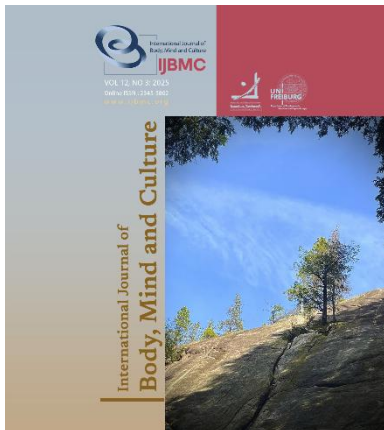


Article type:  
Editorial

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Article history:

Received 12 Dec 2024

Revised 10 Feb 2025

Accepted 14 Feb 2025

Published online 27 Mar 2025

How to cite this article:

Goli, F. (2025). Embracing Complexity: THE EMBEDDED WISDOM OF "AND". International Journal of Body, Mind and Culture, 12(3), 6-15.



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## Introduction: After the Duel of the Duals

*"Without Contraries is no Progression"*

— William Blake, The Marriage of Heaven and Hell

When discussing the various or opposing aspects of a phenomenon and the diverse emotions it evokes, we often use contrastive conjunctions such as "but," "in contrast," "contrary to," "unlike," and "opposed to", and also "or". We used to apply opposites to emphasize the differences between various aspects, perspectives, emotions, and relationships. However, before any

# Embracing Complexity: The Embedded Wisdom of "AND"

Farzad. Goli<sup>1\*</sup>

## ABSTRACT

This perspective paper explores the transformative potentials of the conjunction "and" as a linguistic, metacognitive, and noetic tool for fostering integrity, mindfulness, and emotional regulation. While contrastive conjunctions like "but" emphasize opposition and division, "and" reveal the coexistence of diverse emotions, perspectives, and attributions, promoting neutrality, inclusivity, and coherence in narratives. The essay aims to provide insights into the role of "and" in enhancing cognitive flexibility, emotional resilience, and relational Synergy, drawing from psycholinguistics, neurocognition, and spirituality. The pragmatics of speech within the Bioenergy Economy-based Health Improvement (BEHI) approach, with 'AndWork' as one of its techniques, are introduced as practical applications, demonstrating how 'and' can reconstruct self-narratives and foster multi-perspective awareness. This integrative approach underscores the importance of "and" in tolerating complexity and diversity, and promoting a nondual worldview.

**Keywords:** Biosemiotics, Pragmatics, Narrative, psychological Flexibility, Psycholinguistics, Behavioral Economy, Interpersonal Neurobiology.

perspective taking, these elements coexist within a phenomenon and may have cooperative and competitive roles that depend on the context.

Contrastive conjunctions, such as "but," "however," and "yet," play a pivotal role in language and cognition. Highlighting the contrasts that reflect two distinct approaches: one that emphasizes conflict and another that emphasizes integration and synthesis. In a conflict-oriented approach, these conjunctions highlight opposition and reinforce binary thinking. For example,

using "but" to negate or diminish the first clause ("I appreciate your effort, but this is not good enough") can create tension and inhibit collaboration (Winter & Rimon, 1994). This approach centers on differences without seeking resolution, which may limit cognitive and communicative progress.

Using the contrastive conjunctions in an integrative approach may lead to a generative transition toward a new synthesis and creativity. Applying adversative conjunctions, in this manner, emphasizes contrasts and can help teachers structure lessons and highlight key differences, aiding student comprehension (Fabri, 2005). For instance, "however" can acknowledge differences while moving toward a broader, more inclusive perspective; for example, "This approach has limitations; however, it opens new possibilities". This aligns with dialectical approaches in philosophy and psychology that opposites are essential for synthesis, evolution, and understanding (Dicataldo, 2023). Thus, contrastive conjunctions may enhance narrative comprehension and cognitive flexibility by exploring contradictory ideas about an object (Song, 2021). So, contrast conjunctions are not the evil of this story. I only emphasize that we overuse and misuse the contrasts and contraries, and they may create division, and unresolvable conflicts, while another approach can facilitate synthesis, fostering intellectual growth, constructive dialogues and also synergetic systems.

