

ORIGINAL CAUSE

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Original Cause

Primary Disciplinary Field(s): Philosophy (Metaphysics, Logic), Psychology, Forensics, Systems Analysis

1. Core Definition and Linguistic Context

The concept of the **Original Cause** refers fundamentally to the initial or primary factor responsible for generating a specific outcome, effect, or sensation. It is defined as the first necessary event, action, or condition in a sequential chain that culminates in the observed impact. In its purest form, identifying the original cause means tracing the lineage of influence back to the point where the subsequent sequence of events would not have occurred otherwise. This concept serves as the foundational element in causal analysis, distinguishing the trigger from the intermediary steps that merely facilitate the progression. Philosophically and scientifically, determining the original cause is crucial because it provides the maximum leverage point for understanding, predicting, and potentially preventing or replicating the outcome in question.

The emphasis on "original" implies not just temporal precedence but critical necessity. While many factors might contribute to an outcome (contributing causes), and one factor might be the most immediate trigger (proximate cause), the original cause is the indispensable starting condition. For example, in a complex system failure, the immediate cause might be a software crash, but the original cause could be the initial design flaw that made the system vulnerable to that specific input. The language used often implies a search for singularity or primacy; phrases such as "the root cause," "the initiating event," or "the fundamental trigger" are often employed interchangeably with **Original Cause**, particularly in engineering, diagnostic medicine, and investigative fields. The core challenge in defining it lies in determining where the sequence of analysis should definitively stop--the point beyond which further investigation into prior conditions becomes either irrelevant or impossible.

In the context of sensation, as noted in the psychological definition, the **Original Cause** is the external stimulus or internal neurophysiological event that initiates the sensory cascade. This could be the photons hitting the retina, the pressure wave disturbing the auditory hair cells, or the initial release of a neurotransmitter in response to an internal thought process. The resulting sensation (perception, emotion, or behavioral response) is the ultimate effect, but tracing the pathway back requires pinpointing the event that first broke the equilibrium or initiated the input sequence. This distinction highlights that the original cause is not merely an abstract philosophical concept but a practical requirement for understanding physical and mental processes, providing a baseline for analyzing phenomena ranging from simple physical reactions to complex human behaviors.

2. Philosophical Foundations of Causality

The pursuit of the **Original Cause** is deeply rooted in classical metaphysics, particularly the Aristotelian tradition. Aristotle identified four types of causes: Material, Formal, Final, and Efficient. The **Original Cause** most closely aligns with the concept of the Efficient Cause--that which produces the change or movement. For Aristotle, understanding an object or event required identifying the primary agent or force responsible for bringing it into being or altering its state. However, Aristotle's framework sought holistic understanding, whereas modern concepts of the original cause often focus on isolating a single, primary point of intervention within a linear temporal sequence, moving away from a teleological (final cause) perspective common in pre-Enlightenment thought.

Later philosophical shifts, particularly those introduced by David Hume, significantly complicated the identification of the **Original Cause**. Hume argued that causation is not a necessary connection observed in the world but rather a psychological expectation based on the constant conjunction of events (Event A always preceding Event B). This empirical approach suggests that while we can observe sequences, naming a singular 'original' cause is an act of human interpretation and induction, not a direct perception of metaphysical necessity. Consequently, modern epistemology must rely on highly structured experimental and counterfactual analysis (i.e., if A had not occurred, would B still have happened?) to infer the original cause, rather than assuming its self-evident nature. The challenge, therefore, shifts from finding a necessary link to establishing a high probability of sequential dependence.

Furthermore, the philosophical debate surrounding determinism versus indeterminism directly impacts the feasibility of identifying a true original cause. If the universe operates under strict Causal Determinism, then every event, including the supposed original cause, is itself the necessary effect of a prior cause, theoretically leading to an infinite regress. This raises the question of whether an "original" cause, in the sense of an uncaused first cause (or *causa sui*), can exist within the physical world. If indeterminism (such as that suggested by quantum mechanics or chaotic systems theory) holds sway, then events may arise without precise, predictable prior conditions, making the concept of a singular, deterministic original cause unreliable or meaningless in certain contexts.

