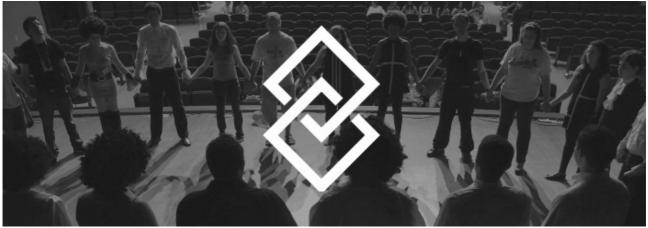# Cultural Blockchain Semiotics

by
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A contemporary laic-compliant faith-inspired opera collaboration workshop is organized as a reliability blockchain.

Abstract:

From the influence semiotics had on its inventor Charles Sanders Peirce signical basement of scientific-methodologically faith-inspiration from beliefs, we derive the fundaments UNESCO uses in laic-compliant humanitarian peacebuilding cultural heritage safeguard.

The interfaith-basement role in crosscultural cybernetics diplomacy understandment and its creative industry accountable traceable blockchain verifiability jurisprudence allow us to stablish a transparent global standards compliance open-source governance.

Based on this we present the Ecumenic Creative Operations (https://ecumenic.github.io) reliability engineering laic-compliant interfaith-based cultural blockchain xAI DevOps through deep-learning semantic algorithms of corpora across interoperable ontologies.

1. Cultural Heritage Faith-Inspiration Semiotics:

1.1. Umberto Eco's "Theory Of Semiotics":
1.1.1. *Semiosis:* The semiolinguist author presents semiosis as a semiotics of semiology, analyzing the philosophical historiography of signical informational functionalities, in the pragmatical cybernetics limits of decision-making perceptual phenomenology.
1.1.2. *Semiology:* Understanding Ferdinand De Saussurre signs as pragmatical decisions, the book signifies semiology as the significant of meaning-giving, their life relationships, the same way etymology directs cybernetics to the greek for steering-wheels of wills.
1.1.3. *Semiotics:* To this, Charles Sanders Peirce adds the interpreter and its semantics, in a limitless complexifying signified object componental interpretations analytics, informing semiotics as a semiology of semiology, structurations of represented codings.

1.2. Charles Sanders Pierce's "Fixation Of Belief":
1.2.1. *Logics:* Viewed as a relative science of experiences historic statistics in inferences, uncertainty of analytic elements details in dense volumes still allow verifiable properties, where long-range laws applied to found exceptions improve the scientific methodology.
1.2.2. *Belief:* Reasoning from logics search for novelty in repeatable experiments validity, doubt acts as a next-steps decision-making cybernetics faith-inspiration compelling, inquirying until the fixation of a believable opinion according to its acquition procedure.
1.2.3. *Fixations:* Tenacity from desire, sensorial aesthesia, to inclinations of ideology; consented or not individual, relational, or institutional endoctrinational authority; a priori methodic prejudices; and scientific reviewing may fixate inspiration in a belief.

1.3. UNESCO's "World Heritage Safeguard":
1.3.1. *Laicity Faith-Inspiration:* Semiotics basing beliefs scientific verifiable reviewing, analyzing contrary proofs through doubts' creation of improved accountable new beliefs, allowed the interfaith-basement of dignified crosscultural diversity laic inclusivity.
1.3.2. *Humanitarian Diplomacy:* The history of laic belief from world logistics to charity bases the United Nations Sustainable Development Goals regenerative ecology economy as well as the peacebuilding faith-inspired-agents and interfaith-basement ecumenism.
1.3.3. *Cultural Heritage Safeguard:* As Umberto Eco's pragmatical approach to semiotics and Charles Sanders Peirce's laic-compliant faith-inspiration scientific-methodology UNESCO bases sustainable humanitarian heritage safeguard in crossculturality semiosis.

2. Cultural Reliability Engineering Cybernetics:

2.1. Cybernetic Semiotics's "Perceptual Culture Management":

2.1.1. *Lucia Santaella's "Perceptual Theory":* Stimuli subjective sensorial phenomenology basing environmental identitary signs historiographic sociopsychologic setting ecology signifies semiotics as an ontological categorial of mediated decision-making cybernetics.

2.1.2. *Abraham Moles's "Sociodynamics Of Scientific Creativity Culture":* From heuristics science's inventive method developed media technologies and their sociocultural juridics stablishing cybernetic bases for dignified inclusive accessibility solidary crossculturality.