After the second year of life, our brains begin to integrate semantic and episodic memories into what we call autobiographical memory. We name events and articulate them to create a meaningful story that connects objects and ties them to the presumptive subject, "I" (McAdams, 2001; Siegel, 2001). Our temperament, attachment to our parents, and the cultural discourses we grow up with shape our initial storytelling style and how we assemble and conceptualize information from external perception, feel it internally, and approach it through our proprioception (Goli, 2022; Siegel, 2001).

We use language in a transformational and generative way (Chomsky, 2014). Each culture and subculture constructs its language. It becomes evident that even each person gradually develops his or her personal semantics by learning how to combine experiences and make meaning from them (Renoult et al., 2012).

Over the past twenty years of clinical practice, I have been developing an integral care model known as Bioenergy Economy-Based Health Improvement (BEHI). The core principles of this model are "whole-body experience" and "nondual narrative." Having worked with thousands of clients and public and professional participants, along with conducting numerous clinical trials and case studies on the BEHI program, I strongly believe that these principles can enhance our behavior and experiences by top-down organizing our bodies and phenomenological worlds. Wholeness and nonduality can integrate energy-information flows and optimize our energy investments through a more secure body, less biased attention, and a more coherent narrative. BEHI presents methods to extend bodily awareness from grounding and centering to engaging and transcending levels, encompassing body, narrative, relationship, and intention economy (Goli, 2018, 2025).

One technique used in the narrative economy and pragmatics of speech is "AndWork," or the And exercise. In this method, participants use "and" instead of contrastive conjunctions like "but" when expressing their diverse emotions, attitudes, values, and attributions. According to this technique, even when the mind is conditioned and fixed in a particular emotion or attitude toward an object, the felt feeling is acknowledged as just one of the reactions to the current attitude. This is then prompted further by an interrogative "and" or "yes...and?" to evoke other attitudes and emotions (Goli, 2025). "AndWork" is applied in both interpersonal and transpersonal domains, encompassing self-narratives, verbal communication, and applicable as a transpersonal cue or mantra for contemplative and mindful meditation practices.

When individuals revisit a painful story or a complex, difficult relationship, they often attempt to articulate their emotions and relationships using the word "and". This subtle shift can lead to such a profound change in their feelings and expressions that they may find themselves surprised or even skeptical about how easily our emotions and attitudes can be reconstructed.

To an observer, this transformation may be equally confusing. Initially, they might feel that expressing everything inclusively and neutrally with "and," free from biases or opposition, leaves a gap or feels incomplete. However, this process can also lead to an

enlightening aha moment, sparking the realization, “Are we the ones creating our confusion or distress?”

In my practice with hundreds of clients, I have observed that many of them, when expressing emotions and explaining relationships, after replacing "but" and other contrastive conjunctions with "and", often experience greater harmony within their intrapersonal and interpersonal relationships. Timely use of "and" offers a powerful framework for enhancing self and others' compassion and cooperation, promoting inclusivity and cohesion by integrating various perspectives, emotions, and relational dynamics.

This essay explores the potential benefits of the mindful application of "and" in thought and talk, emphasizing its ability to foster cognitive flexibility and a nondual worldview. By examining the nonduality encouraged by "and," in contrast to the divisiveness of "but", we draw insights from cognitive psychology, neuroscience, literary reflections, and language comprehension. These insights can serve as a research map for further experimental and clinical studies to examine this hypothesis.

### Dimensions of “And” Functioning

I speculate that the emotional and behavioral changes resulting from using "and" in expression and explanation have psycholinguistic, neuroscientific, affect-regulating, noetic, mindful, and biosemiotic dimensions. In this section, I will briefly introduce these aspects before exploring some of them in more detail in the following paragraphs.

"And" functions as a neutral conjunction that highlights the coexistence of objects, different aspects and responses to an object, and various perspectives and functions of an object across contexts. This use of "and" promotes a descriptive approach and cohere discourses and facilitates both synchronic and diachronic views of phenomena.

Considering the diachronicity of phenomena reveals patterns while observing their synchronicity unveils structures (Cowley, 2014). These complementary approaches offer a more integrative and systemic view.

