Technical Analysis What is it really?

Presentation to the Melbourne ATAA meeting 8 October, 2009



"The share market can seem mystical and almost like black magic; but with the right support and assistance, it just seems like magic."

Robert Brain

Australian Technical Analysts Association

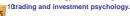
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ATAA - Member Benefits (WIIF

Both potential members, and existing mem are reminded of the benefits of being a me of this very useful Australia-wide organisa

- Regular opportunities for networking with peers, including international affiliations (IFTA).
- 2. Extensive free video and DVD library on many Technical Anal
- 3. Access to web-based INO-TV for streaming audio and video
- Extensive ATAA website resources —
 many past journal articles, presentations from past meeting
- 5. Lots of member discounts bookshops, email newsletters,
- 6. Learn about Technical Analysis, including:-✓ risk assessment and money management
 - ✓ market entry and exit timing
 - ✓ market timing and cycle analysis
 - ✓ complementing different trading styles
 - ✓ trade and strategy back-testing





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Introduction

Get-to-know-you — Who is who?

Gauge the experience of the audience:

- 1. Experienced (hands-on) traders/investors?
- 2. Experienced with Technical Analysis (T.A.)?
- 3. Existing ATAA members?
- 4. New ATAA members? (ie. recent sign-ups)
- 5. Prospective ATAA members?

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Technical Analysis

Introduction

About this presentation

- 1. Who is the "Total Expert" in T.A., really?
- 2. All ATAA members collectively large pool of knowledge
- 3. Draw on expert experience from this audience
- 4. Interactive session
- 5. Broad overview of Technical Analysis
- 6. Limited in time (will skip some slides).



But WHY?

Technical Analysis

Introduction

How do you like your coffee?

- black / white
- latte
- mocha
- iced

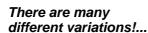




cappuccino



- arabica robusta
- instant
- decaf
- soy



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Introduction

Technical Analysis — not simple

- · Technical Analysis has many variations
- A very broad topic, covering many aspects
- It can take a few years to work out what's included

Experienced Technical Analysts might relate to this?

· The challenge for "newbies":to work out which aspects to focus on, and which aspects to ignore.

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Technical Analysis

Introduction

About the presenter

- 1. Learnt good lessons in 1987 crash (about financial advisors)
- 2. Share Market active 8+ years
- 3. Trader / trainer / presenter / conference facilitator
- 4. Technical Analyst (ATAA member).

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Technical Analysis

Technical Analysis — Overview

Click to add title

Technical Analysis (price chart interpretation)

Overview

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Technical Analysis — Overview

Technical or Fundamental?

Two main approaches to analysing markets and company shares:

- Fundamental analysis —
 financial and economic theory,
 company financial performance, etc., etc.;
 and studying the cause of market movements.
- Technical analysis —
 examines past price action ... and effects of
 market movements.

This presentation will only cover T.A.

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Technical Analysis

Technical Analysis — Overview

Fundamental or Technical?

Question:

Should I go with fundamental or technical analysis?

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Technical Analysis

Technical Analysis — Overview

Fundamental or Technical?

Question: Should I go with fundamental or technical analysis?

There is not one right answer:

- · Personal preference
- · Whatever "feels" best for you
- · Learn about both and try them out

Maybe a blend of both!

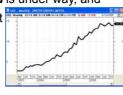
 One possibility:- F.A. to select quality companies, and T.A. to time the entry & exit.

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Technical Analysis — Overview

Is Technical Analysis useful?

- Study price charts (of stocks or the market indexes) to get **good clues** about the state of the market.
- Understand if a *price trend* is under way, and
- Aim to take advantage of it at an appropriate point.



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Technical Analysis

Technical Analysis — Overview

Technical Analysis — What is it?

What is it? What "things"?



Input please!

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Technical Analysis

Technical Analysis — Overview

Technical Analysis — What is it?

- Dow Theory
- Fibonacci
- Price charts
- Elliott Wave
- · Chart patterns
- W.D.Gann
- Candlestick patterns
- Cycles
- Indicators
- · Anything else?

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Technical Analysis — Overview

Technical Analysis – Also considers:

- Price charts in *different time periods*: intraday, daily, weekly, monthly, quarterly, etc.
- Volume number of shares traded
- Number of Trades transactions
- Value of shares traded ave.price x volume



Note: We are offering no comment on this chart.

Technical Analysis

Technical Analysis — Overview

Technical Analysis — A definition?

How about a definition?

Not now — maybe later...

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Technical Analysis

Technical Analysis — Overview

The "holy grail" (of indicators)?

