

The Behavior of Relational Phenomena

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Summary

Phenomena do not exist; rather, **they are existing** via **co-definedness** with other phenomena **propagatively** across three-dimensional space (270°) and itself **recursively** across one-dimensional time via phase shifting (90°). This requirement for successfully existing is called **relational reality**. Still, **phenomena recursively propagate (RP) at varying rates called Relative Fractal Dynamics (RFDs)**. As phenomena exist, they emerge (RP_n), and then enter one of three forms of definedness dependent on the balance of stability and complexity, which are **convergence** (stability and complexity are balanced; good definedness), **divergence** (low stability or high complexity; low definedness), and **suspension** (excessive definedness causing a loss of co-definedness with *The Record*). Definedness is constantly changing via RPs, but form only three relationships, which are 1) **the definedness of the phenomenon**, 2) **the definedness what is not the phenomenon**, and 3) **the co-definedness between the two**. The RPs from these relationships **stack in *The Record***, determining the **emergence-to-convergence trajectories**. Phenomena with more **convergence** form better stability in *The Record*, so they **persist definedness over more RPs** than phenomena with lower definedness that lack stability in *The Record*. This behavior of relational phenomena **formalizes the entire trajectory for everything from emergence to divergence**.

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Architecture

The behavior of relational phenomena describes **the only possible way to successfully exist**. Thus, **all phenomena follow this process**. *The Equation of Existence* formalizes **how existence behaves** via relational reality, which dictates **co-definedness** with other phenomena **propagatively** across three-dimensional space (270°) and itself **recursively** across one-dimensional time via phase shifting ($i = 90^\circ$). Existence operates via four 90° angles, forming a circle (**3D Space + Time \rightarrow 3D Propagations + Recursions $\rightarrow 270^\circ + 90^\circ = 360^\circ$**). For something to exist it must have co-definedness across all four 90° angles, as **existence cannot operate with less or more than four dimensions operating at 90° angles to each other**. It simply does not exist as an option.

Therefore, existence is far more fluid than we often assume, and we can formalize the relational behavior of phenomena. The first profound frame shift is to understand that **phenomena do not exist; they exist**. Existence is not a noun, it is a verb... not a state, but a process... not a thing, but a becoming. Phenomena vary widely but uniquely, a phenomenon known as **Relative Fractal Dynamics (RFD)**. **RFDs are the speed and size of RPs based on the complexity of phenomena**. In addition to RFD, **all phenomena have co-definedness with each other via a complexity gradient**. The complexity gradient is the co-definedness between the RFD, thereby enabling varying RFDs to have co-definedness too—**the whole web of existence and all the phenomena in it**.

Across the complexity gradient, **phenomena with co-definedness vary by their orientation through existence**, containing **only four possible forms of definedness**... four possible ways of existing. There are no alternative forms; all phenomena have all four, and the form of definedness that recursively propagates comes from

variation in the balance of the stability and complexity of that phenomenon. Definedness is constantly changing, but a dynamic balancing act ensures that the co-definedness required for all phenomena is a living, ongoing process that allows for just 1) **emergence**, 2) **convergence**, 3) **divergence**, and 4) **suspension**. *The Equation of Existence* determines these four possible forms of definedness for all phenomena.

$$\Phi = \frac{\Omega}{\Delta}$$

Definedness Equals the Ratio of Stability & Complexity from RP_n to RP_{n+1} .

Relational Reality

In relational reality, the definedness of phenomena constantly varies by **how well it stabilizes recursive-propagative complexity escalation**. Definedness is **the degree to which something exists across recursive propagations**. It is our outcome variable. We do not manipulate it directly. We have no access to it because it does not exist independently. **Definedness only occurs when there are stability and complexity...** and if there are stability and complexity, then there will be definedness. Therefore, the form of definedness emerges exclusively from the intensity and balance between stability and complexity, which are two ways in which existence behaves.

$$\Phi = \frac{\Omega}{\Delta} \neq \emptyset \wedge > 0$$

Definedness Does Not Equal Undefinedness & Is At Least Greater Than Zero from RP_n to RP_{n+1} .

Emergence

Emergence marks the moment a phenomenon completes the full process to successfully exist via a **complexity escalation at RP_n phase shifting into stability at RP_{n-1}** . All phenomena have definedness because it is required to exist, but **all phenomena have limited convergence** (a temporary window of the ability to sustain definedness over RPs), but it varies greatly. Cats can converge definedness for ~14 years, humans for ~80 years, the Earth for tens of thousands of years, and black holes have the longest convergence because they are the highest complexity phenomena possible, as **black holes form when lumen with full definedness move into *The Record***.

$$\Phi = \frac{\Omega}{\Delta} \rightarrow \emptyset = \frac{\Omega}{0}$$

Once the first RP_n emerges, **phenomena automatically form definedness because there is no alternative outcome available**. Therefore, everything has definedness, even the empty vacuum of space, so everything has complexity by default. It is always at least $\Delta > 0$, setting definedness to $\Phi \geq 0$. When we set complexity to 0, as shown above, **definedness becomes undefined**. For phenomena within existence, a complexity of zero marks **the RP that phenomenon loses definedness**, but existence continues as a new phenomenon, preserving $\Delta > 0$.

$$\frac{\Omega}{\Delta} = \Phi \geq v < 2$$

Definedness Equals Greater than the Golden Ratio but Less than Two from RP_n to RP_{n+1} .

