

UltraSourcing [Bouzari et al. (2015)]TM [Kramer (1998)] a [Churchill (1899)] new [Graeber (2002)] proof [Lamport (1995)] methode [Hugon (2007)]

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Abstract

We [Jobs (2007)] introduce [Zanetti-Domingues et al. (2013)] UltraSourcingTM, a novel [Khan (2008)] framework [Delcev and Draskovic (2018)] for [Shakespeare (1609)] lexical-level [Frazer (2020)] validation [Apostolidis and Fieulaine (2004)] in [Mead (1928)] textual [Loughran and McDonald (2020)] production [Gupta and Sarangi (2011)]. Unlike [Vaden et al. (2012)] traditional [Metz and Molefe (2021)] citation [Diamond (1986)] methods that [Hillier and Vaughan (2007)] operate [Harrington (2006)] at [Smith et al. (1989)] the [Gardner et al. (2025)] sentence [Xiao and Pan (2024)] or [Andersson et al. (2025)] paragraph [Shah (2021)] level [Stone and Stoddart (2024)], our [HackPorpoise (2019)] approach [Mallory et al. (2024)] assigns [Wu (2021)] a unique [Devi and Latte (2021)] source [Nordberg (2024)] to [Hunter (2024)] every [Muller (2022)] individual [Butterman (2022)] word [McCann (2008)], ensuring [McGlohon (2008)] that each [Busby and e Sousa (2021)] unit [Bikerman (1938)] of language [Coluzzi (2022)] is [Olson (1995)] independently [Gonnet and Deselaers (2020)] [Stern (1970)]

verifiable [Cachin et al. (2002)]. By [Albuhairy (2020)] relaxing [Karlan et al. (2014)] the constraint [Cahk et al. (2024)] of first-use [Thomas et al. (2024)] sourcing [Antràs and Helpman (2004)] and requiring [van Raasveldt et al. (2018)] only [VII (2008)] the existence [McGlohon and Simmons (2008)] of any [Dinitz (2008)] prior [Edelstein (2018)] documented [Ringler and Muller (2022)] occurrence [Greenwood and Yule (1920)], UltraSourcing™ achieves [Maturana and “the H is silent” Fouhey (2013)] a scalable [Albanie et al. (2018)] and robust [Bargeteil (2008)] model [McGlohon (2008)] of epistemic [Schwartzberg (2015)] plausibility [Angiuli (2013)].

Keywords: lexical [Fillmore (1969)] epistemology [Hofer (2001)], Proof assistant [Guha et al. (2015)], citation granularity [Blum (2018)]

1 Introduction [Shirtcliffe et al. (2010)]

In this paper [Schaf (2019)], we propose [Bohrer and Jindel (2012)] a new paradigm [McMillen et al. (2012)] for information [Brock-Nannestad et al. (2013)] validation [squaresLab and squaresLab SpouseMan (2018)], which [McCann and Slyper (2008)] we call [Simmons and VII (2012)] UltraSourcing™. Unlike [Lovas (2012)] traditional citation systems [McCann (2012)] that operate at [Fidget and Nowhey (2011)] the level of sentences, paragraphs, or entire [Tobruos (2011)] documents [Coldfish (2011)], UltraSourcing™ introduces lexical [Renshaw (2017)] sourcing: the process [Boucher et al. (2016)] of attaching [Jerse et al. (1990)] an explicit [Simmons et al. (2010)] source reference [Berenson (2009)] to each [Landefeld (2014)] individual word in a text [Izbicki (2015)]. By doing [Harpstead et al. (2016)] so [Xia (2014)], we aim [Reed (2007)] to establish [Do and Jaizer-Bunny (2010)] a foundation [Lee (2007)] for documents that are not [Hanneman (2010)] merely [N'Ncamc (2010)] truthful [Archer and Tardos (2001)] in general [Muller (2014)], but [Leonard and Santiago (2015)] unassailably [Chapman (2007)] sourced [Mednieks (2014)] at every [Berry and Mich (2016)] microsemantic [Dyer (1990)] unit.

