

The Observer-Bias Loop: On Reality and Consciousness

Kirsten Hutsch
CrossYart Rotterdam

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Abstract

This essay introduces the *Observer-Bias Loop* hypothesis, in which reality is viewed as a dynamic and continuously rewritable configuration system, guided by consciousness and perception. Contrary to the classical view that sees time and reality as linear and fixed structures, this hypothesis proposes that past, present, and future exist as simultaneously present possibilities that are actively and flexibly reconfigurable from any given now-moment. Consciousness plays a central role as an active, creative force that continuously configures and rewrites reality through perception and intention. Scientific insights from quantum mechanics, neuroscience, and philosophical idealism provide the theoretical foundation for this hypothesis, while the holographic principle and psychokinetic research offer further depth and support. The implications of this dynamic view of reality invite further exploration and a revision of traditional paradigms concerning time, consciousness, and reality.

The term "Observer-Bias Loop" refers to the idea that observation inherently involves a form of influence (bias), and that this influence feeds back into a loop that actively helps to configure reality.

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1. Introduction & Formulation of the Hypothesis

Breakthroughs in quantum physics, information theory, and consciousness research challenge the classical assumption that time flows linearly and that reality exists as a fixed external structure. Instead, there is a growing awareness that reality might be a dynamic, observer-dependent process. What we experience as ‘past,’ ‘present,’ and ‘future’ appears, in certain experiments, to be subject to rewriting—susceptible to influence from the present moment. This raises fundamental questions about the nature of time, causality, and perception.

This essay therefore proposes an alternative hypothesis: the **Observer-Bias Loop**, in which reality is not a fixed structure but a continuously rewritable configuration of information layers. In this view, the ‘now’ is not a neutral transitional phase but an active rendering point where reality manifests—shaped by both conscious and unconscious intentions. The past is not immovably fixed but is regenerated each time from the current outcome. The future, likewise, is not a blank canvas, but a field of probabilities that constantly recalibrates itself.

The observer is not external to reality but part of a reciprocal loop in which reality and experience continually influence and reshape one another. In this hypothesis, reality is not a pre-given world in which we find ourselves, but a living co-creation in which consciousness, perception, and time are deeply intertwined.

2. Key Concepts

- **Reality:** Reality is considered a dynamic and continuously reconfiguring projection of consciousness, composed of time, space, and matter. Contrary to being a static and objective entity, reality in this model is a flexible field of possibilities that constantly adapts based on perception and awareness. This aligns with theories from quantum mechanics and philosophical idealism, such as Berkeley’s notion that existence is dependent on perception.
- **Time:** Time is not viewed as a linear sequence of events but as a simultaneously existing field in which past, present, and future are all present as potential configurations. Time, therefore, is not an absolute quantity but an emergent property arising from consciousness and perception. Each now-moment serves as a central point from which both past and future are dynamically rewritten and reconfigured.
- **Consciousness:** With a capital letter (*Universal Consciousness*), this refers to a fundamental, all-encompassing form of awareness considered a primary and universal principle underlying all of reality. This *Universal Consciousness* creates, organizes, and directs the configuration of reality as a whole and may be seen as a deeper layer or force that connects all matter, space, and time. This resonates with philosophical theories such as panpsychism and analytic idealism (e.g., Bernardo Kastrup), in which the entire universe is viewed as a manifestation of an underlying field of consciousness. **Individual or personal consciousness** refers to the awareness we experience as humans (and other living beings). It includes thoughts, emotions, intentions, perceptions, and memories of an individual being. Personal consciousness is not separate from Universal Consciousness but is a specific manifestation of it. From this personal awareness, we can influence our own reality through perception and intention, thereby co-shaping the dynamic configuration of reality.

- **Observer:** In this hypothesis, the observer is not merely a passive recorder of an external, objective reality, but an active participant who directly influences the configuration of reality. The observer continuously creates and rewrites the past, present, and future through conscious and unconscious perceptions, intentions, and expectations. This makes the observer an integral part of the dynamic feedback loop between consciousness, perception, and reality.

3. Theoretical Framework

Relation to Quantum Mechanics

In quantum mechanics, reality is not seen as a predetermined structure but as a probabilistic field of possibilities, expressed in a wave function. Traditionally, it is assumed that this wave function collapses at the moment of observation, causing one specific outcome to become real. However, within the *Observer-Bias Loop*, this process is interpreted differently: the collapse of the wave function is not a definitive event but a temporarily realized choice that can always be revised. The superposition of possible outcomes remains latently present, meaning earlier observations and outcomes can be retroactively rewritten.

This concept partly aligns with the Many-Worlds Interpretation, in which all possible outcomes exist. However, it differs fundamentally by proposing that alternative outcomes remain actively reconfigurable within a single reality, based on conscious or unconscious observation and intention.

