

Orbit the Tool

The Orbit Rulebook

The Rulebook provides information about Orbit the Tool – an oscillator model of markets, but somewhat removed from the price action. The Rulebook is focused more on the theory of the market employed in the tool and goes hand in hand with the Playbook which gives the step by step application of the Rulebook to trading the price action. Without the theory well understood however, Orbit trading cannot be properly implemented.

"There is price dynamic (a dynamical pattern), and there is the trading of price dynamic. The two are NOT the same, but to win consistently we must KNOW the dynamics we trade exactly."

S



1923

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Orbit the Tool (Working Prototype)

Orbit the Tool

$$X_{n+1} = F(X_n)$$



The market is a chaotic system underpinned by a fractal structure.

Market Participants



Orbit

FU

Deterministic Trading

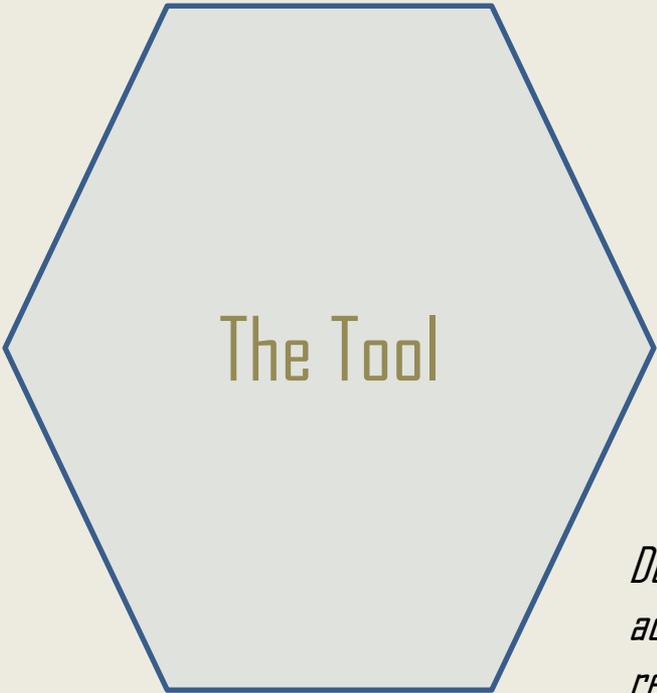
Oscillator Model of markets

*Visual, easy to learn and use
Visual, easy to learn and use*

Mathematically, Orbit the Tool is an Oscillator Model of market movement. An oscillator model is a dynamical model in which the variable evolves through a periodic (or, in the case of markets, an aperiodic) trajectory or orbit (). This periodic trajectory is a loop through space as the state of the system returns to where it began after some indeterminate time. This loop through space is called the phase of the oscillator. Orbit the Tool follows this loop exactly for all electronically traded markets in real-time. Below is how this works in practice.

Changes the Way Trading is Done Forever

Orbit the Tool

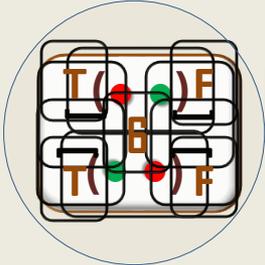


A



Does the mathematical analysis- and presents the accurate state of the market - buy/sell to a user in real-time every time. as simple as that.

The Future right now!



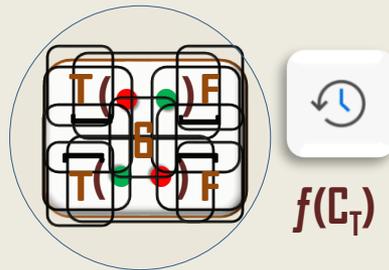
$f(C_T)$



The Science Behind the Tool

Why Orbit the Tool Works, and how Orbit is a fundamentally different approach in Trading Markets.

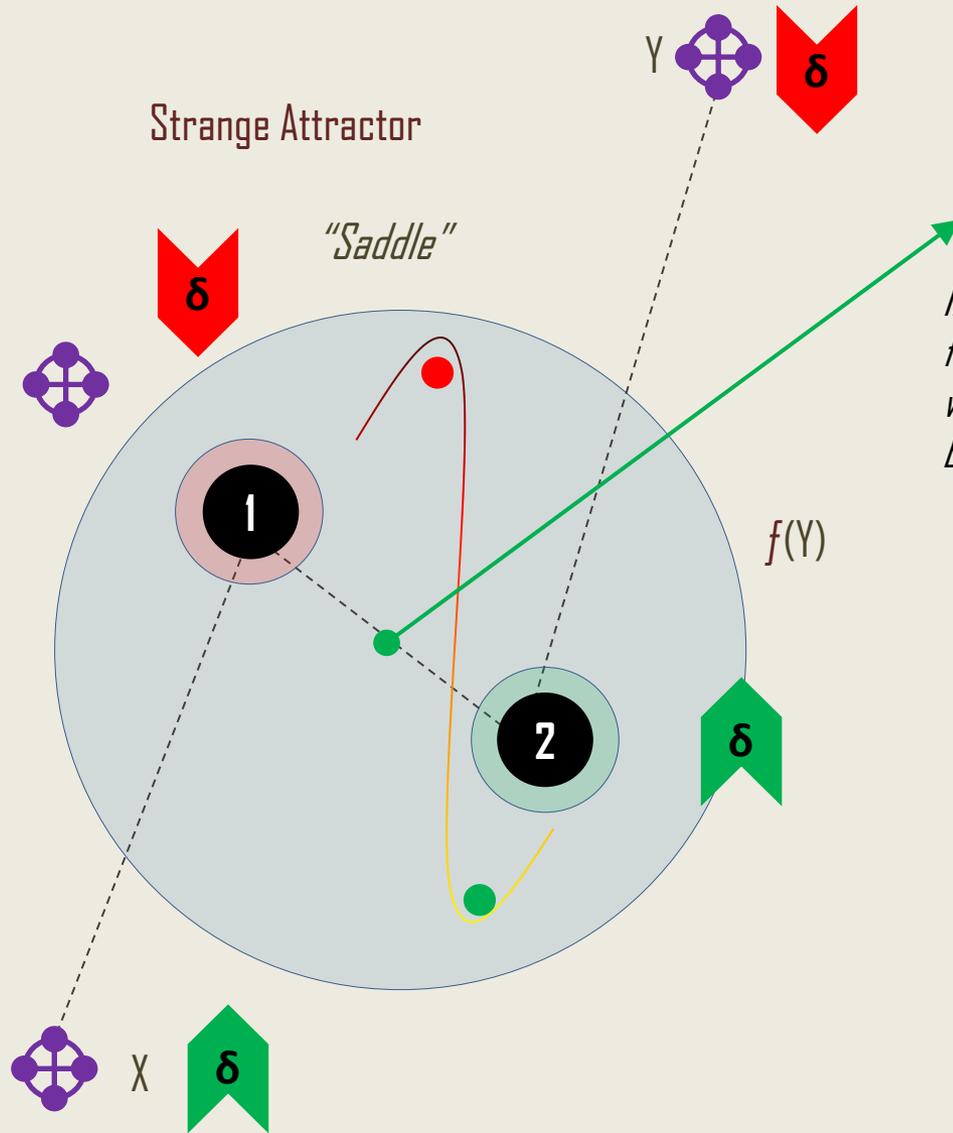
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Spike Event (market objective)

What is Chaos? Chaos is a behaviour in the numbers when assets are traded. Markets are chaotic systems underpinned by a fractal structure and market numbers behave as below.

Strange Attractor



*In other words, **chaos** is the repeated folding and stretching of the **space** to which the variable price maps. Or the exact behaviour of any asset price when traded.*