2.1.3. *Buckminster Fuller's "Spaceship Earth Operating Manual":* Sociocybernetics bases world regenerativity praxis in Norbert Wiener's second-order iterative fractal recursivity, Marshall Mcluhan's semio-communicology, and Stafford Beer's management governance.

2.2. DevSecOps's "Collaborations Reliability Engineering":

2.2.1. *Programming Linguistics DevSecOps:* Computation roots in epistemology history, in technologies analogic-digital translation semiotics, as from acoustics to sound-sciences, stablished symbolic-numerical coding paradigms processing systems as a languages index.

2.2.2. *Open-Source Reliability Engineering:* Continuous integration trust deployment risk-managing, as Donna Haraway's "Cyborg Manifesto", of systems social consequences based cultural collaborative, as the GNU FLOSS and Open-Science manifestos, responses.

2.2.3. *GitHub's Version-Controlled Collaboration:* To foster startups businesses ecosystem the online integrated development environment is based on documents history archiving to allow ubiquitous collective editing and communitary features-request DevOps security.

2.3. Ecumenic Creative Operations' "Compliance Governance Art":

2.3.1. *Cultural Development Governance:* Applying semiotics's faith-based science logics to laic-compliant interfaith-basement cultural heritage safeguard and creative industry the enterprise develops open-source governance guidelines and cultural methodologies.

2.3.2. *Communitary Standards Compliance:* To base the ECO cultural collaborativity DevSecOps projects its community analyzes world compliance reliability methodologies from which a conduct code, collaboration guidelines, contract model are designed.

2.3.3. *Laic-Compliant Interfaith-Based Policymaking:* From this enterprise as artistry, semiotic cybernetics procedures were applied for an ecosystem agents curatorial analysis, an operatic ecomuseologic total-artscraft instructional program, and an ecoaesthethics.

3. Cultural Blockchain Semantics:

3.1. Cultural Blockchain's "Semiotic Cybernetics":

3.1.1. *Blockchain Semiotic Definition:* Undeleteable provenance and processes data signs distributed ledger indexes of coded information secured with hash cryptographic keys in archived step-by-step processing turing-completeness analytics protocols accountancy.

3.1.2. *Cryptocurrency Accountability Economy:* Based on the blockchain specificities, including its categorial ontology, vocabular corpora, and algorythmic syntax semantics, jurisprudential smart contracts processing are valued in yet other communitary ledgers.

3.1.3. *Traceability Protocol Computation:* Stamping of data's proof-of-work, net-routing, transaction timetables, agent signature, states transition, complex algorithm filtering, etc; networked certification processing computational dependencies are also valued in tokens.

3.2. W3C's "Big-Data Corpora Ontologic Semantic-Bockchain":

3.2.1. *World Standards Semantic-Web:* To stablish cultural databases accountable auditing requires the informatic computational and natural language processing semiolinguistics to structure global consensual dependencies merkle-tree compliance processes ontology.

3.2.2. *Vocabular Interoperability Ontology:* Semiosis playing vital role in GDPR policy, structure overall analytics ontologies as BFO, categorial syntax mechanics as STITCH, and their algorithmic computation of databases corpora in natural-language-processing.

3.2.3. *Big-Data Deep-Learning Semiotics:* These concepual ledgers require field analytics under proper recursive epistemic data-ethics in coherent representations aesthetically, as this blockchain-text asks for a Culturechain whitepaper (https://bit.do/culturechain).

3.3. Culturechain's "Laic-Compliant Interfaith-Based Data-Analysis":

3.3.1. *Ecologic Information-Science:* The ECO practical expertise based theoric research constitutes a thoroughly refined starting point for both ontologic and corpora databases for scientific-methodic heritage safeguard standards and applications to be developed.

3.3.2. *Ecumenic Data-Ethics:* Laic-compliant interfaith-inspiring cultural interoperability blockchain-secure open-source apps as semiolinguistic translators, logistics traceable P2P, inclusive social-network, reputation certifications, and more may be operationalized.

3.3.3. *Economic Data-Science:* Its ecosystem database analysis xAI has extense support opportunities, financial and technical, and it has proved know-how to legally institute its interfaith-based platform, services, and products through culturechain semiocurrency.

