enter a position





Triangle

- Breakout
 - Associated with High Volume
 - > Breakout cannot occur too far into the pattern
 - Too far is defined as more than 3/4 of the horizontal distance from reversal point one to the apex
- Measuring Implication
 - vertical height of the pattern
 - Counted from reversal point 2





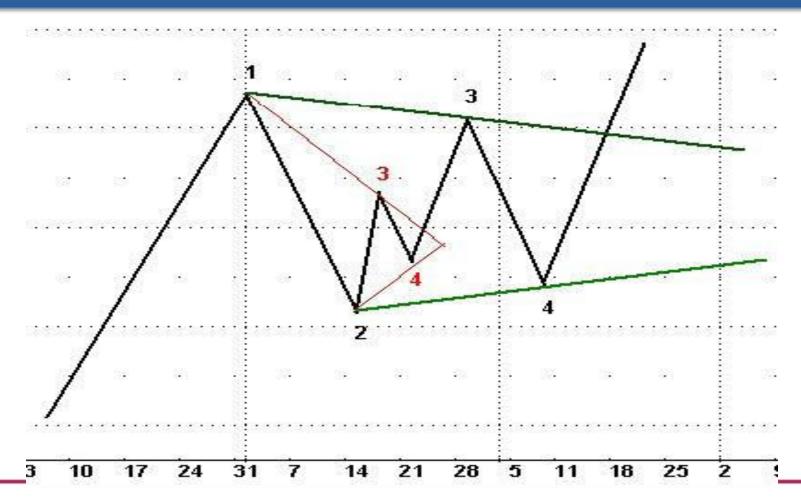
Triangle

- Pullback
 - Underlying support (for an upside breakout) is created at the price level of the breakout
 - > violation of the opposite boundary line or its extension beyond the apex, even intra-price bar, Destroys the pattern
- Reliability of triangles: 76-78%
- Redrawing the Boundary Lines:
 - ➤ Relocating point 3-4





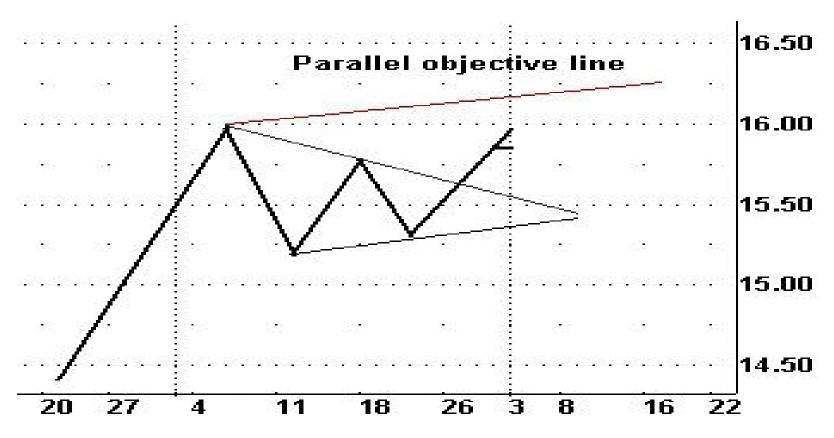
Multiple triangles







Measuring Objective - Alternative



Measuring Objective is Reached: Close 3/4th of position





Measuring Objective - Alternative

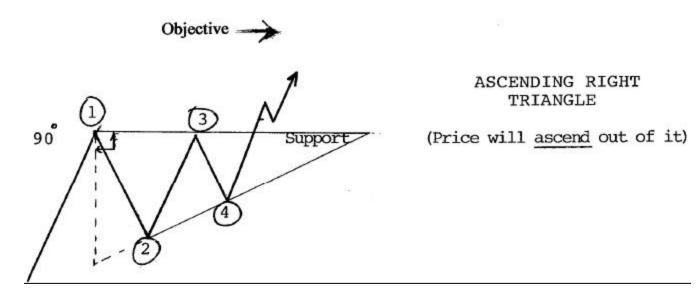
- If either boundary line is horizontal, the pattern that forms is a relatively rare variation of the triangle; a 90 degree angle is present
- This results in an Ascending (bullish) or Descending (bearish) continuation pattern
- The market 'wants' to penetrate the horizontal line
- If both lines slope in the same direction, yet still converge, the resulting pattern is a Rising or Falling Wedge





