The
Orbit
Playbook

"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

The Playbook provides information about Orbit the Tool – an oscillator model of markets, but somewhat removed from the theory of the market employed. The Playbook is focused more on the step by step application of the Rulebook to trading. The Playbook goes hand in hand with the Rulebook which focuses on the theory of the market employed.

FU

1923

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Orbit the Tool (Working *Prototype)*

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

Orbit the Tool

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.

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

Market Participants

Orbit

Deterministic Trading

Oscillator Model of markets

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

Changes the Way Trading is Done Forever

A

The Tool

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

The Future right now!

$f(C_T)$

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The Science Behind the Tool

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

The Future right now!

$f(C_T)$
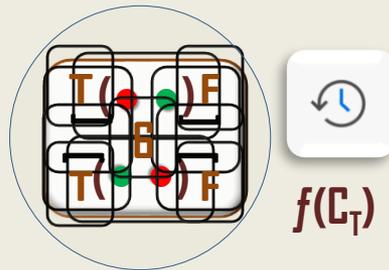
Test Results Show a New Breed Trading Tool – based on new technology

①

A trade and the associated risk of the trade is changed when you know the **begin** and **end** points of the move **exactly**.

The time and space between those two points (begin and end), is said to be risk-free.

Orbit the Tool calls **buy/sell** commands **ONLY** when there is **zero risk** in range.

This enables the user to make significant trade bets per period routinely and safely .

Orbit the Tool (Working *Prototype*)

Orbit the Tool

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

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.

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

Changes the Way Trading is Done Forever

The most profitable trades at no risk.

Read on to see how.

②

Orbit the Tool calls **buy/sell** commands on a special measure called *initial value.* In the science of Complex Dynamical Systems, *initial value (also called the* **seed***),* is the exact point/time when a cyclic "trend" begins.
Orbit finds *initial value* for the largest "immediate" market objective, every time.

So, as a rule, Orbit isolates the **most profitable** trades in market time. And Orbit does so without error always.

To understand this presentation, the reader is required to view markets differently from the way markets are viewed at present. In the new view, the market is a single price point bounced about some bounded space by the incessant **buy/sell** activities of market participants.

Where such a point evolves according to a known pattern, then the market is most profitably traded by following that pattern. That is, following the **rules** that repeatedly make the shape or pattern **true** in range.

Here, we describe the market (whether going up or down), by an exact pattern or shape that follows a fixed rule by which the pattern repeats itself in range (market space).

Spike Event (market objective)

Strange Attractor

"Saddle"

Y

δ

δ

1

2

δ

δ

X

δ

f(Y)

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.

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.

③

Orbit the Tool is driven by the equation in "2" and hence it finds initial values at all significant turning points, and does so without error every time. Orbit does so without error because, Orbit matches all the points designated significant by the market equation every time. This is because the Orbit equation is the same as the market equation.

②

For a complex dynamical system (CDS), such as the market to repeat a form or shape consistently, that form MUST describe a function, a mathematical equation.

Orbit Screenface Communication

①

A function (equation), that comprehends the market's shape, also comprehends exact information about market conditions at all times.

②

So Orbit the Tool retains and transfers accurate market information as is appropriate to keeping a user in the trade across trades. From trade inception to trade exit the user is certain of outcome.

③

f(X)

Y

δ

δ

2

1

δ

"Saddle"

Strange Attractor

X δ

Spike Event (market objective)

Luckily mathematics tells us that chaotic variables follow a path going up or down. This path enables cyclic behaviour (aperiodic cyclicality). 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.

Orbit the Tool is as such a professional grade tool that is visual , easy to learn and use. and is accessible to both professional and other financial market participants regardless of starting skill level. A most efficient price discovery apparatus that establishes not just as a trading utility but a reference market utility as well - because of the accuracy of the tool.

In the cloud version, Orbit **Screenface** is a visual device unique to **Orbit the Tool.** It is called an authority led interface because it not only provides the user with authoritative market information to keep in direction, but does so at strategic trade decision points. The cloud version will employ interface technology that replace a current screen with another. That other containing information required by the user. This aspect will be user programmable. The user is enabled to maximize access to trading information in real-time by this means (the relevant modules also incorporate animation and special graphics to highlight delivered output). The user can also call specific information whenever needed. For instance, the user may wish to know relative market depth across the feed (time frames), or may wish to know estimates of Take Profit levels ahead, etc. This technology is of course unavailable in the prototype as it requires a proprietary environment.

Transforms Underpin Orbit Accuracy

To understand the science behind the kind of precision we are talking about please note; Orbit the Tool measures the transformation of points between two bounds in space.

①
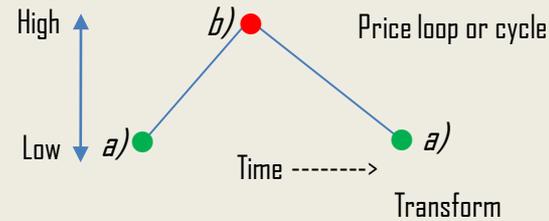
②

Transformation that leaves the structure of its object unchanged. Which is one way in mathematics to confirm with certainty a value that may be evaluated ONLY in space where exact distances are not as important as the proximity of points in defining relationships between points in the same space. In short, an exact way of dynamically finding highs and lows in the same sense as 2 + 2 = 4.

High

Low

b)

a)

a)

Time -------->

Price loop or cycle

Transform

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

Ys

Ws

As

A's

Strange Attractor

Rotation

Rotation

N's

$f(C_T)$

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.

attractor (c)...

attractor (b)

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

attractor ...(a)

a) No "technical" analysis skills or knowledge needed.
b) "No fundamental "analysis skills or knowledge needed.
c) No special trading skills or knowledge needed.
d) Users follow direct signals of the tool.
e) Tool signals are accurate at all times.

③

This analytical framework does not require nor does it admit any information outside of the numbers from reading the bijective space depicted above. It is purely mathematical. The amazing accuracy that results, evidences the extreme superiority of the application Orbit the Tool to currently alternative methodologies.

The Chain Reaction - ahead

①

Technology is science applied to production.

The Science is mathematics

Combined with the specific means and ways of output delivery and given the theatre of application, we have a completely new TECHNOLOGY in trading using Orbit the Tool.

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

$f(C_T)$

A homeomorphic Process

a mathematical Pattern

②

Orbit opens new opportunities and new business segments for businesses and market participants.

Orbit adds new and more accurate dimensions to market analysis.

Orbit promotes a new risk free mentality, a different trading and investment culture.

③

Orbit the Tool is a valuable asset because its output in the hands of masses of traders (professional and otherwise), is the future NOW!

①

Until now, traders talk about so-called "trading systems" which are actually partial guesses at how markets work and are largely undependable long-term.

Orbit the Tool *is a* **mathematical model** *of markets and therefore a complete explanation of how markets work.*

Orbit the Tool (literally), transforms the trading space from risky space to risk-free space. Orbit introduces knowledge of exact market limits and timing in real-time. In other words, Orbit the Tool is the first and ONLY **deterministic** *model of the market the financial world has seen.*

The Difference is between a "trading system" and a Mathematical Model.

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 (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 a game changer 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.*

Parabola T = 100
T = 0
Time ---->
Timer = $R_{i \times 1\ Cycle}$

High b) Price loop or cycle
Low a) a)
Time ---->
Variable Translation Speeds

④ **Typical**

Kinematic Similitude Oscillator

XAUUSD
Date: 12/07/2023
Entry: 1934.80
Stop: 1933.30
Target TP: 1953 (Hit)

Orbit **Pinpoints** *Highs and Lows in range without error at all times and isolates initial value exactly each time.*

③
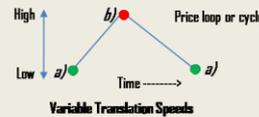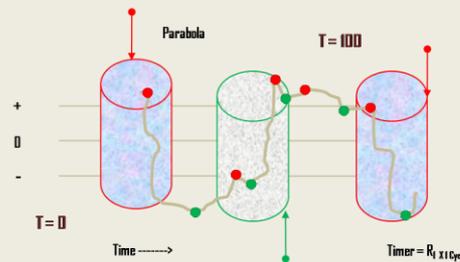
②

Orbit the Tool is a valuable asset because it induces an environment, outside of which, extra normal profits **cannot** *be made consistently in trading. This is the future NOW!*

①

In a construct where space and time management are key it is not an overstatement to mention the knowledge of that space as fundamental.