4. References:

4.1. Cultural Heritage Faith-Inspiration Semiotics References:
UMBERTO ECO. *"A Theory Of Semiotics"*. Indiana University Press, 1976.
CHARLES SANDERS PEIRCE. *"The Fixation of Belief"*.
Popular Science Monthly No.12 November pp.1-15, 1877.
(https://www.bocc.ubi.pt/pag/peirce-charles-fixation-belief.pdf)
ROBERT A. YELLE. *"Semiotics Of Religion: Signs Of The Sacred in History"*. A&C Black, 2012.
ALEX SCOTT. *"Christian Semiotics And The Language Of Faith"*. Iuniverse, 2007.
UNESCO. *"World Heritage Information Kit"*. UNESCO World Heritage Centre, 2005.
(http://orcp.hustoj.com/wp-content/uploads/2016/03/UNESCO-World-Heritage.pdf)
MARK MAZOWER. *"Governing The World: The History Of An Idea"*. Penguin Books, 2012.
BERRIDGE, G. K. *"Diplomacy: Theory And Practice"*. Palgrave Macmillan, 2010.
UNITED NATIONS. "S*ustainable Development Goals Knowledge Platform"*. United Nations Technology
Information Labs, 2019. (https://sustainabledevelopment.un.org/resourcelibrary)

4.2. Cultural Reliability Engineering Cybernetics References:
LUCIA SANTAELLA. *"Percepção: Fenomenologia, Ecologia, Semiótica"*. Cengage Learning, 2012.
ABRAHAM A. MOLES. *"La Création Scientifique"*. R. Kister, 1957.
ABRAHAM A. MOLES. *Sociodinâmica Da Cultura"*. Perspectiva, 1974.
R. BUCKMINSTER FULLER. *"Operating Manual For The Spaceship Earth"*. Simon And Schuster, 1969.
MARSHALL MCLUHAN. *"Misunderstanding The Media's Laws"*. Technology And Culture Journal Vol. 17
No. 2 April p.263, 1976.
STAFFORD BEER. *"Cybernetics And Management"*. English Universities Press p.150, 1959.
VEIT ERLMANN. *"Reason And Resonance: A History of Modern Aurality"*. Zone Press,2010.
BETSY BEYER, CHRIS JONES, JENNIFER PETOFF, NIALL RICHARD MURPHY. *"Site Reliability
Engineering: How Google Runs Production Systems"*. O'Reilly Media, 2016.
(https://landing.google.com/sre/sre-book/toc)
GITHUB. "Open Source Guides". GitHub, 2017. (https://opensource.guide)
TONY HSU. "Hands-On Security in DevOps". O'Reilly Media, 2018.
(https://www.oreilly.com/library/view/hands-on-security-in/9781788995504)
DONNA HARAWAY. *"A Cyborg Manifesto: Science, Technology, And Socialist-Feminism In The Late
Twentieth Century"*. Simians, Cyborgs And Women: The Reinvention Of Nature. Routledge, 1991.
RICHARD STALLMAN. *"The GNU Manifesto"*. Free Software Foundation, 1985.
(https://www.gnu.org/gnu/manifesto.en.html)
RICHARD STALLMAN. "*FLOSS And FOSS"*. Free Software Foundation, 2016.
(https://www.gnu.org/philosophy/floss-and-foss.en.html)
LESLIE CHAN, ANGELA OKUNE, REBECCA HILLYER, DENISSE ALBORNOZ, ALEJANDRO
POSADA. *"Contextualizing Openness: Situating Open Science"*. Open And Collaborative Science In
Development Network, 2018. (https://ocsdnet.org/manifesto/open-science-manifesto)
SCOTT CHACON, BEN STRAUB. *"Pro Git: Everything You Need To Know About Git"*. Software
Freedom Conservancy, 2019. (https://git-scm.com/book/en/v2)
GITHUB. *"Github Guides"*. GitHub, 2019. (https://guides.github.com)
GLOBAL INFORMATION SOCIETY WATCH (GISWatch). *"Global Information Society Watch"*.
GISWatch, 2019. (https://www.giswatch.org)
IBRAHIM HADDAD. *"Open Source Compliance In The Enterprise"*. Linux Foundation, 2019.
(https://www.linuxfoundation.org/compliance-and-security/2018/12/open-source-compliance-in-the-
enterprise)
USMAN W. CHOHAN. *"The Decentralized Autonomous Organization And Governance Issues"*. SSRN,
2017. (https://ssrn.com/abstract=3082055)
MARGARET CARRIGAN. *"A Crisis Of Faith: Is Big Data The Art World's New Religion?"*. The Art

Newspaper, 2019. (https://www.theartnewspaper.com/comment/a-crisis-of-faith-is-big-data-the-art-world-s-new-religion)