Philosophical Idealism

- **George Berkeley's Subjective Idealism ("Esse est percipi"):**
Berkeley argued that objects only exist when they are perceived. This notion forms a philosophical basis for the hypothesis, in which reality does not exist independently of the observer but continually arises and is reshaped through perception and consciousness.
- **Bernardo Kastrup's Analytic Idealism:**
Kastrup's analytic idealism posits that physical reality is a mental projection of an underlying field of consciousness. This aligns with the *Observer-Bias Loop*, in which consciousness actively shapes and configures reality through perception and intention.

Scientific Insights

- **Donald Hoffman's Reality as Interface:**
According to Hoffman, what we experience is not a direct reflection of an external objective reality, but an adaptive user interface shaped by perception. This idea supports the hypothesis that reality is actively and flexibly constructed from perception and consciousness.

Neuroscientific Insights

- **Neuroplasticity:**
Studies of neuroplasticity support the hypothesis that our memories and perceptions are fluid. Each time we recall a memory, we rewrite it. This suggests that our experience of

the past is not fixed but is shaped by the context of the current moment. It allows us to perceive our past as consistent, even though it is recreated anew each time in alignment with our current perception and interpretation.

- **Effects of Meditation and Visualization:**

Experiments have shown that conscious intentions and mental visualization can influence physical processes. This supports the active, creative role of consciousness in configuring and reshaping reality.

Supporting Theories

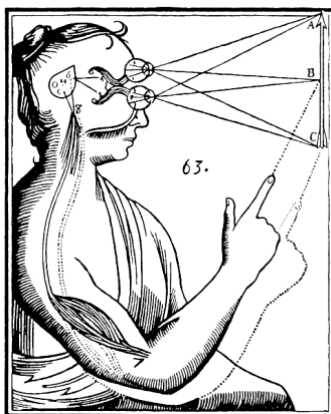
- **Superposition (Quantum Mechanics):**

The theory of superposition suggests that systems can exist in multiple states simultaneously until they are observed. In line with this hypothesis, the superposition remains latently present, meaning that earlier observations are never final and can be actively rewritten.

- **Holographic Universe:**

According to the holographic model, time and space are emergent properties of an underlying, timeless information structure. Our experience of reality can then be seen as a dynamic projection, consistent with the idea of the *Observer-Bias Loop*, in which perception and consciousness actively determine how this projection manifests and is configured. (See also Chapter 7 for further elaboration.)

4. The Creative Power of Perception



The classical view of perception assumes that we simply register information about an external, pre-existing reality. The *Observer-Bias Loop*, however, proposes that perception is not merely a passive recording, but an active and creative process that continually shapes and reshapes reality itself. Within this model, reality is not an independent structure existing outside of perception, but a field of possibilities that is realized and reconfigured through the act of observing.

Figure 1. René Descartes – Inputs pass through the senses and converge in the pineal gland, where the brain and the immaterial mind interact.

This creative power of perception can be seen as a continuous feedback loop between the observer and the experienced reality. Every perception—whether conscious or unconscious—contributes to the configuration and potential reconfiguration of past, present, and future. This aligns closely with recent neuroscientific insights such as neuroplasticity, which show that memories are not static data, but are rewritten each time they are recalled, depending on the context and perception at that moment.

Intention as a Guiding Force

Within the *Observer-Bias Loop*, intention plays a central role. Research into meditation, visualization, and their effects on physiological processes shows that intentions can indeed influence the manifestation of physical reality. This means that reality is not only shaped by what we passively

observe, but can also be actively guided by conscious intention and attention. Intention acts as a filter or lens through which consciousness configures and rewrites the field of potential realities.

Quantum Mechanical Support

This also resonates with various interpretations of quantum mechanics, such as John Cramer's *Transactional Interpretation* and John Wheeler's *Participatory Universe* hypothesis. These theories suggest that consciousness actively participates in the emergence of reality, influencing not only the present, but also the past and even the future. Experiments such as the "delayed-choice" experiments demonstrate that decisions made in the present can actually affect how past events manifest.

This active, creative power of perception emphasizes that consciousness does not merely observe, but co-creates, making us more aware of our role in the ongoing rewriting of our experienced reality.

Interpretations in Quantum Mechanics

Quantum mechanics offers multiple interpretations, each attributing a different role to perception and consciousness in the formation of reality. Below are some of the most important interpretations, with attention to how they relate to the *Observer-Bias Loop* hypothesis.