Technical Analysis is not a precise science.

- It is not 100% guaranteed.
- But it does improve your chances of success.
- Many people start out in search of the single indicator that is 100% right — 100% of the time.
- BUT! there is no such thing as the ideal / perfect indicator.

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Technical Analysis — Overview

Two main branches

- Primary Analysis pure price data
- Secondary Analysis modified, processed

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Technical Analysis

Primary Analysis (charts and patterns)

Click to add title

Primary* Analysis

(as opposed to Secondary)

charts and patterns

* — Refer: "The Business of Share Trading", Leon Wilson

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Technical Analysis

Primary Analysis (charts and patterns)

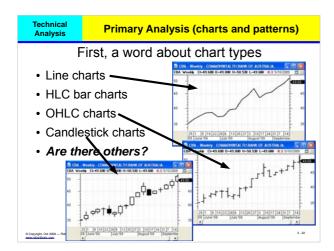
Primary analysis?

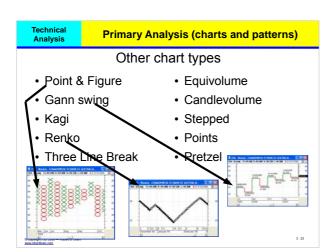
Leon Wilson explains:

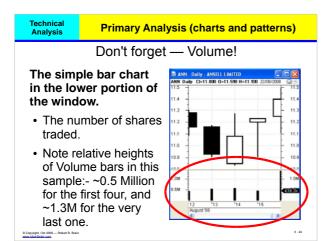
Primary analysis is based directly on price-related information

- Using the raw price data (open, high, low, close, volume, trades, etc.)
- · No manipulation of price
- · No indicators.

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Primary Analysis (charts and patterns) Oh! and — Semi-log chart • The vertical (price) scale is often shown in linear form; • But can be shown in logarithmic form; • It is easier to see "same percentage amount increases".

Technical Analysis

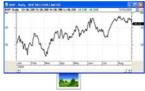
Primary Analysis (charts and patterns)

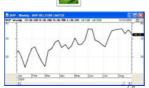
Time periods - Daily and Weekly

- **Daily chart** is common;
- Weekly is popular for longer term traders/investors;
- Weekly removes the "noise" from the Daily;

Everyone should use a couple of time periods.

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Analysis

Primary Analysis (charts and patterns)

Time periods – Weekly, Monthly, Quarterly

- Other time frames are very useful!
- Can display in Line chart form, or Bars or Candles
- · Should review at least two.



Zoom out because the market is like an elephant.

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Primary Analysis (charts and patterns)

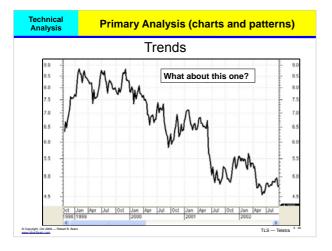
Another time period — intraday chart

- Can display lines, bars or candles
- Can generally display any of:
 - hourly; half hourly; quarter hourly
 - 10 minutes; 5 minutes; 2 or 1 minutes
 - each "tic" or sale.

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Trends Would you have been tempted to buy this stock? (Up 81% in 40 weeks — if only we could spot these in advance)



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Δn	alı	ve.	ie

Primary Analysis (charts and patterns)

Support and Resistance

- A very basic and important tool for interpreting price charts
- Used by many professional traders
- Generally a horizontal line (not always)
- Can be a "zone".

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Technical Analysis

Primary Analysis (charts and patterns)

Support and Resistance

Support.

above which the price moves up and down, bouncing up off the line (like a floor)

· Resistance:

below which the price moves up to the line and retreats below it again (ceiling)

• Indicates emotion and psychology in the market.

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Primary Analysis (charts and patterns) Support and Resistance Pour Analysis (charts and patterns) A support and Resistance A support and Resistance was eventually defeated, and the same price level then became support later on. A support zone", with the price falling towards it, and then bouncing lawsy.



Primary Analysis (charts and patterns)

Chart Patterns (on a line chart)

Chart Patterns?
What are we talking about here?



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2 24

Technical Analysis Primary Analysis (charts and patterns) Chart Patterns Triangles - Symmetric - Ascending Descending Descending - Wedges • Others?

Primary Analysis (charts and patterns) More chart patterns Rounding top (and bottom) Head and shoulders top (and bottom) Double bottom Double top Saucer More?

Candle Patterns (on a candlestick chart)

Candle Patterns? What are we talking about here?



Input please!