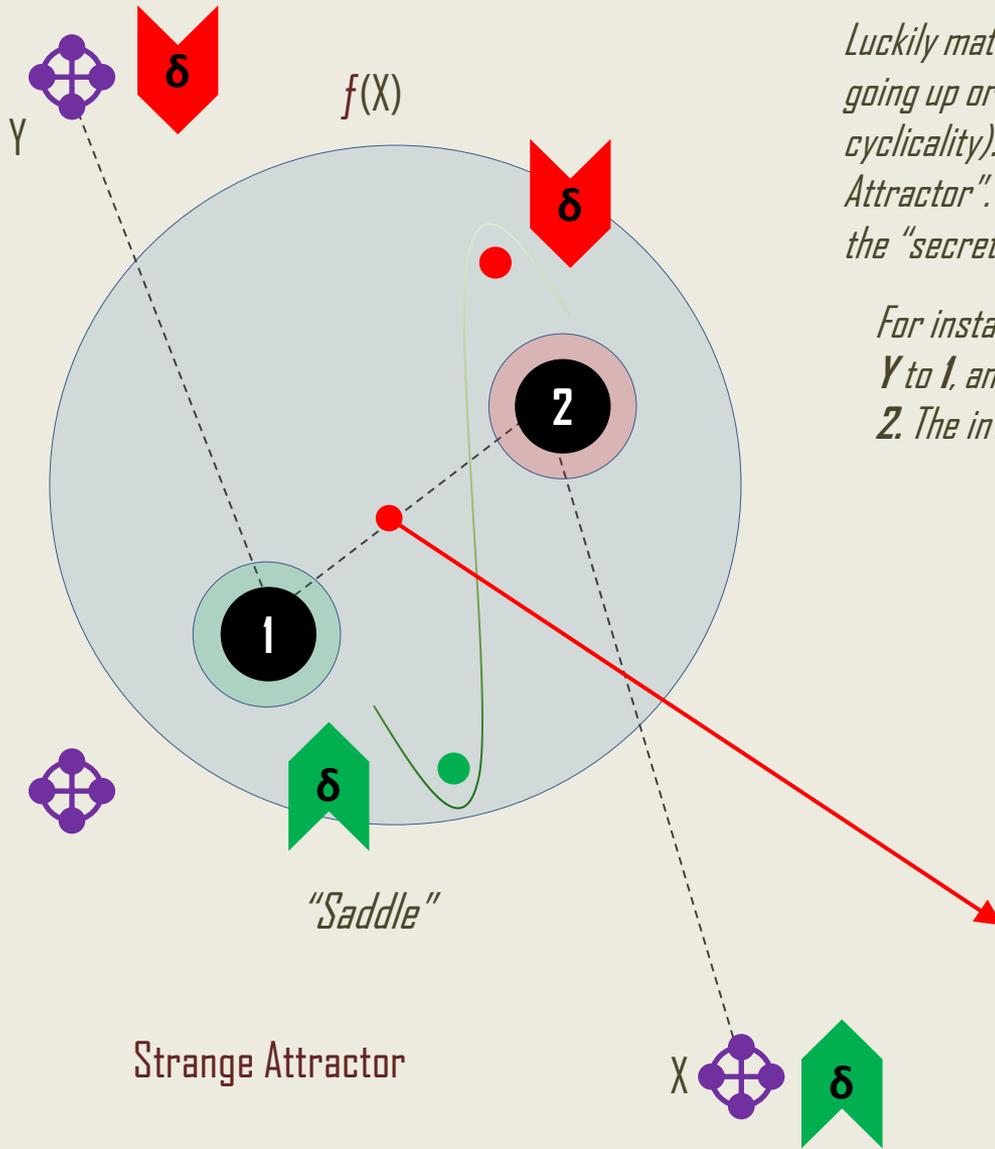
*So, to trade markets efficiently, we need to know and follow this pattern consistently, and aim thereby, to win trades at a **frequency** similar to the pattern.*

Luckily mathematics tells us that chaotic variables follow a path going up or down. This path enables cyclic behaviour (aperiodic cyclicity). This "fixed" pattern or path is called the "Strange Attractor". Knowing the properties of the Strange Attractor reveal the "secrets" of the market (as a pattern fixed in form).

For instance, to fall in space, price makes an inversion low from **Y** to **1**, and a rotation high from **1** to **2**, to reach the point **X** from **2**. The inverse is true.

The silhouette to your left is therefore the outline shape of the market attractor (or fractal footprint), going up or down. As such, the pattern is also the unit of movement, the unit of analysis and the **Rules of Recursion**.

Clearly, and as can be seen and kept in mind, there is a mathematical function at work going up or down for the shape to be constant in form.



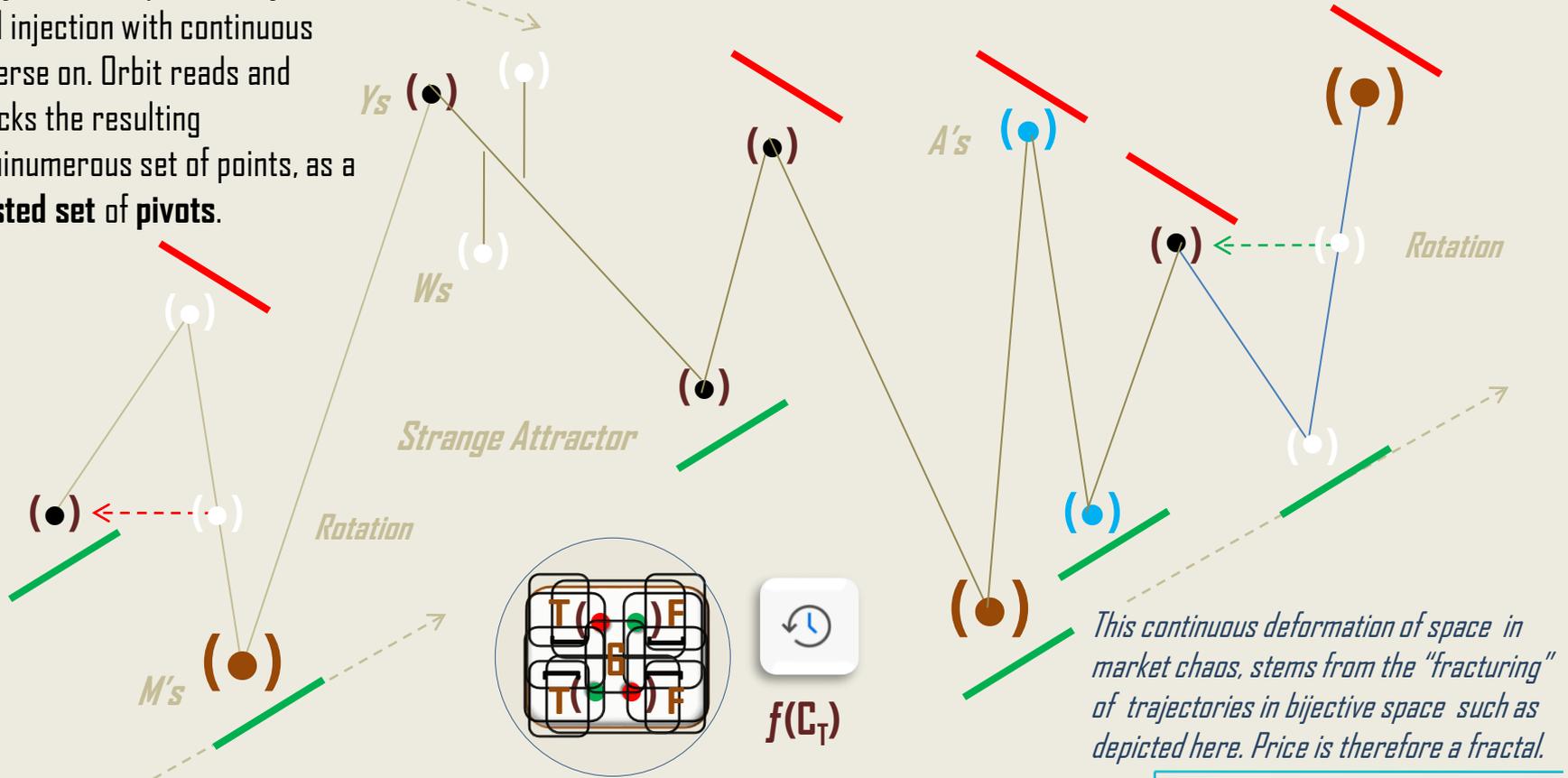
Strange Attractor

Spike Event (market objective)

We know and can see that the repeated folding and stretching along a fixed path or Strange Attractor, is underpinned by a bijective process – a homeomorphism as below.

A bijection comprises surjection and injection with continuous inverse on. Orbit reads and tracks the resulting equinumerous set of points, as a **nested set of pivots**.

Price Evolution at Scale



This continuous deformation of space in market chaos, stems from the "fracturing" of trajectories in bijective space such as depicted here. Price is therefore a fractal.

Progressive Price Action by demarcated Intervals/Spaces (defined attractors), in Time

attractor (c)...

attractor (b)

attractor ... (a)



In the IFS formalism of fractal geometry, you track loops of a singularity by --->:

The Rules of the Rules of Recursion

Orbit the Tool

So Orbit the Tool reads Sequences...

...of the System of nested pivots that define markets

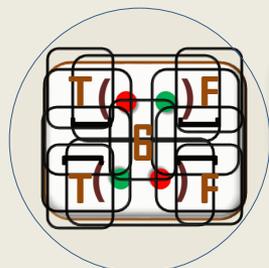
*The pattern Orbit reads in real-time Follows the Strange Attractor **exactly**.*

Any head (except whiteheads), calls a blackhead.
All blackheads trigger Inverse On.