- **The Copenhagen Interpretation:**
According to this interpretation, measurement or observation causes a quantum system to collapse from a superposition of potential states into one concrete state. Although consciousness is not explicitly required in this model, it emphasizes the importance of interaction or observation as a determining factor. This partly aligns with the *Observer-Bias Loop*, but differs fundamentally in that collapse is seen as final and irreversible, whereas the *Observer-Bias Loop* proposes that it is reversible.
- **The Many-Worlds Interpretation:**
This interpretation proposes that each quantum event causes the universe to branch into parallel realities in which all possible outcomes simultaneously exist. While this corresponds with the idea of coexisting realities in the *Observer-Bias Loop*, it differs in that each outcome is realized in a separate parallel world. In contrast, the *Observer-Bias Loop* posits that all possible outcomes remain latent within a single reality and can be reselected at any time.
- **The Transactional Interpretation (John Cramer):**
This interpretation suggests communication between past and future via quantum signals that move both forward and backward in time. It provides a theoretical framework for retrocausality, where future events can influence the past. This approach strongly aligns with the *Observer-Bias Loop*, in which past and future are seen as flexible configurations that are continuously rewritten by observation and intention.
- **The Orchestrated Objective Reduction (Orch-OR) Theory (Roger Penrose & Stuart Hameroff):**
This theory posits that consciousness arises from quantum processes in the brain and can actively influence physical reality by selecting specific quantum states. Orch-OR describes consciousness as a non-passive, creative factor directly involved in configuring reality. This aligns closely with the *Observer-Bias Loop* model, in which consciousness is an active force that configures and reshapes reality.

While each interpretation contains valuable elements, none of them alone offers complete theoretical support for the *Observer-Bias Loop*. However, aspects such as the reversibility of collapse, retrocausality, and the active, creative nature of consciousness across different interpretations together form a strong theoretical foundation for the hypothesis. This invites further inquiry and re-evaluation of traditional views on time, reality, and consciousness within quantum mechanics.

5. Time as a Dynamic Configuration System in the Observer-Bias Loop

In classical physics, time is often represented as a linear stream: the past is fixed, the present unfolds, and the future is unknown. This linear model is a useful structure for everyday logic and understanding, but it assumes that time exists outside of us, with a fixed ordering of cause and effect. Within the *Observer-Bias Loop* hypothesis, however, a radically different understanding of time emerges—one in which time is not an absolute flow but a dynamic and self-reorganizing field of possibilities.

Time as Fluid and Nonlinear

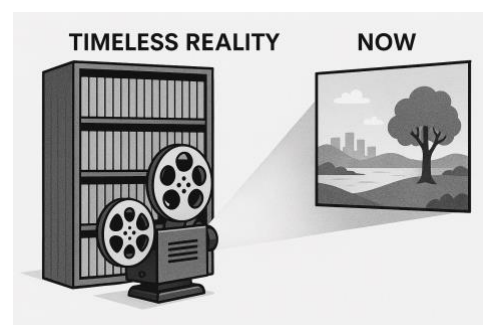
Rather than a one-dimensional timeline where moments follow each other in sequence, time in this hypothesis is viewed as a dynamic network of potential configurations. Each now-moment is not a fixed point on a line but an active node within a constantly rewriting web of events. Past and future do not exist as static entities but are fluctuating configurations that interact dynamically with the present.

Time, therefore, grows without a fixed linear trajectory, which requires a fundamental rethinking of our conventional concepts. While we experience time as sequential, the underlying structure is in fact timeless. The tension between our linear experience and the fundamental timelessness lies at the heart of the paradox this hypothesis aims to explore.

Two Layers of Reality: Fundamental and Virtual

A useful analogy for this concept is the metaphor of a cabinet filled with film reels. Each film contains an “interactive” reality—complete with movement, emotion, and a flow of time—but the reels themselves exist statically side by side. They represent the fundamental layer of reality: a timeless field of potential in which all possible scenarios coexist simultaneously as information, similar to the superposition of states in a quantum wave function.

Our experience of reality is like watching one specific film: a single path we live through linearly, as a stream of time. This is the virtual layer of reality. However, we never access the full collection of potential realities (the full “cabinet”); we are always inside a played version of reality. Time and reality do not exist as external, independent entities but emerge dynamically in and through our conscious experience.



The Now as a Rendering Point of Formation

In this view, the now-moment is not a fixed position on a timeline, but the active point of manifestation—a real-time rendering of a specific configuration within the potential field. Each now-moment represents an act of selection and creation, influenced by conscious and unconscious intentions. This implies that the past can be retroactively adjusted by current outcomes, while the future is continually reconfigured in response to changes in both the present and past.

The future already exists—not as a predetermined structure, but as the most probable outcome based on the current configuration. At the same time, any new intention or perception can alter this trajectory, leading to ongoing reconfigurations of both past and future. The now is thus the only stable intersection where all possible rewritings occur: the epicenter of creation within the field of time.