Right Angle Triangles

- one of the boundary lines is horizontal, and
- a 90-degree angle is present a *right angle*
- 4 point reversal







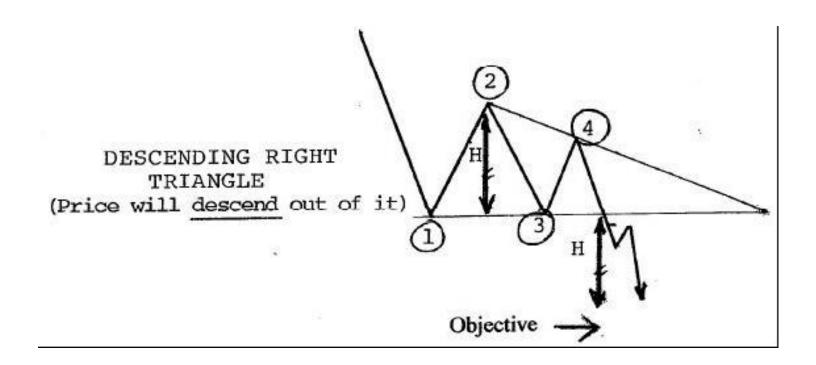
RIGHT TRIANGLE

- Stop loss order would ideally be placed slightly (say 2 minimum price tics) beyond the sloping boundary line
- Price is expected to move beyond the boundary line penetrated, by the vertical height of the pattern
- Height is always measured from reversal point two
- High probability (75-80%)
- Rare patterns on forward or futures charts
- Right Triangles are likely to be more prevalent on a cash or spot chart





Descending right triangle







Example: Descending Triangle







Example: Ascending Triangle

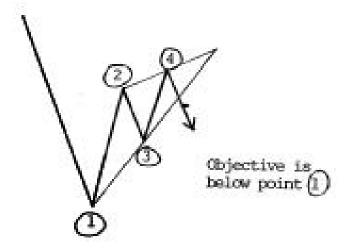






Wedge Formation

- Continuation pattern
- Four reversals of the minor trend for the two converging boundary lines to be constructed



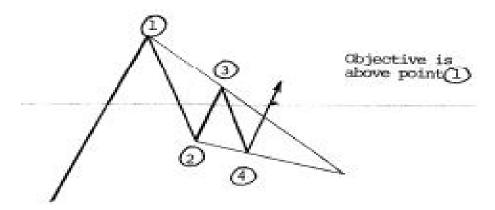
Rising wedge





Wedge

- Falling Wedge is a bullish pattern
- high volume close above the upper boundary line is necessary to activate the pattern
- Minimum upside measuring objective of a Falling Wedge is to take out the highest point in the pattern (reversal point one)
- Minimum downside measuring objective of a rising Wedge is to take out the lowest point in the pattern (reversal point one)







Example







Example







- Flags occur within the course of a 'rapid, straight-line' price move
- Mark a half-way, breath-catching, resting place before the prevailing trend resumes
- Flags normally slope against the trend
- On a daily futures chart, the body of the Flag seldom lasts more than five trading sessions before a resumption of the trend occurs
- Risk is small compared to the expected reward
- Trader knows quickly if the newly placed position is a winner or loser

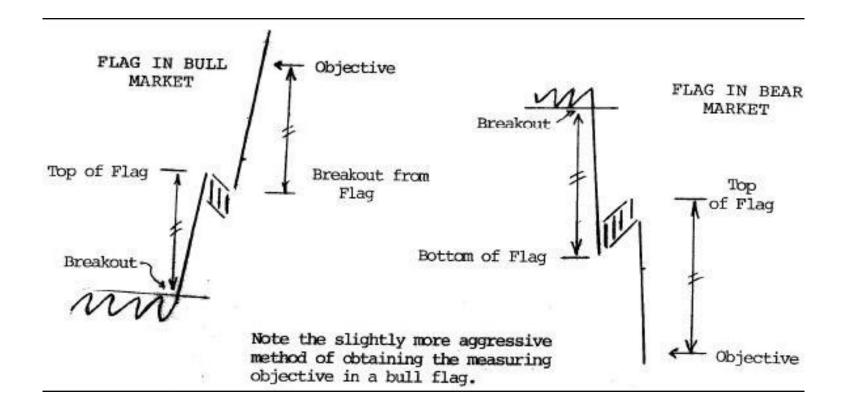




- Minimum measuring objective => duplicating the rapid straight-line price move that preceded it. Remove all positions
- Historical observation has shown that once a Flag objective has been reached, a violent price move in the opposite direction often occurs
- Any trailing protective stop order would more than likely be executed
- Ideally there will no price activity in the price range of the Flag for quite some time
- Flags work best on daily time frame charts
- No market can go below zero to the downside