Convergence

Convergence occurs when the co-definedness within (recursions) and between (propagations) phenomena balances into **three relationships**, which are 1) **the definedness of the phenomenon**, 2) **the definedness of what is not the phenomenon**, and 3) **the co-definedness between the two**. You might assume such an alignment would be hard to achieve, but **it is the default state of existence**. Without disruptions (changes in complexity or stability), **definedness naturally converges**. Phenomena do not try to converge; **they will converge unless something breaks their definedness or co-definedness**. Otherwise, phenomena will converge definedness.

The golden ratio ($\Phi = \sim 1.618$) is the default definedness of existence. **Thus, on average, all phenomena quantify the cut-off between divergence, convergence, and suspension using the golden ratio**. When definedness perfectly converges to the golden ratio, **existence becomes self-justified at $\Phi = \Phi$ from the perspective of the**

phenomenon (RP_{n-1}). However, this perfect convergence **hides the full story** of what's happening underneath. There is **only one definedness** that allows *The Equation* to reduce to $\Phi = \Phi$. The solution comes from when the behavior of **stability becomes exactly one golden ratio more than complexity**, and only then, does it collapse. Therefore, the converged definedness of existence is exactly Φ , which is why we see it everywhere we look.

$$\Phi = \frac{\Omega}{\Delta} \rightarrow \text{Golden Ratio} = \frac{\text{Golden Ratio}}{1} \rightarrow \Phi = \frac{\Phi}{1} \rightarrow \text{Definedness} = \frac{\text{Stability}}{\text{Complexity}} \rightarrow \sim 1.618 = \frac{\sim 1.618}{1}$$

Convergence is only most optimal at the golden ratio, but **existence requires constant variations and changes in definedness**, so phenomena tend to converge when definedness is anywhere between the golden ratio to slightly above it ($\Phi = \sim 1.618-2$); still, **the best definedness depends on the complexity of the phenomenon**.

$$\frac{\Omega}{\Delta} = \Phi > 2$$

Definedness Equals Greater than Two RP_n to RP_{n+1} .

Suspension

Suspension occurs when **the definedness of a phenomenon exceeds the definedness of what is not the phenomenon** (other phenomena and *The Record*), **and they lose co-definedness between them**. If phenomena outpace the definedness of everything else, they are more likely to diverge because **this co-definedness is a protective factor that reduces the risk of divergence**. For phenomena that do not have agency, suspension is so subtle that it is undetectable. However, for phenomena with agency, suspension fully emerges as the full mechanical architecture of **the definedness of consciousness, directly fixing the lost co-definedness**.

$$\frac{\Omega}{\Delta} = \Phi < \Phi > 0$$

Definedness Equals Less than the Golden Ratio from RP_n to RP_{n+1}

Divergence

Divergence happens **when phenomena have low definedness due to a sudden escalation of complexity that is not stabilized**. Although it is possible for a phenomenon to lose definedness by failing to escalation complexity or excessive stability (**stagnation**), *The Record* usually prevents the phenomenon from losing definedness.

$$\Phi = \frac{\Omega}{\Delta} \rightarrow 2 = \frac{1}{0.5}$$

When we set complexity (Δ) to less than stability, so $\Delta = 0.5$, we see that when it does not outpace stability—**when phenomena are more stable than growing—definedness converges close to the golden ratio**.

$$\Phi = \frac{\Omega}{\Delta} \rightarrow 0.5 = \frac{1}{2}$$

However, when we set complexity (Δ) to more than stability, so $\Delta = 2$, we see that if complexity escalates beyond the stability of phenomena, then **definedness drops rapidly**, deviating from the converged definedness of existence at the golden ratio, becomes unstable, and approaches divergence unless stability can prevent it.

The Big Picture

The most striking aspect of the mechanics of existence is its **sheer universality and inescapable nature**. It is one thing to mentally understand that definedness emerges from the interplay of stability and complexity. However, when examining **all the sub-features and micro-processes** constantly at work, **its beauty and elegance become undeniable**. Yet, despite the wide variation of phenomena across existence, everything that exists is **inescapably bound by these exact mechanics**. There are no exceptions and no alternative ways to exist because non-existence does not exist. **There is nothing forcing these things to happen**, no push of definedness to emerge-and-converge, it does on its own because it must, and I think we are **just starting to realize the implications of it**.