Whiteheads bound space, or path. White calls white.
Whites promote blacks

A single point in bounded space – agitated by the binary buy/sell actions of market participants.

with Continuous Inverse On



A homeomorphic Process

a mathematical Pattern

Tracking “continuously deformed” Parabolic Paths of Highs and Lows in Space

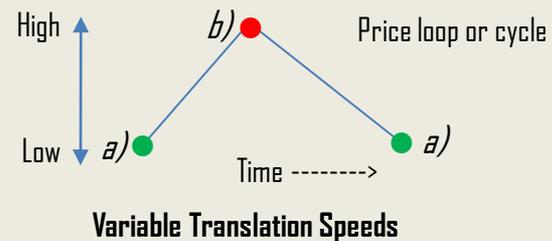
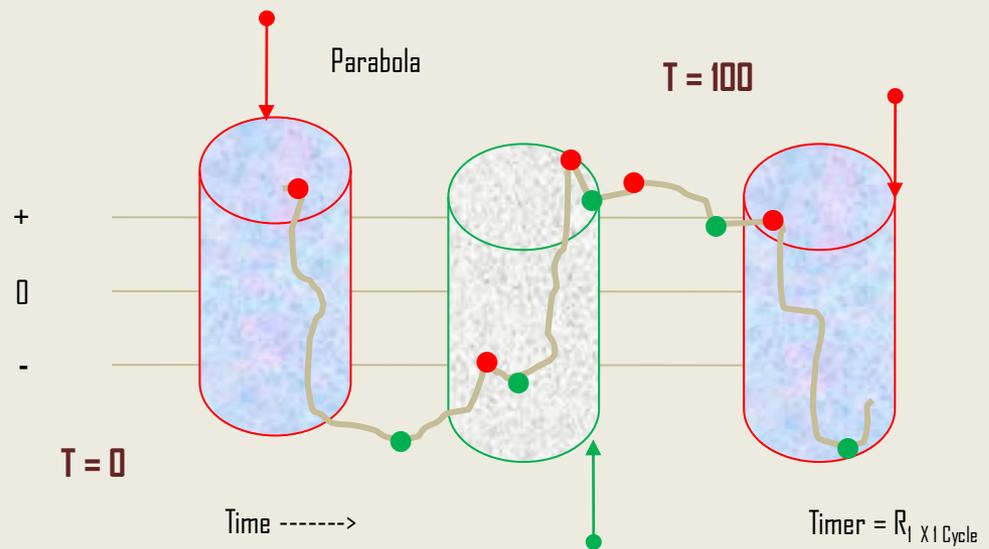
Because dynamic space management is everything in trading, Orbit works the trading space to exact measures. This means among other things, the ability to pinpoint initial values at exact points in time.

This information used in self reinforcing ways (on the Screenface), in communicating with the user, psychologically induces the trader to be more relaxed and able to focus on money management decisions (i.e. profit maximization decisions).

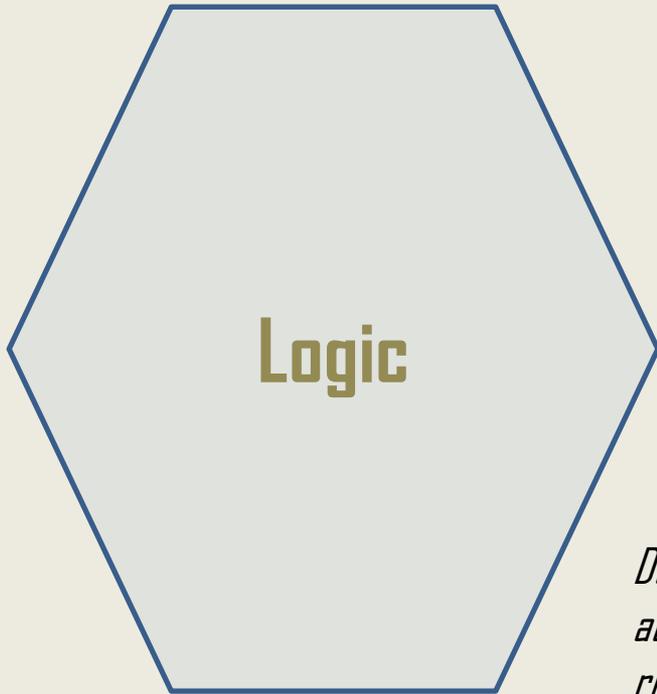
This is important because the user must move away from active risk management to active profit management when the **trade risk** between two points in space is always **zero**.

A transform is from a point *a)* to another point *b)*. The inverse is true. Therefore, a read in chaotic space is between two such points *a)* and *b)* ---> analogous to a diagonal.

Trading is the dynamic management of investments in market space when the variable (price), is repeatedly folding and stretching that same space to which it maps.



Orbit the Tool

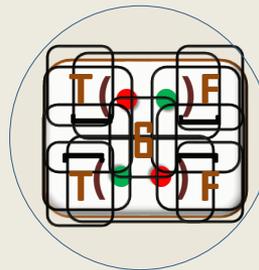


B



Does the mathematical analysis- and presents the accurate state of the market - buy/sell to a user in real-time every time. as simple as that.

The Future right now!



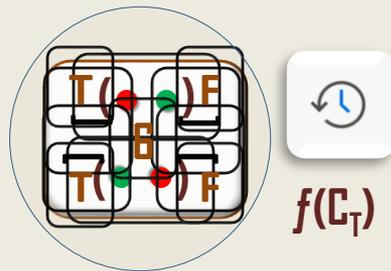
$f(C_T)$

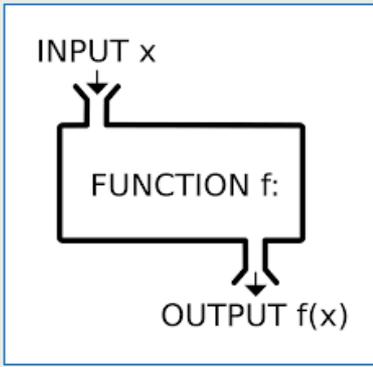


How Orbit the Tool Works

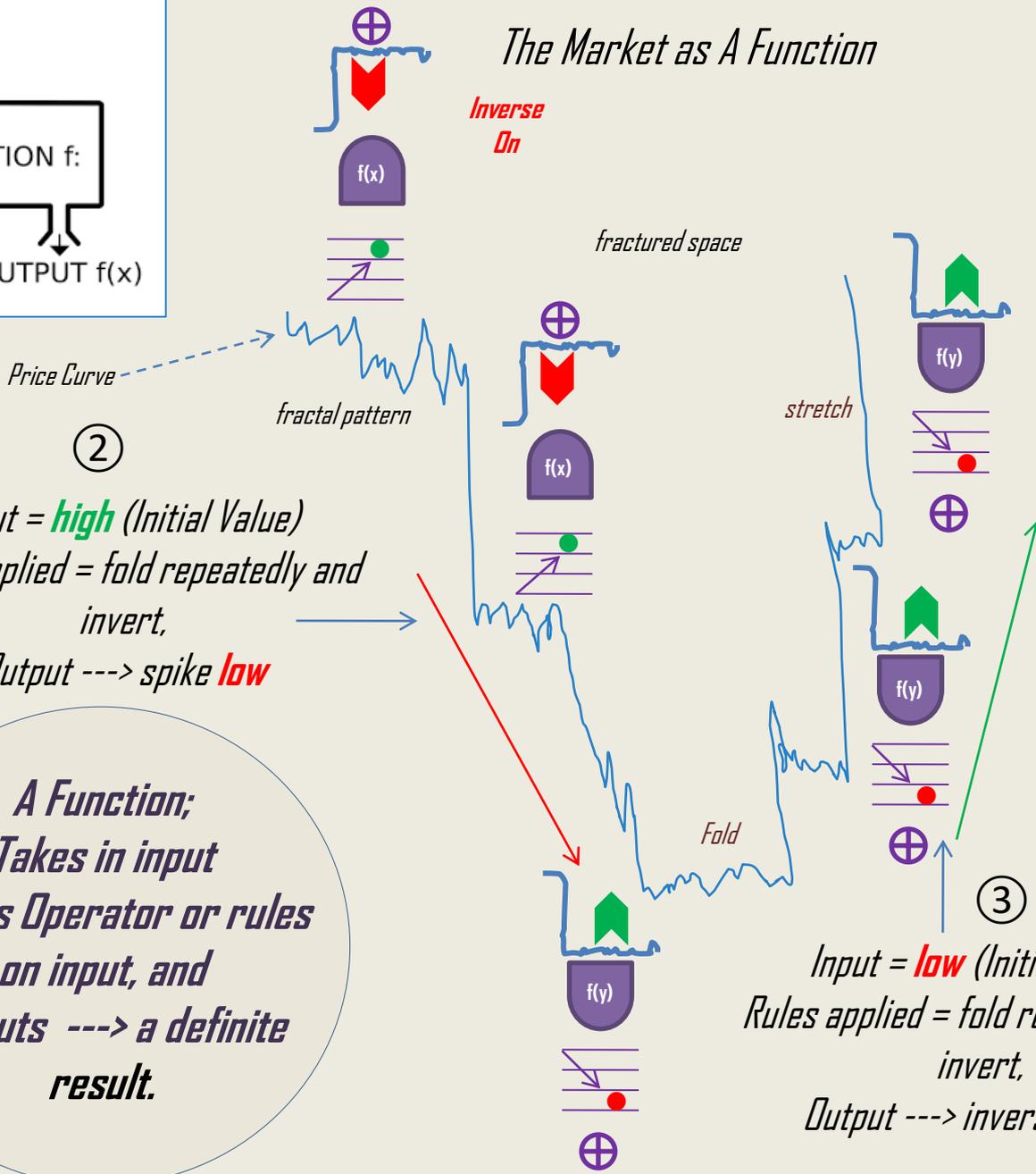
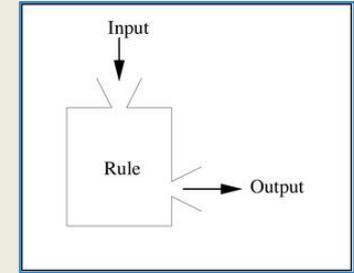
*The tool **reads** and trades the markets
and the user **mirrors** that same
trading. It is important therefore to
understand well the workings of the
tool to properly employ its full power.*

The Future right now!