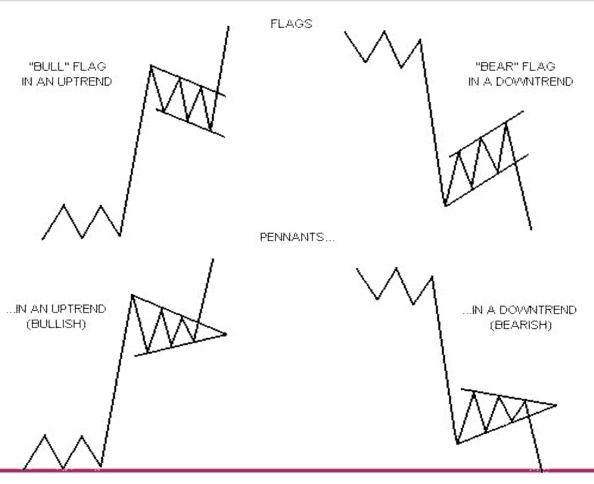
















Flag Example







Pennants Example







Minor Trend Change Indicators

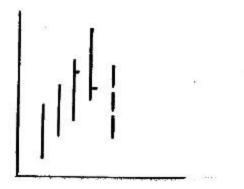
- Short term forecasting significance of minor trend change indicators
 - Key Reversal
 - Inside Range
 - Outside Range
 - Mid-Range Close
- Aim: To identify what might happen the next trading session
- The end of a major price move could be signaled by one of the minor trend change indicators





Key Reversal

- If there are three higher highs, the minor trend is considered to be up
- After a series of higher price activity, a new high and a lower close

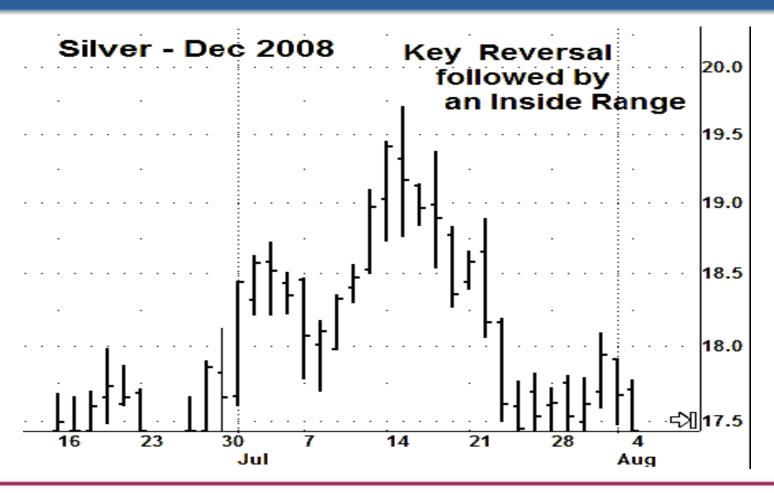








Example







Key Reversal

- Key Reversal might mark the end of a major price move
- At key reversal high volume will result
- Losers are finally giving up!

"When the last weak short is finished buying, the silence is deafening"

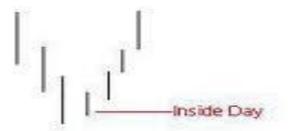
- There are no more buyers so price plummets
- This situation results in open interest declining
- The participants with the correct market judgement going into that trading session are taking profits
- the loser is getting to the sidelines
- Both sides liquidate

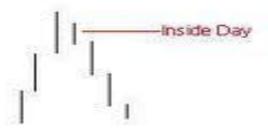




Inside Range/Day

- Entire price bar's activity is contained within the previous bar's price range
- Moment is in one side
- 2nd side comes in and lot of volume action happens
- Rendering both positions in small range
- Likely to shift momentum in different direction