Chaos mathematics mentions dense orbits as a fundamental of chaos. The market Strange Attractor is thoroughly dense with orbits closely packed (is a sense of this phenomenon).

In this type of space distances and size don't matter, the focus is only on the structure or the **shape** of interest. And you need a way of quantifying the properties of the shape or space that are preserved under continuous deformations such as stretching.

Trading is about a "Shape" – a recursive Shape
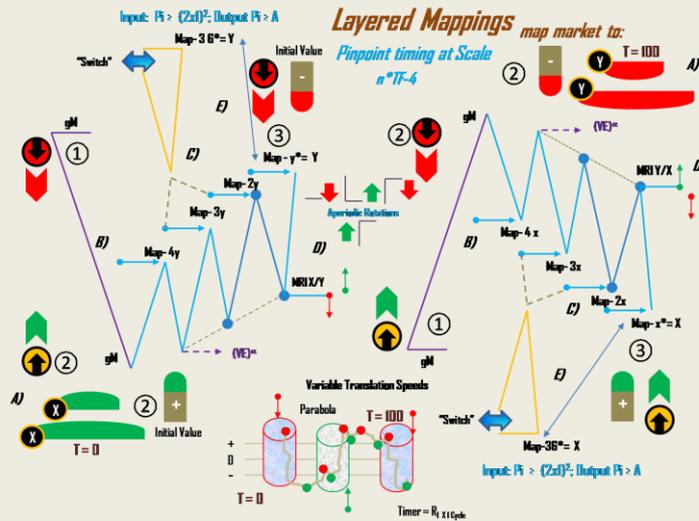
As a result, Topological thinking dominates our market modelling. because the relationship between elements in market space is more important than the distance between spaces.

Orbit the Tool is a valuable asset because its analytical structure is compact and endogenous. That is the future NOW!

In the cloud version lookbacks are done away with as are so-called "technical" indicators. Direct electronic mapping of orbits will replace layered mappings. An innovation making for an even more robust analytical structure than in the prototype.

This feeds into modelling outside of the tool that generates correct lookbacks for the tool which support the **rulebook** used in defining the tool. In this way Orbit keeps the "**clockwork**" of chaotic cycles sacrosanct.

②
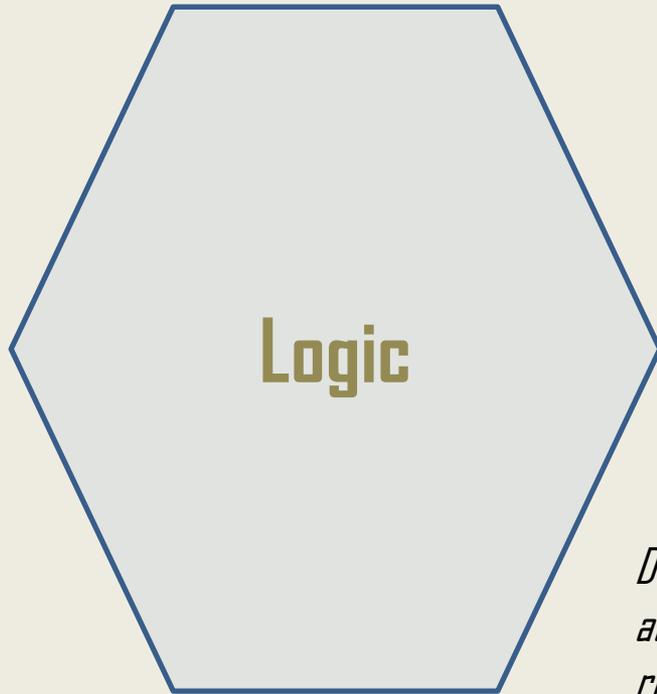
B

Logic

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

The Future right now!
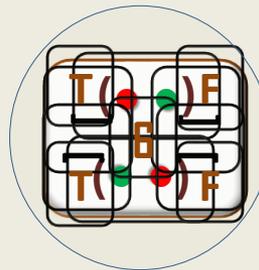
$f(C_T)$

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!

$f(C_T)$
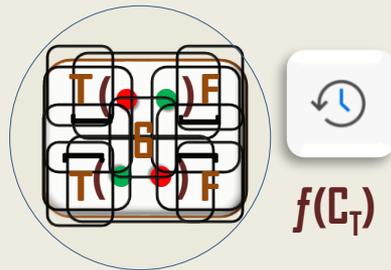
①

Orbit measures the transformation of points from range low to range high and similarly from range high to range low. Subject to algorithmic interpretation, and based on checks and added structures, Orbit **signals** the end of transforms using a Screenface **Icon** such as is depicted here. The end of a given transformation is the end of a move up or down (a single phase).

The end of a move (phase), is **NOT** an entry call . Price is inductive (follows a series of steps). to turn. We explain this in the next slide. On the **valid** turn, Orbit will indicate that event suggesting **entry** with a different icon.

②

For all indicator Icons, the screenface allows the user to interrogate associated dimensions (including financial projections) – by pointing, or by screenface display, and or an Analysis call-up by the user. In general, the user is cued by Screenface Icons for all trade actions as well as **in-phase** information. Thus the Orbit setup affords users the mental space to focus on **profit maximizing** decisions given interpretation of flow by the tool, Consistent certainty about direction leads to a different risk/profit profile and trading culture.

Trading Rules

The market follows the stated steps always, which is how Orbit works and by implication trades. Therefore, the equation steps are the **RULEs** that a user may follow to trade the Tool. The market is a bijective transformation with inverse on – an equation. Orbit explains the equation as markets evolve.

INPUT x

FUNCTION f:

OUTPUT f(x)

The Market as A Function

inverse On

Note: Move triggers on each icon.

fractured space

f(x)

stretch

Input

Rule

Output

Price Curve

Fractal pattern

②
Input = **high** (Initial Value)
Rules applied = fold repeatedly and invert.
Output ---> spike **low**

f(x)

Fold

inverse On

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**

A Stable Methodology

Orbit the Tool is a valuable asset because it outputs "more" than "trade signals," as it actively provides timing information, among other things. That is, it tells the trader the right timing for trade actions. That is the future NOW!

Prototypes absent these specific modules among others. We however describe a simple entry process for the prototype in the trader training section and pages. We show there how actual trade entries are made among other trading processes in the prototype.

Price is cyclical (i.e. aperiodic cyclicality), and this type of cyclicality is most complex to manage in market space because of its intricately fractured phasing structure. Reliance on topological thinking enables a solution.

③

Price Behaviour-Sequencing

①

When price reaches amplitude (crest or trough). it does not simply tumble down or rally up as a result, and this is true regardless of scale.

Why? We have said the market is a function. It takes in input applies a process, and outputs a specific result or move. All of which take different amounts of clock time at different times but define the same shape. It is important to note **time** as a factor in the definition of actual shapes.

In the related diagrams, we depict the evolution of price across a sequence of steps (and the sub-steps involved), in topped and bottomed ranges (true at all scales), and show why Orbit "signalling" is **inductive** signalling.

③ The analysis of market time and the specific breakdown of market or clock time into folding and stretching times allows insights not usual in market analysis. Among other things, it directly shows there is no part or aspect of market time that is "noise". All time is meaningful and instructive of the price action just ahead. The knowledge of market time (and space information), applied to trading logic is unique to Orbit the Tool and is an absolute edge.

Orbit the Tool is a valuable asset because it retains a capacity to **behaviour-sequence** market flows in correct market time compartments, which assures accurate knowledge of real-time market states (conditions), at all times.

②
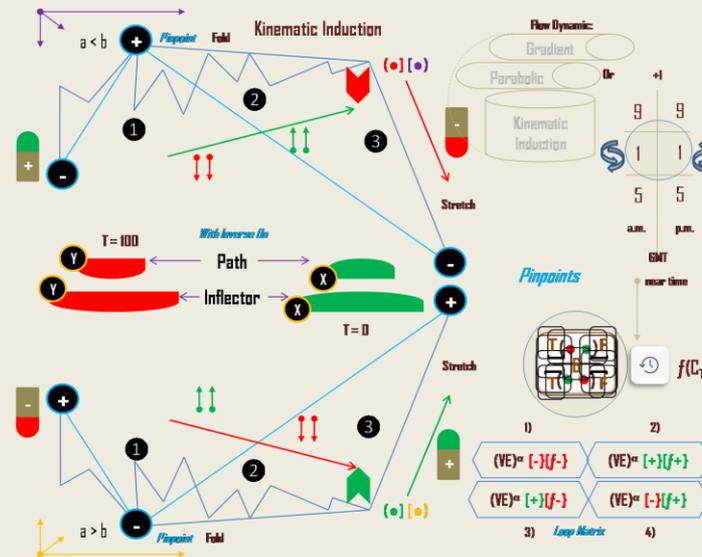
To measure the inductiveness in price movement is NOT the same as measuring space by MA crossovers or other such tools, because measures of timing and space (location at point) are included within Orbit's signalling. In other words, our measurements fit a **rulebook** analogous to a blueprint for interpreting the **market equation**. Hence a reliance on topological thinking. Non topological mathematics will not suffice.

