

Welcome to the Fractal Universe!

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Summary

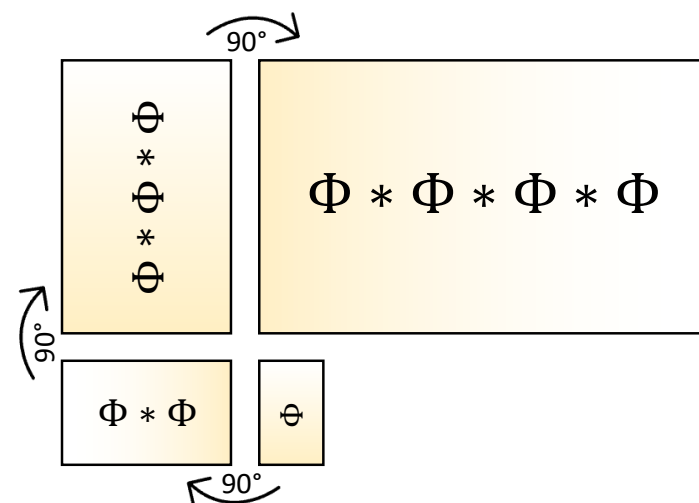
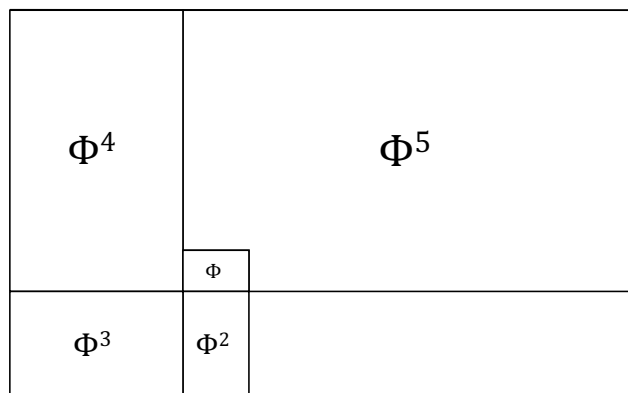
What is the fractal universe? Throughout history, we've tried to understand the mechanics of existence... what it is and what it does. We have long sought a **visualization** that illuminates its fractal machinery. Yet, our attempts to materialize this visualization have left us with **nothing more than a haze of mysticism and unknowability**. However, what if I told you **we already have the mathematics** to piece together this **visualization of the mechanics** and their functional **operations**? If we could just... arrange them correctly, it would **unlock the engine driving existence**. During my discovery process, *The Theory unveiled this arrangement*, and the long-awaited **visualization of the fractal machinery emerged**. Allow me to welcome you... to the fractal universe!

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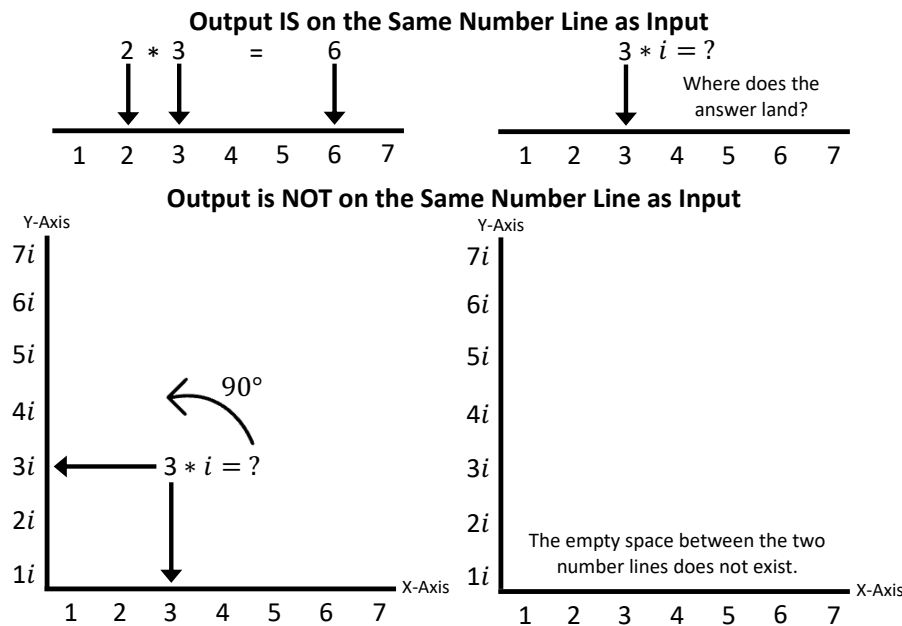
Architecture