Time	Destinations	Gate	Flight
11:32	LONDON	A2	0042
11:55	TOKYO	B4	3832
12:08	PARIS	D1	0475
12:24	NEW YORK	C3	1206
12:42	MOSCOW	B2	6235
13:05	MIAMI	A3	8171
13:18	BANGKOK	C4	0152

The dynamics of rendering the now-moment can be well illustrated by an airport flipboard. On such a board, information is constantly being updated. Just like a flipboard, a single change does not affect only one entry, but also shifts what came before and what follows.

All Now-Moments Exist Simultaneously as Information

In this model, there is no single, absolute now, but a field of possible now-configurations—all simultaneously present as latent information within the fundamental structure of reality. This field functions like a quantum superposition: all potential versions of ‘now’ exist at once, but only one is activated at a time, depending on where conscious awareness is focused.

Consciousness acts as the “projector”: only where consciousness directs its focus is a specific configuration rendered into experiential reality. The other configurations remain unseen but continue to exist as alternative possibilities, ready to be actualized at a later moment.

This view aligns closely with the idea of a timeless wave function in some interpretations of quantum mechanics: the description of reality is essentially timeless; time arises only when observation occurs. Or as it can also be phrased: *everything is now, but not everything is experienced as now.*

When the past is rewritten by a new observation or intention in the present, this does not mean one returns to that moment and consciously relives it. What does happen is that a new, rewritten version of that past is now generated as the origin of the current reality. The change lies not in reliving a former now-moment, but in the fact that your present reality is now based on a different configuration of the past than before.

Scientific Indicators of Non-Linear Time Experience

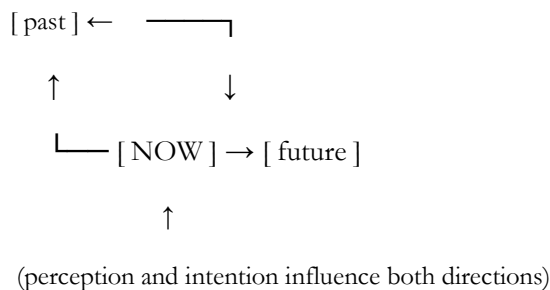
If consciousness can extend non-locally across the field of potential now-moments, it is conceivable that some individuals experience access to information that appears to lie outside their direct sensory timeline. Such phenomena, known as extra-sensory perception (ESP), represent a compelling area of research that parallels the temporal dynamics proposed in this hypothesis.

Findings from scientific studies — such as those by Alex Gomez-Marín — suggest that some individuals seem to receive information beyond normal sensory perception, including data from other time moments or distant locations. This supports the idea that all now-moments exist simultaneously and that consciousness can extend beyond local limitations.

5.1 Time as a Rewritable Structure

In this hypothesis, time behaves as a continuously rewriting network:

- The past is not a static archive but a field of states that can be dynamically reconfigured.
- The future is not a blank canvas but a continually recalibrating landscape of probabilities.
- The present does not function as a dividing line but as an active shaping mechanism between past and future.



This structure of time is not sequential but reflexive: each moment influences not only future outcomes but also the structure of earlier moments. Time acts as a feedback loop in which observation, expectation, and memory influence one another in real time.

An Organic, Self-Organizing System

Rather than functioning like a mechanical clock, time in this hypothesis behaves as a living, organic process that continually grows, branches, and reorganizes. New layers of meaning and possibility can emerge in the past, depending on current intentions and perceptions. Each moment thus becomes an evolutionary node that contributes to a dynamically changing structure of reality.

Intention and consciousness function as fundamental organizing forces within this dynamic. Consciousness does not merely influence reality passively through perception, but also actively by continuously shaping and rewriting the network of time. This occurs not only through deliberate choices but also via unconscious beliefs, expectations, and patterns of attention.

Retrocausality and the Power of Perception

This view aligns seamlessly with concepts such as retrocausality, in which future events can influence past events. Experimental research in quantum mechanics—such as the delayed-choice quantum eraser experiment—suggests that observations in the present can indeed alter the nature of past events. Within the *Observer-Bias Loop*, this means that perception and intention are not passive consequences of time but active forces that help determine how time itself is structured.

Conclusion: Time as a Living Field in Flux

In the *Observer-Bias Loop*, time is not a pre-established structure in which events unfold, but a living, plastic field that is continually reshaped through interaction, perception, and intention. Each moment is potentially editable, provided it is accessible from current awareness. This results in a reality that is not merely observed, but continuously created and rewritten.