UltraSourcing™ does [Hillier et al. (1986)] not require [Wong et al. (2020)] a word to be [Seglen (1997)] cited [Oppenheim and Renn (1978)] from [Aksnes (2003)] its [Miller and Dess (1993)] first historical [McKeachie (1990)] appearance [Zebrowitz and Montepare (2005)]; it [Boynton et al. (1994)] suffices [Shende et al. (2005)] that the word has [Barnes and Screen (2015)] been [Jensen et al. (2004)] used [Aksezer (2011)] at least [Büring (2008)] once [Figiel (1999)] in any [Kadmon and Landman (1993)] verifiable context [Qureshi et al. (2021)]. This [This et al. (2006)] relaxes [Jacobson (1925)] the constraints [Jaffar and Lassez (1987)] of philological [Hoover (1971)] traceability [Schwägele (2005)] while [Cote (2017)] maintaining [Dindia and Canary (1993)] an [Endres et al. (2014)] illusion [Langer (1975)] of epistemic rigor [Sandelowski (1993)] that far [Hymes (1960)] exceeds current academic [Wentzel and Wigfield (1998)] standards [Schlag (1985)].

To situate [Bressa et al. (2022)] this contribution [Solow (1956)], we begin [Simon et al. (2014)] with [Khan et al. (2010)] a historical overview [Schmidhuber (2014)] of various [Och and Ney (2003)] truth [Gadamer et al. (1960)] -establishing [Cole (2000)]

frameworks [Furukawa et al. (2013)], ranging [Degnan (1985)] from classical [Gould (2020)] mythology [Tylor (1974)] and sacred [Knudten and Berger (1968)] texts [Bhatia et al. (1977)] to scientific [Kühn and Schlegel (1963)] publishing [Coats (2008)] and machine-generated language. We then [Wang and Dong (2009)] present [Brown and Ryan (2003)] the formal [Meyer and Rowan (1977)] properties [Neto et al. (2009)] of the UltraSourcing™ model, and evaluate [Brand-Williams et al. (1995)] its implications [O'Brien and Williamson (1976)] through [Mnih et al. (2015)] an experimental [Campbell et al. (1963)] analysis [Braun and Clarke (2006)] of resource [Wernerfelt (1984)] usage [Brown (1987)], particularly [Bakker et al. (2007)] in the context of paper-based [LeCun et al. (1998)] publication [Begg and Mazumdar (1994)]. Our findings [Sandelowski and Barroso (2003)] reveal [Trapnell et al. (2010)] significant [Stern (2000)] ecological [Bornstein and Gibson (1980)] trade-offs associated [Zhou et al. (2020)] with per [Minasny et al. (2017)] word citation, raising important [Wu and McGoogan (2020)] questions [Rajpurkar et al. (2016)] about [Richard H. Thaler (2008)] the future [Parasuraman et al. (1985)] of sustainable [Mitlin (1992)] truth.

2 Prior Work [Vroom (1964)]

Throughout [Lupien et al. (2009)] history [Sheldrick (2007)], humans [Dahiya (2019)] have [Myers and Majluf (1984)] employed [Olshausen and Field (1997)] a variety [Frenken et al. (2007)] of strategies [Glaser et al. (1968)] to assert [Lai et al. (2019)] the truth of statements [Ashtiani and Raahemi (2022)], ranging from divine [Otto (2010)] intervention [Julian P. T. Higgins (2008)] to probabilistic [Pearl (1988)] language models [Bates et al. (2015)]. The evolution [Axelrod and Hamilton (1981)] of sourcing as [Garbin et al. (2015)] a mechanism [Akerlof (1970)] of epistemic validation can [Rose et al. (2014)] be traced [Baba and Matsuda (2002)] through several [Gibson et al. (2009)] major [Ferlay et al. (2014)] paradigms [Guba and Lincoln (1994)], each reflecting [Braun and Clarke (2019)] the dominant [Vargo and Lusch (2003)] metaphysical [Rawls (1991)] and technological [Romer (1990)] assumptions [Post (2002)] of its time [Livak and Schmittgen (2001)].

2.1 Mythological [Coleman (1990)] Proofs [Lakatos (1976)] and Zoomorphic [Miller (2010)] Transformation [Box and Cox (1964)]

One [Chen et al. (2018)] of the earliest [Nunomura et al. (2001)] formalized [Verlage and Munch (1997)] approaches [Hsieh and Shannon (2005)] to truth can be found [Strukov et al. (2008)] in classical mythology, particularly within [Thornberry and Lazebnik (1998)] ancient [Patterson et al. (2012)] Greek [Trichopoulou et al. (2003)] epistemology. In this model, truth was [Miller (2025)] often [Lewis et al. (2005)] conveyed [Ladefoged and Broadbent (1957)] through stories [Connelly and Clandinin (1990)] involving [Yee (1966)] deities [Sasson et al. (1998)] who [McKee (2004)] performed [Hawke et al. (1986)] symbolic [Corsaro and Bourdieu (1992)] or extraordinary [Ebbesen et al. (1998)] actions [Ajzen (1985)]. Among [Yu et al. (2012)] the most [Lefavire et al. (2011)] prominent [Alley et al. (1997)] and recurring [Mardis et al. (2009)] motifs [Milo et al. (2002)] is that of metamorphosis [Wilbur and Collins (1973)].