3. The Concept in Psychology and Sensation

In psychology, particularly in the study of perception and behaviorism, the **Original Cause** is frequently equated with the initial stimulus (S) that precedes the resulting response (R). For behaviorists, understanding behavior required precise identification of the environmental trigger that initiated a learned or unlearned reaction. The original cause here is objective and measurable--a loud noise, a specific visual cue, or a painful shock. This rigorous approach seeks to eliminate

subjective interpretation by isolating the external event that acts as the necessary and sufficient starting point for the observed psychological phenomenon.

However, cognitive and psychodynamic perspectives complicate this simple S-R model by introducing internal mediating variables. For instance, while an external event (a criticism) might be the proximate cause of distress, the **Original Cause** of the heightened emotional response might be traced back to deeply ingrained cognitive schemas, early childhood trauma, or underlying neurological vulnerabilities. In these cases, the "original" cause is not the temporally immediate external event but the pre-existing internal condition that dictates the nature and intensity of the reaction. This requires psychological investigation to delve into historical, developmental, and biological factors to locate the true point of origin for the dysfunctional pattern or sensation.

The study of sensation relies heavily on identifying the **Original Cause** at the neurophysiological level. For instance, understanding phantom limb pain requires the realization that the original cause of the sensation is not a present physical stimulus in the missing limb, but rather a reorganization or pathological activity within the somatosensory cortex or peripheral nerves that initially served the limb. Similarly, in studying optical illusions, the physical input (the original cause in the environment) is distinct from the perceptual output (the effect), requiring researchers to determine precisely how the brain misinterprets the input to generate the erroneous sensation. Identifying the source--whether peripheral (sensory organs) or central (brain processing)--is critical for developing effective interventions, highlighting the diagnostic necessity of locating the true point of origin.

4. Distinction from Proximate and Contributing Causes

It is crucial to differentiate the **Original Cause** (often equivalent to the Cause-in-Fact or but-for cause) from both the Proximate Cause and various Contributing Causes, a distinction particularly important in legal and accident investigation fields. A contributing cause is any factor that increases the likelihood or severity of an outcome but is neither necessary nor sufficient on its own. For example, poor lighting might contribute to an accident, but it is not the original cause if the primary factor was driver intoxication.

The Proximate Cause, conversely, is the event that is closest in time and space to the outcome and is often the legally recognized cause of harm, emphasizing foreseeability and direct connection. While the Original Cause initiates the chain, the Proximate Cause is the link that triggers the final result and is often the basis for legal liability. Consider a factory fire: the **Original Cause** might be a decades-old decision to use flammable material in construction (a distant, initial error); a Contributing Cause might be a temporary power surge; but the Proximate Cause is the faulty wiring component that finally sparked the flame, making the maintenance crew responsible for that wiring potentially liable. Legal and forensic investigations must carefully separate these

elements to assign responsibility accurately, recognizing that the original cause may be too remote in time or scope to warrant legal blame, even if it initiated the entire sequence.

In system diagnostics (e.g., computing or engineering), this differentiation is equally vital. Root cause analysis (RCA) is specifically designed to bypass the immediate, proximate cause and identify the deep-seated, original flaw or error. If a server crashes (the effect), the immediate log might point to an overloaded memory buffer (the proximate cause). However, the RCA process seeks the **Original Cause**, which could be the lack of a proper memory allocation protocol in the initial operating system design, or a failure in the organizational training regimen that allowed the faulty configuration to be implemented. Isolating the true point of origin allows engineers to implement systemic changes that prevent recurrence across the organization, rather than applying a temporary patch to the symptom.

5. Methodologies for Determining Original Cause

Determining the **Original Cause** relies heavily on systematic investigative techniques, primarily utilizing counterfactual reasoning and elimination methods. The fundamental methodological tool is the "but-for" test: but for the occurrence of Condition A, would Effect B have transpired? If the answer is no, then A is established as a necessary cause, often pointing toward the original cause, provided no earlier indispensable condition exists. This requires establishing a clear temporal sequence and demonstrating the logical necessity of the initial event.