When science is applied to study market space , the math known as the "**beautiful mathematics** " reveals insights that are otherwise commonly misunderstood.

Professor Lori Gardi offers a most interesting insight into fractal behaviour in her description of a notion of Mandelbrotian **singularity**. Employing a construct she calls the Finite Loop Equilibrium (FLE), she describes the **collapse** of iterates into a singularity.

Professor Gardi is an astronomer interested in black holes. She was comparing fluctuations in the Mandelbrot set with black holes. But the construct she defined has become central to trading.

"Fractal geometry is not just a chapter of mathematics, but one that helps Everyman to see the same world differently." - **Benoit Mandelbrot.**
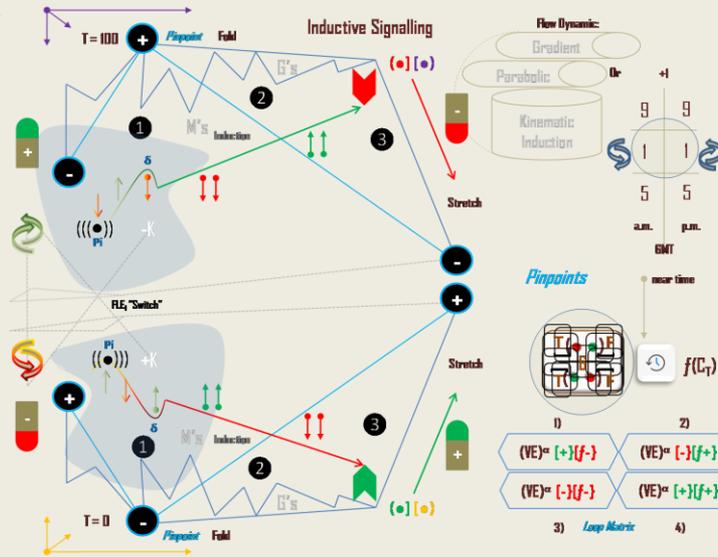
Orbit the Tool is a valuable asset because it is one of the rare instances of the direct application of a fundamental science to financial activity. That is the future NOW!

③

This shows from a different perspective and by a crosscheck, that the accuracy of supposing a function at play in markets even on a probability scale is unity. It also shows that Orbit the Tool is conceptually sound.

In the diagram above, we show the Finite Loop Equilibrium (FLE) as the first stage in a price reversal in market time. In that stage or state, price is literally folding space by executing loops upon loops without defining direction long-term (what in Hurst Exponent terms, is rated an anti-persistent series). The folding time in FLE can take anywhere from seconds or less to hours, days, weeks, months and even years depending on scale (e.g. the MN resolution can loop for years). From topological thinking the deformations in that space and over the folding period are incredibly complex and multifractal. However, the FLE follows the market pattern exactly to discount price to the singularity or initial value. A key mechanism in reading the fractured evolution of price. Again this assures that we always find the exact point and time of a turn in market space. ②

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

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 Price Dynamics / Anti-Persistent Series

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

⑧ Range High / Range Low

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

⑦ Orbit The Tool — Term Trades — Term Trade [Hold]

n Open	4n Closed	7n Closed
2n Open	5n Open	8n Closed
3n Open	6n Open	9n Open
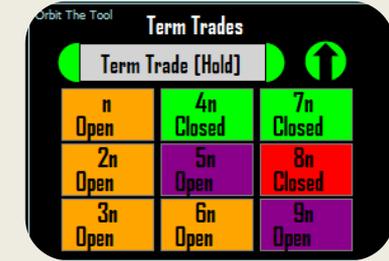
The Kinematic Similitude Oscillator (KSO), employs notions of kinematics (the geometry of motion), to track price between the limits low and high.

② Cyclicality
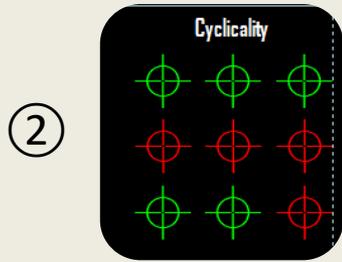
...⑩ ⑪ ⑫ ...ETC

Tells how much momentum we have in direction.

⑨ Spot Trades — Orbit Spot — Sell / Spot Trades — Orbit Spot — Buy

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

⑥ Kinematic Similitude Oscillator

| n | 2n | 3n | 4n | 5n | 6n | 7n | 8n | 9n |

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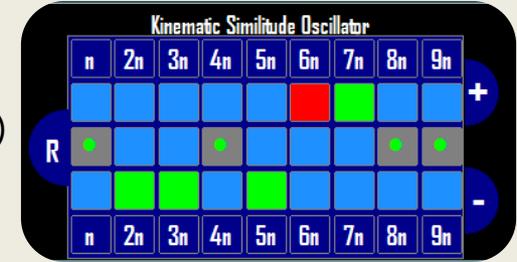
Marks the actual turning point at scale and tells when and where we started, and how far we have come, etc

③ Power — 83.57 — Mid Pw +2 — ++ −
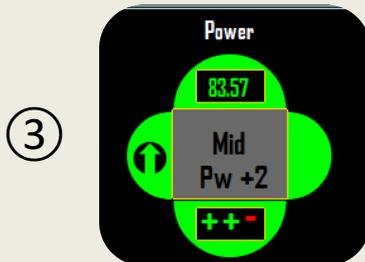
The "Butterfly"

The Orbit Arrow

④ Command & Control — 2n 3n 4n 5n 7n 8n 9n n

The Orbit Arrow is discussed in some detail elsewhere.

⑤ Initial Value — 1902.60
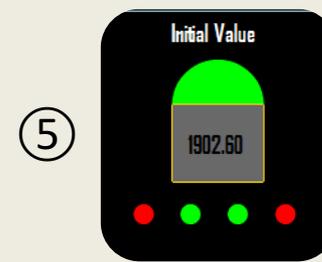
The principles of Oscillator Synchrony in Market Space.

① 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**).
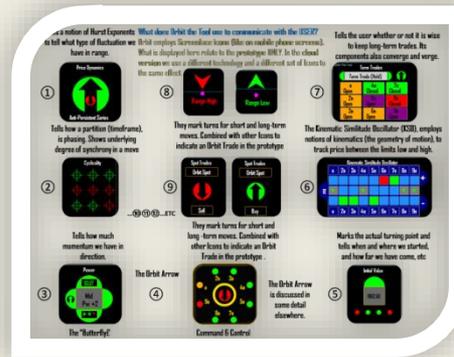
② Using this principle, it is very easy to understand how **Orbit Screenface Icons** work. It is all about **transformation**. When a transform begins from low to high for instance, there is little cohesiveness in direction across time frames so "**Oscillator**" **Synchrony** is weak. But as the transform grows, cohesiveness grows across space and Synchrony tends to unity **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.

③ For example, think of price at a **high extreme** turning down. At first, Fractal Pattern, Cyclicality, KSO 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 Cyclicality, etc. Then after a little while more, we see Fractal Pattern is all red (or definitely becoming so), as is cyclicality, KSO, 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 and Why?

①

One important takeaway from this is the behavior of the **Orbit Arrow.** That Icon has two parts – the components outside the **center ring** and the **arrow** within the center ring. When the two sets of values disagree (Dyssynchronization), the market is in FLE looping (folding space). But when both sets converge intraday (synchronization), we have a **Power Trade** also called an Orbit trade (). This is the dynamic the **Orbit Screenface** conveys at all times.

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 alone, on which signal set would you **bet** your money for a **buy** entry?

① Orbit Arrow
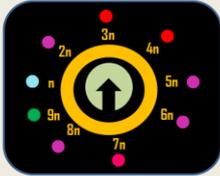
② Orbit Arrow

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. Erratically at first, but now strongly so, as is to be expected in that space after a spike low.

③ Orbit Arrow

We can see from the middle behaviors of the KSO the disposition or **bias** of each signal set. Clearly, 1 and 2 are still in range. In 3, KSO 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 up.