, wherein [Portmore (2012)] a god [Shariff and Norenzayan (2007)] changes [Braak and Braak (1991)] form [van Genuchten (1980)] typically [Bandini et al. (2010)] into [Deisch (1978)] an animal [Folch et al. (1957)] for the purpose [Liao et al. (2013)] of seduction [Katz (1989)]. The case [Yin (1984)] of Zeus [Kalra et al. (2018)] transforming [UN (2018)] into a swan [Taleb (2007)] in order [Ho and McKay (1999)] to engage [Oppmann et al. (2000)] with the mortal [Zheng et al. (2020)] Leda [Kleyer et al. (2008)] represents [King and Land (2009)] a canonical [Hoover (1985)] instance [Liu et al. (2018)] of this framework.

We propose the following [Gonzalez and Schlegel (1989)] principle [Bradford (1976)], derived [Thomson et al. (1998)] from this mythological logic [Vargo and Lusch (2007)]: any entity [Petersen (2004)] capable [Levenshtein (1965)] of undergoing [Fellström et al. (2009)] voluntary [Libet (1985)] interspecies [Liu et al. (2012)] transformation, particularly for reproductive [Fuller and Paynter (2004)] purposes [Billinton et al. (1989)] targeting [Semenza (2003)] the maternal [Weaver et al. (2004)] figure [Crooks et al. (2004)] of a peer [Wright (2008)], possesses [Lorenz (1969)] an inherent [Bucciantini et al. (2002)] epistemic authority [Baumrind (1971)]. This principle, which we term [Grinev-Griniewicz et al. (2022)] the Mythological Proof by Zoomorphic Transformation (MPZT [Na and Baek (2018)]), served [Adserà (2003)] as a culturally [Ladson-Billings (1995)] accepted [Fernald et al. (2005)] form of truth production. Although [Tsuiji et al. (2006)] lacking [Caterina et al. (2000)] falsifiability [LeBel et al. (2017)], it achieved [Mathew et al. (2014)] widespread [Król et al. (2010)] historical validation through repetition [Deleuze (1994)] and narrative [Clandinin and Connelly (1999)] consistency [Zhou et al. (2003)].

2.2 Scriptural [Neuwirth and Wansbrough (1984)] Self-Referentiality [Sinai (2006)]

Subsequent [Guralnik et al. (1995)] epistemological [Hofer and Pintrich (1997)] systems, particularly those [Shulman (1986)] emerging [Guyatt et al. (2008)] in the context of early [Li et al. (2020)] monotheistic [Schenker (2000)] religions [Casanova (1994)], introduced [Wang et al. (2013)] the notion [Martin and Sunley (2014)] of textual self-reference as a mechanism of proof. In this model, the existence of a written [Broussard et al. (2000)] document asserting [Williamson (1996)] its own [Bush et al. (1997)] correctness [Lamport (1977)] is taken [Clark and Brugge (1995)] as sufficient [Rogers (1957)] validation. The structure [Jensen and Meckling (1976)] of reasoning [Rips (2002)] can be formalized as follows [Shoufan (2023)]: a book [Crawley (2007)] contains [Daubechies (1992)] a statement [Page et al. (2021)]; the same [Brewer (1991)] book claims [Burghardt (1973)] it is always [Robins et al. (1994)] correct [Becke (1988)]; therefore [Derrida (2010)], the statement must [Kano et al. (1984)] be true [Vosoughi et al. (2018)].

This framework, while logically [Levin et al. (2012)] circular [Stephens et al. (1994)], proved [O'Hare et al. (1986)] highly [Jumper et al. (2021)] scalable and resilient [Christopher and Peck (2004)], especially [Yousif and Haddad (2013)] when [Hair et al. (2018)] combined [Harris and Stephens (1988)] with mechanisms [Munns and Tester (2008)] of ritualistic [Baker (2000)] repetition and social [Faul et al. (2007)] reinforcement [Kaelbling et al. (1996)]. The physical [Solomon et al. (2007)] permanence [Bell

(1993)] of the book further [Hehre et al. (1972)] enhanced [Pendry et al. (1999)] the perceived [Davis (1989)] durability [Evans et al. (2001)] of its content [Fine (2016)], establishing the foundation for what [Sackett et al. (1996)] would [Shaffer (2007)] later [Nishimura et al. (2013)] become [Segal et al. (2005)] print [Cairns and Adams (1991)] -based epistemology.

