

Truth

Truth is the property of being in accord with fact or reality.^[1] In everyday language, truth is typically ascribed to things that aim to represent reality or otherwise correspond to it, such as beliefs, propositions, and declarative sentences.^[2]

Truth is usually held to be the opposite of falsity. The concept of truth is discussed and debated in various contexts, including philosophy, art, theology, and science. Most human activities depend upon the concept, where its nature as a concept is assumed rather than being a subject of discussion; these include most of the sciences, law, journalism, and everyday life. Some philosophers view the concept of truth as basic, and unable to be explained in any terms that are more easily understood than the concept of truth itself.^[2] Most commonly, truth is viewed as the correspondence of language or thought to a mind-independent world. This is called the correspondence theory of truth.

Various theories and views of truth continue to be debated among scholars, philosophers, and theologians.^{[2][3]} There are many different questions about the nature of truth which are still the subject of contemporary debates, such as: How do we define truth? Is it even possible to give an informative definition of truth? What things are truthbearers and are therefore capable of being true or false? Are truth and falsity bivalent, or are there other truth values? What are the criteria of truth that allow us to identify it and to distinguish it from falsity? What role does truth play in constituting knowledge? And is truth always absolute, or can it be relative to one's perspective?



Time Saving Truth from Falsehood and Envy, François Lemoine, 1737

Contents

Definition and etymology

Major theories

Substantive

Correspondence

Coherence

Pragmatic

Constructivist

Consensus

Minimalist

Deflationary

Performative

Redundancy and related

Philosophical skepticism

Pluralist

Most-believed

Formal theories

[Logic](#)

[Mathematics](#)

[Tarski's semantics](#)

[Kripke's semantics](#)

[Folk beliefs](#)

[Notable views](#)

[Ancient philosophy](#)

[Ancient Greece](#)

[Socratic philosophy](#)

[Non-Socratic philosophy](#)

[Medieval philosophy](#)

[Avicenna \(980–1037\)](#)

[Aquinas \(1225–1274\)](#)

[Changing concepts of truth in the Middle Ages](#)

[Modern philosophy](#)

[Kant \(1724–1804\)](#)

[Hegel \(1770–1831\)](#)

[Schopenhauer \(1788–1860\)](#)

[Kierkegaard \(1813–1855\)](#)

[Nietzsche \(1844–1900\)](#)

[Heidegger \(1889–1976\)](#)

[Whitehead \(1861–1947\)](#)

[Peirce \(1839–1914\)](#)

[Nishida \(1870–1945\)](#)

[Fromm \(1900–1980\)](#)

[Foucault \(1926–1984\)](#)

[Baudrillard \(1929–2007\)](#)

[Theological views](#)

[Hinduism](#)

[Buddhism](#)

[Christianity](#)

[See also](#)

[Other theorists](#)

[Notes](#)

[References](#)

[External links](#)

Definition and etymology

The English word *truth* is derived from [Old English](#) *tríewþ*, *tréowþ*, *trýwþ*, [Middle English](#) *trewþe*, cognate to [Old High German](#) *triuwida*, [Old Norse](#) *tryggð*. Like *troth*, it is a *-th* nominalisation of the adjective *true* (Old English *tréowe*).



An angel carrying the banner of "Truth", Roslin, Midlothian

The English word *true* is from Old English (West Saxon) *(ge)tríewe*, *tréowe*, cognate to Old Saxon *(gi)trûui*, Old High German *(ga)triuwu* (Modern German *treu* "faithful"), Old Norse *tryggr*, Gothic *triggws*,^[4] all from a Proto-Germanic **trewwj-* "having good faith", perhaps ultimately from PIE **dru-* "tree", on the notion of "steadfast as an oak" (e.g., Sanskrit *dárû* "(piece of) wood").^[5] Old Norse *trú*, "faith, word of honour; religious faith, belief"^[6] (archaic English *troth* "loyalty, honesty, good faith", compare *Ásatrú*).

Thus, 'truth' involves both the quality of "faithfulness, fidelity, loyalty, sincerity, veracity",^[7] and that of "agreement with fact or reality", in Anglo-Saxon expressed by *sōþ* (Modern English *sooth*).

All Germanic languages besides English have introduced a terminological distinction between truth "fidelity" and truth "factuality". To express "factuality", North Germanic opted for nouns derived from *sanna* "to assert, affirm", while continental West Germanic (German and Dutch) opted for continuations of *wâra* "faith, trust, pact" (cognate to Slavic *věra* "(religious) faith", but influenced by Latin *verus*). Romance languages use terms following the Latin *veritas*, while the Greek *aletheia*, Russian *pravda*, South Slavic *istina* and Sanskrit *sat* have separate etymological origins.

In some modern contexts, the word "truth" is used to refer to fidelity to an original or standard. It can also be used in the context of being "true to oneself" in the sense of acting with authenticity.^[1]

Major theories

The question of what is a proper basis for deciding how words, symbols, ideas and beliefs may properly be considered true, whether by a single person or an entire society, is dealt with by the five most prevalent substantive **theories of truth** listed below. Each presents perspectives that are widely shared by published scholars.^{[8][9][10]}

Theories other than the most prevalent substantive theories are also discussed. More recently developed "deflationary" or "minimalist" theories of truth have emerged as possible alternatives to the most prevalent substantive theories. Minimalist reasoning centres around the notion that the application of a term like *true* to a statement does not assert anything significant about it, for instance, anything about its *nature*. Minimalist reasoning realises *truth* as a label utilised in general discourse to express agreement, to stress claims, or to form general assumptions.^{[8][11][12]}

Substantive

Correspondence

Correspondence theories emphasize that true beliefs and true statements correspond to the actual state of affairs.^[13] This type of theory stresses a relationship between thoughts or statements on one hand, and things or objects on the other. It is a traditional model tracing its origins to ancient Greek philosophers such as Socrates, Plato, and Aristotle.^[14] This class of theories holds that the truth or the falsity of a representation is determined in principle entirely by how it relates to "things" by whether it accurately describes those "things". A classic example of correspondence theory is the statement by the thirteenth century philosopher and theologian Thomas Aquinas: "Veritas est adaequatio rei et intellectus" ("Truth is the adequation of things and intellect"), which Aquinas attributed to the ninth century Neoplatonist Isaac Israeli.^{[15][16][17]} Aquinas also restated the theory as: "A judgment is said to be true when it conforms to the external reality".^[18]

Correspondence theory centres heavily around the assumption that truth is a matter of accurately copying what is known as "objective reality" and then representing it in thoughts, words and other symbols.^[19] Many modern theorists have stated that this ideal cannot be achieved without analysing additional factors.^{[8][20]} For example, language plays a role in that all languages have words to represent concepts that are virtually undefined in other languages. The German word Zeitgeist is one such example: one who speaks or understands the language may "know" what it means, but any translation of the word apparently fails to accurately capture its full meaning (this is a problem with many abstract words, especially those derived in agglutinative languages). Thus, some words add an additional parameter to the construction of an accurate truth predicate. Among the philosophers who grappled with this problem is Alfred Tarski, whose semantic theory is summarized further below in this article.^[21]

Proponents of several of the theories below have gone further to assert that there are yet other issues necessary to the analysis, such as interpersonal power struggles, community interactions, personal biases and other factors involved in deciding what is seen as truth.

Coherence



Walter Seymour Allward's *Veritas* (Truth) outside Supreme Court of Canada, Ottawa, Ontario Canada

For coherence theories in general, truth requires a proper fit of elements within a whole system. Very often, though, coherence is taken to imply something more than simple logical consistency; often there is a demand that the propositions in a coherent system lend mutual inferential support to each other. So, for example, the completeness and comprehensiveness of the underlying set of concepts is a critical factor in judging the validity and usefulness of a coherent system.^[22] A pervasive tenet of coherence theories is the idea that truth is primarily a property of whole systems of propositions, and can be ascribed to individual propositions only according to their coherence with the whole. Among the assortment of perspectives commonly regarded as coherence theory, theorists differ on the question of whether coherence entails many possible true systems of thought or only a single absolute system.

Some variants of coherence theory are claimed to describe the essential and intrinsic properties of formal systems in logic and mathematics.^[23] However, formal reasoners are content to contemplate axiomatically independent and sometimes mutually contradictory systems side by side, for example, the various alternative geometries. On the whole, coherence theories have been rejected for lacking justification in their application to other areas of truth, especially with respect to assertions about the natural world, empirical data in general, assertions about practical matters of psychology and society, especially when used without support from the other major theories of truth.^[24]

Coherence theories distinguish the thought of rationalist philosophers, particularly of Baruch Spinoza, Gottfried Wilhelm Leibniz, and Georg Wilhelm Friedrich Hegel, along with the British philosopher F. H. Bradley.^[25] They have found a resurgence also among several proponents of logical positivism, notably Otto Neurath and Carl Hempel.

Pragmatic

The three most influential forms of the *pragmatic theory of truth* were introduced around the turn of the 20th century by Charles Sanders Peirce, William James, and John Dewey. Although there are wide differences in viewpoint among these and other proponents of pragmatic theory, they hold in common that truth is verified and confirmed by the results of putting one's concepts into practice.^[26]

Peirce defines truth as follows: "Truth is that concordance of an abstract statement with the ideal limit towards which endless investigation would tend to bring scientific belief, which concordance the abstract statement may possess by virtue of the confession of its inaccuracy and one-sidedness, and this confession is an essential ingredient of truth."^[27] This statement stresses Peirce's view that ideas of approximation, incompleteness, and partiality, what he describes elsewhere as *fallibilism* and "reference to the future", are essential to a proper conception of truth. Although Peirce uses words like *concordance* and *correspondence* to describe one aspect of the pragmatic sign relation, he is also quite explicit in saying that definitions of truth based on mere correspondence are no more than *nominal* definitions, which he accords a lower status than *real* definitions.

William James's version of pragmatic theory, while complex, is often summarized by his statement that "the 'true' is only the expedient in our way of thinking, just as the 'right' is only the expedient in our way of behaving."^[28] By this, James meant that truth is a *quality*, the value of which is confirmed by its effectiveness when applying concepts to practice (thus, "pragmatic").