③

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②

Recalling the principles of Oscillator synchrony from earlier, we understand what happened in 3, especially with the Orbit Arrow. But note also the alignment **in the KSO,** and then the alignment of the KSO with the **Orbit Arrow** at the same time. In real trades, this alignment is seen also in the **Cyclicality** and **Fractal Pattern** Icons. The other Icons separate from those, qualify a move either as a power trade or a range trade by their pointing and or color. But most instructive is that we see **why** and how the entire **screenface** is the "indicator" and not just one or two icons. The entire set of Icons work to reinforce what we see with our eyes and mind to be true – Orbit is a **visual** tool.

Inductive Signalling

① **Orbit signalling** is **UNIQUE** and uniquely accurate because Orbit signalling actually defines the same shape as the market in the same time. For example, the notion of topological invariance (a common property of topologies), is one of sameness in structure. A variable will not travel between topologies that are not the same.

② Think of topological invariance as something that varies with time across market topologies. And that this is such that at some times it exists between two spaces and at other times it does not, with the pattern of availability non random.

⑤ There are no delays, rather there is the exact following **(timing),** of the construction of some definite shape never before seen in the specific market (yes no two cycles are the same EVER on any scale.). The market is like a mathematical game placing the next significant price point **where** and **when** you least expect in space. Orbit solves this game consistently in and by its **inductive** signalling.

④ **Jumping the gun and ahead of Orbit** on a hunch may lead to losses more often than not (all moves in Orbit trade space are **calculated moves**, i.e. there is either a move or there is not). Following Orbit timing is therefore exact and best practice.

③ This means for instance, when lows are unreceptive to flows from highs, drops are returned arbitrarily ahead of some boundary region which is dynamically found and mapped by our method to define signalling at such times and in such spaces correctly.

The Kinematic Similitude Oscillator

Range

Extrema

| n | 2n | 3n | 4n | 5n | 6n | 7n | 8n | 9n |

Middle Behavior Bias

+ R -

| n | 2n | 3n | 4n | 5n | 6n | 7n | 8n | 9n |

Leading

Intraday   Cyclical Trend   Market   Unit

C

Assessor Test-Trading **Crash Course**

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!
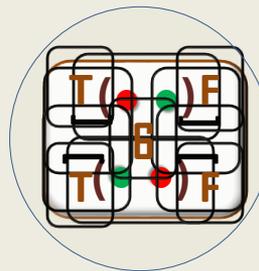
$f(C_T)$

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!

$f(C_T)$

Following the Logic of Orbit
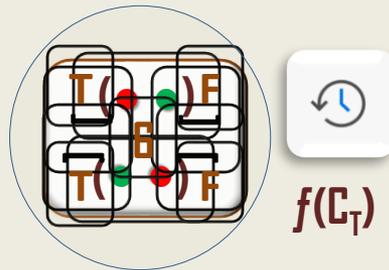
In order to trade the tool at all we **must** understand and follow its logic. Its logic is mathematical but understanding its logic does not imply KNOWING mathematics. The logic of Orbit can be understood from simply using the eyes and common sense. The logic is **visual**.

In words, Orbit **buys** low and **sells** high. When the market is at a low Orbit can tell exactly by using a device called a transform. And the same is true when the market is at a high.

Therefore, when Orbit tells us there is a turn up or down it is always correct and exact in timing.

The Holy Grail is **NOT** an MA Cross or such that is always true and allows the trader do as he or she likes thereafter. The Holy Grail is a mathematical function that sets its rules by time and space..

INPUT x

FUNCTION f:

OUTPUT f(x)

The Market as A Function-AGAIN

inverse On

Note: Move triggers on each icon.

fractured space

Price Curve

② Injection, Surjection and Bijection tell us the ways a function behave. We can also tell from this when something is a non function.

① A Function; Takes in input Applies Operator or rules on input, and Outputs ---> a definite **result**.

fractal pattern

stretch

Fold

③ What we are saying is that we have proven that the market is a bijective function with inverse on and that this this explains the market completely.

④ Chaos is a behaviour in the numbers when assets are traded. This is that behaviour (repeated folding and stretching of space) and as such, the **result** of the same behaviour.

inverse On

Input

Rule

Output

Orbit the Tool is a valuable asset because Orbit knows this pattern by heart and follows it exactly (100/100) times. So if we follow **Orbit trades** we will succeed nearly as much as Orbit. This is the future NOW!
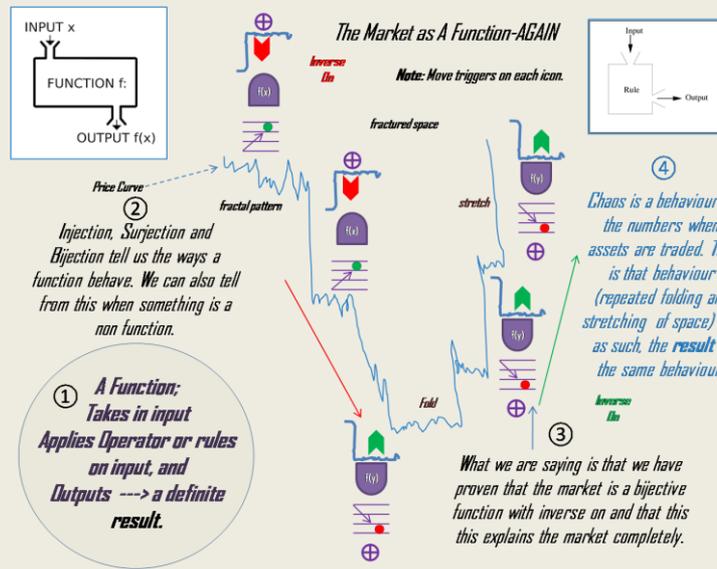
③

This means markets follow a "fixed" pattern and one that repeats over and over again. Anything that has a pattern is simpler to understand (follow), than a thing that has no pattern.

But pictures are worth a thousand words. If we look at the related diagram we see that this is the same thing the mathematics is saying and assuring us that yes, this is an intrinsic behaviour of asset markets. The market function takes in highs and lows as input (initial value), then renders a folding operation on price, to point price to the next direction following the last.   ②

Deterministic Trading

Parabola

T = 100

T = 0

+

0

-

Time ------->

Timer = R₁ X I Cycle

Transform

High

Low

b)

a)

a)

Price loop or cycle

Time -------->

Semaphore

End

Fold

Stretch

Begin

Strange Attractor

What does Orbit the Tool do to trade markets exactly?
Orbit pinpoints **tradable** highs and lows along a rough parabolic path and does so correctly every time.

Deterministic Trading: or, trading the distance between the 2 farthest **sure** points in space, every trade.

How?
Orbit employs a mathematical device called a transform to tell amplitude.

What does the USER do to follow Orbit trades correctly?
The user employs her **eyes** to **note** the same points marked in market space by an amplitude seeking device called the **chaos semaphore.** Around each marked point Orbit gives a timely signal to **buy** or **sell**. From begin to end of a move, Orbit posts messages to screenface that guide the user as to the state of the market. Therefore, the user simply **WAITS** for Orbit "signals" to act. On signal, the user acts to gain. **Price** evolves in three consecutive steps in a run, they are, a) **Stretch** b) **Fold,** and **c) Stretch** (see screenshot) – Orbit tells the user which space or stage the market is **trading** in a rise or fall. All of the above show **Orbit signals** are inductive (follows the correct pattern of a shape and the timing of shape construction, **POINT** to **POINT**).
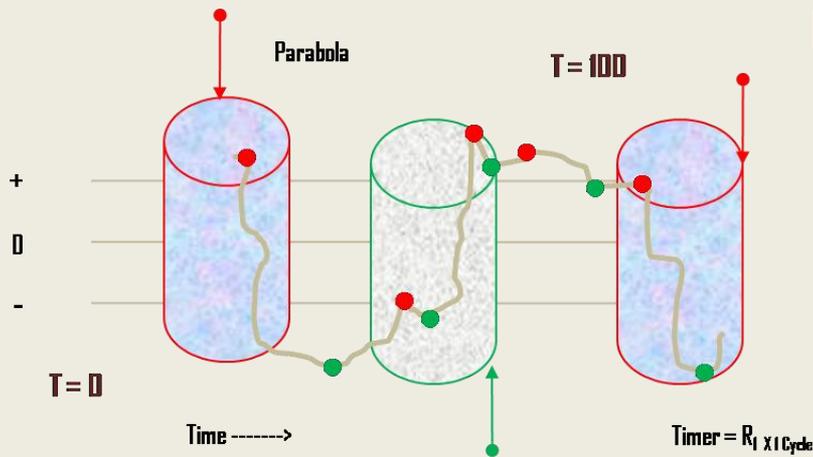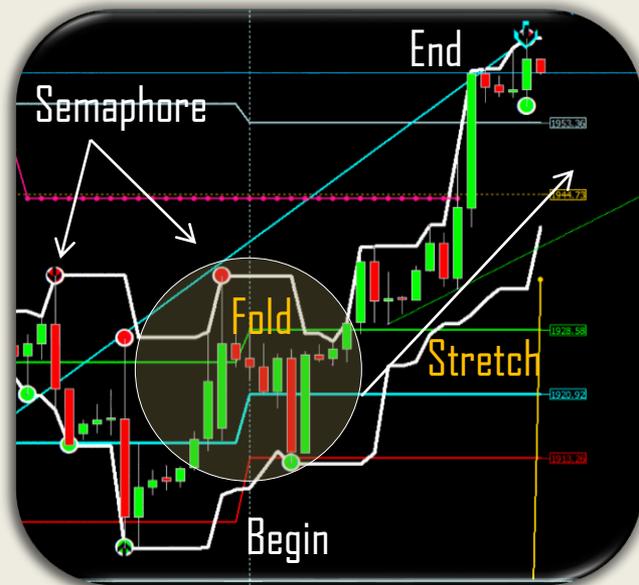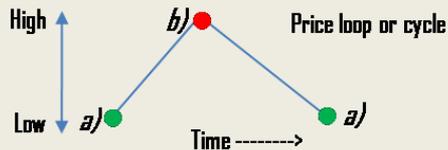
①