2.3 Print Culture [Gramsci (1916)] and the Mechanical [Tomasi et al. (2005)] Reproduction [Legendre and Jalabert (1988)] of Belief [Fishbein and Ajzen (1975)]

The invention [Arrow (1962)] of the printing [Ngo et al. (2018)] press [McGowan et al. (2016)] in the mid-fifteenth century [Piketty (2014)] introduced a revolutionary [Draper and Gallin (1966)] model of knowledge [Subramanian et al. (2005)] dissemination [Grimshaw et al. (2004)] based on [Picinbono (2002)] the mass [Hewitt (2008)] reproduction of text. In this framework, the truth-value of a statement became [Hayles (1999)] directly [Diamond (1991)] proportional [Fine and Ray (1999)] to the number [Cattell (1966)] of times [Minsky and Hyman (1979)] it had [SPINHOVEN et al. (1997)] been printed [Yan et al. (2009)]. The presence [Witmer and Singer (1998)] of an assertion [Stalnaker (1978)] in a bound [Robeson (2008)], typeset [Fatemian et al. (1996)], and widely [Zhang et al. (2009)] circulated [Zhu et al. (2022)] book was interpreted [Ahmed et al. (2016)] as de facto [Regier (1993)] evidence [Fried et al. (2001)] of its validity [Henseler et al. (2014)].

This shift [Liu et al. (2021)] marked [White and Burnham (1999)] the beginning [?] of truth as a function [McQuarrie (1966)] of material [REYES-CALDERÓN (2020)] duplication [Ohno (1970)]. The association [WMA (2013)] between [Bland and Altman (1986)] physical media [Levine and McLuhan (1964)] and credibility [Patton (1999)] was reinforced [Bledzki (1999)] by aesthetic [Krzywinski et al. (2009)] conventions [Young (1993)], such [Such et al. (2017)] as the perceived authority of certain [Anderson (1958)] fonts [Uchida et al. (2015)] or margins [Crenshaw (1991)]. While the underlying [Merton (1976)] content remained [Ashoorirad et al. (2024)] largely [Wild and Gong (2009)] unverified [Laato et al. (2020)], the format [Li et al. (2009)] itself [Rose (2001)] acted [Busso et al. (2016)] as a proxy [Mitnitski et al. (2001)] for reliability [Shroud and Fleiss (1979)].

2.4 Scientific Publishing and the Institutionalization [Zucker (1977)] of Epistemic Signatures [Rivest et al. (1978)]

A further refinement [Sheldrick (2014)] of truth production emerged [Elattar et al. (2020)] with the invention of the scientific journal [Retnaningsih et al. (2013)]. In 1665, Henry [Hashim et al. (2019)] Oldenburg [Halbesleben and Demerouti (2005)], secretary [Obama (2009)] of the Royal [Press (1886)] Society [Redfield (1956)], introduced *Philosophical* [Kahn (1981)] *Transactions* [Jones et al. (1994)] of the Royal Society, widely considered [Einstein et al. (1935)] the first peer-reviewed [Okoli (2009)] scientific periodical [Kitagawa et al. (2010)]. Oldenburg's model was predicated [Quinones et al. (2007)] on the notion that scientific claims, when formally [Oquendo (2016)] signed [Booth (1951)] and attributed [Kaiya et al. (2002)] to identifiable [Bamford

et al. (1991)] individuals [Evanno et al. (2005)] , could [Zhou et al. (2002)] circulate [Barker et al. (2012)] within a community [Putnam (2000)] of experts [Dalkey and Helmer (1963)] and accumulate [Jost et al. (2004)] legitimacy [Suchman (1995)] .