Language plays a crucial role in shaping emotional experiences by influencing how people interpret their feelings. When individuals label their emotions with specific linguistic terms (affect labeling) or reframe their

feelings using a different language (reappraisal), it can aid in emotion regulation. Though there is ongoing debate about whether the processes of emotion regulation and generation involve the same mechanisms, some early studies suggest that the neural pathways for experiencing and regulating emotions may overlap (Gross & Feldman Barrett, 2011; Ochsner et al., 2012). Additionally, alternative interpretations within the affect literature on labeling, articulating, and narrating align with the psychological constructionist perspective. It is conceivable that "and" can enhance awareness of diverse affects and help construct and narrate emotions more inclusively and descriptively.

From an existential viewpoint, "and" emphasizes the coexistence of phenomena rather than their valence and interactions. The pragmatic interpretations of "and" in non-narrative contexts, focusing on how it communicates relationships between conjuncts beyond temporal sequencing (Blakemore & Carston, 1999), causa, and hierarchical valences. This neutral language may foster a more suitable cognitive and emotional state for nonjudgmental awareness in mindfulness practice. Using nonjudgmental language facilitates a more open and accepting mindset and more cognitive flexibility. Articulating our statements with “and” and letting the ideas and emotions be as they are, aligns with the practice of mindfulness, where awareness is encouraged without the interference of evaluative thoughts (Kabat-Zinn, 2015).

### Neurocognitive Possibilities of “And”

The conjunction "and" plays a pivotal role in language, enabling the integration of complex emotional and cognitive states. Neuroscientific evidence suggests that its use engages specific brain regions and aligns with principles of the 4E model of cognition; embodied, enacted, and extended cognition, offering a framework for understanding its function in emotional regulation, narrative coherence, and adaptive thinking (Menary, 2010).

Furthermore, the relevance-theoretic pragmatics of "and" reveals its role in preserving truth-functionality while allowing for enriched interpretations in context that can promote cognitive flexibility (Carston, 2002).

- *Neural Mechanisms Underpinning “And”*

The left inferior frontal gyrus (LIFG) and left posterior middle temporal gyrus (pMTG) are critically correlated regions in processing linguistic and semantic complexity. The LIFG supports syntactic integration, integrating multiple elements into a coherent structure, while the pMTG facilitates semantic retrieval and contextual understanding. Simultaneous activation of these regions enables the synthesis of seemingly contradictory emotions or perspectives, such as in the statement, "I feel anxious, and I am hopeful." These neural activities may foster emotional balance and coherence by integrating diverse emotional states into a unified narrative (Chow et al., 2014).

Neuroimaging studies further reveal that emotional acceptance deactivates the posterior cingulate cortex, a brain region linked to self-referential processing, thereby promoting a state of calm and reducing emotional reactivity (Messina, 2021).

- *Embodied and Enacted Dimensions of "And"*

From an embodied cognition perspective, language is deeply rooted in the bodily interactions with the world (Varela et al., 1991). The image schemata or initial sensory-motor schemas are the basic models of the self and world that metaphorically extend to the more abstract objects (Lakoff & Johnson, 2008). The symbolic world can be considered an arbitrary extension and emergence of the sensory-motor attractors.

Using of "and" may engage the neural systems that integrate sensory, motor, and emotional inputs, and put less pressure on the body. It seems that "Andwork" can align the energy-information flows both in the intrapersonal and interpersonal realms of semiosis. Additionally, by employing "and," individuals can enact a more inclusive and adaptive approach to articulating emotions and relationships, fostering resilience and emotional regulation. Lesser use of contrastive conjunctions may provoke lesser free energy and distress (Friston, 2010).

- *Cognitive Flexibility and Adaptive Thinking*

Many studies support the role of language reframing in fostering cognitive flexibility, adaptive thinking, and emotion regulation (Bybee, 2013). Their findings can be used to explain how language reframing enhances problem-solving and decision-making processes by allowing individuals to hold and integrate multiple perspectives simultaneously and more effectively regulate emotions. This aligns with the broader view that

language serves as a critical tool for navigating complex emotional and cognitive landscapes.

- *Language as a Neural Integrator*

Daniel Siegel (2012), in the interpersonal neurobiology model, highlights that complex linguistic activities stimulate connections between brain regions, enhancing cognitive flexibility, memory, and emotional regulation (Siegel, 2001). The method we use to articulate the events in our autobiographical memory can alter our narrative and the structure of our self. Applying "and" in the cognitive, emotional, and relational processing of our experiences exemplifies this integrative function, as it requires the coordination of multiple neural systems to reconcile and cohere multifaceted intentional states.