Deterministic Trading:
Is point to point trading.
Orbit finds the points
and cues the trades
from one point to the
other whether near or
far in topological terms.

The Orbit trader has no input in
this. There is no need for
personal analysis or
speculations outside of the
Orbit framework. Focus is on
evolution and interpretation

There is also no need to import "methods, " and
"techniques," until you master the logic. The logic
is visual and objective. To follow it, you need your
mind to also act according to what you see. To
gain the trades, your mind, the price action you
see and the signal must agree. It is an analogue
equation – you can see it.

**Qualities of the best
Deterministic Traders.**
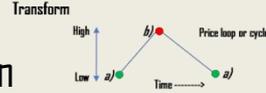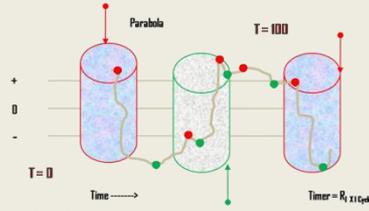
Parabola
T = 100
T = 0
Time ------->
Timer = R₁ X I Cycle
Transform
High
b)
Price loop or cycle
Low
a)
Time ------->
a)

Strange Attractor

End
Fold
Stretch
Begin

**What does Orbit the Tool do
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trading the distance between
the 2 farthest **sure** points in
space, every trade.

What does the USER do to follow Orbit trades correctly?
The user employs his **eyes** to **note** the same points marked in
market space (2x2 trading terminal), by an amplitude seeking
device called **the chaos semaphores**. At each marked point Orbit
gives a timely command to **buy** or **sell**.
All the time, from begin to end of a move (the distance between 2
points), Orbit issues commands that guide the user as to the
state of the market. The user therefore **WAITS** for Orbit
commands to act. Including the commands to buy or sell. **Price**
evolves in 2 steps a) **Fold** and b) **Stretch** – Orbit tells the user
which space or stage the market is **trading** in a rise or fall. **Orbit
signals** are therefore inductive but **POINT** to **POINT**.

Qualities ③

Uses **eyes** and **mind** to follow
Semaphores point to point in trade
frame (i.e. to trade and to make
sense of space).
Knows the Orbit logic by heart.
To trade, will always **ask** "what
am I doing?"And must find clear
response in space each time to
trade, such as "oh I am trading an
H4 **low** transforming to a **high**".
And "yes I am trading in folding
space or no joining in a stretch".
Knows where she is in **space
always.**
WAITS Always for Orbit signal to
engage market.

For example, what does the Orbit trader do at event times?
The answer is a bold NOTHING. The Orbit trader KNOWS that
Orbit will trade all news and events correctly as a matter of
routine. So to trade news and events the Orbit trader trades
as normal whether aware or unaware of the event. Again,
Orbit is an equation and therefore mechanical. ②

A Single Space Per Cycle – Knowing the Trade Action Space

Using the MRI Template

Highest weight pivots (Crown Semaphores)

Spike Events

Take Profit

Exits

Induction Down

> **Pips in Up Phase**

Amplitude

Extreme High

Folding Space

Entry Low

Recursive Action
(can repeat)

Stretching Space

Entry High

Folding Space

Stretching Space

Folding Space

Extreme Low

Induction Up

Exits

Spike Events

Take Profit

Amplitude

< Pips in Down Phase

Highest weight pivots (Crown Semaphores)
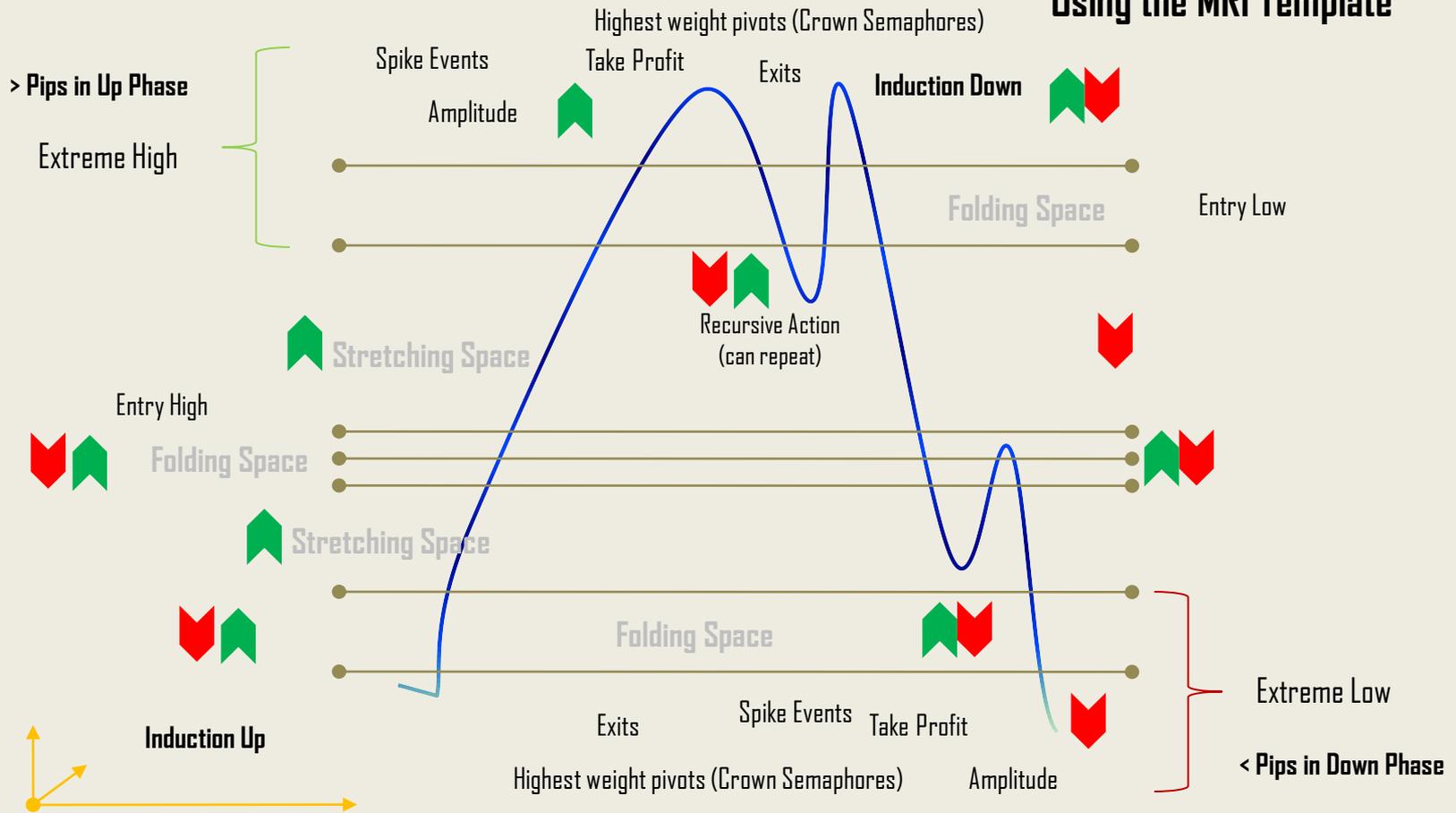
This scheme is for a single cycle up. Note the space down in an up cycle is rougher trading (true at all scales). The market Fractal is an **Affine Fractal** and fluctuates to shorter limits in the down phase (constructs higher lows only going up) . The inverse mapping of a single cycle down carry the 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.