The Market as A Function



②

Input = **high** (Initial Value)
 Rules applied = fold repeatedly and invert,
 Output ---> spike **low**

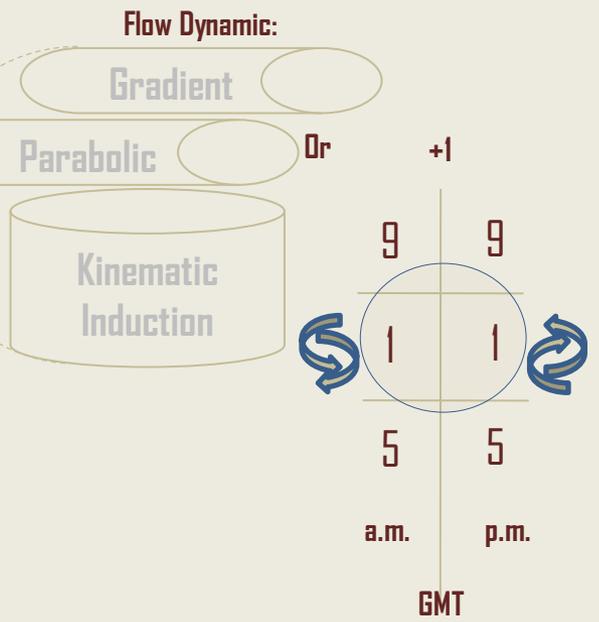
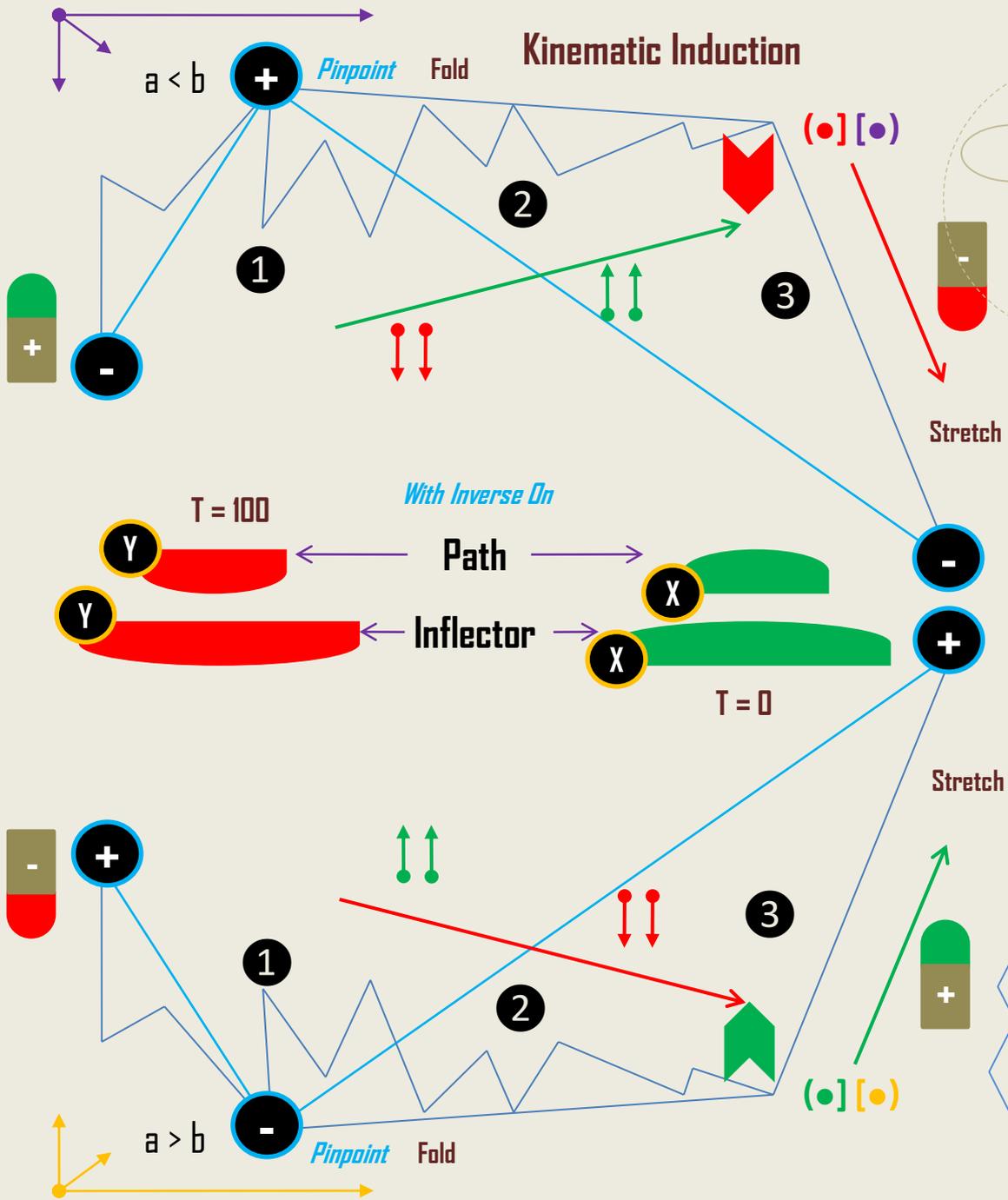
①

A Function;
 Takes in input
 Applies Operator or rules
 on input, and
 Outputs ---> a definite
 result.

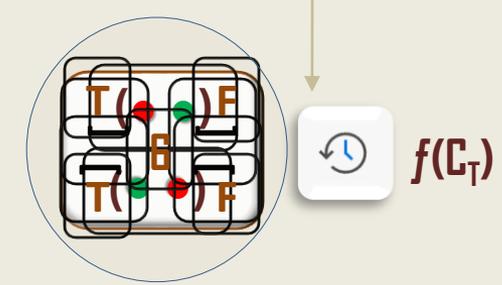
③

Input = **low** (Initial Value)
 Rules applied = fold repeatedly and invert,
 Output ---> inversion **high**