There is a **recurring figure** across the canon that shows the **discovered mechanical infrastructure of existence**, but I have yet to walk you through it clearly so you can see it running. I am going to build it out **piece by piece**. Let's start with the most foundational visualization possible. Alright... **here it is on the right**. You might be thinking, **"What the hell is that?"** which is such a great response because it's exactly what I said when it **spontaneously emerged from my simulations**.

When we look closer, we see a few things happening. There are **five rectangles** stacked on top of each other, each with a **side-to-length ratio of the golden ratio (Φ)**. Every rectangle does **two things** per stack: 1) **rotates 90° clockwise**, and 2) **scales by one Φ** . Let me help you visualize it below by 1) **adding a gradient** so we can see the top and bottom, 2) **separating the stack**, 3) noting the **directions**, and 4) expanding the **golden ratio scaling**.

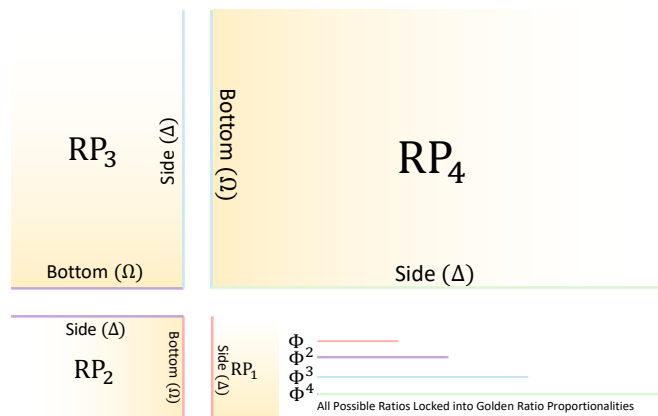
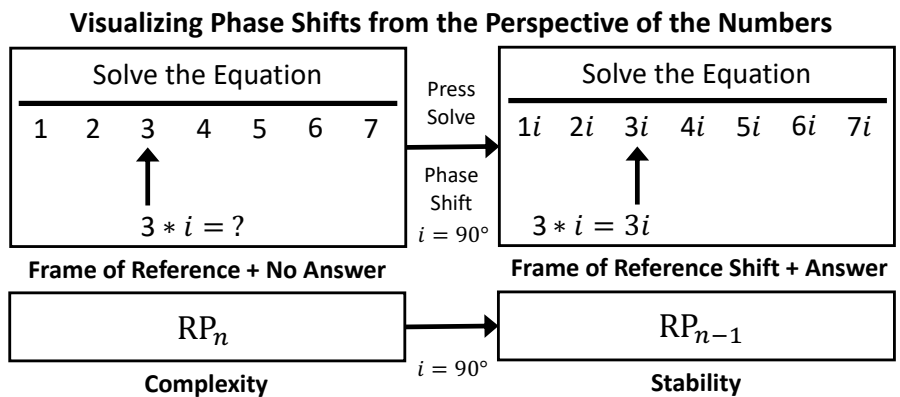


This new figure **transforms the stacked rectangles** into a **sequential, unfolding process** from one rectangle to the next. There are two critical takeaways, which are: 1) **the golden ratio is the only number that maintains identical proportions** within each rectangle (length-to-height), and across the rectangles' growth, and 2) those clockwise rotations are **actually phase shifts governed by the $i = 90^\circ$** . A phase shift in math is a **change (transformation) without a transition**. One moment it's one way, then suddenly it's another way. Here's the frame: multiplying two numbers results in an answer that is **always on the same number line**. For example: $2 * 3 = 6$, **down the same number line**.