In this view, the future is not an unwritten page, the past not a closed book, and the present not a neutral in-between phase. Time forms a dynamic, self-organizing system in which consciousness, experience, and reality are continually interwoven.

6. Consciousness as a Cosmic Co-Creator

Within the *Observer-Bias Loop*, consciousness is understood as a fundamental, creative principle that actively participates in the configuration of reality. In this hypothesis, consciousness is not the passive result of brain activity, but rather a cosmic force directly involved in the manifestation and rewriting of matter, energy, and time. This view aligns with panpsychist perspectives, which propose that not only living organisms but also seemingly lifeless matter and elementary particles possess some form of consciousness or experience.

From this perspective, consciousness is not a passive observer but an active co-creative force that influences how reality takes shape and reorganizes itself. This strongly resonates with philosophical idealism—especially Bernardo Kastrup’s analytic idealism—which holds that physical reality is a mental projection arising from a fundamental and universal Consciousness. Through perception and intention, consciousness continuously rewrites the present, the past, and potentially the future within a field of simultaneously existing possibilities.

Scientific Support for Consciousness as a Fundamental Principle

Recent scientific theories, such as the Orchestrated Objective Reduction (Orch-OR) theory developed by Roger Penrose and Stuart Hameroff, support the idea that consciousness is a fundamental property of the universe—one that extends beyond mere brain processes. According to these theories, consciousness manifests through quantum mechanical processes with properties such as non-locality, thereby transcending classical, causal explanations. This gives consciousness the potential to actively influence and rewrite the configuration of reality. This hypothesis raises important questions about the role of individual consciousness within the dynamic field of reality formation.

The Role of Individual Consciousness in Shaping Reality

This hypothesis raises important questions about the role of individual consciousness within the dynamic field of reality formation. Although the fundamental, universal Consciousness underlies existence itself, personal consciousness also plays an active role in configuring both individual and collective reality. Through conscious intention and directed perception, individuals can co-shape their reality. However, if this process remains unconscious, reality tends to follow a default mode in which unexamined patterns and prior conditioning determine experience.

Connection to Collective Consciousness and Self-Organization

In addition to individual influence, collective consciousness also plays a crucial role. According to Rupert Sheldrake's theory of morphic resonance, individual experiences and intentions are connected through a non-local transmission of information, resulting in collective fields of consciousness that reinforce and sustain patterns and structures within reality. This implies that reality functions as a dynamic, self-organizing system in which individual and collective perception and intention constantly interact and together create the experience of reality.

The apparent stability of natural laws and physical constants can be understood as the result of a widely shared collective consensus about how reality manifests. While this shared perception brings about stability and predictability, it remains inherently open to continuous reconfiguration through new insights, observations, and intentions.

Self-Organization in Quantum Mechanics

The principle of self-organization is also visible within quantum mechanics: phenomena such as quantum entanglement show that particles do not exist in isolation but are part of an ever-rearranging whole, where interactions occur non-locally. This supports the idea of an underlying, nonlinear, and interactive structure of reality, in which consciousness serves as an organizing force that continually rewrites reality.

The experienced stability and continuity of the world can be explained through the quantum mechanical *Quantum Zeno effect*, which states that a frequently observed quantum system changes less rapidly and thereby appears more stable. Through constant observations and collective perceptions by conscious and unconscious observers, reality is continuously reaffirmed and thus stabilized. This ongoing process of reinforcement ensures that the dynamic, underlying structure of reality does not fluctuate randomly but remains coherent and consistent within the framework of collective observation and consciousness.

Thus, the Quantum Zeno effect provides a theoretical mechanism to explain how a dynamic and continuously rewritable universe can still exhibit apparent stability and predictability, despite the intrinsic flexibility and variability of its underlying structures.

Reflection on Free Will within a Timeless Rendering Structure

This mechanism raises fundamental questions about free will and truth. In scientific studies on free will—such as the famous experiments by Benjamin Libet—it has been shown that the brain often exhibits activity several seconds or even minutes before a conscious decision is made. Some interpret this to mean that free will is an illusion. However, within the framework of the Observer-Bias Loop, this interpretation is understood differently.

In this model, consciousness is not viewed as a linear cause-and-effect mechanism within a pre-existing timeline, but rather as a co-creative force within a timeless field of possibilities. What we experience as a “decision at a given moment” is, in fact, the rendering of a specific configuration of past, present, and future—a configuration in which both the decision and the preceding brain activity are coherently embedded within a single experienced reality. The choice is not unfree; it simply does not arise through a linear process.

The fact that the brain appears to “know” before the conscious “I” can be understood in this model as an echo of how time and information can organize retroactively around a chosen outcome. Free will, in this view, remains intact—it is simply not bound to classical linear causality.