John Dewey, less broadly than James but more broadly than Peirce, held that inquiry, whether scientific, technical, sociological, philosophical or cultural, is self-corrective over time *if* openly submitted for testing by a community of inquirers in order to clarify, justify, refine and/or refute proposed truths.^[29]

Though not widely known, a new variation of the pragmatic theory was defined and wielded successfully from the 20th century forward. Defined and named by William Ernest Hocking, this variation is known as "negative pragmatism". Essentially, what works may or may not be true, but what fails cannot be true because the truth always works.^[30] Richard Feynman also ascribed to it: "We never are definitely right, we can only be sure we are wrong."^[31] This approach incorporates many of the ideas from Peirce, James, and Dewey. For Peirce, the idea of "... endless investigation would tend to bring about scientific belief ..." fits negative pragmatism in that a negative pragmatist would never stop testing. As Feynman noted, an idea or theory "... could never be proved right, because tomorrow's experiment might succeed in proving wrong what you thought was right."^[31] Similarly, James and Dewey's ideas also ascribe truth to repeated testing which is "self-corrective" over time.

Pragmatism and negative pragmatism are also closely aligned with the coherence theory of truth in that any testing should not be isolated but rather incorporate knowledge from all human endeavors and experience. The universe is a whole and integrated system, and testing should acknowledge and account for its diversity. As Feynman said, "... if it disagrees with experiment, it is wrong."^[32]

Constructivist

Social constructivism holds that truth is constructed by social processes, is historically and culturally specific, and that it is in part shaped through the power struggles within a community. Constructivism views all of our knowledge as "constructed," because it does not reflect any external "transcendent" realities (as a pure correspondence theory might hold). Rather, perceptions of truth are viewed as contingent on convention, human perception, and social experience. It is believed by constructivists that representations of physical and biological reality, including race, sexuality, and gender, are socially constructed.

Giambattista Vico was among the first to claim that history and culture were man-made. Vico's epistemological orientation gathers the most diverse rays and unfolds in one axiom—*verum ipsum factum*—"truth itself is constructed". Hegel and Marx were among the other early proponents of the premise that truth is, or can be, socially constructed. Marx, like many critical theorists who followed, did not reject the existence of objective

truth but rather distinguished between true knowledge and knowledge that has been distorted through power or ideology. For Marx, scientific and true knowledge is "in accordance with the dialectical understanding of history" and ideological knowledge is "an epiphenomenal expression of the relation of material forces in a given economic arrangement".^[33]

Consensus

Consensus theory holds that truth is whatever is agreed upon, or in some versions, might come to be agreed upon, by some specified group. Such a group might include all human beings, or a subset thereof consisting of more than one person.

Among the current advocates of consensus theory as a useful accounting of the concept of "truth" is the philosopher Jürgen Habermas.^[34] Habermas maintains that truth is what would be agreed upon in an ideal speech situation.^[35] Among the current strong critics of consensus theory is the philosopher Nicholas Rescher.^[36]

In the Islamic tradition, this principle is exemplified by the hadith in which Muhammad states, "My community will never agree upon an error"^[37]

Minimalist

Deflationary

Modern developments in the field of philosophy, starting with the relatively modern notion that a theory being old does not necessarily imply that it is completely flawless, have resulted in the rise of a new thesis: that the term *truth* does not denote a real property of sentences or propositions. This thesis is in part a response to the common use of *truth predicates* (e.g., that some particular thing "...is true") which was particularly prevalent in philosophical discourse on truth in the first half of the 20th century. From this point of view, to assert that "'2 + 2 = 4' is true" is logically equivalent to asserting that "2 + 2 = 4", and the phrase "is true" is completely dispensable in this and every other context. In common parlance, truth predicates are not commonly heard, and it would be interpreted as an unusual occurrence were someone to utilise a truth predicate in an everyday conversation when asserting that something is true. Newer perspectives that take this discrepancy into account and work with sentence structures that are actually employed in common discourse can be broadly described:

- as *deflationary* theories of truth, since they attempt to deflate the presumed importance of the words "true" or *truth*,
- as *disquotational* theories, to draw attention to the disappearance of the quotation marks in cases like the above example, or
- as *minimalist* theories of truth.^{[8][38]}

Whichever term is used, deflationary theories can be said to hold in common that "[t]he predicate 'true' is an expressive convenience, not the name of a property requiring deep analysis."^[8] Once we have identified the truth predicate's formal features and utility, deflationists argue, we have said all there is to be said about truth. Among the theoretical concerns of these views is to explain away those special cases where it *does* appear that the concept of truth has peculiar and interesting properties. (See, e.g., Semantic paradoxes, and below.)

In addition to highlighting such formal aspects of the predicate "is true", some deflationists point out that the concept enables us to express things that might otherwise require infinitely long sentences. For example, one cannot express confidence in Michael's accuracy by asserting the endless sentence:

Michael says, 'snow is white' and snow is white, or he says 'roses are red' and roses are red or he says ... etc.

This assertion can also be succinctly expressed by saying: *What Michael says is true.*^[39]

Performative

Attributed to P. F. Strawson is the performative theory of truth which holds that to say "'Snow is white' is true" is to perform the speech act of signaling one's agreement with the claim that snow is white (much like nodding one's head in agreement). The idea that some statements are more actions than communicative statements is not as odd as it may seem. Consider, for example, that when the wedding couple say "I do" at the appropriate time in a wedding, they are performing the act of taking the other to be their lawful wedded spouse. They are not *describing* themselves as taking the other, but actually *doing* so (perhaps the most thorough analysis of such "illocutionary acts" is J. L. Austin, "How to Do Things With Words"^[40]).

Strawson holds that a similar analysis is applicable to all speech acts, not just illocutionary ones: "To say a statement is true is not to make a statement about a statement, but rather to perform the act of agreeing with, accepting, or endorsing a statement. When one says 'It's true that it's raining,' one asserts no more than 'It's raining.' The function of [the statement] 'It's true that... ' is to agree with, accept, or endorse the statement that 'it's raining.'"^[41]

Redundancy and related

According to the redundancy theory of truth, asserting that a statement is true is completely equivalent to asserting the statement itself. For example, making the assertion that "'Snow is white' is true" is equivalent to asserting "Snow is white". Redundancy theorists infer from this premise that truth is a redundant concept; that is, it is merely a word that is traditionally used in conversation or writing, generally for emphasis, but not a word that actually equates to anything in reality. This theory is commonly attributed to Frank P. Ramsey, who held that the use of words like *fact* and *truth* was nothing but a roundabout way of asserting a proposition, and that treating these words as separate problems in isolation from judgment was merely a "linguistic muddle".^{[8][42][43]}

A variant of redundancy theory is the disquotational theory which uses a modified form of Tarski's schema: To say that "'P" is true' is to say that P. A version of this theory was defended by C. J. F. Williams in his book *What is Truth?* Yet another version of deflationism is the prosentential theory of truth, first developed by Dorothy Grover, Joseph Camp, and Nuel Belnap as an elaboration of Ramsey's claims. They argue that sentences like "That's true", when said in response to "It's raining", are prosentences, expressions that merely repeat the content of other expressions. In the same way that *it* means the same as *my dog* in the sentence *My dog was hungry, so I fed it, That's true* is supposed to mean the same as *It's raining*—if you say the latter and I then say the former. These variations do not necessarily follow Ramsey in asserting that truth is *not* a property, but rather can be understood to say that, for instance, the assertion "P" may well involve a substantial truth, and the theorists in this case are minimizing only the redundancy or prosentence involved in the statement such as "that's true."^[8]

Deflationary principles do not apply to representations that are not analogous to sentences, and also do not apply to many other things that are commonly judged to be true or otherwise. Consider the analogy between the sentence "Snow is white" and the character named Snow White, both of which can be true in some sense. To a minimalist, saying "Snow is white is true" is the same as saying "Snow is white," but to say "Snow White is true" is *not* the same as saying "Snow White."

Philosophical skepticism

Philosophical skepticism is generally any questioning attitude or doubt towards one or more items of knowledge or belief which ascribe truth to their assertions and propositions.^{[44][45]} The primary target of philosophical skepticism is epistemology, but it can be applied to any domain, such as the supernatural, morality (moral skepticism), and religion (skepticism about the existence of God).^[46]

Philosophical skepticism comes in various forms. Radical forms of skepticism deny that knowledge or rational belief is possible and urge us to suspend judgment regarding ascription of truth on many or all controversial matters. More moderate forms of skepticism claim only that nothing can be known with certainty, or that we can know little or nothing about the "big questions" in life, such as whether God exists or whether there is an afterlife. Religious skepticism is "doubt concerning basic religious principles (such as immortality, providence, and revelation)".^[47] Scientific skepticism concerns testing beliefs for reliability, by subjecting them to systematic investigation using the scientific method, to discover empirical evidence for them.

Pluralist

Several of the major theories of truth hold that there is a particular property the having of which makes a belief or proposition true. Pluralist theories of truth assert that there may be more than one property that makes propositions true: ethical propositions might be true by virtue of coherence. Propositions about the physical world might be true by corresponding to the objects and properties they are about.

Some of the pragmatic theories, such as those by Charles Peirce and William James, included aspects of correspondence, coherence and constructivist theories.^{[27][28]} Crispin Wright argued in his 1992 book *Truth and Objectivity* that any predicate which satisfied certain platitudes about truth qualified as a truth predicate. In some discourses, Wright argued, the role of the truth predicate might be played by the notion of superassertibility.^[48] Michael Lynch, in a 2009 book *Truth as One and Many*, argued that we should see truth as a functional property capable of being multiply manifested in distinct properties like correspondence or coherence.^[49]

Most-believed

According to a survey of professional philosophers and others on their philosophical views which was carried out in November 2009 (taken by 3226 respondents, including 1803 philosophy faculty members and/or PhDs and 829 philosophy graduate students) 45% of respondents accept or lean towards correspondence theories, 21% accept or lean towards deflationary theories and 14% epistemic theories.^[50]

Formal theories

Logic

Logic is concerned with the patterns in reason that can help tell us if a proposition is true or not. Logicians use formal languages to express the truths which they are concerned with, and as such there is only truth under some interpretation or truth within some logical system.