Technical Analysis

Primary Analysis (charts and patterns)

Candle Patterns (on a candle chart)

- bullish
- · hanging man
- bearish
- · evening star
- doji
- · dark cloud
- · Shooting Star
- · three black crows
- Hammer
- harami
- · three white soldiers
- · engulfing
- · piercing
- Others?

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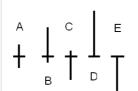
Technical Analysis

Primary Analysis (charts and patterns)

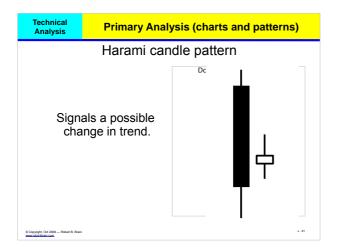
Candle patterns — Doji

A — common symmetrical doji

- B buyers present
- C sellers present
- D Gravestone doji
- E Dragon fly doji



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Technical Analysis (charts and patterns)

Candle patterns — small bodies

• With or without a gap from previous candle.

• Hanging Man (2-candle pattern)

• Shooting Star (2-candle pattern)

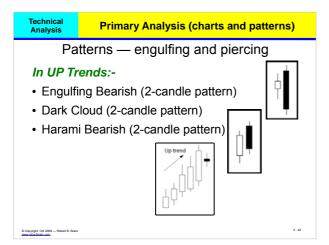
• Evening Star (3-candle pattern)

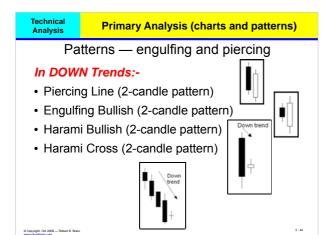
• Doji Star (2-candle pattern)

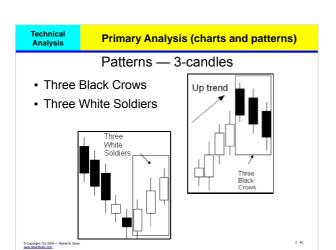
• Hammer (1-candle pattern)

• Inverted Hammer (1-candle pattern)

• Morning Star (3-candle pattern)







Technical Analysis (charts and patterns) Multi-candle continuation patterns Primary Analysis (charts and patterns) Multi-candle continuation patterns Rising Three Methods Falling Three Methods

Te	chr	nical	
Δr	nalv	/sis	

Primary Analysis (charts and patterns)

Candle patterns — Final word

Learning to read candle patterns (market psychology and emotion) can be very useful.

- Candle basics open, high, low, close
- Length of body long or short?
- · Length of tails or absence of tails
- 2- or 3-candle pattern
- · Can suggest possible trend change

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Technical Analysis

Primary Analysis (charts and patterns)

Some Gems

- The market is like an elephant!
- Only invest in something that you understand.
- · Never bet the whole house.
- Up by the stairs, down by the elevator.



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Technical Analysis

Primary Analysis (charts and patterns)

Another tip

- · Volume:
 - Watch for increasing volume as a confirmation of a signal



- Indicas
 - Watch the overall market index, and the relevant sub-index or sector index – "a rising tide lifts all boats".

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Analysis

Primary Analysis (charts and patterns)

Price charts interpretation — Summary

- The general trend if there is one
- The Volume relative to earlier periods
- · Any chart patterns?
- · Any candle patterns?
- Apply an indicator?. . . (next section)
- View another time period (daily \rightarrow weekly \rightarrow ..)

The market is like an elephant, so view at least 2 different time periods.

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Technical Analysis

Secondary Analysis (indicators, etc.)

Click to add title

Secondary Analysis

(ie. chart indicators)

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Technical Analysis

Secondary Analysis (indicators, etc.)

Secondary analysis

Leon Wilson explains:

Secondary analysis tools use info <u>derived from</u> the raw price data

Most indicators are derived by some sort of calculation or manipulation of share price.

Primary analysis is based directly on raw price data

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Secondary Analysis (indicators, etc.)

Secondary analysis

- Indicator types (don't use all the same type!):
 - Trend indicators
 - Volatility indicators
 - Momentum indicators
 - Volume indicators
- Indicator *parameters* (eg. 14-period MA)
 - choose carefully and test thoroughly.

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Technical Analysis

Secondary Analysis (indicators, etc.)

Trend indicators

Name some trend indicators?

Input please!

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Technical Analysis

Secondary Analysis (indicators, etc.)

Trend indicators

Give an *indication* of the *presence* of a trend, and / or the *strength* of a trend.

- · Linear regression.
- Moving Average (details next slide).

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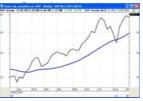
Secondary Analysis (indicators, etc.)