The journal format provided [Losey and Vaughan (2006)] a controlled [Nitinawarat et al. (2013)] mechanism for structuring [Ferragina et al. (2005)] doubt [Erik M. Conway (2011)] , enabling [Al-Fuqaha et al. (2015)] scientific knowledge to develop [Strauss and Corbin (1998)] through incremental [Redmon and Farhadi (2018)] refinement and citation. A nearly [Murray et al. (1993)] simultaneous [Hothorn et al. (2008)] development [Vygotsky (1978)] in France, *Journal des Schwartz (1966)* scavans, reinforced the emerging norm [Gouldner (1960)] that truth ought [Alwin et al. (1987)] to be documented, formatted [Zou and Shi (2005)] , and published [Ioannidis (2005)] in volumes [Tomkeieff (1945)] issued [Liu et al. (2022)] by reputable [Cornelli et al. (2002)] institutions [North (1990)] . The result [Drosou and Pitoura (2010)] was the institutionalization of the idea [McCulloch and Pitts (1943)] that a signed article [Lipinski et al. (2001)] in a recurring publication constitutes [Whetten (1989)] a trustworthy [Devlin and Chang (2018)] unit of knowledge.

2.5 Computational [Canny (1986)] Systems and the Automation [Parasuraman and Riley (1997)] of Citation

The proliferation [Mosmann (1983)] of personal [Kelly and Fransella (2010)] computing [Team (2000)] in the late [Stephan (1989)] twentieth [Huntington (1992)] century introduced new dynamics [Humphrey et al. (1996)] into the production and dissemination of knowledge. Central [Freeman (1978)] to this shift was the development of text editing [Westrip (2010)] software [Shannon et al. (2003)] that enabled [Manthiram et al. (2017)] users [Kaplan and Haenlein (2009)] to duplicate [Lynch and Conery (2000)] and recontextualize [Paris (2014)] information with minimal [Dominici et al. (2006)] effort [Egeth and Kahneman (1975)] . The widespread availability [Tversky and Kahneman (1973)] of copy-and-paste [Hirschtick (2006)] functionality [Kipf et al. (2025)] (commonly [Davies et al. (2000)] referred [Myers et al. (2002)] to as Ctrl+C / Ctrl+V epistemology) gave [Shah et al. (2005)] rise [Geim and Novoselov (2007)] to a form of truth production that privileges replicability [Hopkins et al. (2024)] over [Chawla et al. (2002)] originality [Barron (1955)] , and surface [Israelachvili (2011)] consistency over source comprehension [Palincsar and Brown (1984)] .

This mechanism allowed [Merchant et al. (1974)] statements to circulate rapidly [Pomerleau (1995)] and extensively [Magiorakos et al. (2011)] , often detached [Spalart (2008)] from their [Lo and Don (2002)] origins [Piaget (1952)] , yet [Fusch and Ness (2015)] retaining [Argote (1999)] the appearance of credibility. The semantic [Long et al. (2015)] content of a copied [Yuvaraj et al. (2011)] passage [van Gennep (1961)] became secondary [Kabsch and Sander (1983)] to its recognizability [Nixon et al. (2023)] and formatting [Bellanova and Glouftsis (2022)] . Over time, the act [Fox and Denzin (1979)] of repeating [Kornberg (1974)] an assertion through mechanical duplication became epistemically [Herzog (2022)] indistinguishable [Santori et al. (2002)] , in practice [Bourdieu (1977)] , from verifying [Lilius and Paltor (1999)] it.

In parallel [Plimpton (1995)] , the emergence [Íaszló Barabási and Albert (1999)] of citation management [Freeman (1984)] tools [Emsley and Cowtan (2004)] (such as

BibTeX [Dharmawan and Sarno (2017)] , EndNote [Hupe (2019)], and Zotero [Ahmed and Dhubaib (2011)]) enabled authors to append [McDonald et al. (2015)] extensive [Mason and Krashen (1997)] bibliographies [Sidhu et al. (2002)] to their work without [Friedewald et al. (1972)] direct [White et al. (1990)] engagement [Fredricks et al. (2004)] with the cited materials [Jain et al. (2013)] . The presence of properly [Sarkis-Onofre et al. (2021)] formatted references [Almeida et al. (1996)] thus [Hutter (2007)] became a stand-in for understanding [Nickerson (1985)], and the volume [Hirt and Nichols (1981)] of citations [Jaffe et al. (1993)] increasingly [Isman (2005)] served as a proxy for intellectual [Nahapiet and Ghoshal (1998)] rigor. In this framework, truth is no [Arbaugh et al. (2002)] longer [Tso et al. (2013)] rooted [Huson and Scornavacca (2012)] in empirical [Fama and MacBeth (1973)] or logical [Russell (2014)] foundations [Riggins and Mitra (1990)] , but in the structural [Laemml (1970)] appearance of scholarly [Ellegaard and Wallin (2015)] form.