A logical truth (also called an analytic truth or a necessary truth) is a statement which is true in all possible worlds^[51] or under all possible interpretations, as contrasted to a *fact* (also called a *synthetic claim* or a *contingency*) which is only true in this world as it has historically unfolded. A proposition such as "If p and q, then p" is considered to be a logical truth because of the meaning of the symbols and words in it and not because of any fact of any particular world. They are such that they could not be untrue.

Degrees of truth in logic may be represented using two or more discrete values, as with bivalent logic (or binary logic), three-valued logic, and other forms of finite-valued logic.^{[52][53]} Truth in logic can be represented using numbers comprising a continuous range, typically between 0 and 1, as with fuzzy logic and other forms of infinite-valued logic.^{[54][55]} In general, the concept of representing truth using more than two values is known as many-valued logic.^[56]

Mathematics

There are two main approaches to truth in mathematics. They are the model theory of truth and the proof theory of truth.^[57]

Historically, with the nineteenth century development of Boolean algebra mathematical models of logic began to treat "truth", also represented as "T" or "1", as an arbitrary constant. "Falsity" is also an arbitrary constant, which can be represented as "F" or "0". In propositional logic, these symbols can be manipulated according to a set of axioms and rules of inference, often given in the form of truth tables.

In addition, from at least the time of Hilbert's program at the turn of the twentieth century to the proof of Gödel's incompleteness theorems and the development of the Church–Turing thesis in the early part of that century, true statements in mathematics were generally assumed to be those statements that are provable in a formal axiomatic system.^[58]

The works of Kurt Gödel, Alan Turing, and others shook this assumption, with the development of statements that are true but cannot be proven within the system.^[59] Two examples of the latter can be found in Hilbert's problems. Work on Hilbert's 10th problem led in the late twentieth century to the construction of specific Diophantine equations for which it is undecidable whether they have a solution,^[60] or even if they do, whether they have a finite or infinite number of solutions. More fundamentally, Hilbert's first problem was on the continuum hypothesis.^[61] Gödel and Paul Cohen showed that this hypothesis cannot be proved or disproved using the standard axioms of set theory.^[62] In the view of some, then, it is equally reasonable to take either the continuum hypothesis or its negation as a new axiom.

Gödel thought that the ability to perceive the truth of a mathematical or logical proposition is a matter of intuition, an ability he admitted could be ultimately beyond the scope of a formal theory of logic or mathematics^{[63][64]} and perhaps best considered in the realm of human comprehension and communication, but commented:

The more I think about language, the more it amazes me that people ever understand each other at all.^[65]

Tarski's semantics



Truth, holding a mirror and a serpent (1896). Olin Levi Warner, Library of Congress Thomas Jefferson Building, Washington, D.C.

The semantic theory of truth has as its general case for a given language:

'P' is true if and only if P

where 'P' refers to the sentence (the sentence's name), and P is just the sentence itself.

Tarski's theory of truth (named after Alfred Tarski) was developed for formal languages, such as formal logic. Here he restricted it in this way: no language could contain its own truth predicate, that is, the expression *is true* could only apply to sentences in some other language. The latter he called an *object language*, the language being talked about. (It may, in turn, have a truth predicate that can be applied to sentences in still another language.) The reason for his restriction was that languages that contain their own truth predicate will contain paradoxical sentences such as, "This sentence is not true". As a result, Tarski held that the semantic theory could not be applied to any natural language, such as English, because they contain their own truth predicates. Donald Davidson used it as the foundation of his truth-conditional semantics and linked it to radical interpretation in a form of coherentism.

Bertrand Russell is credited with noticing the existence of such paradoxes even in the best symbolic formations of mathematics in his day, in particular the paradox that came to be named after him, Russell's paradox. Russell and Whitehead attempted to solve these problems in Principia Mathematica by putting statements into a hierarchy of types, wherein a statement cannot refer to itself, but only to statements lower in the hierarchy. This in turn led to new orders of difficulty regarding the precise natures of types and the structures of conceptually possible type systems that have yet to be resolved to this day.

Kripke's semantics

Kripke's theory of truth (named after Saul Kripke) contends that a natural language can in fact contain its own truth predicate without giving rise to contradiction. He showed how to construct one as follows:

- Begin with a subset of sentences of a natural language that contains no occurrences of the expression "is true" (or "is false"). So *The barn is big* is included in the subset, but not "*The barn is big is true*", nor problematic sentences such as "*This sentence is false*".
- Define truth just for the sentences in that subset.
- Then extend the definition of truth to include sentences that predicate truth or falsity of one of the original subset of sentences. So "*The barn is big is true*" is now included, but not either "*This sentence is false*" nor "'*The barn is big is true*' is true".
- Next, define truth for all sentences that predicate truth or falsity of a member of the second set. Imagine this process repeated infinitely, so that truth is defined for *The barn is big*; then for "*The barn is big is true*"; then for "'*The barn is big is true*' is true", and so on.

Notice that truth never gets defined for sentences like *This sentence is false*, since it was not in the original subset and does not predicate truth of any sentence in the original or any subsequent set. In Kripke's terms, these are "ungrounded." Since these sentences are never assigned either truth or falsehood even if the process is carried out infinitely, Kripke's theory implies that some sentences are neither true nor false. This contradicts the principle of bivalence: every sentence must be either true or false. Since this principle is a key premise in deriving the liar paradox, the paradox is dissolved.^[66]

However, it has been shown by Gödel that self-reference cannot be avoided naively, since propositions about seemingly unrelated objects can have an informal self-referential meaning; in Gödel's work, these objects are integer numbers, and they have an informal meaning regarding propositions. In fact, this idea—manifested by the diagonal lemma—is the basis for Tarski's theorem that truth cannot be consistently defined.

It has thus been claimed^[67] that Kripke's system indeed leads to contradiction: while its truth predicate is only partial, it does give truth value (true/false) to propositions such as the one built in Tarski's proof, and is therefore inconsistent. While there is still a debate on whether Tarski's proof can be implemented to every similar partial truth system, none have been shown to be consistent by acceptable methods used in mathematical logic.

Folk beliefs

The truth predicate "*P* is true" has great practical value in human language, allowing us to *efficiently* endorse or impeach claims made by others, to emphasize the truth or falsity of a statement, or to enable various indirect (Gricean) conversational implications.^[68] Individuals or societies will sometime punish "false" statements to deter falsehoods;^[69] the oldest surviving law text, the Code of Ur-Nammu, lists penalties for false accusations of sorcery or adultery, as well as for committing perjury in court. Even four-year-old children can pass simple "false belief" tests and successfully assess that another individual's belief diverges from reality in a specific way;^[70] by adulthood we have strong implicit intuitions about "truth" that form a "folk theory" of truth. These intuitions include:^[71]

- Capture (T-in): If *P*, then *P* is true
- Release (T-out): If *P* is true, then *P*
- Noncontradiction: A statement can't be both true and false
- Normativity: It is usually good to believe what is true
- False beliefs: The notion that believing a statement doesn't necessarily make it true

Like many folk theories, our folk theory of truth is useful in everyday life but, upon deep analysis, turns out to be technically self-contradictory; in particular, any formal system that fully obeys Capture and Release semantics for truth (also known as the *T-schema*), and that also respects classical logic, is provably inconsistent and succumbs to the liar paradox or to a similar contradiction.^[72]

Notable views

Ancient philosophy

Ancient Greece

Socratic philosophy

Socrates', Plato's and Aristotle's ideas about truth are seen by some as consistent with correspondence theory. In his *Metaphysics*, Aristotle stated: "To say of what is that it is not, or of what is not that it is, is false, while to say of what is that it is, and of what is not that it is not, is true".^[73] The Stanford Encyclopedia of Philosophy proceeds to say of Aristotle:

[...] Aristotle sounds much more like a genuine correspondence theorist in the *Categories* (12b11, 14b14), where he talks of "underlying things" that make statements true and implies that these "things" (pragmata) are logically structured situations or facts (viz., his sitting, his not sitting). Most influential is his claim in *De*

Interpretatione (16a3) that thoughts are "likenesses" (homoiosis) of things. Although he nowhere defines truth in terms of a thought's likeness to a thing or fact, it is clear that such a definition would fit well into his overall philosophy of mind. [...] ^[73]

Similar statements can also be found in Plato's dialogues (*Cratylus* 385b2, *Sophist* 263b). ^[73]

The Stoics conceived truth as accessible from impressions via cognitive grasping.

Non-Socratic philosophy

Many other Greek philosophers maintained that truth was either not accessible to mortals, or of greatly limited accessibility, forming early philosophical skepticism. Among these were Xenophanes, Democritus, and Pyrrho.

Medieval philosophy

Avicenna (980–1037)

In early Islamic philosophy, Avicenna (Ibn Sina) defined truth in his work *Kitab Al-Shifa* *The Book of Healing*, Book I, Chapter 8, as:

What corresponds in the mind to what is outside it. ^[74]

Avicenna elaborated on his definition of truth later in Book VIII, Chapter 6:

The truth of a thing is the property of the being of each thing which has been established in it. ^[75]

However, this definition is merely a rendering of the medieval Latin translation of the work by Simone van Riet. ^[76] A modern translation of the original Arabic text states:

Truth is also said of the veridical belief in the existence [of something]. ^[77]

Aquinas (1225–1274)

Reevaluating Avicenna, and also Augustine and Aristotle, Thomas Aquinas stated in his *Disputed Questions on Truth*:



La Vérité "Truth" by Jules Joseph Lefebvre

A natural thing, being placed between two intellects, is called *true* insofar as it conforms to either. It is said to be true with respect to its conformity with the divine intellect insofar as it fulfills the end to which it was ordained by the divine intellect... With respect to its conformity with a human intellect, a thing is said to be true insofar as it is such as to cause a true estimate about itself.^[78]

Thus, for Aquinas, the truth of the human intellect (logical truth) is based on the truth in things (ontological truth).^[79] Following this, he wrote an elegant re-statement of Aristotle's view in his *Summa I.16.1* (<http://www.newadvent.org/summa/1016.htm>):

Veritas est adæquatio intellectus et rei.
(Truth is the conformity of the intellect and things.)