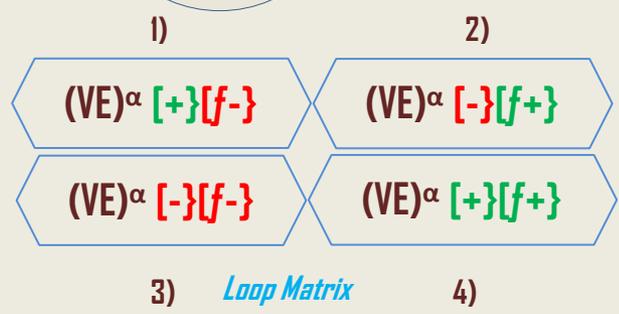
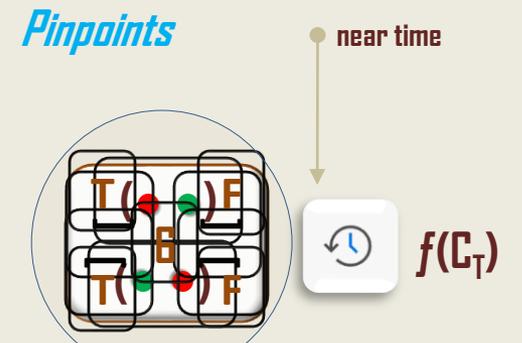
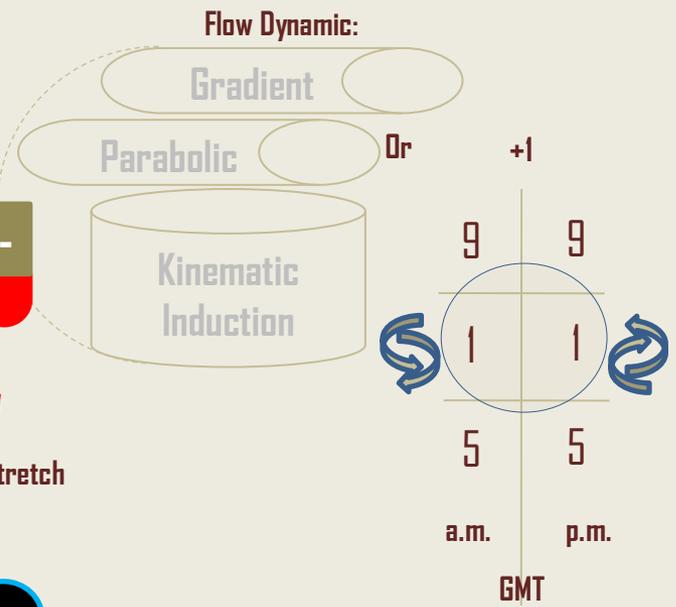
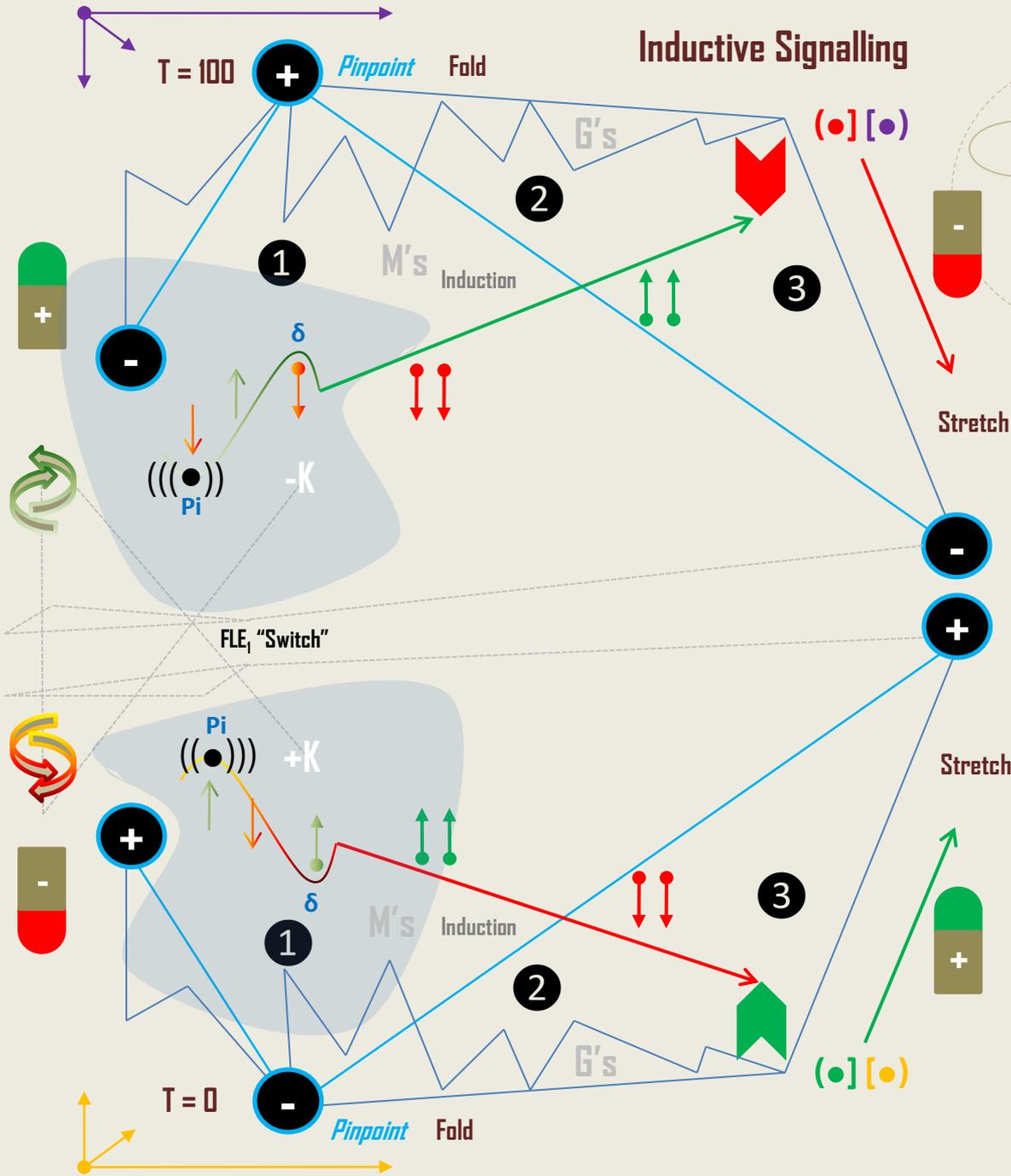
Kinematic Induction



Pinpoints

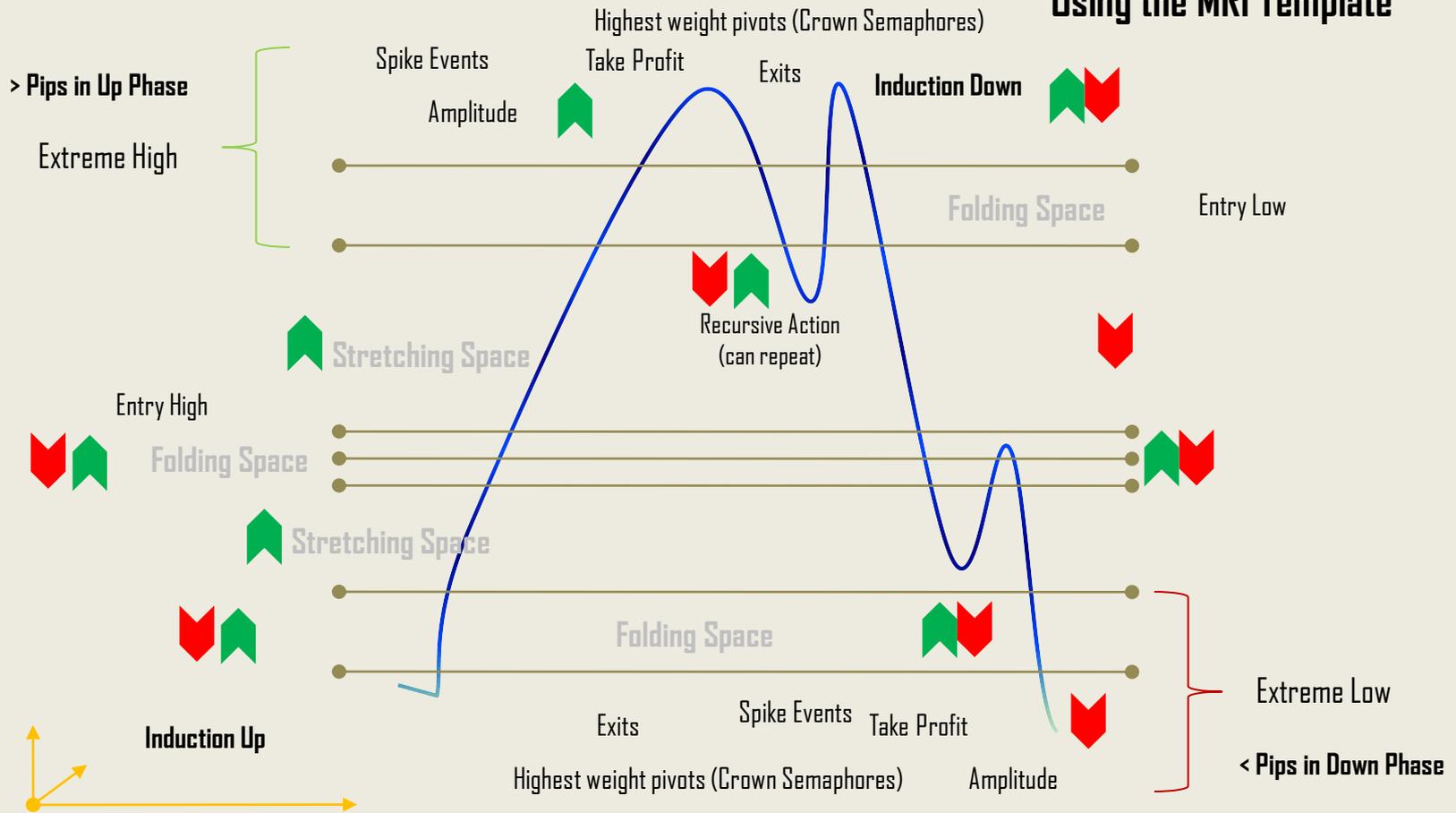


- 1) $(VE)^\alpha [-][f-]$
 - 2) $(VE)^\alpha [+][f+]$
 - 3) $(VE)^\alpha [+][f-]$
 - 4) $(VE)^\alpha [-][f+]$
- 3) *Loop Matrix*



A Single Space Per Cycle – Knowing the Trade Action Space

Using the MRI Template



This scheme is for a single cycle up. Note the space down in an up cycle is rougher trading (true at all scales). The market Fractal is an **Affine Fractal** and fluctuates to shorter limits in the down phase (constructs higher lows only going up). The inverse mapping of a single cycle down carry the same properties, but with direction inverted – In the cloud version, maps will tell user where the market is trading in space and the user can call distribution maps that tell what levels higher lows and lower highs are distributed to (est.) – given the cycle and space.

....Space is a Pattern because we trade a shape. A rough Parabola.

Orbit the Tool

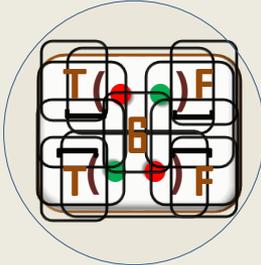
Assessor Test-Trading Crash Course

C



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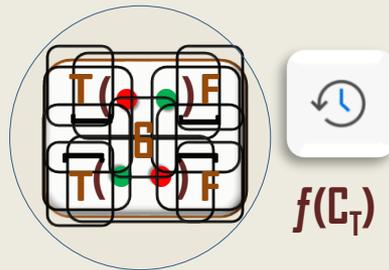
$f(C_T)$

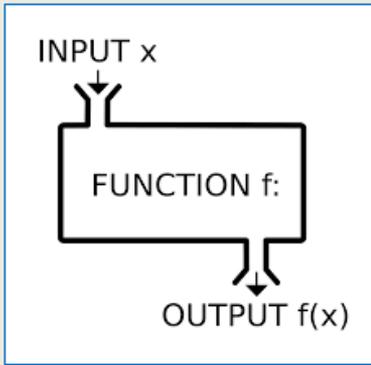


Easy to Learn,
Easy to Use.