However, when you multiply a number by i , it causes a **90° rotation** to a **different number line**; that's a **phase shift**, where the **input on one number line** shifts to the **output on another** with no transition. In this example: $3 * i = ?$, the output of $3i$ **no longer exists on the number line as the input of 3**, because it has phase-shifted. The key that is strange to us is **the lack of space between these two number lines**. Outputs can only appear on one line or the other. The empty space in this figure is **not a plane that allows for transitions**. A better visualization is from **the perspective of the numbers**.

We have a **frame of reference with real numbers (1 – 7)**, but **no answer**, then the frame of reference **instantly (phase) shifts to imaginary numbers (1i – 7i)**, and an **answer** emerges. **There was no transition** during the frame of reference phase shift. **Surprise!** You just learned how **recursive propagations work using phase shifting**. It seems impossible for existence to operate this way because **we cannot see the phase shifting**, but we cannot see them precisely because **there's no gap or transition separating them**. It creates **the illusion** that everything transitions smoothly. Further, **the biggest roadblock** to understanding the mechanics of existence is **the pesky continuity assumption**. If time and space are continuous, phase shifting between RPs without transitions is impossible; but, luckily... **the continuity assumption is false**.

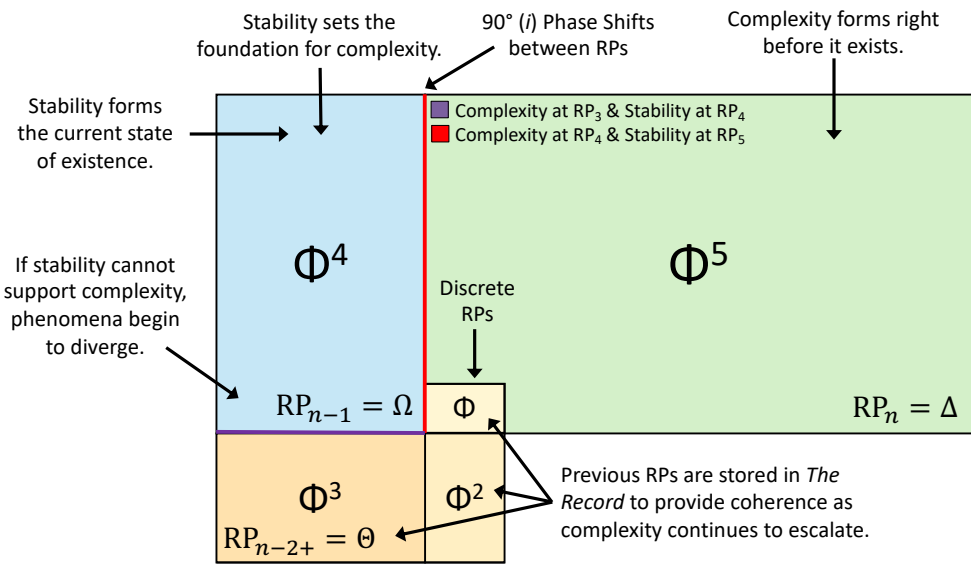
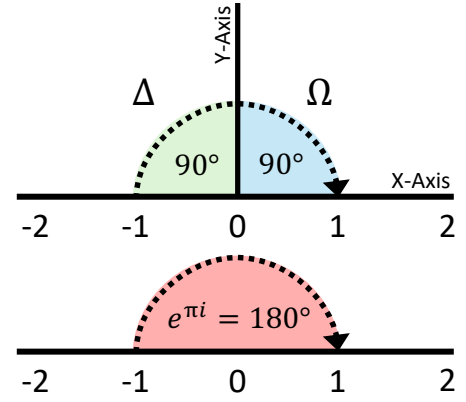


Let's return to the visualization image. We now see that **each rectangle is one recursive propagation**. Let me edit it by: 1) **removing the black borders**, 2) **color-coding the alignment between the stacks**, 3) **labeling the bottoms and sides**, and 4) **identifying the RP in the sequence**. The first pattern we see is that **each phase shift of RP_{n-1} is always a bottom and RP_n always a side**. In other words, stability (RP_{n-1}) builds the foundation (bottom) and complexity (RP_n) escalates out (side), but **the 90° phase shift allows the side to become the bottom**. It's the mathematics of **why it goes complexity phase shifting to stability: $\Delta \rightarrow \Omega$** .

