

Table Of Contents

Market Behaviour	1
Chapter 1: Market Disorder and Randomness	1
Chapter 2: Statistical Tendencies in Market Structure	2
Chapter 3: Interpretation and Standardization	7
Technical Structure	9
Chapter 4: Price Structure	9
Chapter 5: Structural Boundaries	14
Chapter 6: Deviation	22
Chapter 7: Momentum	28
Chapter 8: Trend Phases	34
System Design	39
Chapter 9: Setup Classification	39
Chapter 10: The Pullback Setup	42
Chapter 11: The Fading Setup	51
Chapter 12: Challenges of Fading and Overextension	55
Risk and Process	61
Chapter 13: Trading as a Probabilistic Process	61
Chapter 14: Expected Value	62
Chapter 15: Position Sizing and Risk Management	66
Chapter 16: Trade Management	70
Application and Development	72
Chapter 17: Stock Selection	72
Chapter 18: Market Conditions	74
Chapter 19: Trading Plan	76
Chapter 20: Setup Sheets	78
Chapter 21: Indicator Tools and Application	80
Chapter 22: Behavioral Discipline	85

Market Behaviour

Chapter 1: Market Disorder and Randomness

Market Disorder

Involvement in financial markets occurs for a variety of reasons, including speculation, hedging, liquidation, automation, and rebalancing. These are executed by a broad range of participants, such as funds, banks, algorithms, and retail traders. These operate across different timeframes and objectives. The same information could lead to different interpretations and execution.

This creates structural disorder. The market does not behave in a clean or deterministic manner. Behaviour is shaped by overlapping flows, unknown motivations, and shifting expectations. While each trade is executed with intent and structure, the collective result of these actions creates disorder. From the perspective of a technical trader, outcomes could appear no different from randomness. In practice, this is experienced as noise or inconsistent behavior.

Randomness in Market Theory

Traditional financial models like the *Random Walk Hypothesis* (RWH) suggest that price movements are random and not influenced by past behavior. In other words, markets exhibit no memory and each price change is statistically unrelated to the prior ones. In case this would be true, no historical data or technical method would provide a reliable basis for forecasting future prices. In such a market, price behavior would be indistinguishable from statistical noise. Apparent trends would arise by coincidence, and no persistent trading edge could be developed.

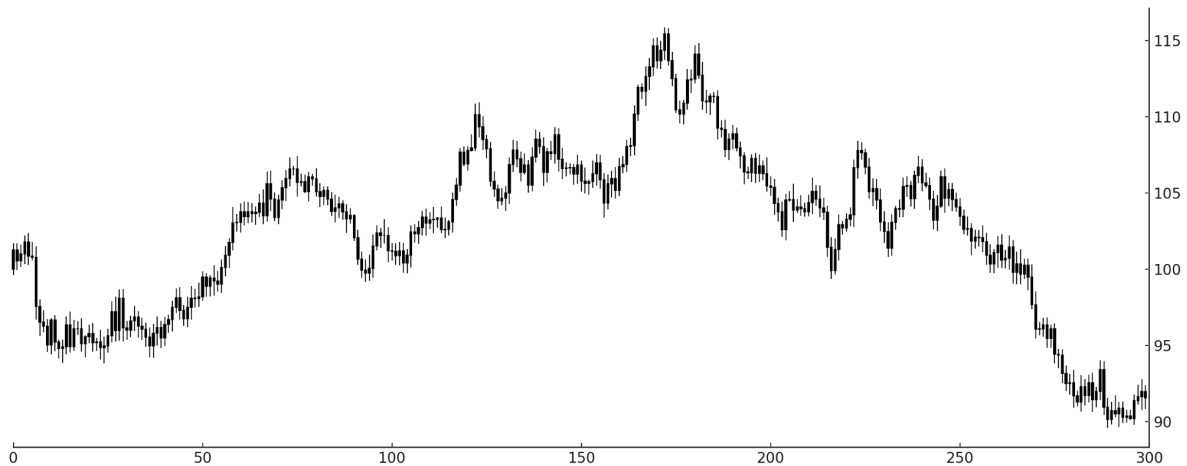


Figure: A visual example of a chart based on a random walk. Price evolves through multiplicative steps without memory, reflecting the assumptions of the Random Walk Hypothesis.

Multiple experiments have shown that when traders are presented with randomly generated charts, they tend to perceive them as genuine market data. This reflects a common cognitive bias: the tendency to perceive structure even where none exists. Much of what is interpreted as meaningful could be the result of psychological projection, pattern recognition, or hindsight bias applied to what is essentially noise. Randomness can resemble market data, which makes it difficult to differentiate between valid and coincidental patterns.

Chapter 2: Statistical Tendencies in Market Structure

Market Tendencies: Departures from Randomness

Not all aspects of market behavior conform to the random walk model. In particular, certain patterns appear to be consistent and do not fit the definition of pure randomness. These patterns are not statistical anomalies in the dismissive sense, but measurable and repeatable features of price action. It is from these deviations that systematic trading methods can be developed.

Volatility Clustering

Volatility clustering refers to the tendency for large price changes to be followed by more large changes, and for small changes to be followed by more small changes. This effect does not imply direction, but indicates that the magnitude of price changes tends to show persistence. This helps explain why markets transition between calm periods and phases of high turbulence, rather than constant variance. The behavior violates the random walk assumption that each price change is independent from the last.



Figure: A visual example of volatility clustering, with columns marking periods where rolling volatility exceeds a dynamic threshold.