Aquinas also said that real things participate in the act of being of the Creator God who is Subsistent Being, Intelligence, and Truth. Thus, these beings possess the light of intelligibility and are knowable. These things (beings; reality) are the foundation of the truth that is found in the human mind, when it acquires knowledge of things, first through the senses, then through the understanding and the judgement done by reason. For Aquinas, human intelligence ("intus", within and "legere", to read) has the capability to reach the essence and existence of things because it has a non-material, spiritual element, although some moral, educational, and other elements might interfere with its capability.

Changing concepts of truth in the Middle Ages

Richard Firth Green examined the concept of truth in the later Middle Ages in his *A Crisis of Truth*, and concludes that roughly during the reign of Richard II of England the very meaning of the concept changes. The idea of the oath, which was so much part and parcel of for instance Romance literature,^[80] changes from a subjective concept to a more objective one (in Derek Pearsall's summary).^[81] Whereas truth (the "trouthe" of *Sir Gawain and the Green Knight*) was first "an ethical truth in which truth is understood to reside in persons", in Ricardian England it "transforms...into a political truth in which truth is understood to reside in documents".^[82]

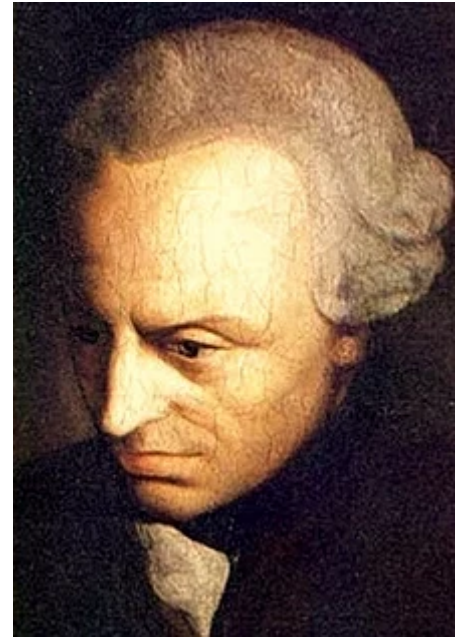
Modern philosophy

Kant (1724–1804)

Immanuel Kant endorses a definition of truth along the lines of the correspondence theory of truth.^[73] Kant writes in the *Critique of Pure Reason*: "The nominal definition of truth, namely that it is the agreement of cognition with its object, is here granted and presupposed".^[83] However, Kant denies that this correspondence definition of truth provides us with a test or criterion to establish which judgements are true. Kant states in his logic lectures:

[...] Truth, it is said, consists in the agreement of cognition with its object. In consequence of this mere nominal definition, my cognition, to count as true, is supposed to agree with its object. Now I can compare the object with my cognition, however, only *by cognizing it*. Hence my cognition is supposed to confirm itself, which is far short of being sufficient for truth. For

since the object is outside me, the cognition in me, all I can ever pass judgement on is whether my cognition of the object agrees with my cognition of the object. The ancients called such a circle in explanation a *diallelon*. And actually the logicians were always reproached with this mistake by the sceptics, who observed that with this definition of truth it is just as when someone makes a statement before a court and in doing so appeals to a witness with whom no one is acquainted, but who wants to establish his credibility by maintaining that the one who called him as witness is an honest man. The accusation was grounded, too. Only the solution of the indicated problem is impossible without qualification and for every man. [...] ^[84]



Immanuel Kant

This passage makes use of his distinction between nominal and real definitions. A nominal definition explains the meaning of a linguistic expression. A real definition describes the essence of certain objects and enables us to determine whether any given item falls within the definition. ^[85] Kant holds that the definition of truth is merely nominal

and, therefore, we cannot employ it to establish which judgements are true. According to Kant, the ancient skeptics were critical of the logicians for holding that, by means of a merely nominal definition of truth, they can establish which judgements are true. They were trying to do something that is "impossible without qualification and for every man". ^[84]

Hegel (1770–1831)

Georg Hegel distanced his philosophy from psychology by presenting truth as being an external self-moving object instead of being related to inner, subjective thoughts. Hegel's truth is analogous to the mechanics of a material body in motion under the influence of its own inner force. "Truth is its own self-movement within itself." ^[86] Teleological truth moves itself in the three-step form of dialectical triplicity toward the final goal of perfect, final, absolute truth. According to Hegel, the progression of philosophical truth is a resolution of past oppositions into increasingly more accurate approximations of absolute truth. Chalybäus used the terms "thesis", "antithesis", and "synthesis" to describe Hegel's dialectical triplicity. The "thesis" consists of an incomplete historical movement. To resolve the incompleteness, an "antithesis" occurs which opposes the "thesis." In turn, the "synthesis" appears when the "thesis" and "antithesis" become reconciled and a higher level of truth is obtained. This "synthesis" thereby becomes a "thesis," which will again necessitate an "antithesis," requiring a new "synthesis" until a final state is reached as the result of reason's historical movement. History is the Absolute Spirit moving toward a goal. This historical progression will finally conclude itself when the Absolute Spirit understands its own infinite self at the very end of history. Absolute Spirit will then be the complete expression of an infinite God.

Schopenhauer (1788–1860)

For Arthur Schopenhauer, ^[87] a judgment is a combination or separation of two or more concepts. If a judgment is to be an expression of knowledge, it must have a sufficient reason or ground by which the judgment could be called true. *Truth is the reference of a judgment to something different from itself which is its sufficient reason (ground)*. Judgments can have material, formal, transcendental, or metalogical truth. A judgment has *material* truth if its concepts are based on intuitive perceptions that are generated from

sensations. If a judgment has its reason (ground) in another judgment, its truth is called logical or *formal*. If a judgment, of, for example, pure mathematics or pure science, is based on the forms (space, time, causality) of intuitive, empirical knowledge, then the judgment has *transcendental* truth.

Kierkegaard (1813–1855)

When Søren Kierkegaard, as his character *Johannes Climacus*, ends his writings: *My thesis was, subjectivity, heartfelt is the truth*, he does not advocate for subjectivism in its extreme form (the theory that something is true simply because one believes it to be so), but rather that the objective approach to matters of personal truth cannot shed any light upon that which is most essential to a person's life. Objective truths are concerned with the facts of a person's being, while subjective truths are concerned with a person's way of being. Kierkegaard agrees that objective truths for the study of subjects like mathematics, science, and history are relevant and necessary, but argues that objective truths do not shed any light on a person's inner relationship to existence. At best, these truths can only provide a severely narrowed perspective that has little to do with one's actual experience of life.^[88]

While objective truths are final and static, subjective truths are continuing and dynamic. The truth of one's existence is a living, inward, and subjective experience that is always in the process of becoming. The values, morals, and spiritual approaches a person adopts, while not denying the existence of objective truths of those beliefs, can only become truly known when they have been inwardly appropriated through subjective experience. Thus, Kierkegaard criticizes all systematic philosophies which attempt to know life or the truth of existence via theories and objective knowledge about reality. As Kierkegaard claims, human truth is something that is continually occurring, and a human being cannot find truth separate from the subjective experience of one's own existing, defined by the values and fundamental essence that consist of one's way of life.^[89]

Nietzsche (1844–1900)

Friedrich Nietzsche believed the search for truth, or 'the will to truth', was a consequence of the *will to power* of philosophers. He thought that truth should be used as long as it promoted life and the *will to power*, and he thought untruth was better than truth if it had this life enhancement as a consequence. As he wrote in *Beyond Good and Evil*, "The falseness of a judgment is to us not necessarily an objection to a judgment... The question is to what extent it is life-advancing, life-preserving, species-preserving, perhaps even species-breeding..." (aphorism 4). He proposed the *will to power* as a truth only because, according to him, it was the most life-affirming and sincere perspective one could have.

Robert Wicks discusses Nietzsche's basic view of truth as follows:

[...] Some scholars regard Nietzsche's 1873 unpublished essay, "On Truth and Lies in a Nonmoral Sense" ("Über Wahrheit und Lüge im außermoralischen Sinn") as a keystone in his thought. In this essay, Nietzsche rejects the idea of universal constants, and claims that what we call "truth" is only "a mobile army of metaphors, metonyms, and anthropomorphisms." His view at this time is that arbitrariness completely prevails within human experience: concepts originate via the very artistic transference of nerve stimuli into images; "truth" is nothing more than the invention of fixed conventions for merely practical purposes, especially those of repose, security and consistence. [...]^[90]

Separately Nietzsche suggested that an ancient, metaphysical belief in the divinity of Truth lies at the heart of and has served as the foundation for the entire subsequent Western intellectual tradition: "But you will have gathered what I am getting at, namely, that it is still a metaphysical faith on which our faith in science rests—

that even we knowers of today, we godless anti-metaphysicians still take *our* fire too, from the flame lit by the thousand-year old faith, the Christian faith which was also Plato's faith, that God is Truth; that Truth is 'Divine'..."^{[91][92]}

Heidegger (1889–1976)

Other philosophers take this common meaning to be secondary and derivative. According to Martin Heidegger, the original meaning and essence of truth in Ancient Greece was unconcealment, or the revealing or bringing of what was previously hidden into the open, as indicated by the original Greek term for truth, aletheia.^{[93][94]} On this view, the conception of truth as correctness is a later derivation from the concept's original essence, a development Heidegger traces to the Latin term veritas.

Whitehead (1861–1947)

Alfred North Whitehead, a British mathematician who became an American philosopher, said: "There are no whole truths; all truths are half-truths. It is trying to treat them as whole truths that plays the devil".^[95]

The logical progression or connection of this line of thought is to conclude that truth can lie, since half-truths are deceptive and may lead to a false conclusion.

Peirce (1839–1914)

Pragmatists like C. S. Peirce take truth to have some manner of essential relation to human practices for inquiring into and discovering truth, with Peirce himself holding that truth is what human inquiry would find out on a matter, if our practice of inquiry were taken as far as it could profitably go: "The opinion which is fated to be ultimately agreed to by all who investigate, is what we mean by the truth..."^[96]

Nishida (1870–1945)

According to Kitaro Nishida, "knowledge of things in the world begins with the differentiation of unitary consciousness into knower and known and ends with self and things becoming one again. Such unification takes form not only in knowing but in the valuing (of truth) that directs knowing, the willing that directs action, and the feeling or emotive reach that directs sensing."^[97]

Fromm (1900–1980)

Erich Fromm finds that trying to discuss truth as "absolute truth" is sterile and that emphasis ought to be placed on "optimal truth". He considers truth as stemming from the survival imperative of grasping one's environment physically and intellectually, whereby young children instinctively seek truth so as to orient themselves in "a strange and powerful world". The accuracy of their perceived approximation of the truth will therefore have direct consequences on their ability to deal with their environment. Fromm can be understood to define truth as a functional approximation of reality. His vision of optimal truth is described partly in "Man from Himself: An Inquiry into the Psychology of Ethics" (1947), from which excerpts are included below.

the dichotomy between 'absolute = perfect' and 'relative = imperfect' has been superseded in all fields of scientific thought, where "it is generally recognized that there is no absolute truth but nevertheless that there are objectively valid laws and principles".