①

The user trades a deterministic system (market), in which the management of space and time are key to consistent performance and therefore, the user must learn by heart the MRI space (map), or tool (an indicator attached to the trading template).

The related diagram here is an idealized presentation of what the user needs to keep in mind and constantly observe by matching the suggested price action events and trade action responses in the diagram to the "signalling" we will discuss ahead in actual trades.

Important to keep in mind always that price action takes place in market space and market time. Notions of both are well embedded in the "signalling" we will review ahead.

The Power of the MRI Template

A Single Space Per Cycle – Knowing the Action Space
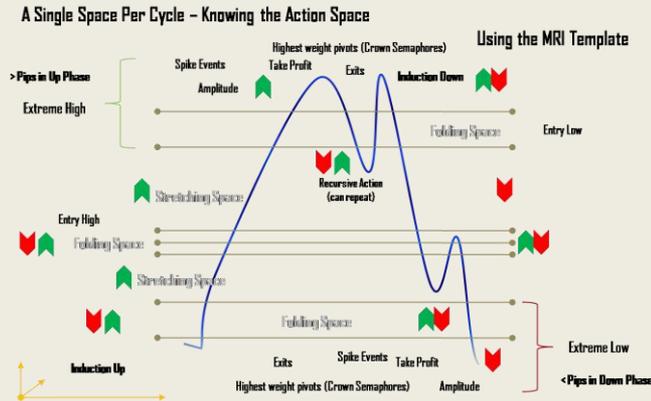
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③

The Orbit logic is **easy** and **true** in **experience** if and only if a user follows the logic which explains the market as an equation. The market takes in input, applies a process, and outputs the next direction based on the last.

The MRI tool gives the **visual** sense of trade space and a user uses her eyes to **visually** track Semaphore markers in line with MRI spacing and Screenface "signalling," e.g. in which space do you read the **pivot** you trade? " Applying the trading mind this way is the most effective way to follow Orbit trades per cycle.

②

The MRI tool is a mix of **Pit Trader** pivot lines and **Fibonacci** ratios combined to define a dynamically updating map of the notional trading space per time frame. It is important to keep in mind that its **sole function** in the model is to give the trader a good sense of the trading space by which to track price **visually** on the trade frame. And to do so in a way that combines with the tracking from the Screenface. In no sense does the MRI suggest trade levels and may not be used as such. Its utility is helping the user match his sense of price action **space** with **logic** and **signalling**.

To begin, read the **Fractal Pattern Icon** this way, **a)** green dot equals **inverse on,** and **b)** green arrow equals the **fluctuant** (i.e. will change alone in a minor pullback but print the same colour with the dot in a significant pullback, trend or reversal). The appearance of **a)** alone as the **intraday array** (see screenshot), is a **sufficient** condition for **entry up.** The inverse is true for **down** entry. "Stronger" is the appearance of **both** signals in the intraday array in the same colour (but technically not better by much than **inverse on**).

Fractal Pattern (intraday array **n - 6n**), is the fastest safe **entry cue** in Orbit. The Fractal Pattern Icon is driven by the same rules of synchrony we have learned.

Know where you are by structure. Top, Middle, or Bottom? Look at the shape of the attractor so far, check MRI, (look back in history for examples of attractor shapes).

Fractal Pattern

9n	↓	●
8n	↓	●
7n	↓	●

6n	↑	●
5n	↑	●
4n	↑	●

3n	↑	●
2n	↑	●
n	↑	●

keep in view
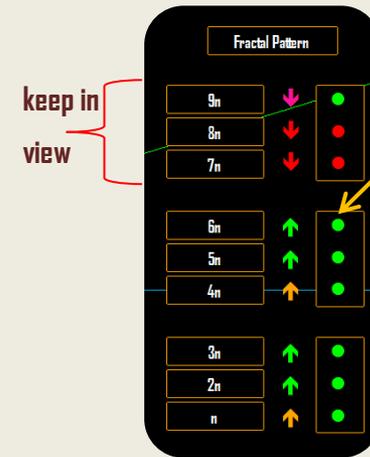
6n is special. It is intraday cycle. As long as inverse on, direction is firm – hold trade (can be for days, a week or more). Everyday a **sustained** move (i.e. 6n inverse on), ends in FLE, make **exit, add and join** decisions then.

Action and Focus

Range Low

Spot Trades
Orbit Spot
Buy
Trade Risk

Middle arrow colour waxes and wanes

2n 3n
n   4n
9n   5n
8n 7n

Here we began with fractal pattern but choose any you like in the synchronizing ICONs, Orbit Arrow, Cyclicality, or KSO to start trades. It's your choice.

On condition that:

1. You are trading a **definite H4 pivot** you can **see** with your **eyes** from the right position, in this case a **low** pivot. Markets trade Point to Point on any scale.
2. There is emergent alignment of KSO, Cyclicality and Orbit Arrow.
3. Checked MRI, where are you? Folding? Breaking? Or Stretching?
4. Checked **risk** at point/time of entry.
5. Keep in mind that an accumulation of the intraday array at a KSO extreme **plus** a pivot or semaphore warns of an inverse move. But an inverse move only begins with change in Fractal Pattern. 6n inverse on calls the state of the system (market).
6. FLE translation speeds can be high so best to take spot profits in Folding and only hold trades in a Stretch.

②

Fractal Pattern

9n	⬆	🟢
8n	⬆	🟢
7n	⬆	🟢
6n	⬇	🔴
5n	⬆	🟢
4n	⬆	🟢
3n	⬆	🟢
2n	⬆	🟢
n	⬆	🔴

② Again H4 Fractal Pattern is special. When it disagrees with the rest of the ID array we are not in a flow but in a range. Only agreement implies a strong flow in direction.

③ Strong move to hold to end. Fractal Pattern last third suggest progression is sustainable.

Range High

Orbit The Tool — **Term Trades** — Term Trade [Hold] ⬆

Orbit Arrow

2n 3n
n 4n
9n 5n
8n 7n

Spot Trades — Orbit Spot — Sell

Semaphore   End

Fold   Stretch

Begin
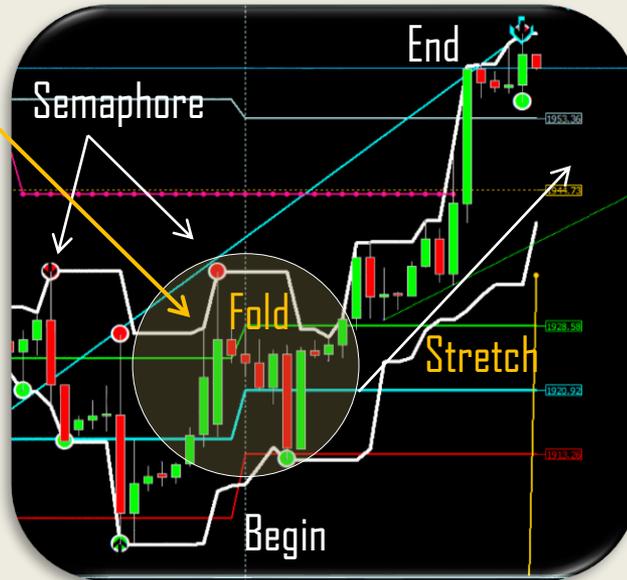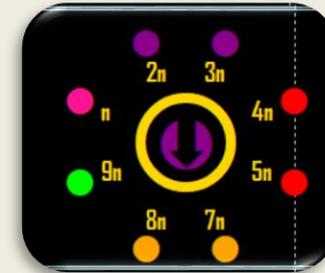
① Market orbits are highly unstable when negotiating a "saddle" (a Fold in the "middle" of the strange attractor). Here, 7x4 hour bars means the price action we see in the Fold lasted more than 24 hours. Price in FLE executes several cycles in that time (H1 pivots). This is one reason our minds and eyes are key. The **translation** is between the **high** semaphore and the **low** seen within the **fold** in the screenshot of the H4 frame. But in real-time, many times, it will not "feel" that way, because of movements in partitions less than 6n. But 6n is always correct on the signals above. Again the Trojan in this dynamic is 6n **inverse on**. Disagreement with the rest of the intraday array means a) a Fold or some in-phase pullback is ongoing b) but not a reversal given the "middle" of the market. We query reversals only at tops and bottoms. One will query reversal in the space marked "End" given the same signals. The full Stretch is always ahead of a "saddle" (as we see here) – that is the **spike event**.