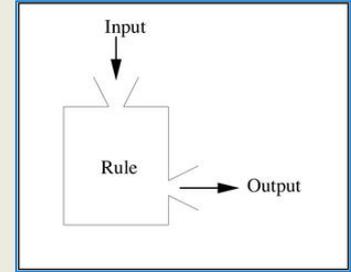
*Orbit is a **visual** tool, **easy** to learn and use. The tool is a utility for mass application, and potential users, investors, market analysts, etc will actually benefit from a hands on knowledge of applying the tool to generate results to confirm the claims we make directly.*

The Future right now!





The Market as A Function-AGAIN



Inverse On

fractured space

stretch

Fold

④
Chaos is a behaviour in the numbers when assets are traded. This is that behaviour (repeated folding and stretching of the space to which price is mapping).

Inverse On

INPUT x
 FUNCTION f:
 OUTPUT f(x)

Price Curve

②

Injection, Surjection and Bijection tell us the ways a function behave. We can also tell by this when something is a non function.

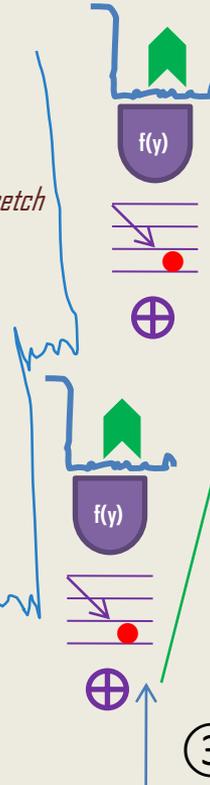
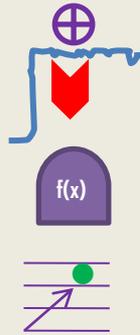
①

A Function; Takes in input Applies Operator or rules on input, and Outputs ---> a definite result.

③

What we are saying is that our setup proves that the market is a bijective function with inverse on and that this this explains the market completely.

fractal pattern



Uses a notion of Hurst Exponents to tell what type of fluctuation we have in range.

How does Orbit the Tool Communicate with the USER?

Orbit employs **Screenface Icons (like on mobile phone screens)**. What is displayed here relate to the **prototype ONLY**. In the **cloud version** we use a different technology and a different set of Icons to the same effect.

Tells the user whether or not it is wise to keep long-term trades. Its components also converge and diverge.

①



Tells how a partition (timeframe), is phasing. Shows underlying degree of synchrony in a move

⑧



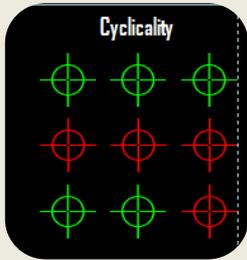
They mark turns for short and long-term moves. Combined with other Icons to indicate an Orbit Trade in the prototype

⑦



The Kinematic Similitude Oscillator (KSO), employs notions of kinematics (the geometry of motion), to track price between the limits low and high.

②



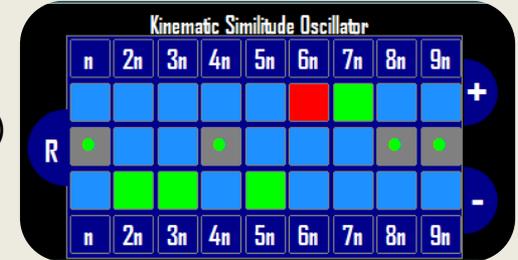
...⑩⑪⑫...ETC

⑨



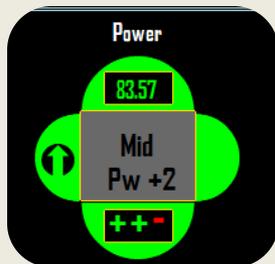
They mark turns for short and long-term moves. Combined with other Icons to indicate an Orbit Trade in the prototype.

⑥



Marks the actual turning point at scale and tells when and where we started, and how far we have come, etc

③



The "Butterfly"

The Orbit Arrow

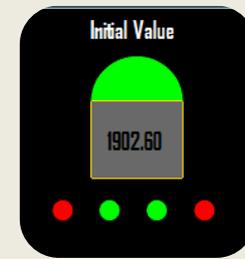
④



Command & Control

The Orbit Arrow is discussed in some detail elsewhere.

⑤



①

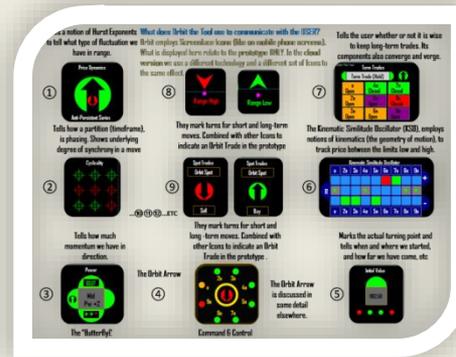
The principles of *Oscillator Synchrony* in Market Space.

③

Using analysis in fractal geometry called **box counting** (measuring for lacunarity), the number of Semaphore points made in folding time and space is more than the number made across the same space when the market is **scaling** a move (stretching). This means that because of certain inverse relationships in the same space, when an assigned set of "Oscillators" are **asynchronous** in range, only local intraday **pivots** are being made (i.e. price is folding in the FLE, with largest Semaphores no more than $Y(2)$ in intraday resolution (H4 or 6n)).

However, when **synchrony** is increasing from left to right across the **feed** ($n - 9n$), a global market objective (new key level), is in play. This is because, as a rule, all partitions (time frames), must register new global lows and highs (new key levels), at the same time and point. It is important to keep this in mind when thinking about Orbit "Signalling," explained ahead.

The **best way** to read and understand **Screenface Icons** (Chaotic loops as clockwork).



②

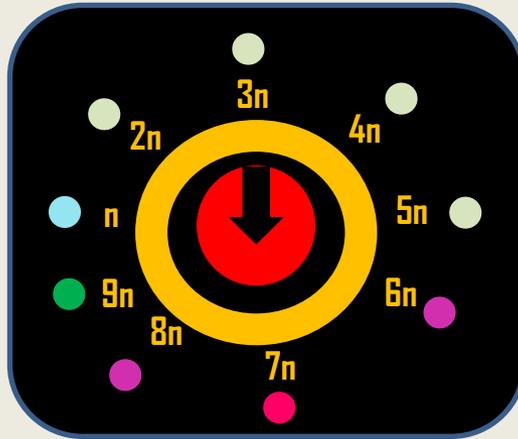
Using this principle, it is very easy to understand how **Orbit Screenface Icons** work. It is all about **transformation**. When a transform begins from low to high there is little cohesiveness in direction across time frames so "**Oscillator Synchrony**" is weak. But as the transform grows, cohesiveness grows across space and Synchrony tends to 100% **intraday**. This is basic convergence divergence behaviour. Since a user knows that we measure H4 point to H4 point the user simply measures convergence by relating growth in direction to degree of Synchrony in the various Icons and of the Icons among themselves.

For example, think of price at a **high extreme** turning down. At first, Fractal Pattern, Cyclicity, KSD etc are all green or Gold. But as price persists lower we notice **Phase In-cohesion** or **Dyssynchronization** (colors and pointing in the up direction become **mixed**), starting with Fractal Pattern, then Cyclicity, etc. But after a little while, we see Fractal Pattern is all red (or definitely becoming so), as is cyclicity, KSD, etc. In other words, we see convergence expressing **Phase Cohesion** or **Synchronization**, as the variable **converges** on some extreme **low point** in space. This is how to read the icons individually and collectively. This is why we **wait** for Orbit "signals" to trade.

Which bet do I make?

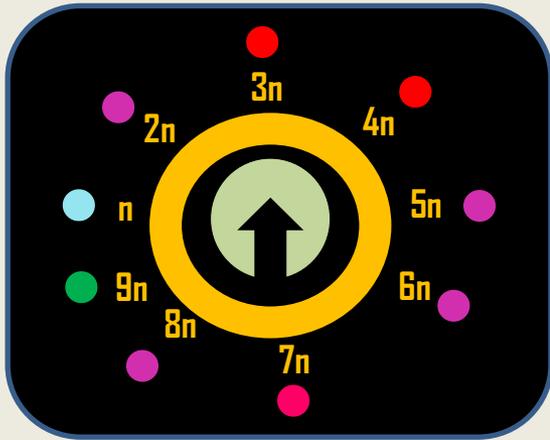
Inductive signaling is **NOT** based on reading one or two icons but on reading the **entire screenface** to **judge** the market. We explain more ahead, but for now, we ask based on displays 1, 2, and 3, on which signal set would you **bet** your money for a **buy** entry?