In that respect, "a scientifically or rationally valid statement means that the power of reason is applied to all the available data of observation without any of them being suppressed or

falsified for the sake of a desired result". The history of science is "a history of inadequate and incomplete statements, and every new insight makes possible the recognition of the inadequacies of previous propositions and offers a springboard for creating a more adequate formulation."

As a result "the history of thought is the history of an ever-increasing approximation to the truth. Scientific knowledge is not absolute but optimal; it contains the optimum of truth attainable in a given historical period." Fromm furthermore notes that "different cultures have emphasized various aspects of the truth" and that increasing interaction between cultures allows for these aspects to reconcile and integrate, increasing further the approximation to the truth.

Foucault (1926–1984)

Truth, says Michel Foucault, is problematic when any attempt is made to see truth as an "objective" quality. He prefers not to use the term truth itself but "Regimes of Truth". In his historical investigations he found truth to be something that was itself a part of, or embedded within, a given power structure. Thus Foucault's view shares much in common with the concepts of Nietzsche. Truth for Foucault is also something that shifts through various episteme throughout history.^[98]

Baudrillard (1929–2007)

Jean Baudrillard considered truth to be largely simulated, that is pretending to have something, as opposed to dissimulation, pretending to not have something. He took his cue from iconoclasts whom he claims knew that images of God demonstrated that God did not exist.^[99] Baudrillard wrote in "Precession of the Simulacra":

The simulacrum is never that which conceals the truth—it is the truth which conceals that there is none. The simulacrum is true.
—Ecclesiastes^{[100][101]}

Some examples of simulacra that Baudrillard cited were: that prisons simulate the "truth" that society is free; scandals (e.g., Watergate) simulate that corruption is corrected; Disney simulates that the U.S. itself is an adult place. One must remember that though such examples seem extreme, such extremity is an important part of Baudrillard's theory. For a less extreme example, consider how movies usually end with the bad being punished, humiliated, or otherwise failing, thus affirming for viewers the concept that the good end happily and the bad unhappily, a narrative which implies that the status quo and established power structures are largely legitimate.^[99]

Theological views

Hinduism

In Hinduism, Truth is defined as "unchangeable", "that which has no distortion", "that which is beyond distinctions of time, space, and person", "that which pervades the universe in all its constancy". The human body, therefore is not completely true as it changes with time, for example. There are many references, properties and explanations of truth by Hindu sages that explain varied facets of truth, such as the national



Quid Est Veritas? Christ and Pilate,
by Nikolai Ge.

motto of India: "Satyameva Jayate" (Truth alone wins), as well as "Satyam muktaye" (Truth liberates), "Satya' is 'Parahit'artham' va'unmanaso yatha'rthatvam' satyam" (Satya is the benevolent use of words and the mind for the welfare of others or in other words responsibilities is truth too), "When one is firmly established in speaking truth, the fruits of action become subservient to him (patanjali yogasutras, sutra number 2.36), "The face of truth is covered by a golden bowl. *Unveil it, O Pusan (Sun), so that I who have truth as my duty (satyadharmā) may see it!*" (Bṛhadaranyaka V 15 1–4 and the brief Iṣa Upanisad 15–18), Truth is superior to silence (Manusmṛiti), etc. Combined with other words, satya acts as modifier, like "**ultra**" or "**highest**," or more literally "**truest**," connoting **purity and excellence**. For example, satyaloka is the "highest heaven" and Satya Yuga is the "golden age" or best of the four cyclical cosmic ages in Hinduism, and so on.

Buddhism

In Buddhism, particularly in the Mahayana tradition, the notion of truth is often divided into the Two Truths Doctrine, which consists of relative or conventional truth and ultimate truth. The former refers to truth that is based on common understanding among ordinary people and is accepted as a practical basis for communication of higher truths. Ultimate truth necessarily transcends logic in the sphere of ordinary experience, and recognizes such phenomena as illusory. Mādhyaṃaka philosophy asserts that any doctrine can be analyzed with both divisions of truth. Affirmation and negation belong to relative and absolute truth respectively. Political law is regarded as relative, while religious law is absolute.

Christianity

Christianity has a soteriological view of truth. According to the Bible in John 14:6, Jesus is quoted as having said "I am the way, the truth and the life: no man cometh unto the Father, but by me".

See also

- Asha
- Belief
- Confirmation holism
- Contextualism
- Contradiction
- Degree of truth
- Disposition
- Eclecticism
- Epistemic theories of truth
- Honesty
- Independence (probability theory)
- Imagination
- Invariant (mathematics)
- Lie
- McNamara fallacy
- Normative science
- On Truth and Lies in a Nonmoral Sense
- Perjury
- Perspectivism
- Physical symbol system
- Post-truth politics
- Proof
- Public opinion
- Revision theory
- Relativism
- Religious views on truth
- Satya
- Slingshot argument
- Tautology (logic)
- Tautology (rhetoric)
- Theory of justification
- Truth prevails
- Truthiness
- Two truths doctrine
- Unity of the proposition
- Verisimilitude

Other theorists

- [Augustine of Hippo](#)
- [Brand Blanshard](#)
- [Hartry Field](#)
- [Gottlob Frege](#)
- [Paul Horwich](#)
- [Harold Joachim](#)
- [Karl Popper](#)
- [P. F. Strawson](#)

Notes

1. Merriam-Webster's Online Dictionary, [truth](http://m-w.com/dictionary/truth) (<http://m-w.com/dictionary/truth>), 2005
2. "Truth" (<https://plato.stanford.edu/entries/truth/>). *Stanford Encyclopedia of Philosophy*. Retrieved 29 June 2020.
3. Alexis G. Burgess and John P. Burgess (2011). *Truth* (<http://press.princeton.edu/titles/9460.html>) (hardcover) (1st ed.). Princeton University Press. ISBN 978-0-691-14401-6. Retrieved October 4, 2014. "a concise introduction to current philosophical debates about truth"
4. see [Holtzmann's law](#) for the -ww- : -gg- alternation.
5. Etymology, Online. "[Online Etymology](http://www.etymonline.com/)" (<http://www.etymonline.com/>).
6. *A Concise Dictionary of Old Icelandic* (<http://www.northvegr.org/zoega/h442.php>), Geir T. Zoëga (1910), Northvegr.org
7. [OED](#) on *true* has "Steadfast in adherence to a commander or friend, to a principle or cause, to one's promises, faith, etc.; firm in allegiance; faithful, loyal, constant, trusty; Honest, honourable, upright, virtuous, trustworthy; free from deceit, sincere, truthful " besides "Conformity with fact; agreement with reality; accuracy, correctness, verity; Consistent with fact; agreeing with the reality; representing the thing as it is; Real, genuine; rightly answering to the description; properly so called; not counterfeit, spurious, or imaginary."
8. *Encyclopedia of Philosophy*, Supp., "Truth", auth: Michael Williams, pp. 572–73 (Macmillan, 1996)
9. Blackburn, Simon, and Simmons, Keith (eds., 1999), *Truth*, Oxford University Press, Oxford. Includes papers by James, Ramsey, Russell, Tarski, and more recent work.
10. Hale, Bob; Wright, Crispin, eds. (1999). *A Companion to the Philosophy of Language*. pp. 309–30. doi:10.1111/b.9780631213260.1999.00015.x (<https://doi.org/10.1111%2Fb.9780631213260.1999.00015.x>). ISBN 978-0-631-21326-0.
11. Horwich, Paul, *Truth*, (2nd edition, 1988),
12. Field, Hartry, *Truth and the Absence of Fact* (2001).
13. *Encyclopedia of Philosophy*, Vol.2, "Correspondence Theory of Truth", auth.: Arthur N. Prior, p. 223 (Macmillan, 1969). Prior uses [Bertrand Russell's](#) wording in defining correspondence theory. According to Prior, Russell was substantially responsible for helping to make correspondence theory widely known under this name.
14. *Encyclopedia of Philosophy*, Vol.2, "Correspondence Theory of Truth", auth.: Arthur N. Prior, pp. 223–24 (Macmillan, 1969).
15. *Encyclopedia of Philosophy*, Vol. 2, "Correspondence Theory of Truth", auth.: Arthur N. Prior, Macmillan, 1969, p. 224.
16. "Correspondence Theory of Truth", in *Stanford Encyclopedia of Philosophy* (<http://plato.stanford.edu/entries/truth-correspondence>).
17. Thomas Aquinas, *Summa Theologiae*, I. Q.16, A.2 arg. 2.
18. "Correspondence Theory of Truth", in *Stanford Encyclopedia of Philosophy* (<http://plato.stanford.edu/entries/truth-correspondence>) (citing *De Veritate* Q.1, A.1–3 and *Summa Theologiae*, I. Q.16).
19. See, e.g., Bradley, F.H., "On Truth and Copying", in Blackburn, *et al.* (eds., 1999), *Truth*, 31–45.