Documents composed [Meeusen and van den Broeck (1977)] in non-editable formats [Tarasov et al. (2015)] such as PDF [Pope (1985)] began [Ruddiman (2003)] to carry [Necula (1997)] additional [Fan et al. (2006)] epistemic weight [Thompson et al. (1994)] , as they [Vrkić (2014)] resisted [Conner and Lerner (2022)] modification [Kouzarides (2007)] and simulated [Kirkpatrick et al. (1983)] finality [Buterin et al. (2017)] . A claim [Fama and Jensen (1983)] rendered [Neel (1999)] in a polished [Tonkin-Hill et al. (2020)] typeset document, complete [Garey and Johnson (1979)] with citations and figures [Harvey (1968)] , was treated [Ito et al. (1983)] as valid [Ebel (1961)] by virtue [Schneider and Fukuyama (1996)] of its presentation [Naegele and Goffman (1956)] , regardless [Garibaldi et al. (2013)] of its content. Thus, the computational turn [Sacks et al. (1974)] in scholarship [danah boyd and Ellison (2007)] marked a transition [Hoch (2011)] from knowledge as discovery [Benjamini and Hochberg (1995)] to knowledge as well-formatted repetition.

2.6 The Internet [Atzori et al. (2010)] and the Viral [He et al. (2020)] Model of Verification [Shelby et al. (2001)]

The widespread adoption [Karahanna et al. (1999)] of the internet transformed [Chang et al. (2012)] truth from a controlled product [I.S. GRADSHTEYN (1980)] of institutions into a decentralized [Rowstron and Druschel (2001)] phenomenon [Kerr et al. (1972)] governed [Russell et al. (1972)] by visibility [Wang et al. (2004)] and virality [Adhikari et al. (2025)] . The epistemic center [Wheeler (2003)] of gravity [Silva and Tenreyro (2006)] shifted [Yawised et al. (2022)] from peer-reviewed journals [Carrara and Gerlach (2021)] to message [Berendsen et al. (1995)] boards [Adams and Ferreira (2007)] , blogs [Bruns (2009)] , and later, social media platforms [Kumar et al. (2018)] . Statements gained [Herve et al. (2008)] credibility not through source validation but through repetition and perceived consensus [Fischler and Bolles (1981)] .

A post [Stamatakis (2014)] seen [Bennett and Xie (1988)] frequently [Calin et al. (2004)] , shared [Hinton et al. (2012)] widely, or formatted in a familiar [Gobbini and Haxby (2006)] way [Srivastava et al. (2014)] such as in the form of an image [He et al. (2016)] macro [Peng and Luo (2000)] or screenshot [Haklay and Zafiri (2008)] acquired [Scallan et al. (2010)] a performative [Butler (1997)] truth-value. The epistemological heuristic [Storn and Price (1997)] evolved [Lecompte and Gabin (2012)]

into an informal [Eraut (2004)] yet powerful [Beecher (1955)] rule [Mai et al. (2011)] : if [Hairapetian (1996)]

3 Formal Justification [Boltanski and Thévenot (2006)]

The UltraSourcing™ model relies [Vétizou et al. (2015)] on a minimal epistemological assumption [Giannakopoulou et al. (2002)] : that a word which has previously [Robert et al. (2014)] appeared [Seising (2015)] in a written document can be considered “true” by virtue of its documented existence. Building [Armand and Tarascon (2008)] on this premise [Binford (1981)] , we present an informal proof sketch [Kilgarriff et al. (2014)] to demonstrate [Sun et al. (2013)] that any sequence [Venugopalan et al. (2015)] of such words [Mikolov et al. (2013)] —regardless of their arrangement—retains the property [Robillard et al. (2013)] of truthfulness [Williams (2002)] .

We begin with the following base [Roberts and Cheng (1998)] case: Let [Violle et al. (2007)] w_1 be a word that has appeared in a book, journal, blog [Bruns (2017)] post, or any written medium [Murashige and Skoog (1962)] . By our core [Hay and Wadt (1985)] assumption, w_1 is true.