In experimental science, the determination of the original cause is formalized through controlled experimental design. By manipulating a single independent variable (the hypothesized original cause) while keeping all other conditions constant, researchers can isolate the influence of that variable on the outcome. If changes in Variable X systematically produce changes in Effect Y, a strong causal relationship is established. However, in complex, real-world systems, pure experimentation is often impossible, necessitating the use of statistical tools like regression analysis and structural equation modeling (SEM) to infer causal paths and identify the factor with the highest explanatory power at the beginning of the sequence.

Furthermore, investigative methodologies like the 5 Whys technique (developed by Sakichi Toyoda) are specifically designed to drill down past superficial proximate causes to uncover the **Original Cause**. This iterative questioning process forces the investigator to move past the immediate symptom (Why did the machine stop?) to the systemic failure (Why was the preventative maintenance skipped?) to the foundational organizational issue (Why did management fail to prioritize maintenance staffing?). Each answer becomes the basis for the next question, ensuring that the investigation continues until the root, or original, cause--the point where the system can be fundamentally fixed--is identified.

6. Epistemological Challenges and Limitations

Despite robust methodologies, the identification of the absolute **Original Cause** is fraught with significant epistemological challenges. The most prominent difficulty is the problem of infinite regress: if every cause is preceded by another cause, where does the chain truly begin? Practical investigation is often forced to declare a practical original cause--the earliest identifiable and preventable factor within the scope of inquiry--even if philosophically, this cause is itself an effect of a prior state. This limitation means that the "original cause" identified in fields like forensics or medicine is often the *most actionable* initial cause, rather than the absolute first event in the universe.

Another major challenge involves the presence of complex interactions, feedback loops, and chaotic systems. In systems governed by non-linear dynamics, very small, imperceptible variations in initial conditions (often referred to as the Butterfly Effect) can lead to vastly different outcomes. In such scenarios, isolating a single, definite original cause becomes impossible, as causality is distributed and the system's sensitivity to minute changes makes the initial state practically unknowable with sufficient precision. Here, the concept of a singular original cause must yield to the understanding of probabilistic causality and emergent properties.

Finally, the limitation of human perception and technological measurement restricts the search for the original cause. We can only measure causes down to the resolution limit of our instruments and the boundaries of our theoretical understanding (e.g., the Planck epoch in cosmology). Hidden variables--unmeasured or unknown factors that influence both the supposed cause and the effect--can lead to spurious causal identifications. Therefore, any declaration of the **Original Cause** must be provisional, dependent upon the current state of knowledge and the scope of the investigation, always acknowledging the possibility of a deeper, earlier cause yet to be discovered.

7. Significance Across Disciplines

The ability to pinpoint the **Original Cause** carries profound significance across diverse disciplinary fields, serving as the basis for prediction, control, and moral responsibility. In medical diagnostics, identifying the initial etiological factor (the pathogen, genetic mutation, or environmental exposure) is essential for developing curative treatments rather than merely managing symptoms. A failure to locate the original cause often results in recurring problems or ineffective long-term strategies, reinforcing the necessity of deep causal tracing.

In ethical and legal theory, the concept directly informs the assignment of responsibility and guilt. An individual is typically held morally or legally culpable for actions that serve as the original, intentional cause of harm, provided their actions are not superseded by intervening factors. Societies rely on this concept to structure criminal and civil justice, ensuring that accountability is directed toward the initiating agent who set the harmful sequence in motion, rather than merely

punishing those who were temporally proximate to the outcome.

Furthermore, in risk management and preventative policy, the identification of the **Original Cause** is the primary driver for creating sustainable safety protocols. Whether analyzing financial crises, environmental disasters, or public health failures, policy makers seek the root conditions (e.g., poor regulation, systemic corruption, or initial geological instability) that allowed the crisis to develop. By addressing these foundational causes, rather than treating the symptoms of the subsequent cascade, organizations and governments aim for long-term resilience and prevention, demonstrating the profound practical importance of tracing causality back to its point of origin.

Further Reading

[Causation: Metaphysics \(Stanford Encyclopedia of Philosophy\)](#)

[Root Cause Analysis \(Wikipedia\)](#)

[Determinism \(Wikipedia\)](#)

[Efficient Cause \(Britannica\)](#)