20. Encyclopedia of Philosophy, Vol.2, "Correspondence Theory of Truth", auth: Arthur N. Prior, pp. 223 ff. Macmillan, 1969. See especially, section on "Moore's Correspondence Theory", 225–26, "Russell's Correspondence Theory", 226–27, "Remsey and Later Wittgenstein", 228–29, "Tarski's Semantic Theory", 230–31.
21. Encyclopedia of Philosophy, Vol.2, "Correspondence Theory of Truth", auth: Arthur N. Prior, pp. 223 ff. Macmillan, 1969. See the section on "Tarski's Semantic Theory", 230–31.
22. Immanuel Kant, for instance, assembled a controversial but quite coherent system in the early 19th century, whose validity and usefulness continues to be debated even today. Similarly, the systems of Leibniz and Spinoza are characteristic systems that are internally coherent but controversial in terms of their utility and validity.
23. Encyclopedia of Philosophy, Vol.2, "Coherence Theory of Truth", auth: Alan R. White, pp. 130–31 (Macmillan, 1969)
24. Encyclopedia of Philosophy, Vol.2, "Coherence Theory of Truth", auth: Alan R. White, pp. 131–33, see esp., section on "Epistemological assumptions" (Macmillan, 1969)
25. Encyclopedia of Philosophy, Vol.2, "Coherence Theory of Truth", auth: Alan R. White, p. 130
26. Encyclopedia of Philosophy, Vol. 5, "Pragmatic Theory of Truth", 427 (Macmillan, 1969).
27. Peirce, C.S. (1901), "Truth and Falsity and Error" (in part), pp. 716–20 in James Mark Baldwin, ed., *Dictionary of Philosophy and Psychology*, v. 2. Peirce's section is entitled "Logical", beginning on p. 718, column 1, and ending on p. 720 with the initials "(C.S.P.)", see Google Books Eprint (<https://archive.org/details/beginningthirdr00randgoog/page/n748>). Reprinted, *Collected Papers* v. 5, pp. 565–73.
28. James, William, *The Meaning of Truth, A Sequel to 'Pragmatism'*, (1909).
29. Encyclopedia of Philosophy, Vol.2, "Dewey, John", auth Richard J. Bernstein, p. 383 (Macmillan, 1969)
30. Sahakian, W.S. & Sahakian, M.L., *Ideas of the Great Philosophers*, New York: Barnes & Noble, 1966, LCCN 66--23155 (<https://lccn.loc.gov/66-23155>)
31. Feynman, *The Character of Physical Law*, New York: Random House, 1994, ISBN 0-679-60127-9.
32. Feynman, *The Character of Physical Law*, p. 150.
33. May, Todd (1993). *Between Genealogy and Epistemology: Psychology, Politics, and Knowledge in the Thought of Michel Foucault*. University Park: Pennsylvania State University Press. ISBN 978-0271027821. OCLC 26553016 (<https://www.worldcat.org/oclc/26553016>).
34. See, e.g., Habermas, Jürgen, *Knowledge and Human Interests* (English translation, 1972).
35. See, e.g., Habermas, Jürgen, *Knowledge and Human Interests* (English translation, 1972), esp. Part III, pp. 187 ff.
36. Rescher, Nicholas, *Pluralism: Against the Demand for Consensus* (1995).
37. Narrated by al-Tirmidhi (4:2167) (<http://sunnah.com/tirmidhi/33/10>), ibn Majah (2:1303), Abu Dawood, and others with slightly different wordings.
38. Blackburn, Simon, and Simmons, Keith (eds., 1999), *Truth* in the Introductory section of the book.
39. Richard Kirkham, *Theories of Truth: A Critical Introduction*, MIT Press, 1992.
40. J. L. Austin, "How to Do Things With Words". Cambridge: Harvard University Press, 1975
41. Encyclopedia of Philosophy, Vol. 6: *Performative Theory of Truth*, auth: Gertrude Ezorsky, p. 88 (Macmillan, 1969)
42. Ramsey, F.P. (1927), "Facts and Propositions", *Aristotelian Society Supplementary Volume 7*, 153–70. Reprinted, pp. 34–51 in F.P. Ramsey, *Philosophical Papers*, David Hugh Mellor (ed.), Cambridge University Press, Cambridge, 1990
43. Le Morvan, Pierre. (2004) "Ramsey on Truth and Truth on Ramsey", *The British Journal for the History of Philosophy* 12(4), pp. 705–18.

44. Popkin, R. H. *The History of Skepticism from Erasmus to Descartes* (rev. ed. 1968); C. L. Stough, *Greek Skepticism* (1969); M. Burnyeat, ed., *The Skeptical Tradition* (1983); B. Stroud, *The Significance of Philosophical Skepticism* (1984) (<http://encyclopedia2.thefreedictionary.com/Skeptikoi>). *Encyclopedia2.thefreedictionary.com*.
45. "Philosophical views are typically classed as skeptical when they involve advancing some degree of doubt regarding claims that are elsewhere taken for granted." [utm.edu](http://www.utm.edu/research/iep/s/skepcont.htm) (<http://www.utm.edu/research/iep/s/skepcont.htm>)
46. Greco, John (2008). *The Oxford Handbook of Skepticism* (<https://books.google.com/books?id=Ozv0lfrUeEC>). Oxford University Press, US. ISBN 978-0-19-518321-4.
47. "Definition of SKEPTICISM" (<http://www.merriam-webster.com/dictionary/skepticism>). www.merriam-webster.com. Retrieved 2016-02-05.
48. Truth and Objectivity, Cambridge, Massachusetts: Harvard University Press, 1992.
49. Truth as One and Many (Oxford: Oxford University Press, 2009).
50. "The PhilPapers Surveys – Preliminary Survey results" (http://philpapers.org/surveys/results.pl?affil=All+respondents&areas0=0&areas_max=1&grain=medium). *The PhilPapers Surveys*. Philpapers.org. Retrieved 2012-05-27.
51. Ludwig Wittgenstein, *Tractatus Logico-Philosophicus*.
52. Kretzmann, Norman (1968). "IV, section=2. 'Infinitely Many' and 'Finitely Many' " (<https://books.google.com/books?id=fW5rISy-5D8C&pg=PA42&lpg=PA42#v=onepage&q&f=false>). *William of Sherwood's Treatise on Syncategorematic Words*. University of Minnesota Press. ISBN 978-0-8166-5805-3.
53. Smith, Nicholas J.J. (2010). "Article 2.6" (<https://www-personal.usyd.edu.au/~njjsmith/papers/smith-many-valued-logics.pdf>) (PDF). *Many-Valued Logics*. *Routledge Companion to the Philosophy of Language*. Routledge.
54. Mancosu, Paolo; Zach, Richard; Badesa, Calixto (2004). "7.2 Many-valued logics". 9. *The Development of Mathematical Logic from Russell to Tarski 1900-1935* (<https://books.google.com/books?id=0jXavKsArnIC>). *The Development of Modern Logic*. Oxford University Press. pp. 418–20. ISBN 978-0-19-972272-3.
55. Garrido, Angel (2012). "A Brief History of Fuzzy Logic" (<https://www.edusoft.ro/brain/index.php/brain/article/viewFile/308/390>). *Revista EduSoft*, Editorial
56. Rescher, Nicholas (1968). "Many-Valued Logic". *Topics in Philosophical Logic*. Humanities Press Synthese Library volume 17. pp. 54–125. doi:10.1007/978-94-017-3546-9_6 (https://doi.org/10.1007%2F978-94-017-3546-9_6). ISBN 978-90-481-8331-9.
57. Penelope Maddy; *Realism in Mathematics*; Series: Clarendon Paperbacks; Paperback: 216 pages; Publisher: Oxford University Press, US (1992); ISBN 0-19-824035-X.
58. Elliott Mendelson; *Introduction to Mathematical Logic*; Series: Discrete Mathematics and Its Applications; Hardcover: 469 pages; Publisher: Chapman and Hall/CRC; 5 edition (August 11, 2009); ISBN 1-58488-876-8.
59. See, e.g., Chaitin, Gregory L., *The Limits of Mathematics* (1997) esp. 89 ff.
60. M. Davis. "Hilbert's Tenth Problem is Unsolvable." *American Mathematical Monthly* 80, pp. 233–69, 1973
61. Yandell, Benjamin H.. *The Honors Class. Hilbert's Problems and Their Solvers* (2002).
62. Chaitin, Gregory L., *The Limits of Mathematics* (1997) 1–28, 89 ff.
63. Ravitch, Harold (1998). "On Gödel's Philosophy of Mathematics" (<http://www.friesian.com/goedel/chap-2.htm>).
64. Solomon, Martin (1998). "On Kurt Gödel's Philosophy of Mathematics" (<http://calcuemus.org/lect/07logika/godel-solomon.html>).
65. Wang, Hao (1997). *A Logical Journey: From Gödel to Philosophy* (<https://books.google.com/books?isbn=0262261251>). The MIT Press. (A discussion of Gödel's views on logical intuition is woven throughout the book; the quote appears on page 75.)