Moving Average (MA)

A very important tool

- eg. 21 day MA is the average of all prices for the last 21 price bars*
- · Can indicate a trend
- Can be used to interpret buy/sell signals.

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* - A "bar" - can be a daily bar on a daily chart, or a weekly bar on a weekly chart, etc. On a Line chart is just the Close prices.

Technical Analysis

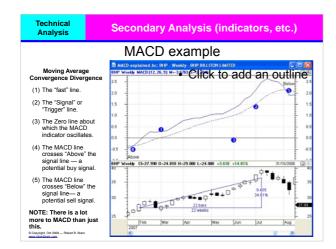
Secondary Analysis (indicators, etc.)

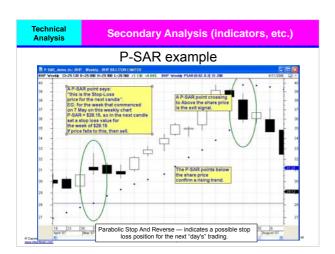
Trend indicators — more

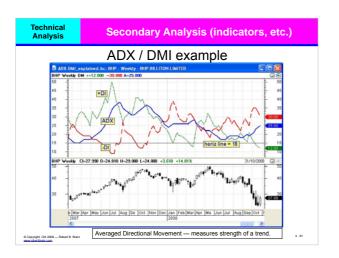
- MMA Multiple Moving Average
- GMMA (Daryl) Guppy MMA
- Hull MMA (Alan) Hull MMA
- · Moving Average High and Low
- MACD Moving Average Convergence Divergence
- P-SAR Parabolic SAR
- ADX / DMI Directional Movement

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Technical Analysis Secondary Analysis (indicators, etc.) MMA example | Mark Analysis | 150 - Out you | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150 | 150







Secondary Analysis (indicators, etc.)

Volatility indicators

Name some volatility indicators?

Input please!

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Technical Analysis

Secondary Analysis (indicators, etc.)

Volatility indicators

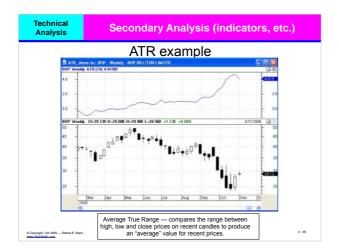
Give an indication of price *volatility* (ie. the range or variation in price):

- Bollinger Bands
- ATR Average True Range
- Also applies to index charts (eg. XJO)

XJO = S&P/ASX 200 XAO = All Ordinaries

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Technical Analysis Secondary Analysis (indicators, etc.) Bollinger Bands example Bollinger Bands example Pre Weekly CH-2.410 0-43.000 H-3.000 H-3.000 PTROX.LUM IMITD Upper Upp



Secondary Analysis (indicators, etc.)

Momentum indicators

Name some momentum indicators?



🖥 Input please!

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Technical Analysis

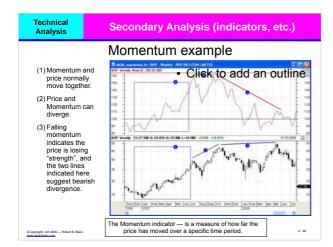
Secondary Analysis (indicators, etc.)

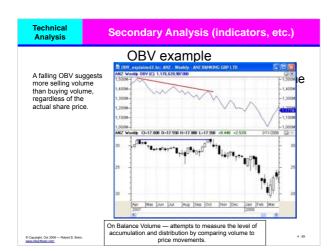
Momentum indicators

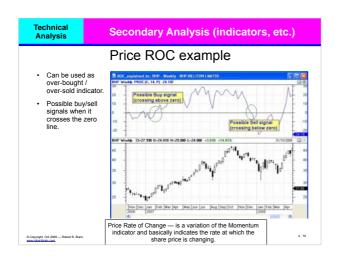
Give an indication of the **strength** of a price move (ie. how far the price has moved over time). Can indicate trend strength or weakness.

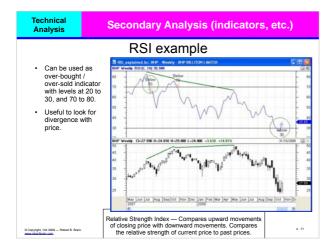
- The Momentum indicator
- OBV On Balance Volume
- A/D Accumulation / Distribution
- Price ROC Rate of Change
- RSI Relative Strength Index
- Coppock
- Stochastic

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Secondary Analysis (indicators, etc.)

Volume indicators

To understand the **amount of volume** relative to recent periods.