ECUMENIC CREATIVE OPERATIONS. *"Ecumenic Creative Operations Website"*. Ecumenic Creative Operations, 2018. (https://ecumenic.github.io)

ECUMENIC CREATIVE OPERATIONS. *"Ecumenic Creative Operations Enterprise Guidelines"*. Ecumenic Creative Operations, 2018. (https://github.com/ecumenic/project)

4.3. Cultural Blockchain Semantics DevSecOps References:

SATOSHI NAKAMOTO. *"Bitcoin: A Peer-to-Peer Electronic Cash System"*. Bitcoin.org, 2008. (https://bitcoin.org/bitcoin.pdf)

VITALIK BUTERIN. *"Ethereum Whitepaper"*. Ethereum, 2015. (https://github.com/ethereum/wiki/wiki/White-Paper)

MELANIE SWAN. *"Blockchain"*. O'Reilly Media, 2015. (https://www.oreilly.com/library/view/blockchain/9781491920480)

EUROPEAN UNION. *"General Data Protection Regulation"*. Portal Of The Publications Office Of The European Union, 2018 (https://eur-lex.europa.eu/eli/reg/2016/679/oj)

W3C. *"Semantic Web 3.0"*. Massachusset Institute Of Technology, 2015. (https://www.w3.org/standards/semanticweb)

ROBERT ARP, BARRY SMITH, ANDREW D. SPEAR. *"Basic Formal Ontology"*. Massachusset Institute Of Technologies, 2015. (http://basic-formal-ontology.org)

MARK JENSEN. *"United Nations Sustainable Development Goals Interface Ontology (SDGIO)"*. GitHub, 2016. (http://aims.fao.org/activity/blog/sustainable-development-goals-interface-ontology-sdgio-support-united-nations)

HAIYANG AI. *"Web-Based Corpora L2 Syntactical Complexity Analyzer"*. Haiyang AI, 2019. (https://aihaiyang.com/software/l2sca)

LOURENS VAN DER MEIJ. *"CATCH Vocabulary And Alignment Repository Demonstrator"*. Semantic Interoperability To Access Cultural Heritage, 2017. (https://www.cs.vu.nl/STITCH/repository)

MICHELE RUTA, FLORIANO SCIOSCIA, SAVERIO IEVA, GIOVANNA CAPURSO, AGNESE PINTO, EUGENIO DI SCIASCIO. *"A Blockchain Infrastructure For The Semantic Web Of Things"*. Polytechnic University of Bari, 2018. (http://ceur-ws.org/Vol-2161/paper6.pdf)

PERNILLE TRANBERG, GRY HASSELBALCH, BIRGITTE KOFOD OLSEN, CATRINE SONDERGAARD BYRNE. *"Data Ethics"*. ThinkDoTank, 2018. (https://dataethics.eu/data-ethics-principles)

UNESCO INSTITUTE FOR STATISTICS (UIS). *"UIS Theory Of Change"*. UIS, 2017. (http://uis.unesco.org/en/news/uis-theory-change)

TIRTHAJYOTI SARKAR. *"Google's New Explainable AI (xAI) Service"*. Towards Data-Science, 2019. (https://towardsdatascience.com/googles-new-explainable-ai-xai-service-83a7bc823773)

CASPER HANSEN. *"Optimizers Explained - Adam, Momentum And Stochastic Gradient Descent"*. Deep Learning. Machine Learning From Scratch, 2019. (https://mlfromscratch.com/optimizers-explained)

UNITED RELIGIONS INITIATIVE. *"Data Gathering And Narrative Based Impact Assessment Through Story Telling And Story Collection"*. Joint Learning Intiative For Faith & Communities (JLI), 2019. (https://jliflc.com/resources/data-gathering-narrative-based-impact-assessment-story-telling-story-collection/)

KERAS. *"Keras: The Python Deep Learning Library"*. Keras, 2019. (https://keras.io)

ECUMENIC CREATIVE OPERATIONS. *"Ecumenic Ecosystem"*. Ecumenic Creative Operations, 2018. (https://bit.do/ecumenic-ecosystem)

ECUMENIC CREATIVE OPERATIONS. *"Ecumenic Ecomuseology"*. Ecumenic Creative Operations, 2018. (https://bit.do/ecumenic-ecomuseology)

ECUMENIC CREATIVE OPERATIONS. *"Culturechain"*. Ecumenic Creative Operations, 2019. (https://bit.do/culturechain)