This pattern is central to many econometric and trading models. It forms the basis for regime-based strategies and conditional volatility systems such as ARCH (Engle, 1982) and GARCH (Bollerslev, 1986). Mandelbrot (1963) first described the phenomenon in the context of financial turbulence.

Momentum

Momentum refers to the observed tendency of markets to continue moving in the same direction over short- to intermediate-term timeframes. In statistics, this is shown as positive serial correlation in returns. In simple terms, recent winners tend to keep winning, and losers tend to keep losing.



Figure: A visual example of momentum, showing the slope of a linear regression line over a rolling window. Positive values indicate upward movement, negative values indicate downward movement.

Momentum contradicts the idea that price changes are independent and identically distributed. The effect has been extensively documented across markets and asset classes. Foundational research includes Jegadeesh and Titman (1993), Carhart (1997), and the cross-asset studies by Asness, Moskowitz, and Pedersen (2013). This is a key principle behind trend-following strategies.

Mean Reversion

Mean reversion describes the tendency of prices to return to a long-term average after deviating significantly. This behavior implies negative feedback: the further price moves from its mean, the greater the probability of a reversal.



Figure: A visual example of mean reversion, showing the deviation of price from its moving average. Baseline is centered at zero, with positives above the mean and negatives below.

This effect challenges the assumption that markets move without anchor. It is most evident in valuation-driven models, short-term overreaction trades, and statistical arbitrage. Empirical support includes long-term reversals (DeBondt and Thaler, 1985), medium-term autocorrelation (Poterba and Summers, 1988), and short-term corrections (Jegadeesh, 1990; Lehmann, 1990).

Conceptual Differentiation

These deviations from randomness have different statistical profiles. Volatility clustering reflects persistence in the magnitude of price changes. Momentum is defined by positive autocorrelation in returns, meaning recent trends tend to continue. Mean reversion is characterized by negative autocorrelation, where extreme moves are more likely to reverse. Together, these effects define some of the limited but viable edges that exist within an otherwise random market.

Strategic Implications for Trading

Comprehending these deviations from randomness helps clarify two broad categories of trading strategies, each shaped to exploit different forms of market behavior.

Momentum forms the foundation of trend-following strategies. These approaches are built on the premise that price movements persist over time. Traders applying this logic aim to buy strength and sell weakness, anticipating that trends will continue. The core idea is that price is more likely to extend its current direction than to reverse. Common techniques include:

- Breakout-Based Entries
- Trend Pullback Trades
- Continuation Patterns

Mean reversion, by contrast, serves as the basis for contrarian strategies. These methods are shaped around the observation that extreme price movements tend to reverse. Traders using this approach aim to sell strength and buy weakness when price diverges sharply from a perceived equilibrium. The underlying principle is that price tends to return toward its average following an overextension. Techniques include:

- Fading Overextension
- Range-Based Trades
- Statistical Divergence Setups

Momentum and mean reversion coexist in markets, but their relative influence has variance. In some periods, one could dominate; in others, both have comparable effects. This balance shapes market structure.

Chapter 3: Interpretation and Standardization

Many individuals enter the market with the misconception that technical analysis is a tool for predicting future price movements. However, its true value lies in interpretation. Technical charts provide information about structure and sentiment, which helps us take a reasonable bet. In a sense, there is a prediction based on the past, but with uncertainty. This interpretative approach, combined with a well-tested method, creates a solid foundation.

Markets are not a math problem with a fixed solution. If they were predictable, all variables could be quantified and outcomes automated with precision. In reality, even systematic approaches require discretion and adaptation. Markets are complex environments shaped by uncertainty and disorder. Even the most robust methods encounter both wins and losses.

It is also important to understand the role of perception. As humans, we are wired to find patterns, even in random data. We may focus on evidence that supports our expectations, see structure where none exists, or assume past events were obvious in hindsight. These tendencies often lead to overconfidence and unreliable interpretation. A related issue is overfitting, where methods that appear effective on historical data fail to translate. These may seem precise in hindsight but often lack the ability to generalize, usually due to selective parameter tuning or retrospective reasoning.

The solution is not added complexity, but standardization. To separate random movement from meaningful structure, chart interpretation must rely on consistent and objective criteria. A pattern is not meaningful in isolation but gains relevance when it departs from statistical norms. This must be combined with a probabilistic mindset, where each trade is treated as uncertain and evaluated as part of a broader process.

The Case for Technical Analysis

The purpose of a financial market is to determine the correct price. This does not represent intrinsic value but rather speculative value based on available information.

When new information enters the market, the response between participants may differ depending on interpretation, broader context, and unknown factors. This connects back to the concept of structural disorder, which can lead to movement that does not correspond to the value of the information.

Technical charts look past assumptions about what the market should do and instead show what it has done. They represent the collective outcome of participation, making price movement the most consistent reference point for observing short-term behavior. Traders can evaluate how the market has responded by interpreting price action, without needing to explain the underlying cause. However, in longer-term perspectives, broader fundamental and speculative forces tend to develop more relevance.

The *Efficient Market Hypothesis* (EMH) states that asset prices reflect all available information, adjusting rapidly as new information becomes available. In some cases, the market does have an immediate or forward-looking response to information. However, in practice, responses tend to be delayed or extended over time. These lingering effects may leave traces, which can be connected back to the concepts of volatility clustering and momentum persistence.

Technical tools only provide valuable information to the extent that they measure actual market behavior. Patterns and indicators must correspond to observable tendencies, and even then, randomness and noise remain a component. Therefore, technical interpretation should be applied with a level of uncertainty, critical thinking, and a probabilistic mindset.