- The simple Volume bar chart
- Moving Average on the Volume
- · EquiVolume chart
- · Volume Rate of Change
- · Volume Oscillator.

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Technical Analysis

Secondary Analysis (indicators, etc.)

Indicators — Summary

- Indicator types:
 - Trend indicators
 - Volatility indicators
 - Momentum indicators
 - Volume indicators
- Indicator parameters choose carefully and test thoroughly.

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Click to add title

"Advanced" Topics

Cycles, Fibonacci, Elliott Wave, W.D.Gann

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Technical Analysis

Advanced Topics

Cycle analysis

- · Markets and stocks move in cycles
- · Can be studied and analysed
- Rather complex and can be subjective.
- Examples:
 - season cycles
 - US presidential cycles (4 years)
 - longer term economic cycles.

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Technical Analysis

Advanced Topics

Fibonacci

Number sequence:

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, ...

- Devised by 13th century Italian mathematician Leonardo Fibonacci
- The sum of any two consecutive numbers in the series is the next number in the series.

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Fibonacci (cont)

• The ratio of consecutive and alternate numbers gives a special ratio, and *percentages*:

23.6, 38.2, 50, 61.8, 100, 161.8, 261.8, 423.6

- **Very uncanny** how often share price movements fit into these same ratios.
- See samples on next screen ... /

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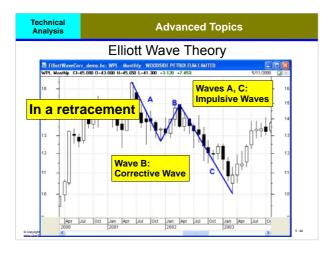
Elliott Wave Theory

"Markets move in cycles which are predictable patterns"

- Ralph Nelson Elliott (1871-1948)
- The cycles are made up of smaller cycles with similarly predictable patterns
- The time duration of these cycles varies
- Impulsive and corrective waves.

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W.D.Gann

Believed there is a relationship between price and time, with a degree of predictability that can be used to effect.

- William Delaware Gann (1878-1955)
- Mathematician
- His work covered an extensive and broad range of technical analysis topics, as well as numerology and astrology
- · Geometric forms, and "squaring price and time".

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Technical Analysis

Advanced Topics

Advanced topics — Summary

- · Cycle analysis
- Fibonacci
- · Elliott Wave Theory
- W.D.Gann



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Technical Analysis

Summary & Wrap up

Technical Analysis — A definition?

How about a definition?



Input please!

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Summary & Wrap up

Technical Analysis — A definition?

Technical analysis is
based on the belief that
the value (or worth)
of a company's shares
is already reflected in the share price.

This can be determined by viewing and analysing the share price chart.

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Technical Analysis

Summary & Wrap up

Quick recap

- · Brief Overview of Technical Analysis
 - A very broad subject.
 - Identifying a share price trend. (The trend is your friend)
 - Identifying share price patterns.
- Primary Analysis no manipulation
 - Chart patterns, candle patterns, etc.
- · Secondary Analysis indicators
- Advanced topics:
 - Cycles, Fibonacci, Elliott Wave, W.D.Gann

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Technical Analysis

Summary & Wrap up

Now where to?

- Explore the options
- Look for help:tuition, support, special interest group, reputable club or association to join, software user group, etc.
- Proceed carefully!
 (it's too easy to lose money)
- Join the ATAA <u>www.ataa.com.au</u>
 Australian Technical Analysts Association

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Summary & Wrap up

Next Steps?

- · Share trading is a journey!!
- Good Bookshop (eg. "Educated Investor", Collins St, Melb
 - www.educatedinvestor.com.au
- Good software (all charts in this presentation BullCharts)
 - www.bullcharts.com.au
- Someone to help you: <u>www.robertbrain.com</u>
 - Brainy's Share Market Toolbox web site
 - arsenal of weapons to tackle the market
 - monthly e-Newsletter Articles

*Companyal Con 2009 - Real-Pin individual tuition, support



Technical Analysis

Summary & Wrap up

These presentation slides

- · This presentation:
 - is available in full (all slides)
 - for ATAA Members to download
 - from the ATAA web site.
 - and from the Members Section of Brainy's Share Market Toolbox web site.
 www.robertbrain.com

This presentation is a cut-down version of Robert's 4-hour, *T.A. Introduction* seminar, next running on Saturday 7 November 2009.





Technical Analysis

Technical Analysis — What is it really?

Click to add title



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Technical Analysis	Technical Analysis — What is it really?	
	Click to add title	
	THE END	
	THANK YOU	
	(backup slides follow)	
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