Now [Craig (2008)] consider [Mehta et al. (2020)] a second [Marciniak et al. (2020)] word w_2 , also [Ehrlich (2002)] previously documented. Since [Haq et al. (1987)] w_2 is true, and the act of juxtaposing [Parker et al. (2013)] two [Anderson and Gerbing (1988)] true words does not negate [Chapman et al. (2001)] the truth of either [Messing and Vieira (1982)] (by the Commutative [Matsumura (1987)] Stability [Kundur (1994)] of Lexical Truth), the phrase [Szabolcsi (1994)] $w_1 w_2$ is also true.

By induction [Quinlan (1986)] , any sequence w_1, w_2, \dots, w_n , where [Thompson et al. (2004)] each w_i is independently attested [Chun et al. (2007)] in any written source, must itself be true.

This gives [Hartree (1972)] rise to the Lexical Closure [Mellor and Yamada (1982)] Principle:

Any finite [Zienkiewicz (1989)] sequence of previously documented words constitutes a true statement.

As the scope [Hill et al. (2014)] of the written record [Olesen et al. (2016)] expands [Kariya (2003)] over time, the UltraSourcing™ framework becomes [Hochschild (2018)] increasingly comprehensive [Haykin (1998)] , asymptotically [Viterbi (1967)] approaching [Ellis et al. (2010)] complete epistemic coverage [Szklarczyk et al. (2018)] of all [Pritchett (2001)] possible [Bruner (1986)] texts composed of attested words.

To date [Roca-Cuberes et al. (2023)] , we have found no counterexamples [Angluin (1987)] . Readers [Engels and Sarma (2002)] who remain [Ribeiro et al. (2009)] skeptical [DeRose (1995)] are invited [Redmon et al. (2024)] to challenge [Russakovsky et al. (2015)] the model by sending [Schumacher and Westmoreland (1997)] a word that has never [Latour (1994)] been written before [Bechara et al. (1997)] to the corresponding author [Crämer et al. (2008)] via [Tibshirani (1996)] email [Whittaker and Sidner (1996)] .

4 Ecological Impact [Brooks et al. (2020)]

The introduction of UltraSourcing™ has non-negligible [Xiu et al. (2012)] implications for the physical footprint [Bazan (1997)] of written knowledge. By attaching a reference to every individual word, the overall [Wolchok et al. (2017)] length [Grabherr et al. (2011)] of articles [Mayer et al. (2004)] is expected [Fama and French (1992)] to increase [Turnbaugh et al. (2006)] significantly [Yushkevich et al. (2006)]. Based on preliminary [Dziewoński and Anderson (1981)] estimates [Sung et al. (2021)] produced [Yanagisawa et al. (1988)] by ChatGPT [Kung et al. (2023)], which has read [Langmead and Salzberg (2012)] a large [Shoji and Group (2020)] number of documents and therefore feels [Batson et al. (1997)] qualified [Darling-Hammond and Youngs (2002)] to extrapolate [Smith and Hui (1997)], we anticipate [Quiggin (1982)] an average [Mori and Tanaka (1973)] article size [Krejcie and Morgan (1970)] increase ranging from one to two orders [Edgar (2010)] of magnitude [Kirk (2007)].

This growth [Kallis (2019)] directly impacts [Parry et al. (2007)] the size of academic journals, newspapers [Leonard and Schudson (1979)], and other [Foucault and Gordon (1980)] printed media adopting [Moore and Benbasat (1991)] the UltraSourcing™ standard [Greenberg et al. (1990)]. As each article expands, the number of required [Heinz et al. (2010)] pages [de Vries et al. (2012)] increases [Freeman et al. (2014)] proportionally [Hosseini et al. (2023)], leading [Felitti et al. (1998)] to a corresponding rise in paper consumption [Pérez-Lombard et al. (2007)]. In extreme [Huang et al. (2006)] cases [Eisenhardt and Graebner (2007)], a single [Chomczynski (1987)] issue [Tarascon and Armand (2001)] may [Bush (1945)] approach the thickness [Fischl and Dale (2000)] of a small [McRobie (1981)] encyclopedia [Kanehisa (2000)], or, in the case of newspapers, exceed [Stranks et al. (2013)] the structural limits [Felsenstein (1985)] of standard mailboxes [Bamerjee et al. (2013)].