66. Kripke, Saul. "Outline of a Theory of Truth", *Journal of Philosophy*, 72 (1975), 690–716
67. Keith Simmons, *Universality and the Liar: An Essay on Truth and the Diagonal Argument*, Cambridge University Press, Cambridge 1993
68. Scharp, Kevin (2013). "6: What is the Use?". *Replacing truth* (First ed.). Oxford: Oxford Univ. Press. ISBN 978-0-19-965385-0.
69. "truth | philosophy and logic" (<https://www.britannica.com/topic/truth-philosophy-and-logic>). *Encyclopedia Britannica*. Retrieved 28 July 2017. "Truth is important. Believing what is not true is apt to spoil a person's plans and may even cost him his life. Telling what is not true may result in legal and social penalties."
70. Wellman, Henry M., David Cross, and Julianne Watson. "Meta-analysis of theory-of-mind development: the truth about false belief." *Child development* 72.3 (2001): 655–84.
71. Lynch, Michael P. "Alethic functionalism and our folk theory of truth." *Synthese* 145.1 (2005): 29–43.
72. Bueno, Otávio, and Mark Colyvan. "Logical non-apriorism and the law of non-contradiction." *The law of non-contradiction: New philosophical essays* (2004): 156–75.
73. David, Marion (2005). "Correspondence Theory of Truth" (<http://plato.stanford.edu/entries/truth-correspondence/#1>) in *Stanford Encyclopedia of Philosophy*
74. Osman Amin (2007), "Influence of Muslim Philosophy on the West", *Monthly Renaissance* 17 (11).
75. Jan A. Aertsen (1988), *Nature and Creature: Thomas Aquinas's Way of Thought*, p. 152. Brill, ISBN 90-04-08451-7.
76. Simone van Riet. *Liber de philosophia prima, sive Scientia divina* (in Latin). p. 413.
77. *Avicenna: The Metaphysics of The Healing*. Michael E. Marmura. Brigham Young University Press. 2005. p. 284. ISBN 978-0-934893-77-0.
78. *Disputed Questions on Truth*, 1, 2, c, reply to Obj. 1. Trans. Mulligan, McGlynn, Schmidt, *Truth*, vol. I, pp. 10–12.
79. "Veritas supra ens fundatur" (Truth is founded on being). *Disputed Questions on Truth*, 10, 2, reply to Obj. 3.
80. Rock, Catherine A. (2006). "Forsworn and Fordone: Arcite as Oath-Breaker in the "Knight's Tale" ". *The Chaucer Review*. 40 (4): 416–32. doi:10.1353/cr.2006.0009 (<https://doi.org/10.1353%2Fcr.2006.0009>). JSTOR 25094334 (<https://www.jstor.org/stable/25094334>).
81. Pearsall, Derek (2004). "Medieval Literature and Historical Enquiry". *Modern Language Review*. 99 (4): xxxi–xliv. doi:10.2307/3738608 (<https://doi.org/10.2307%2F3738608>). JSTOR 3738608 (<https://www.jstor.org/stable/3738608>).
82. Fowler, Elizabeth (2003). "Rev. of Green, *A Crisis of Truth*". *Speculum*. 78 (1): 179–82. doi:10.1017/S0038713400099310 (<https://doi.org/10.1017%2FS0038713400099310>). JSTOR 3301477 (<https://www.jstor.org/stable/3301477>).
83. Kant, Immanuel (1781/1787), *Critique of Pure Reason*. Translated and edited by Paul Guyer and Allen W. Wood (Cambridge: Cambridge University Press, 1998), A58/B82.
84. Kant, Immanuel (1801), *The Jäsche Logic*, in *Lectures on Logic*. Translated and edited by J. Michael Young (Cambridge: Cambridge University Press, 1992), pp. 557–58.
85. Alberto Vanzo, "Kant on the Nominal Definition of Truth", *Kant-Studien*, 101 (2010), pp. 147–66.
86. "Die Wahrheit ist die Bewegung ihrer an ihr selbst." *The Phenomenology of Spirit*, Preface, ¶ 48
87. *On the Fourfold Root of the Principle of Sufficient Reason*, §§ 29–33
88. Kierkegaard, Søren. *Concluding Unscientific Postscript*. Princeton, Princeton University Press, 1992
89. Watts, Michael. *Kierkegaard*, Oxford: Oneworld Publications, 2003

90. Robert Wicks, Friedrich Nietzsche – Early Writings: 1872–1876 (<http://plato.stanford.edu/entries/nietzsche/#EarWri187187>), The Stanford Encyclopedia of Philosophy (Spring 2008 Edition), Edward N. Zalta (ed.)
91. Nietzsche, Friedrich; Williams, Bernard; Nauckhoff, Josefine (2001). *Nietzsche: The Gay Science: With a Prelude in German Rhymes and an Appendix of Songs* (<https://books.google.com/?id=Vf8KETLiKXMC&pg=PA201&lpg=PA201&dq=%22even%20we%20knowers%20of%20today%22#v=onepage&q=%22even%20we%20knowers%20of%20today%22&f=false>). Cambridge University Press. ISBN 978-0-521-63645-2 – via Google Books.
92. Nietzsche, Friedrich (2006). *Nietzsche: 'On the Genealogy of Morality' and Other Writings Student Edition* (<https://books.google.com/?id=wMzu8j4D1SYC&pg=PA112&lpg=PA112&dq=%22even%20we%20knowers%20of%20today%22#v=onepage&q=god%20is%20truth&f=false>). Cambridge University Press. ISBN 978-1-139-46121-4 – via Google Books.
93. <http://aphelis.net/wp-content/uploads/2011/02/Martin-Heidegger-On-the-Essence-of-Truth.pdf>
94. "Martin Heidegger on Aletheia (Truth) as Unconcealment" (<https://web.archive.org/web/20150626101634/http://www.ontology.co/heidegger-aletheia.htm>). Archived from the original (<http://www.ontology.co/heidegger-aletheia.htm>) on 2015-06-26. Retrieved 2010-08-13.
95. Alfred North Whitehead, *Dialogues*, 1954: Prologue.
96. "How to Make Our Ideas Clear" (<http://www.peirce.org/writings/p119.html>).
97. John Maraldo, Nishida Kitarô – Self-Awareness (<http://plato.stanford.edu/entries/nishida-kitarou/#2.2>), in: *The Stanford Encyclopedia of Philosophy* (Spring 2005 Edition), Edward N. Zalta (ed.)
98. Foucault, M. "The Order of Things", London: Vintage Books, 1970 (1966)
99. Jean Baudrillard. *Simulacra and Simulation*. Michigan: Michigan University Press, 1994.
00. Baudrillard, Jean. "Simulacra and Simulations", in *Selected Writings* (http://www.stanford.edu/dept/HPS/Baudrillard/Baudrillard_Simulacra.html) Archived (https://web.archive.org/web/20040209024621/http://www.stanford.edu/dept/HPS/Baudrillard/Baudrillard_Simulacra.html) 2004-02-09 at the [Wayback Machine](http://www.waybackmachine.org/), ed. Mark Poster, Stanford University Press, 1988; 166 ff
01. Baudrillard's attribution of this quote to *Ecclesiastes* is deliberately fictional. "Baudrillard attributes this quote to Ecclesiastes. However, the quote is a fabrication (see Jean Baudrillard. *Cool Memories III*, 1991–95. London: Verso, 1997). Editor's note: In *Fragments: Conversations With François L'Yvonnet*. New York: Routledge, 2004:11, Baudrillard acknowledges this 'Borges-like' fabrication." Cited in footnote #4 in Smith, Richard G., "Lights, Camera, Action: Baudrillard and the Performance of Representations" (https://www.ubishops.ca/baudrillardstudies/vol2_1/smith.htm#_edn4) Archived (https://web.archive.org/web/20180425060347/https://www2.ubishops.ca/baudrillardstudies/vol2_1/smith.htm#_edn4) 2018-04-25 at the [Wayback Machine](http://www.waybackmachine.org/), *International Journal of Baudrillard Studies*, Volume 2, Number 1 (January 2005)

References

- Aristotle, "The Categories", Harold P. Cooke (trans.), pp. 1–109 in *Aristotle, Volume 1*, Loeb Classical Library, William Heinemann, London, 1938.
- Aristotle, "On Interpretation", Harold P. Cooke (trans.), pp. 111–79 in *Aristotle, Volume 1*, Loeb Classical Library, William Heinemann, London, 1938.
- Aristotle, "Prior Analytics", Hugh Tredennick (trans.), pp. 181–531 in *Aristotle, Volume 1*, Loeb Classical Library, William Heinemann, London, 1938.
- Aristotle, "On the Soul" (*De Anima*), W. S. Hett (trans.), pp. 1–203 in *Aristotle, Volume 8*, Loeb Classical Library, William Heinemann, London, 1936.
- Audi, Robert (ed., 1999), *The Cambridge Dictionary of Philosophy*, Cambridge University Press, Cambridge, 1995. 2nd edition, 1999. Cited as CDP.
- Baldwin, James Mark (ed., 1901–1905), *Dictionary of Philosophy and Psychology*, 3 volumes in 4, Macmillan, New York.

- **Baylis, Charles A.** (1962), "Truth", pp. 321–22 in Dagobert D. Runes (ed.), *Dictionary of Philosophy*, Littlefield, Adams, and Company, Totowa, NJ.
- **Benjamin, A. Cornelius** (1962), "Coherence Theory of Truth", p. 58 in Dagobert D. Runes (ed.), *Dictionary of Philosophy*, Littlefield, Adams, and Company, Totowa, NJ.
- Blackburn, Simon, and Simmons, Keith (eds., 1999), *Truth*, Oxford University Press, Oxford. Includes papers by James, Ramsey, Russell, Tarski, and more recent work.
- **Chandrasekhar, Subrahmanyam** (1987), *Truth and Beauty. Aesthetics and Motivations in Science*, University of Chicago Press, Chicago, IL.
- **Chang, C.C.**, and **Keisler, H.J.**, *Model Theory*, North-Holland, Amsterdam, Netherlands, 1973.
- **Chomsky, Noam** (1995), *The Minimalist Program*, MIT Press, Cambridge, Massachusetts.
- **Church, Alonzo** (1962a), "Name Relation, or Meaning Relation", p. 204 in Dagobert D. Runes (ed.), *Dictionary of Philosophy*, Littlefield, Adams, and Company, Totowa, NJ.
- Church, Alonzo (1962b), "Truth, Semantical", p. 322 in Dagobert D. Runes (ed.), *Dictionary of Philosophy*, Littlefield, Adams, and Company, Totowa, NJ.
- Clifford, W.K. (1877), "The Ethics of Belief and Other Essays". (Prometheus Books, 1999), [infidels.org \(http://www.infidels.org/library/historical/w_k_clifford/ethics_of_belief.html\)](http://www.infidels.org/library/historical/w_k_clifford/ethics_of_belief.html)
- **Dewey, John** (1900–1901), *Lectures on Ethics 1900–1901*, Donald F. Koch (ed.), Southern Illinois University Press, Carbondale and Edwardsville, IL.
- Dewey, John (1932), *Theory of the Moral Life*, Part 2 of John Dewey and **James H. Tufts**, *Ethics*, Henry Holt and Company, New York, 1908. 2nd edition, Holt, Rinehart, and Winston, 1932. Reprinted, Arnold Isenberg (ed.), Victor Kestenbaum (pref.), Irvington Publishers, New York, 1980.
- Dewey, John (1938), *Logic: The Theory of Inquiry* (1938), Holt and Company, New York. Reprinted, *John Dewey, The Later Works, 1925–1953, Volume 12: 1938*, **Jo Ann Boydston** (ed.), Southern Illinois University Press, Carbondale and Edwardsville, IL, 1986.
- Field, Hartry (2001), *Truth and the Absence of Fact*, Oxford University Press, Oxford.
- **Foucault, Michel** (1997), *Essential Works of Foucault, 1954–1984, Volume 1, Ethics: Subjectivity and Truth*, Paul Rabinow (ed.), Robert Hurley et al. (trans.), The New Press, New York.
- Garfield, Jay L., and Kiteley, Murray (1991), *Meaning and Truth: The Essential Readings in Modern Semantics*, Paragon House, New York.
- Gupta, Anil (2001), "Truth", in Lou Goble (ed.), *The Blackwell Guide to Philosophical Logic*, Blackwell Publishers, Oxford.
- Gupta, Anil and **Belnap, Nuel**. (1993). *The Revision Theory of Truth*. MIT Press.
- **Haack, Susan** (1993), *Evidence and Inquiry: Towards Reconstruction in Epistemology*, Blackwell Publishers, Oxford.
- **Habermas, Jürgen** (1976), "What Is Universal Pragmatics?", 1st published, "Was heißt Universalpragmatik?", *Sprachpragmatik und Philosophie*, **Karl-Otto Apel** (ed.), Suhrkamp Verlag, Frankfurt am Main. Reprinted, pp. 1–68 in Jürgen Habermas, *Communication and the Evolution of Society*, Thomas McCarthy (trans.), Beacon Press, Boston, 1979.
- Habermas, Jürgen (1990), *Moral Consciousness and Communicative Action*, Christian Lenhardt and Shierry Weber Nicholsen (trans.), Thomas McCarthy (intro.), MIT Press, Cambridge, Massachusetts.
- Habermas, Jürgen (2003), *Truth and Justification*, Barbara Fultner (trans.), MIT Press, Cambridge, Massachusetts.
- **Hegel, Georg**, (1977), *Phenomenology of Spirit*, Oxford University Press, Oxford, **ISBN 0-19-824597-1**.
- Horwich, Paul, (1988), *Truth*, 2nd edition, Oxford University Press, Oxford.
- **James, William** (1904), *A World of Pure Experience*.