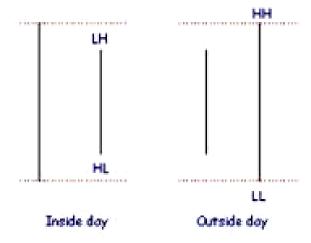






Outside Range

 A widely swinging market resulting in a price range where the high is higher and the low is lower than the previous price bar's activity



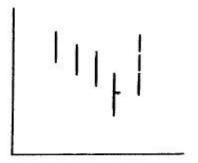




Mid Range Close

- Prices close equidistant between the high and low of the price bar, a Mid-Range Close is formed
- Trend previously in progress was not dominant going into the end of trading for this time period
- There is an excellent probability that an adverse move against the minor trend is about to occur
- Market is trying to change its short term direction



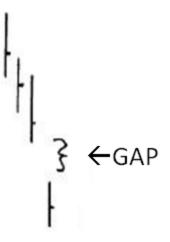






Gap Theory

- Gap is no overlap in prices from one trading session to next
- Used to identify
 - Sideway consolidation
 - Start of new price trend
 - Likely termination of trend
 - Continuation of a dynamic price move

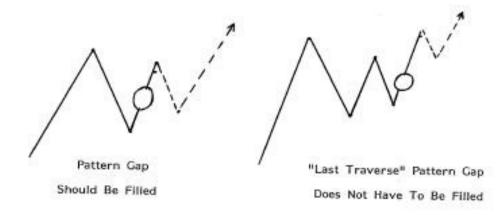






Pattern Gap

- Occurs within a congestion area
- Quickly closed => within few trading sessions
- Also known as common or area gap
- One type of pattern gap not closed







Breakaway Gap

- At the beginning of new price move
- Associated with penetration of trendline
- Can also form on a new price move into new high/ low ground on chart
- Breakaway gap does not have to be closed
- Indicates that trendline break was definitely Significant







Measuring Gap or Runaway Gap

- Found during rapid straight line price move
- Sharp increase or decrease in investors' interest
- Typically takes place at the middle or halfway point, of a trend
- If gap is filled, signals that prevailing trend is losing strength and can end soon





Measuring Gap or Runaway Gap







Exhaustion Gap

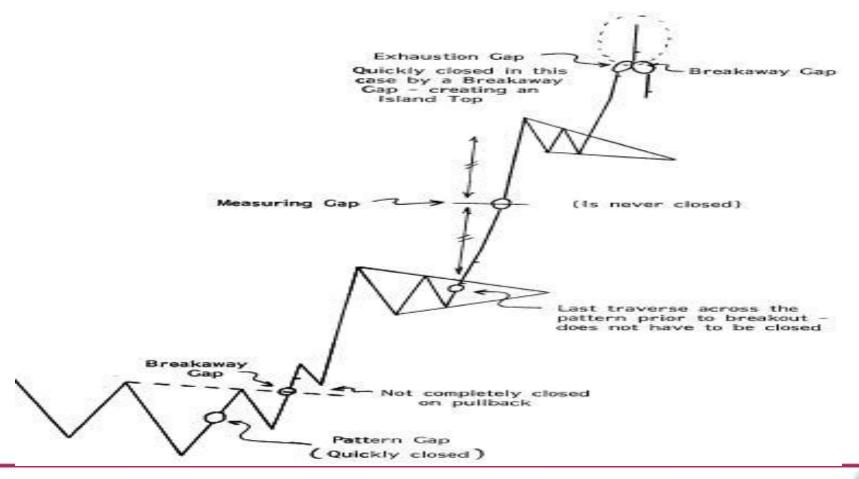
- Signals end of a move
- These gaps are associated with a rapid, straight-line advance or decline
- At the top with heavy volume
- Probable that the market is exhausted and reversal is ahead
 - > Any open pattern
 - > Blowoff volume
 - Gap wide (Largest)
 - Minor trend change
 - Change in OI







Gaps Example







Island Formations

- An Island Bottom is a bullish signal indicating a possible reversal of the current downtrend to a new uptrend. This pattern is an indication of a financial instrument's SHORT-TERM outlook
- The Island Bottom occurs when the price "gaps" below a specific price range for a number of days and then is confirmed when the price "gaps" above the original range