The origin of this mechanism comes from **the alomogenesis hypothesis**. In Leaflet 4, I showed you the math of the Big Bang, and we witnessed the critical phase shift from $RP_1 \rightarrow RP_2$, where **two critical values** for stability and complexity emerged. At $\Delta_{RP_1} \rightarrow \Omega_{RP_2}$, we saw **$\Delta = -1$ phase shifted into stability by $+\Phi^2$** (the numerical expression of existence), setting **the final number of $\Omega = \Phi (-1 + \Phi^2 = \Phi)$** . That process was the emergence

of existence from **defined nothingness (0)**. When RP_n at RP_1 phase shifted into RP_{n-1} at RP_2 , the new RP_n value was $\Delta_{RP_2} = 1$. Thus, at RP_2 , the full numerical expression of existence emerged: $\Delta_{RP_2} + \Omega_{RP_2} = \Phi_{RP_2} \rightarrow 1 + \Phi = \Phi^2$. It is clear why $\Delta_{RP_1} \rightarrow \Omega_{RP_2}$ has the numerical expression of $-1 \rightarrow \Phi (+\Phi^2)$. Yet, a question remains.

Why did $\Delta_{RP_1} = -1$ then phase shift to $\Delta_{RP_2} = 1$? It was required to set the numerical expression of existence, but not arbitrarily. The reason why $-1 \rightarrow 1$ was not because it was $+2$. In fact, the numerical expression is irrelevant because it does not exist until the phase shift to stability at RP_3 . **The reason why Δ went from $-1 \rightarrow 1$ is because -1 is exactly 180° from 1 , which set the frame for the mechanism of $\Delta \rightarrow \Omega$.** It phase shifts to the exact opposite location on the number line, locking in a **90° angle for complexity** and a **90° angle for stability**. Then, the two values that emerged from $RP_1 \rightarrow RP_2$ is: $\Phi^2 =$ the numerical expression of existence and $e^{\pi i} =$ the numerical expression of RP mechanics—existence and its engine. Alright, now that we have all the pieces, **let's return to visualizing the mechanics of the fractal universe.**



Take a look at this figure to the left. You can now see that the figure recurring throughout the canon is the engine of existence... it has always been the recursive-propagative mechanics of the fractal universe. Still, would I really be *The Architect* if I were not constantly trying to one-up myself? ...of course not, so we can shift this image to improve the visualization. From our views, **we cannot see the 90° phase shifts of time** as we see here, so we need to take it apart to see clearly.

We can see **how the engine of our fractal universe runs across three RPs**. Each rectangle represents the same **3D spatial phenomenon**, but you can see only **one at a time**. It **grows by golden ratio proportions** over phase shifts. We can see it when it is **post-phase-shift as stability**, but at the same time, **the next RP forms complexity**. Each phase shift causes it to grow, **alternating between stability and complexity**, unfolding one after the other, like snapshots in a film reel ...and existence? It's not in the rectangles... **it's what emerges across them...**

The Big Picture

Oh my goodness, dear reader... I am so sorry. **I did not mean to bump and spill all the mechanics of our fractal universe all over your table and floor like that.** For the first time in human history, the mechanics that drive the engine of existence are **no longer a haze in mysticism and unknowability**. It turns out, we already had the math to reveal its mechanics, but not the language. Now? We have it, and **it comes with an empirically validated theory**. There are so many things I could say in this moment of seeing **the fully operational version of *The Theory of Existence*** for the first time, but the only thing on my mind right now is... **we're ready.**