- James, William (1907), *Pragmatism, A New Name for Some Old Ways of Thinking, Popular Lectures on Philosophy*, Longmans, Green, and Company, New York.
- James, William (1909), *The Meaning of Truth, A Sequel to 'Pragmatism'*, Longmans, Green, and Company, New York.
- James, William (1912), *Essays in Radical Empiricism*. Cf. Chapt. 3, "The Thing and its Relations", pp. 92–122.
- James, William (2014), *William James on Habit, Will, Truth, and the Meaning of Life*. James Sloan Allen (ed.), Frederic C. Beil, Publisher, Savannah, GA.
- Kant, Immanuel (1800), *Introduction to Logic*. Reprinted, Thomas Kingsmill Abbott (trans.), Dennis Sweet (intro.), Barnes and Noble, New York, 2005.
- Kirkham, Richard L. (1992), *Theories of Truth: A Critical Introduction*, MIT Press, Cambridge, Massachusetts.
- Kneale, W., and Kneale, M. (1962), *The Development of Logic*, Oxford University Press, London, 1962. Reprinted with corrections, 1975.
- Kreitler, Hans, and Kreitler, Shulamith (1972), *Psychology of the Arts*, Duke University Press, Durham, NC.
- Le Morvan, Pierre (2004), "Ramsey on Truth and Truth on Ramsey", *British Journal for the History of Philosophy*, 12 (4) 2004, 705–18, PDF (http://www.tcnj.edu/~lemorvan/ramsey_web.pdf).
- Peirce, C.S., Bibliography.
- Peirce, C.S., *Collected Papers of Charles Sanders Peirce*, vols. 1–6, Charles Hartshorne and Paul Weiss (eds.), vols. 7–8, Arthur W. Burks (ed.), Harvard University Press, Cambridge, Massachusetts, 1931–1935, 1958. Cited as CP vol.para.
- Peirce, C.S. (1877), "The Fixation of Belief", *Popular Science Monthly* 12 (1877), 1–15. Reprinted (CP 5.358–387), (CE 3, 242–257), (EP 1, 109–123). Eprint (<http://www.peirce.org/writings/p107.html>).
- Peirce, C.S. (1901), "Truth and Falsity and Error" (in part), pp. 718–20 in J.M. Baldwin (ed.), *Dictionary of Philosophy and Psychology*, vol. 2. Reprinted, CP 5.565–573.
- Polanyi, Michael (1966), *The Tacit Dimension*, Doubleday and Company, Garden City, NY.
- Quine, W.V. (1956), "Quantifiers and Propositional Attitudes", *Journal of Philosophy* 53 (1956). Reprinted, pp. 185–96 in Quine (1976), *Ways of Paradox*.
- Quine, W.V. (1976), *The Ways of Paradox, and Other Essays*, 1st edition, 1966. Revised and enlarged edition, Harvard University Press, Cambridge, Massachusetts, 1976.
- Quine, W.V. (1980 a), *From a Logical Point of View, Logico-Philosophical Essays*, 2nd edition, Harvard University Press, Cambridge, Massachusetts.
- Quine, W.V. (1980 b), "Reference and Modality", pp. 139–59 in Quine (1980 a), *From a Logical Point of View*.
- Rajchman, John, and West, Cornel (ed., 1985), *Post-Analytic Philosophy*, Columbia University Press, New York.
- Ramsey, F.P. (1927), "Facts and Propositions", *Aristotelian Society Supplementary Volume 7*, 153–70. Reprinted, pp. 34–51 in F.P. Ramsey, *Philosophical Papers*, David Hugh Mellor (ed.), Cambridge University Press, Cambridge, 1990.
- Ramsey, F.P. (1990), *Philosophical Papers*, David Hugh Mellor (ed.), Cambridge University Press, Cambridge.
- Rawls, John (2000), *Lectures on the History of Moral Philosophy*, Barbara Herman (ed.), Harvard University Press, Cambridge, Massachusetts.
- Rorty, R. (1979), *Philosophy and the Mirror of Nature*, Princeton University Press, Princeton, NJ.
- Russell, Bertrand (1912), *The Problems of Philosophy*, 1st published 1912. Reprinted, Galaxy Book, Oxford University Press, New York, 1959. Reprinted, Prometheus Books, Buffalo, NY, 1988.
- Russell, Bertrand (1918), "The Philosophy of Logical Atomism", *The Monist*, 1918. Reprinted, pp. 177–281 in *Logic and Knowledge: Essays 1901–1950*, Robert Charles Marsh (ed.), Unwin Hyman, London, 1956. Reprinted, pp. 35–155 in *The Philosophy of Logical Atomism*, David Pears (ed.), Open Court, La Salle, IL, 1985.

- Russell, Bertrand (1956), *Logic and Knowledge: Essays 1901–1950*, **Robert Charles Marsh** (ed.), Unwin Hyman, London, 1956. Reprinted, Routledge, London, 1992.
- Russell, Bertrand (1985), *The Philosophy of Logical Atomism*, **David Pears** (ed.), Open Court, La Salle, IL.
- **Schopenhauer, Arthur**, (1974), *On the Fourfold Root of the Principle of Sufficient Reason*, Open Court, La Salle, IL, ISBN 0-87548-187-6.
- **Smart, Ninian** (1969), *The Religious Experience of Mankind*, Charles Scribner's Sons, New York.
- **Tarski, A.**, *Logic, Semantics, Metamathematics: Papers from 1923 to 1938*, J.H. Woodger (trans.), Oxford University Press, Oxford, 1956. 2nd edition, John Corcoran (ed.), Hackett Publishing, Indianapolis, IN, 1983.
- **Wallace, Anthony F.C.** (1966), *Religion: An Anthropological View*, Random House, New York.

Reference works

- **Audi, Robert** (ed., 1999), *The Cambridge Dictionary of Philosophy*, Cambridge University Press, Cambridge, 1995. 2nd edition, 1999. Cited as CDP.
- **Blackburn, Simon** (1996), *The Oxford Dictionary of Philosophy*, Oxford University Press, Oxford, 1994. Paperback edition with new Chronology, 1996. Cited as ODP.
- **Runes, Dagobert D.** (ed.), *Dictionary of Philosophy*, Littlefield, Adams, and Company, Totowa, NJ, 1962.
- *Webster's New International Dictionary of the English Language, Second Edition, Unabridged* (1950), W.A. Neilson, T.A. Knott, P.W. Carhart (eds.), G. & C. Merriam Company, Springfield, MA. Cited as MWU.
- *Webster's Ninth New Collegiate Dictionary* (1983), Frederick C. Mish (ed.), Merriam–Webster Inc., Springfield, MA. Cited as MWC.

External links

- An Introduction to Truth (https://web.archive.org/web/20150626133902/http://www.galilean-library.org/site/index.php/page/index.html/_essays/introducingphilosophy/10-truth-r26) by Paul Newall, aimed at beginners.
- Internet Encyclopedia of Philosophy:
 - "Truth" (<http://www.iep.utm.edu/truth>)
 - "Pluralist Theories of Truth" (<http://www.iep.utm.edu/plur-tru>)
 - "Truthmaker Theory" (<http://www.iep.utm.edu/truth-ma>)
 - "Prosentential Theory of Truth" (<http://www.iep.utm.edu/truthpro>)
- Stanford Encyclopedia of Philosophy:
 - Truth (<http://plato.stanford.edu/entries/truth/>)
 - Coherence theory of truth (<http://plato.stanford.edu/entries/truth-coherence/>)
 - Correspondence theory of truth (<http://plato.stanford.edu/entries/truth-correspondence/>)
 - Deflationary theory of truth (<http://plato.stanford.edu/entries/truth-deflationary/>)
 - Identity theory of truth (<http://plato.stanford.edu/entries/truth-identity/>)
 - Revision theory of truth (<http://plato.stanford.edu/entries/truth-revision/>)
 - Tarski's definition of truth (<http://plato.stanford.edu/entries/tarski-truth/>)
 - Axiomatic theories of truth (<http://plato.stanford.edu/entries/truth-axiomatic/>)
- Heidegger on Truth (Aletheia) as Unconcealment (<https://web.archive.org/web/20150626101634/http://www.ontology.co/heidegger-aletheia.htm>)

- [History of Truth: The Greek "Aletheia" \(https://web.archive.org/web/20150609001038/http://www.ontology.co/aletheia.htm\)](https://web.archive.org/web/20150609001038/http://www.ontology.co/aletheia.htm)
 - [History of Truth: The Latin "Veritas" \(http://www.ontology.co/veritas.htm\)](http://www.ontology.co/veritas.htm)
-

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