Fractal Pattern

9n	↑	●
8n	↑	●
7n	↑	●
6n	↑	●
5n	↑	●
4n	↑	●
3n	↑	●
2n	↑	●
n	↑	●

Range Low

Trade Risk

Orbit Arrow

2n 3n
n 4n
9n 5n
8n 7n

Persistent, cyclic

keep in view

Where does it end? In any rally, or sell-off, price closes in the FLE daily after accumulating as shown at a KSO extreme (in this case, KSO+). The KSO + extreme and the MRI extreme coincide in timing which is when to make profit taking decisions. Also for short-term intraday moves equal to a H4 whitehead

... the KSO will always reach amplitude (KSO Extrema +/-) before a turn (in FLE or flow).

MRI

Kinematic Similitude Oscillator

| n | 2n | 3n | 4n | 5n | 6n | 7n | 8n | 9n |

R

| n | 2n | 3n | 4n | 5n | 6n | 7n | 8n | 9n |

③

For a persistent cyclic trend we query amplitude in the same way except that for a strong series we do so at increasing MRI scales in sequence e.g., H4, D1, WK1, MN and as their maps update..

Orbit The Tool **Term Trades**
Term Trade [Hold]

①

When a **pivot** (Semaphore), has the same **$Value** with the **Initial Value Icon** – we have a **persistent cyclic-trend** in direction. This is the most consistently profitable run possible for any current range (BIG TRADE). This is to say, reversals marked by the **Initial Value Icon** are particularly desirable trades in Orbit. Cyclical means recursive (repeated), constructions of higher-lows plus repeated rotations higher from the same constructed points, a fractal cascade up (in this case of a rally). **Frequency** (for Orbit), is the same as all recorded market rallies and sell-offs in any period in any given market. The inverse is true for a **red** initial value.

Initial Value

1902.60

Trading [3]

D

Final Examination

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!
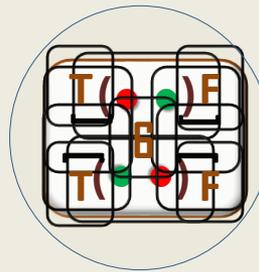
$f(C_T)$

A Crosscheck Using the Logistic Map

We have shown Orbit so far as a tool that reads market fractals by the Rules of Recursion based on a recurrence relation which is a chaotic equation. 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 before. Fractal geometry and chaos theory are different expressions of the same thing.

The Future right now!

$f(C_T)$
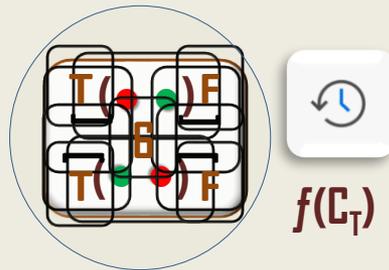
① In the diagram (begin to end of a trend), the area around time/space 0, begins where a pinpoint marked I appears. In this case a **low** semaphore has appeared. From that point price is in **FLE**. We exit prior trades here then watch the next move develop and or take very short-term trades in this space.

In FLE, price is in folding space and follows a specific pattern with slight variations but the same form each time. This pattern is indicated by blue dots. The trader must recognize when price is in this space using 6n Fractal Pattern.

② In this space, price can rise as much as 2 and fall as low as area 3 (overshooting the initial stop and nudging it lower but for a limited range only). H4 (6n) **Fluctuant On** is dominant. We also have what is known in chaos as **intermittency** in this space and you see and feel it.

Fluctuant On

6n	↓	🟢
5n	↑	🟢
4n	↑	🟢

▼ **ON and OFF**
Range High

6n	↓	🔴
5n	↓	🔴
4n	↓	🔴

⑦

The Chaotic Model – Up Flow   *Recursion*

Continuous deformation of space

Ambient Space

100° Axial Transform

$f\delta$ T = 100

KSO (Transform)

⑤

Re-entry

R *Objective Stream*

④

FLE   ②

Negative Lines of Equality

0°

HL

① Pinpoint   Initial Value

③   Initial Conditions   🚫 "Overshoot" Z points ‡

Time/Space
2
1
0

Y

X

$G^*) + VE - f(i)^\delta$ = Rotation H

$G^*) - VE - f(i)^\delta$ = Rotation L

$G\ G^*) - VE - f(i)^\delta$ = Rotation L

Trade Menu

$G\ G^*) + VE + f(i)^\delta$ = Rotation H

$G\ G^*) + VE + f(i)^\delta$ = Inversion H

$G\ G^*) - VE - f(i)^\delta$ = Inversion L

③ You see rapid signal switching and feel shorter directional travel by price each phase up or down. This is the "butterfly" effect in chaos or extreme sensitivity to Initial Conditions. The market is working in this space to establish Initial Value - the trigger for the move out and up. Hence the ups and downs in this space.

④ Initial Value is established around 3, as we have a market clearing event (spike event). As a result, we have **Inverse On** around time/space 1. Price begins to break higher and beyond area 2 toward 4 entering 5 (stretching space). on a higher low pivot to rally to amplitude.

⑤ The **USER** enters on Inverse ON – justified by her eyes and mind as well as the signals. All 3 must be **unity** to trade.

⑥ The traded **fracture** peaks as we can see (in time/space 2) to rotate lower (retrace), make another higher low, and then an inversion high to persist in direction.

⑦ The trader Observes all developments with his **eyes** over variable periods. Could be a day or more but if in phase (motile), could be 24 hrs, even less, etc.

① In this second diagram, the same shape in reverse applies and the same rules above apply in reverse and exactly (symmetry). So we remain with the first diagram.
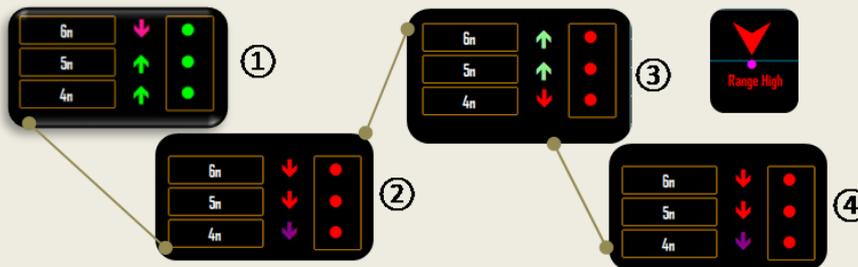
② Observe that the KSO transform process in both diagrams reach **extremes** for every different time/space, even when they differ in pip range. That is, KSO marks highs and lows in all spaces for the oscillations in each space. The same commonsense reading should be made for all synchronizing Icons. This means, all space is subject to **divergence convergence** behaviour. But the **FLE** expresses more frequent signal switching as a behaviour.
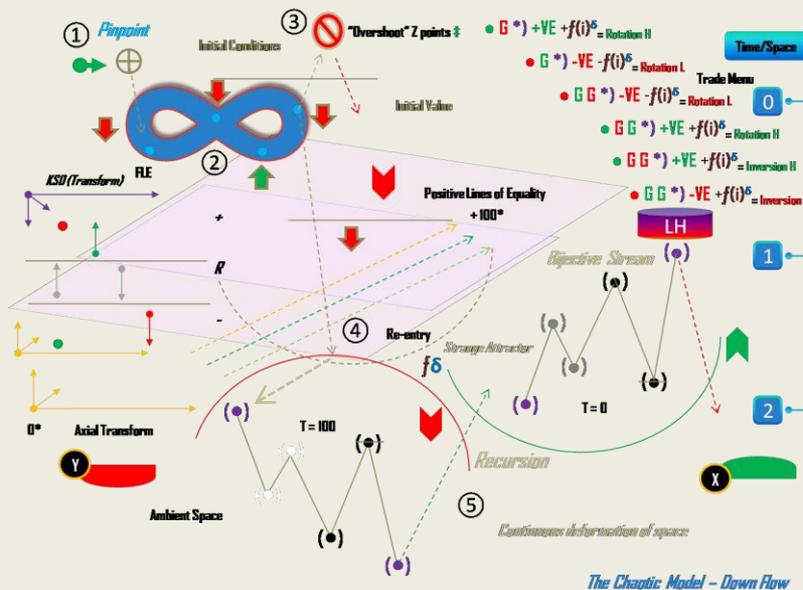
③ Your eyes and mind resolve direction all the time by following **a specific** H4 Semaphore from **point** to **point**, reading signals **as** in respect to that ongoing translation. The market works intraday translations one by one (each is a sequence). Follow one by one to trade range and breakouts **(Inverse On)**.