At the same time, the individual shares their reality with other conscious entities, who help shape the collective field through their own perceptions, intentions, and expectations. Free will, then, is relative: it operates within the bandwidth of the collective field and remains in constant interaction with the intentions of others. Yet the individual retains creative agency over their own path—and thus over the ‘now’ that is rendered.

Conclusion: Reality as a Dynamic Cosmic Co-Creation

In summary, this chapter posits that reality is not a fixed or predetermined structure, but is dynamically configured and rewritten through interactions between individual and collective fields of consciousness. Consciousness, perception, and intention together constitute the fundamental creative forces within the *Observer-Bias Loop*, through which past, present, and future are continually rewritten in interaction with one another.

7. The Holographic Universe: Bohm, Pribram, and Hoffman

The hypothesis that reality is a dynamic and continuously rewritten projection is supported and deepened by the concept of the holographic universe. Independently of each other, physicist David Bohm and neuroscientist Karl Pribram proposed that the universe behaves like a hologram—a structure in which all the information of a three-dimensional reality is encoded at a two-dimensional level. Each part of this holographic structure contains the information of the whole, which implies that our experience of three-dimensional reality is a projection from a more fundamental layer of information.

Donald Hoffman’s *Conscious Realism* aligns with this by arguing that what we perceive as objective reality is, in fact, an interface—a construct of consciousness emerging from a deeper, underlying field of awareness. According to Hoffman, there is no external reality independent of consciousness; what we experience as reality is the result of dynamic interactions within consciousness itself.

Reality as a Dynamic Projection

Within the holographic model, our experience of three-dimensional reality is not an objective given but a flexible projection from an underlying information structure. This means that past, present, and future do not need to be fixed or linear, but can remain continuously rewritable and reconfigurable. Each moment of perception can reconfigure the underlying information, making the past just as flexible and changeable as the present and potential future. This corresponds directly with the *Observer-Bias Loop* hypothesis, in which observers actively and continuously rewrite reality.

The Now Creates the Past

From the holographic perspective, the present—the “now”—can be considered the active source that determines how past and future manifest. This creates the illusion of a stable, consistent

timeline, while in reality, past and present are continually being rewritten based on conscious and unconscious perceptions and intentions in the now. Thus, the past is not a fixed series of events but a dynamic product of present consciousness.

Superposition and Holography

The holographic universe aligns directly with the quantum mechanical concept of superposition, in which all possible outcomes exist simultaneously until they are made concrete by an observer. This implies that the past and future exist as a latent field of potential realities, within which perception and intention select and manifest specific outcomes. Alternative possibilities remain latent and can be realized at a later time. This underlines the central idea of a dynamic, continuously rewritable reality.

Thermodynamics and Time as Emergent

In the holographic model, physical laws such as entropy and the arrow of time are not considered fundamental principles but emergent phenomena arising from the information structure being projected. This makes the idea of a dynamically rewritable past entirely compatible with contemporary physics. Time and causality do not emerge from a linear, fixed structure but from the way in which consciousness projects and organizes information.

Consciousness as the Projector of Reality

Within the holographic perspective, consciousness plays an essential and active role. Observers are not passive recipients of reality but active participants who co-create it. Consciousness can be seen as the “projector” that generates and continuously rewrites our three-dimensional experience of reality from a deeper information structure. Individual and collective perceptions and intentions directly influence how reality manifests and evolves.

The Observer as Active Co-Creator

The holographic universe provides a theoretical framework that supports and enriches the *Observer-Bias Loop* hypothesis. By viewing reality as a dynamic, continuously rewritable projection of consciousness, it becomes clear how past, present, and future are formed interactively through perception and intention. Consciousness is thus recognized as the central force that not only registers our experience of reality but actively creates and configures it.

Benefits and Challenges of the Holographic Model

Benefits

- **Flexibility of Time and Space:**
The holographic universe offers theoretical support for a non-linear view of reality in which the observer actively participates in rewriting time and space—perfectly aligning with the dynamic vision of the *Observer-Bias Loop*.
- **Support for the Observer Effect:**
Since projections are by definition dependent on a source of consciousness, the holographic principle supports the idea that perception actively shapes reality. This reinforces the hypothesis of the observer’s active role.

- **A Changeable Past:**

In a holographic context, the past is not a static given but continuously regenerated from present consciousness—fully in line with the hypothesis of a dynamic past.

Challenges

- **Empirical Validation:**

Despite strong theoretical arguments from string theory and quantum gravity, empirical support remains limited. Demonstrating this dynamic reality experimentally poses a major challenge to current science.

- **Mechanism of Consciousness:**

While the central role of consciousness is evident, the exact mechanism by which consciousness physically influences the projection remains unclear—posing both a philosophical and scientific challenge.