① Orbit Arrow

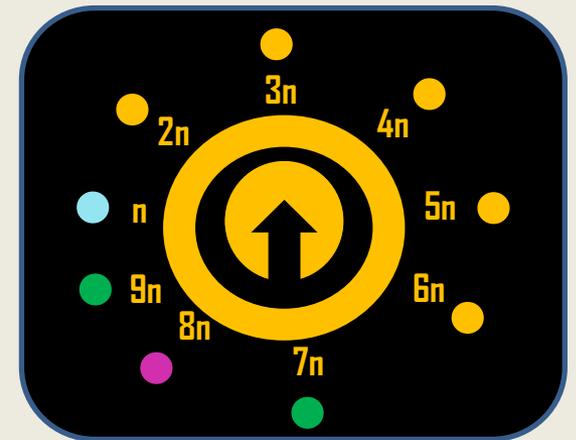


We can see from the middle behaviors of the KSD the disposition or **bias** of each signal set. Clearly, 1 and 2 are still in range. In 3, KSD middle values intraday do not exist as everybody is away attacking the highs intraday. Your **mind**, the **Orbit logic** and the “**signaling**” all agree 3 is the best bet

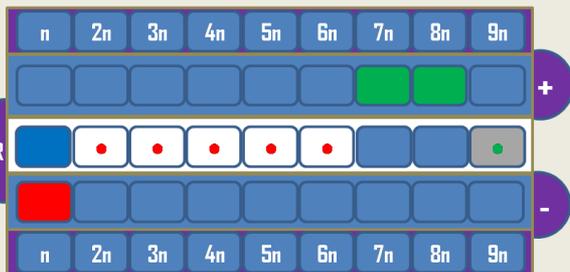
② Orbit Arrow



③ up.
Orbit Arrow



Recalling the **Orbit logic**, we see that price is at a low **pivot** - in H4, and displaying a Crown Low Semaphore. And recalling the **MRI Template** map we see that price is trading the MRI extreme low **space** but is **visually** turning up. Tentatively at first, but now strongly so as is to be expected in that space after a spike low.



Orbit the Tool

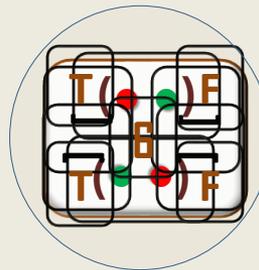
D



Final Examination

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The Future right now!



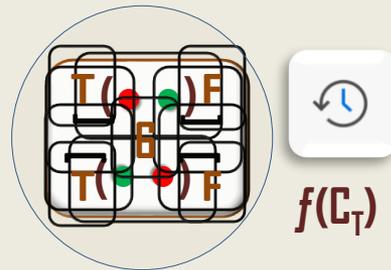
$f(C_T)$



A Crosscheck Using the Logistic Map

We have shown Orbit so far as a tool that reads market fractals by fractal Rules of Recursion. But fractal geometry is the geometry of chaos and so here we express Orbit as a chaotic model to see that it works the same way as it does with fractal geometry. Fractal geometry and chaos are different expressions of the same thing.

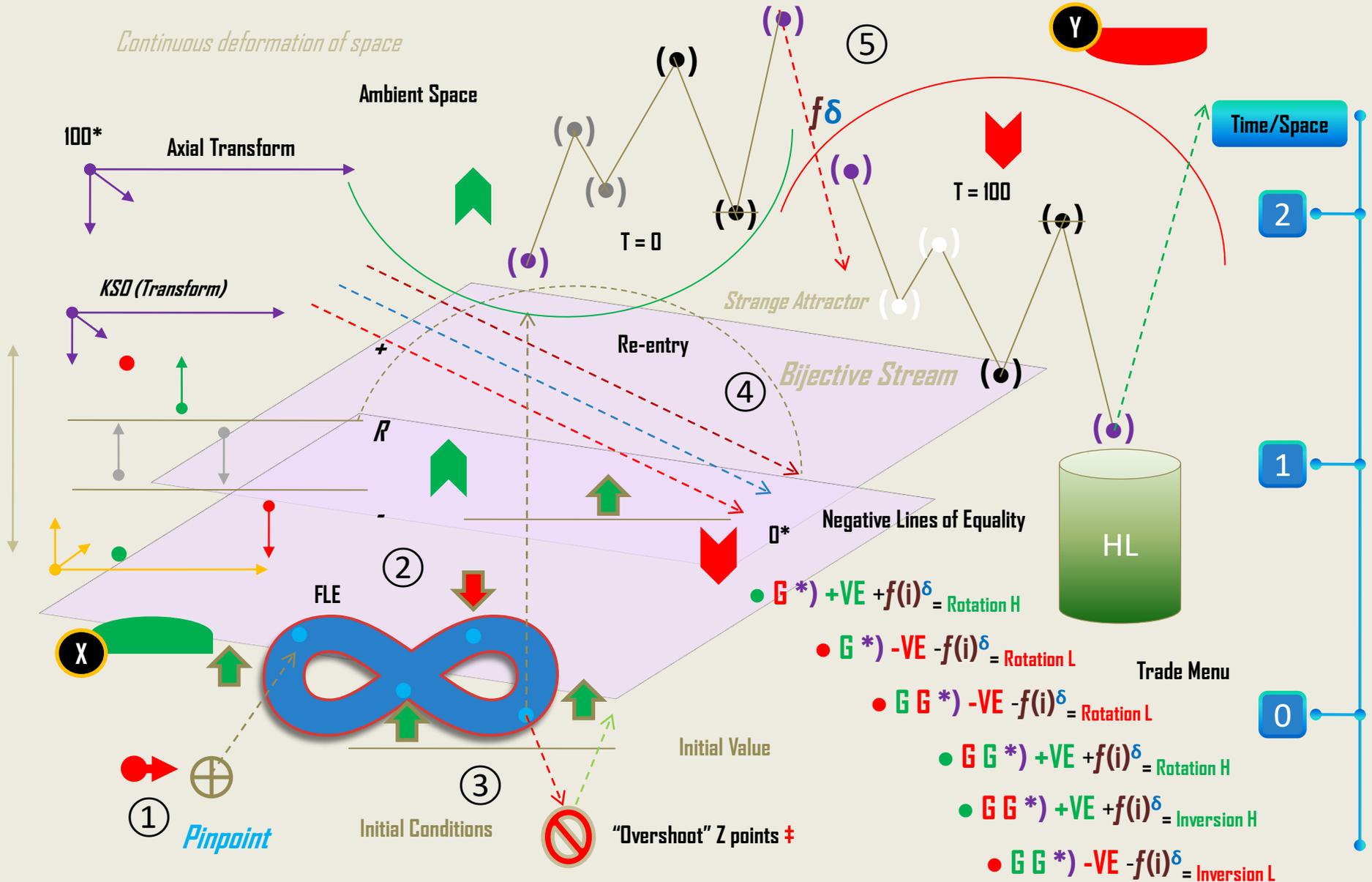
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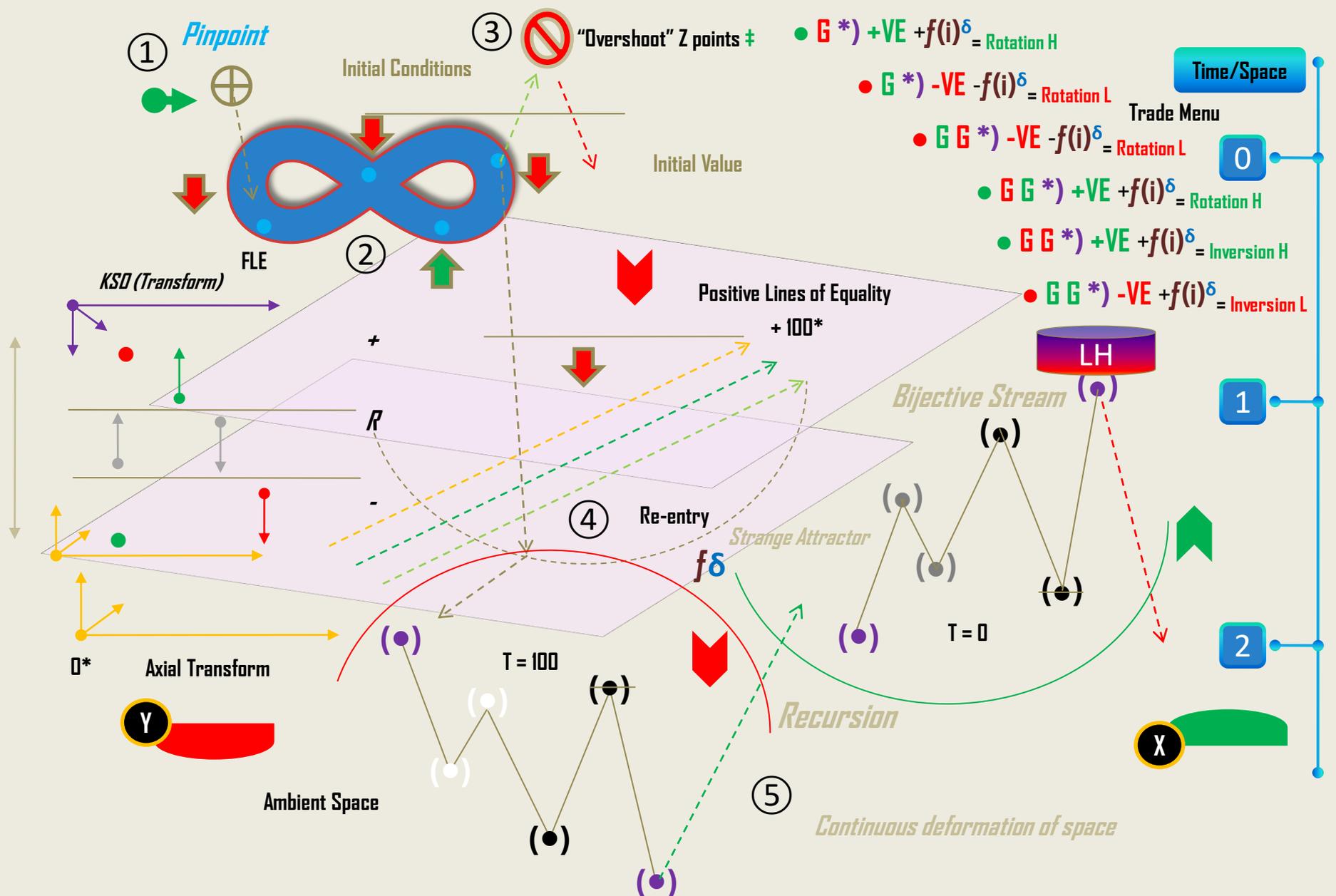


The Chaotic Model - Up Flow

Recursion

Continuous deformation of space





The Chaotic Model - Down Flow

"Trend" equity is measured by the **Term Trades Arrow** which is not the same as its G_n component. Divergence/Convergence between them follows the usual rules of Synchrony.