④ You need your mind to make commonsense interpretations in a given space. For instance, signals as above (and their inverse), in time/space 0, are logically resolved because H4 inverse on is awaited after 2. The move up in 3 has **Fluctuant** up but not inverse on. **Only** inverse **on** can take price out of that space after 2.

⑥ In the cloud version we have the program executing the t**rade menu** depending on space – i.e. communicating trade availability to user. In the prototype you do it yourself as shown.

⑤ It is important to understand that the price maps match the **logistic map** equivalently. We can easily add in the basins of attraction, and fixed points which in the logistic map would occur between time/spaces 0 and 1, to explain the intermittency felt in markets in those spaces, with time/space 2 explaining increasing rates of bifurcation and finally, by area 5 we reach a rate of **infinity** or chaos.

The Chaotic Model – Down Flow

Special Note

*"Trend" equity is measured by the **Term Trades** Arrow which is not the same as its 6n component. Divergence/Convergence between them follows the usual rules of Synchrony.*

③

④

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

Term Trades

Term Trade [Hold]

n Open	4n Open	7n Open
2n Open	5n Open	8n Open
3n Open	6n Open	9n Closed

Range High

2n 3n
n 4n
9n 5n
8n 7n

Initial Value

1987.42

②

"Trend" in Orbit and the behaviour within a given "trend" is measured in summary by 6n 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.
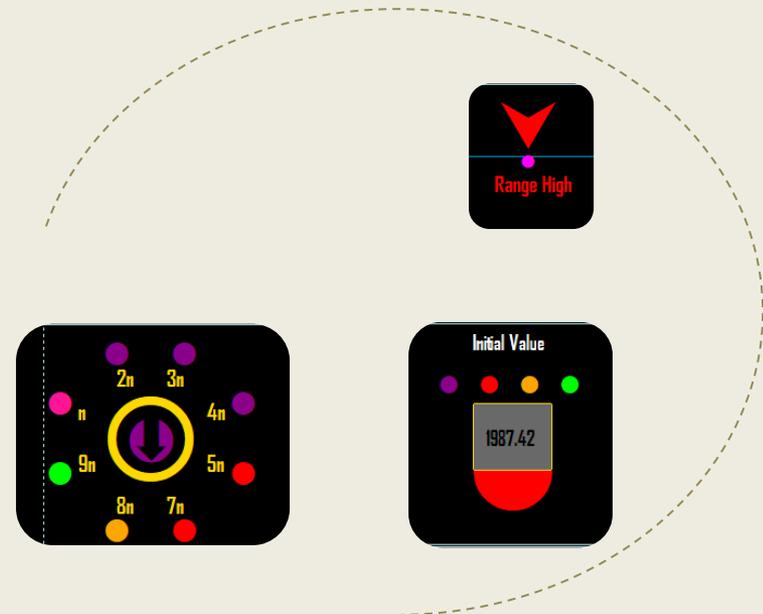
The Anatomy of Market Flow

**We trade a shape**

A constant form or shape

Inverse is true

$f(C_T)$

Fold

Fold

Strange Attractor

Stretch

Stretch

Inversion

Orbit Trend

Induction

Rotation

Begin

End

Initial Value

1902.60
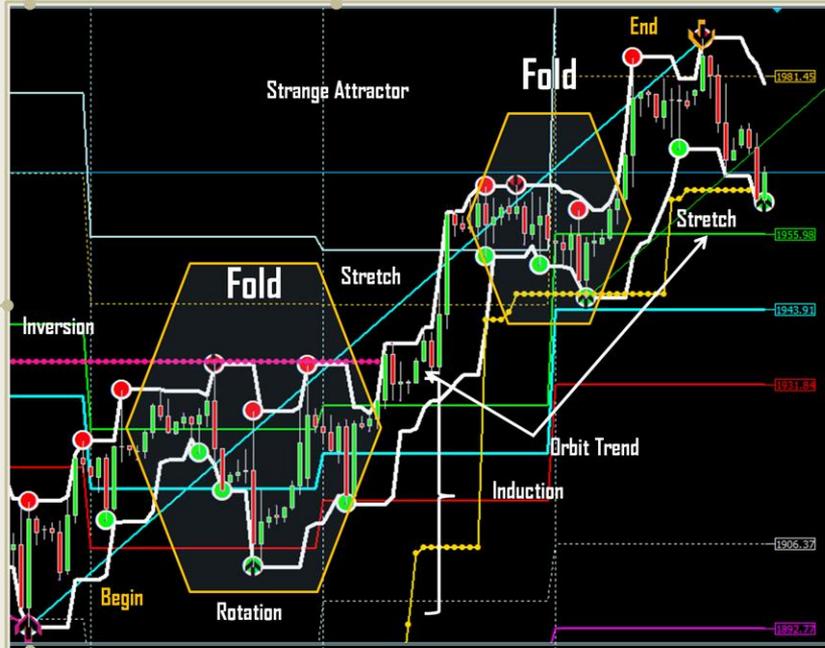
Recursive in the parts and in whole - Fractal
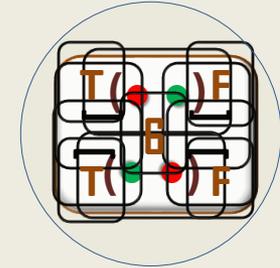
The market is a multifractal, a complex dynamical system. Nothing else defines it. And we present this here in the way market participants see it, sense it, and experience it day in day out – the market as the fractal that it is. Straight lines fractured by the repeated folding and stretching of the space to which price maps.

Beyond the Prototype

E

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!
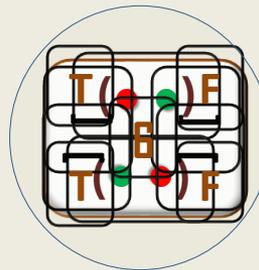
$f(C_T)$

The 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

Orbit the Tool

Cloud Computing

Cloud Distributed and managed

Deterministic Trading   Oscillator Model of markets

Visual , easy to learn and use

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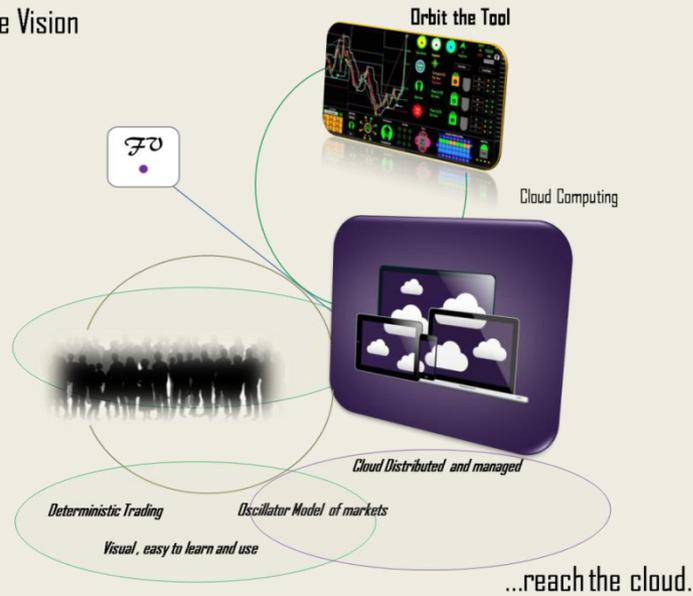
The range in the difference between a cloud based tool and the prototype tool is vast and includes many implementations not possible in the current interface.

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

FV
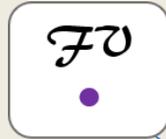
Cloud Computing

Market Participants

Cloud Distributed and managed

Deterministic Trading

Oscillator Model of markets

Visual , easy to learn and use

...reach the cloud.

Contact Me:

Samm

+234 0902297 4332

sikwue@hotmail.com

www.linkedin.com/in /samm-ikwue-774683a1

live:sikwue

1. https://youtu.be/ZMeSqggzRcQ

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 **"analogue"** equation on which our application is based.

5. Letters: HDM, PGD, MBA