- **Subjective Stability:**

A fundamental philosophical question remains: why, despite the theoretical rewritability of the past, do we experience such strong subjective continuity and stability? The lack of conscious awareness of these dynamic changes in the past remains an important issue for further research.

Quantum Mechanics and Holography

When we view reality as a holographic projection in which consciousness organizes information, quantum phenomena such as entanglement and non-local causality become more understandable. This further supports the active role of the observer and offers a strong complement to the *Observer-Bias Loop* hypothesis.

8. Psychokinetic Evidence: The Influence of Intention on Matter

In the context of the *Observer-Bias Loop*, perception is not merely a passive registration process, but an active, creative force that continually shapes and reshapes reality. Intentions, emotions, and beliefs play an essential role in this, as they directly influence the configuration of reality. This principle also offers an explanation for phenomena such as the so-called “Law of Attraction”: when someone visualizes a certain outcome with strong intent, this influences the probabilistic structure of reality, making specific outcomes more likely.

However, this process has its limits. Reality functions as a collective consensus field that is constantly self-correcting. Changes therefore propagate gradually, adapted to the input of all conscious and unconscious observers. This ensures that reality remains consistent and stable, despite its dynamic, continuously rewritten nature.

Experimental Research on Intention and Matter

Various scientific studies have suggested that consciousness can directly influence physical matter and processes, aligning with quantum mechanical interpretations in which observation actively shapes reality.

Princeton Engineering Anomalies Research (PEAR)

The PEAR lab conducted decades of research into whether human intention could influence random processes, such as Random Number Generators (RNGs). The results showed that focused human intention could cause a small but statistically significant shift in the outcomes of these physical systems. This supports the idea that consciousness can subtly—but consistently—affect physical processes, in line with the *Observer-Bias Loop* hypothesis.

Dean Radin's Meditation Experiments

Dean Radin, from the Institute of Noetic Sciences, studied whether focused intention—such as during meditation—could influence physical systems. His studies found that plants exposed to concentrated positive intentions grew faster than those in control groups. This supports the notion that conscious intention can directly influence physical reality, closely aligning with the central idea of a dynamic interaction between consciousness and matter.

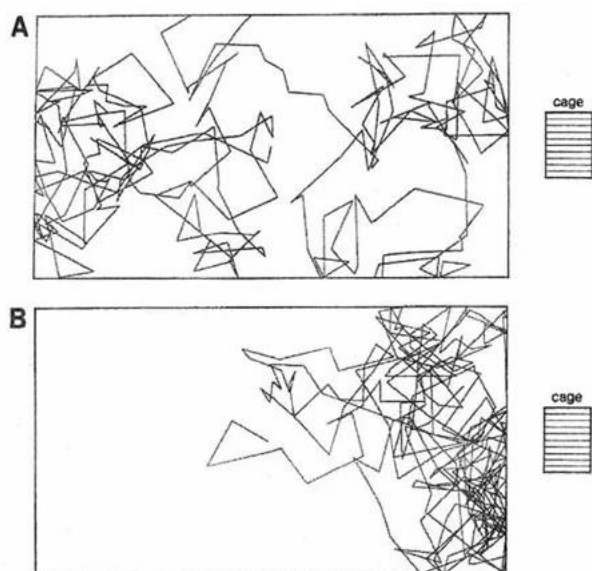


Figure 1. René Peoc'h – Chickens, Telekinesis

René Peoc'h's Chick and Robot Experiment

In Figure 1A, a robot moves entirely at random, controlled by a random number generator. In Figure 1B, newly hatched chicks are placed in a cage—having formed an attachment to the robot beforehand. Remarkably, the robot then moved significantly more often in the direction of the cage. This experiment suggests that emotional intention, even in animals, can subtly but measurably influence physical systems.

Connection to Quantum Mechanics and Consciousness

The findings from psychokinetic research can be understood within quantum mechanical frameworks in which observation plays an active role in determining which version of reality manifests from a field of possibilities. Quantum entanglement, in particular, offers a theoretical model in which consciousness may influence matter through non-local connections. This supports the central idea of the *Observer-Bias Loop*: that consciousness actively participates in the configuration of reality by continuously rewriting the past and present in a dynamic process.

Quantum Mechanical Interpretations: Observation, Measurement, and Consciousness

There are various interpretations of quantum mechanics, each assigning a different role to consciousness:

- **Copenhagen Interpretation:**
Observation determines which quantum state becomes real. Consciousness itself is not necessarily considered causal here.
- **Many-Worlds Interpretation:**
All possible outcomes manifest simultaneously in parallel universes. Consciousness is largely a passive witness of already-existing realities.
- **Transactional Interpretation (John Cramer):**
Observation and consciousness play an active role, as signals are exchanged between past and future, allowing observers to anticipate and partly determine which reality manifests. This aligns well with the *Observer-Bias Loop*.
- **Orchestrated Objective Reduction (Orch-OR) Theory (Penrose and Hameroff):**
Consciousness plays a fundamental role by actively selecting outcomes in quantum processes, reducing quantum states into a specific reality. This, too, fits the hypothesis.