③

Term Trades		
Term Trade (Hold)		
n Open	4n Open	7n Open
2n Open	5n Open	8n Open
3n Open	6n Open	9n Closed

④

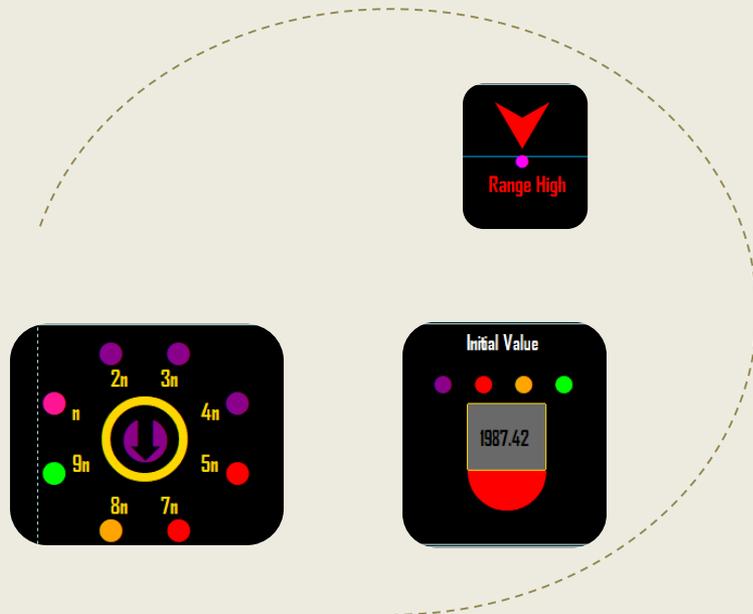
We do NOT "follow" "trend" in Orbit we follow the Singularity. The duration of "trends" is arbitrary.

②

"Trend" in Orbit and the behaviour within a given "trend" is measured in summary by G_n partition colour changes.

①

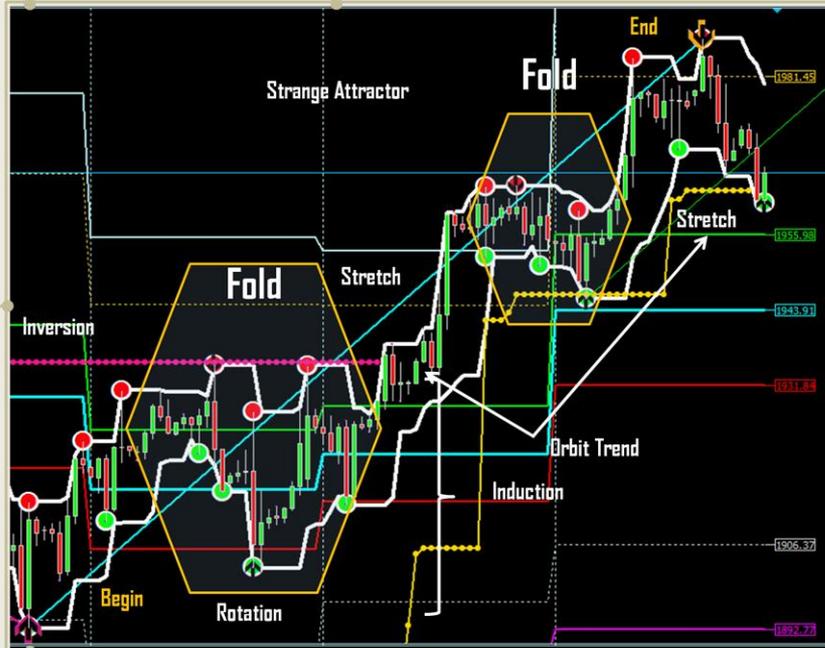
It is not an academic but empirical fact that market professionals (Wall Street and Co.), as well as market participants worldwide think in normal curve mathematics. Normal curve mathematics is also what is taught to our best and brightest MBA's and future business leaders. Mandelbrot showed with reference to market distributions that market distributions are wild NOT normal. What we experience trading are not "trends" as normal curve mathematics will have it. As such, the common notion of "trend" is not employed in Orbit. Hence we follow the Singularity not a "trend." That way, we define the same spacings in time as Mandelbrot specifies.



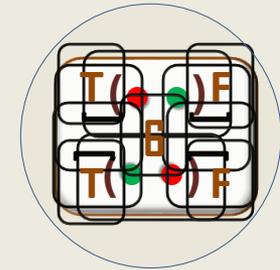
The Anatomy of Market Flow

We trade a shape

A constant form or shape



Inverse is true



Recursive in the parts and in whole - Fractal

The market is a multifractal, a complex dynamical system. Nothing else defines it. And we present this here in the way market participants see it, sense it, and experience it day in day out – the market as the fractal that it is. Straight lines fractured by the repeated folding and stretching of the space to which price maps.

Orbit the Tool

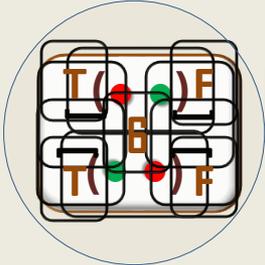
Beyond the Prototype

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$f(C_T)$

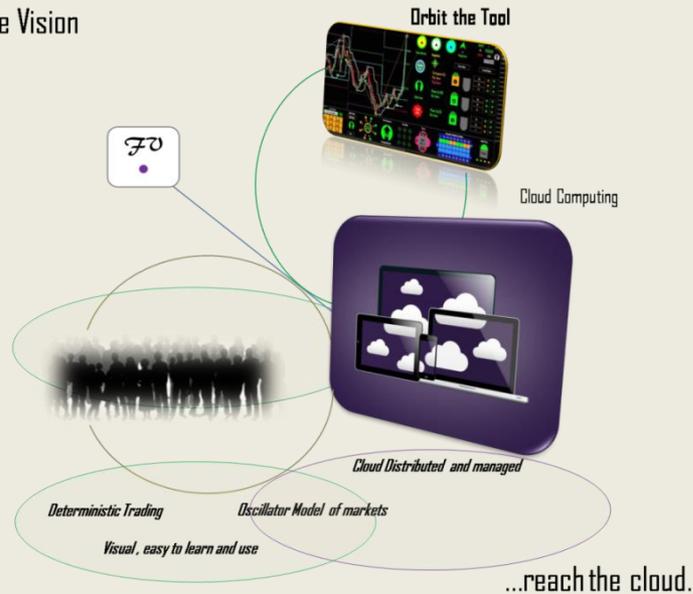


The Future Right Now!

Many will be satisfied with the performance of the prototype tool as is after trade testing the tool. But from the beginning our vision was beyond the prototype by much more.

Our vision is to reach the cloud and then reach vast crowds from the cloud. The technologies and services that can be made available from the cloud, imply an easier to use and a more sophisticatedly interfaced tool. And with such a level of user friendliness as to make the idea of online trading and investment anew. Widely increasing accessibility and therefore the participation of diverse publics in financial markets – at little risk.

The Vision



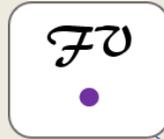
The range in the difference between a cloud based tool and the prototype tool is vast and includes many implementations not possible in the current interface.

In-use feedback on the prototype is therefore important to us at this stage and is the immediate objective here. But the prototype is as they say “just the tip of the iceberg.”

The prototype tool allows a hands on examination of our goal by potential users and investors in financial markets, demonstrating in this way, the potential implied by the tool to themselves. This explains the frequent reference in the text. to “a cloud version” The cloud version is the goal – as only such computing environment will enable the presentation of Orbit the Tool as originally conceived for the USER’s benefit.

The Vision

Orbit the Tool



Cloud Computing



Market Participants



Cloud Distributed and managed

Deterministic Trading

Oscillator Model of markets

Visual, easy to learn and use

...reach the cloud.

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1. <https://youtu.be/ZMeSgggzRcQ>

2. Please visit the video link which visually presents our application of **chaos** mathematics in gaining our solution.

3. <https://www.complexity-explorables.org/flongs/>

4. Please visit and review the **Logistic Map** which is the same equation *form* as the “**analog**” equation on which our application is based.

5. Letters: HDM, PGD, MBA

