An Introduction to the Elliott Wave Principle

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Beginning with Robert Prechter’s call for a strong bull market in the 1980s – at a time when few were looking for strong gains – the Elliott Wave Principle has continued to gain in popularity, though it is often considered daunting to master. What lies beneath this intricate look at financial market movements? What does it say not only about trading, but also about crowd and, potentially, social psychology? In this first of a two-part series, Jordan Kotick looks at the theory and practise of Elliott Waves.

A Brief History

The Elliott Wave Principle was developed by Ralph Nelson Elliott (1871-1948). A financial accountant by trade, Elliott spent years intensely studying price charts with a focus on stock market behaviour. He eventually articulated his theory in a series of twelve articles for Financial World magazine in 1939. Elliott concluded that his observations ultimately encompassed not only the action of equity market averages but actually a much larger law that he believed governed everything from social interaction to the patterns seen in natural phenomena. In essence, Elliott believed he came up with an intricate theory that ultimately explained the behaviour of crowds, exposing their dichotomous and ongoing swings between optimism and pessimism. The Elliott Wave Principle, essentially the cyclical quantification of investor psychology, rose to prominence in recent times on the back of the now-famous book by A. J. Frost and Robert Prechter, released in November 1978, The Elliott Wave Principle. This book still stands as the single best articulation of Elliott’s ideas. While many books have been written since, the reader who understands Frost and Prechter understands all they need to know about the principles of Elliott Wave.

Theoretical Foundation and Fractals

Elliott’s main advocacy was that crowd behaviour trends and reverses in consistent and recognisable patterns. Elliott named and illustrated patterns or “waves” that recur in markets and are repetitive in form but not necessarily in time or amplitude. He further described how these structures link together to form larger versions of the same patterns and how those in turn become the building blocks for patterns of the next larger size etc. Regardless of the size, the form remains constant.

This discovery was well ahead of its time. In fact, over the last decade or two, many prominent academics have embraced Elliott’s idea and have been aggressively advocating the existence of financial market fractals. However, it is important to understand the type of fractal pattern that Elliott Wave represents. The traditional line of thought has been that fractals are either self-identical (each component of the pattern is exactly the same as the whole) or indefinite (self-similar to the extent that it is similarly irregular at all levels). Elliott discovered a third type of self-similar fractal that Prechter in his later works coined a “robust fractal.” This pattern has highly variable components that fall within a certain defined structure. Prechter noted that “component patterns do not simply display discontinuity similar to that of larger patterns, but they form, with a certain defined latitude, replicas of them.” This latitude reflects nature’s robustness and variability within overall determined forms. While it may be an open question whether every nuance of this latitude is determined, the Wave Principle unquestionably rests on the premise that certain essential aspects of the design always prevail.

In essence, the robust fractal suggests that as much as the patterns are always self-similar, they are, at the same time, always different. While this may seem a contradiction, it is not. Imagine looking at a forest from one kilometre away. From this distance, every tree looks the same. Now imagine that forest from one meter away – every tree looks different. So it is with Elliott Waves: while the overall pattern is the same, the internal make-up (length, amplitude, wave relationships) will differ despite the fact that the overall pattern is self-similar. It is not a coincidence that the words arboration or arborate have been used in conjunction with Elliott Wave analysis.

Figure 1: The fractility of maps illustrates that navigating London can be easy or complex depending on the degree of observation.

Drink Deep, or Taste not the Elliotician Spring

Alexander Pope was right: a little knowledge is a dangerous thing. He could have been writing about Elliott Waves, for it is not unusual for a trader/strategist/salesperson to embrace a basic understanding of Elliott, use it for while, ultimately lose money and then conclude that Elliott does not work. This all-too-common scenario is based on the false premise that you do not have to know the entire theory in order to use Elliott profitably. This is an expensive oversight. Elliott, like any other technical or fundamental methodology, is not an art, it is not a science – it is a skill that needs to be honed over time. The skilled Elliotician should be able to differentiate all types of waves from the
impulsive (waves 1, 2, 3, 4, 5) to the corrective
(waves a, b, c, d, e, w, x, y, z). While it seems
overly complex, with time and study, the
real-time recognition and application of these
patterns do come to light. Analogously, while
the rules of billiards are simple, winning
a game of billiards is more complicated.
This applies to Elliott Wave in principle
and Elliott Wave in practice.

Application
In financial markets, Elliott wave patterns
occur in any market with sufficient volume
and liquidity. While the real-time application
of Elliott varies between, for example,
a commodity market and foreign exchange
market, or a 5-minute chart and a 5-decade
chart, the basic principles governing Elliott
are equally applicable. Some debate whether
Elliott is most applicable in some markets
versus others. Aside from this being a
subjective debate, it should be realised that
Elliott can and is widely utilised across
commodity, equity, fixed income and foreign
exchange markets on all time frames.

The Basic Picture
Financial markets ultimately progress in an
“impulsive” or five wave sequence regardless
of whether they are bull or bear markets. The
impulsive waves – waves 1, 3 and 5 as seen in
the basic pattern shown in Figure 1 – are the
directional or trending waves. Waves 2 and 4
are the corrective or counter trend waves.
This principle applies to
all time frames. As
mentioned before, the
fractal nature of the
patterns implies that the
smaller patterns are
building blocks of the
larger patterns while the
larger patterns, correspondingly, can be
broken into their
smaller subcomponents.
Just as market analysts
refer to degrees of trend
(intraday, short term,
medium term, etc.), the
Elliottician refers to
wave degree.
Thus while the
trader/strategist may
conclude that the
market is in a short-
term downturn within a
medium-term bull
trend, the Elliottician
may refer to the same
chart by saying that the
market is, for example, in wave two of three,
or four of five…same markets, same
timeframes, same conclusions – just different
modes of expression.

It is worth remembering that successful
market forecasting is based on probability and
percentages. Elliott is particularly valuable at
helping to identify where the market is in a
particular trend and thus helps ascertain not
only buying and selling peaks, but also suitable
places to commit capital based on location of
the overall wave pattern that is unfolding. If
one can correctly identify where the market is
within an overall pattern (Elliott or otherwise)
and can reliably project how the patterns are
likely to complete, then a market opportunity
exists.
Part 2: Making Money Makes it Right

In real time, you are only right if you make money. A correct interpretation of fundamental data, or correct momentum interpretation of Elliott Wave count, is of minimal value if it does not specifically help you commit capital. While there is always room for interpretations in any methodology, Elliott Wave has an inherent advantage over some in that there are rules that can never be broken. These rules are not subjective and answer the key question that all too many strategists often take great pains to avoid: “Where are you wrong?” This question will be further explored and will form the basis of Part 2 of this series.

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He is a featured author in the recently released book, Market Analysis for the New Millennium and is currently co-authoring a textbook on technical strategy.

Fibonacci, Elliott & Co.

While Fibonacci is worth a few articles in and of itself, for the purpose of this article it is worth noting that one of Elliott’s most important discoveries was that the Fibonacci sequence and its corresponding ratios governed the progression and regression inherent in an unfolding Elliott wave. The sequence, the relationship of the numbers in the sequence (referred to as phi or .618 and its reciprocal 1.618) and the ongoing mathematical calculations associated with these numbers (the ongoing squaring of .618 or 1.1618, for example), helps to determine everything from the relationship between the waves to their inherent length and amplitude.