Conclusion: Consciousness as an Active Shaper of Reality

The various psychokinetic experiments and quantum mechanical interpretations confirm and reinforce the fundamental idea of this essay: consciousness is not passive, but an active principle that continuously influences the structure of reality. These insights call for deeper reflection and further research into the exact mechanisms through which consciousness, perception, and intention dynamically and interactively rewrite and configure reality.

9. Perceptual Reset: The Mechanism of Dynamic Reality

The Dynamics of Perception and Memory

If reality is a continuously rewritten projection, this raises the question: why don't we consciously perceive these changes? In this model, both perception and memory are directly updated with each new configuration of reality, causing us to experience the end result as the only consistent version. This mechanism allows us to maintain a sense of stability, even though the underlying structure is in constant flux.

Collective Consistency

To maintain a consistent shared reality, the process of reality reconfiguration must occur synchronously among different observers. A kind of collective consciousness or shared information structure—possibly in line with morphic resonance or holographic principles—could be responsible for this universal consistency. Minor discrepancies, such as the Mandela Effect or déjà vu, may arise when this synchronization is imperfect, resulting in temporary inconsistencies in memory.

Consciousness as an Active Factor

Consciousness functions not only as a receiver but also as an active participant in this rewriting process. This generates a feedback loop in which individual and collective perceptions and intentions both create and continually adjust reality. The rewriting of reality is therefore not an externally imposed process, but a shared dynamic in which consciousness plays a central role.

Supporting Phenomena and Evidence

Several phenomena support this concept:

- **Mandela Effect:**
Collective inconsistencies in memory may point to imperfections in the rewriting process of reality.
- **Déjà Vu:**
May occur due to temporary mismatches between newly rewritten versions of events and older memories.
- **Neuroscientific Evidence:**
The fact that memories are altered each time they are recalled supports this model on an individual level.
- **Quantum Mechanical Paradoxes:**
Phenomena such as entanglement and non-locality suggest that reality depends on observation, which aligns with the idea of a rewritable and dynamic reality.

These observations provide further support for the hypothesis of a dynamic, continuously rewritten reality and highlight the active role of consciousness as a central force in shaping our experience of the world.

10. Concluding Reflection

The *Observer-Bias Loop* proposes a radically different worldview, in which reality is not an objective structure but a dynamic, consciousness-dependent field of configurations. In this model, perception, intention, and time are not passive phenomena but active forces that together determine what is experienced as real.

This hypothesis is not intended as a definitive explanation, but as an invitation to reorient ourselves—not only in science, but also in how we, both individually and collectively, understand our role within reality.

What if the world around us is not merely being observed, but is being co-created—moment by moment—with every act of attention?

References

- Berkeley, G. (1710). *A Treatise Concerning the Principles of Human Knowledge*. London: W. Innys & J. Richardson.
- Bohm, D. (1980). *Wholeness and the Implicate Order*. London: Routledge.
- Cramer, J. G. (1986). The transactional interpretation of quantum mechanics. *Reviews of Modern Physics*, 58(3), 647–688.
- Hoffman, D. D. (2019). *The Case Against Reality: Why Evolution Hid the Truth from Our Eyes*. New York: W. W. Norton & Company.
- Kastrup, B. (2019). *The Idea of the World: A Multi-Disciplinary Argument for the Mental Nature of Reality*. Winchester: Iff Books.
- Penrose, R., & Hameroff, S. (2011). Consciousness in the universe: A review of the ‘Orch OR’ theory. *Physics of Life Reviews*, 8(1), 39–78.
- Peoach, R. (2007). The impact of emotional attachment in non-human animals and its effect on external systems. *Journal of Scientific Exploration*, 21(2), 273–283.
- Pribram, K. H. (1991). *Brain and Perception: Holonomy and Structure in Figural Processing*. Hillsdale, NJ: Lawrence Erlbaum Associates.
- Sheldrake, R. (2012). *The Science Delusion: Freeing the Spirit of Enquiry*. London: Coronet.
- Wheeler, J. A. (1984). Information, physics, quantum: The search for links. In *Proceedings of the Third International Symposium on Foundations of Quantum Mechanics*. Tokyo: Physical Society of Japan.
- Seth, A. (2021). *Being You: A New Science of Consciousness*. London: Faber & Faber.