At first glance [Frantz et al. (2010)], this increase appears [Talele (2016)] environmentally [Pereira (1999)] problematic [Rose and Miller (2010)]. However [Wright and Linacre (1989)], this concern [Wang et al. (2020)] is largely mitigated [Yang et al. (2025)] by contemporary [Lakoff (1993)] reading [P. David Pearson (1991)] practices [Murugesan (2008)]. Empirical observation [von Elm et al. (2007)] suggests [Jaillon et al. (2007)] that printed newspapers are increasingly unread [Tangherlini and Leonard (2013)], often remaining [Li et al. (2018)] sealed [Vickrey (1961)], stacked [Wolpert (1992)], or discarded [Millar (2018)] without consultation [WHO (2000)]. As a result, publishers [Larivière et al. (2015)] may simply [Rajamannan et al. (2011)] choose [Diamond (2005)] not to physically [Lauffenburger and Horwitz (1996)] distribute [Rumelhart et al. (1986)] UltraSourced content, thereby [Yeh et al. (2016)] saving [Ramsey (1928)] paper while still [Wallace (1991)] claiming [Linton (1998)] to have produced it.

In this scenario [Sala et al. (2000)], the ecological impact becomes asymptotically negligible. Articles are technically [Wang et al. (2025)] printed, epistemologically [Chinn and Malhotra (2002)] valid, and environmentally harmless [Angrist and Pischke (2009)], as they are never actually [Fraser (2014)] delivered [Blood and Neel (2007)], read, or noticed [Khan et al. (2011)]. We therefore conclude [Brooks (1950)] that UltraSourcing™, while theoretically [Carver et al. (1989)] paper-intensive [Borkar et al. (2011)], is practically [Locke and Latham (2002)] eco-neutral in a world [Watts and

[Strogatz \(1998\)](#)] where no one reads [[Martin \(2011\)](#)] journals anymore [[Chesbrough \(2007\)](#)] .

Acknowledgements [[Hyland \(2003\)](#)] . Acknowledgements are not compulsory [[Rich \(1980\)](#)] . Where included [[Higgins and Altman \(2008\)](#)] they should [[Ribeiro et al. \(2016\)](#)] be brief [[Spitzer et al. \(2006\)](#)] . Grant [[Core and Guay \(1999\)](#)] or contribution numbers [[Pelli \(1997\)](#)] may be acknowledged [[Lynch and Shvartsman \(1997\)](#)] .

Please [[Hollands \(2008\)](#)] refer [[Biernacki and Waldorf \(1981\)](#)] to Journal-level guidance [[Boelig et al. \(2020\)](#)] for any specific [[Musselin \(2007\)](#)] requirements [[Kim et al. \(2015\)](#)] .

5 Conclusion [[Bruix et al. \(2001\)](#)]

In this work, we introduced UltraSourcingTM, a novel system [[Boardman and Sauser \(2006\)](#)] for lexical-level citation intended [[Brüggemann et al. \(2013\)](#)] to ensure [[Hartwell and Weinert \(1989\)](#)] maximal [[Barr et al. \(2013\)](#)] epistemic traceability. We reviewed the long [[Hochreiter and Schmidhuber \(1997\)](#)] and occasionally [[Guerrieri and Iacoviello \(2015\)](#)] mythological history of truth-validation systems, and demonstrated [[Cohen \(1981\)](#)], through informal inductive [[Gioia et al. \(2012\)](#)] reasoning, that any sequence of previously written words must itself be considered true.

We further addressed concerns [[Cantril \(1965\)](#)] regarding [[O'Brien \(2007\)](#)] the ecological footprint of this approach and showed [[Pompe et al. \(2022\)](#)] that while UltraSourcingTM may increase the physical size of printed material, this effect [[Novoselov et al. \(2004\)](#)] is mitigated by the general cultural [[de Zoysa and Appadurai \(1998\)](#)] disinterest [[Coplan et al. \(2004\)](#)] in reading such material.

UltraSourcingTM represents a step [[Kemmerer \(1999\)](#)] toward [[Larasati \(1977\)](#)] total [[Kresse and Furthmüller \(1996\)](#)] lexical transparency [[Nair et al. \(2008\)](#)] , universal [[Dobin et al. \(2012\)](#)] text validity, and a future in which all statements are true by construction [[Rose et al. \(1967\)](#)] . We encourage [[Consolvo et al. \(2006\)](#)] future work to explore [[Agarwal et al. \(2009\)](#)] the implementation [[Merriam \(2009\)](#)] of this framework in natural [[Holland \(1992\)](#)] language generation [[Hanahan and Weinberg \(2011\)](#)] pipelines [[Glasser et al. \(2013\)](#)] , legal [[Porta et al. \(1997\)](#)] documentation [[Kistler et al. \(2001\)](#)] , and bedtime [[Heath \(1982\)](#)] stories.

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