Furthermore, "and" can provide a simple and immediate shift from one phenomenon to the other. This switching from an intentional state to others and giving voice to different drives and intentions in ourselves and with others can be considered similar to the cognitive advantages of bilingualism (see, Bialystok 2011). Many studies demonstrate that individuals who manage multiple linguistic structures exhibit enhanced executive control and neuroplasticity. This constant practice of switching between languages is comparable to the cognitive demands of integrating diverse cognitive and emotional states using "and," further expanding cognitive resources and flexibility (Gunnerud et al., 2020).

- *Fuzzy Logic and Cognitive Flexibility*

Fuzzy logic challenges the classical axiom of "A or not A" by introducing the possibility of "A and not A" (Kosko & Toms, 1994). This means there is no pure A or not A, but everything contains blended qualities of "A and not A". This mindset provides a powerful framework for handling uncertainty, complexity, and ambiguity in both the cyber world and real-world contexts. By allowing the coexistence of seemingly contradictory states, such as "A and not A," fuzzy logic elaborates cognitive processing and flexibility. Fuzzy thinking can be considered a cognitive therapy that can moderate cognitive distortions such as All-or-nothing thinking, overgeneralization, and splitting. Furthermore, Fuzzy logic trains our brain to adapt our expectations to the fuzzy nature of the phenomena and nurtures tolerance to the natural obscurity of reality. This approach is particularly valuable in emotional regulation and narrative construction, where it enables individuals to

embrace complexity and articulate nuanced perspectives, such as feeling both anxious and hopeful. The principles of fuzzy logic align with the cognitive demands of using "and" in language, promoting adaptive and flexible thought processes (Hagras & Wagner, 2012; Hardy, 1994).

### Reconstructing the Self Through Language and Culture

Zhang and Kender (2012) show that replacing "but" with "and" can foster a more positive and inclusive dialogue, reducing defensiveness and promoting collaboration. Applying "and" versus "but" in therapy and self-narratives can play a critical role in shaping outcomes by influencing how individuals perceive and integrate their experiences (Zhang & Kender, 2012).

The conjunction "and" facilitates inclusivity and coherence, allowing clients to acknowledge and become aware of their diverse emotions or perspectives. For example, saying, "I feel hurt, and I understand your perspective," validates both feelings, creating space for empathy and mutual understanding. This linguistic approach aligns with therapies like Acceptance and Commitment Therapy (ACT), which emphasize embracing the full spectrum of experiences, and Relational Frame Theory (RFT), which highlights the importance of relational contexts in language and cognition (Gernsbacher, 1997, 2013; Hayes et al., 1999). We should recognize that the use of conjunctions can serve different functions across various cultural and social contexts, including educational, medical, political, and organizational settings.

Cultural differences profoundly shape how conjunctions like "and" and "but" are used in communication, reflecting distinct discourse styles and social norms. In high-context cultures, such as East Asian societies, communication tends to be indirect (Hall, 1990). They prefer conjunctions like "and" often implying relationships without explicitly stating contrasts. Conversely, low-context cultures, such as those in Western societies, favor direct communication, frequently using "but" to highlight contrasts or disagreements (Hooker, 2012). These differences are rooted in the broader cultural dimensions, such as individual versus collective self-concepts. Collectivist cultures may prefer "and" to emphasize group cohesion, while individualist cultures often use "but" to assert

individuality and personal opinions or distinctions (Guang & Trotter, 2012). Additionally, cultures that prioritize politeness and face-saving, like many in Asia, may avoid direct contrastive conjunctions to maintain harmony, opting for softer alternatives (Yang et al., 2010).

These variations can lead to misunderstandings in intercultural communication, as the interpretation of conjunctions differs across cultural contexts. For instance, "but" might be perceived as overly critical in some cultures while considered neutral in others. Understanding these nuances is crucial in globalized settings, as it helps navigate communication styles and fosters mutual understanding. High-context cultures rely on implicit messages and shared knowledge, while low-context cultures prioritize explicit, direct communication, making awareness of these dynamics essential for effective cross-cultural interaction (Jonasson & Lauring, 2012).

Anyhow, "but", despite its clarifying function and beyond cultural differences, can introduce a sense of contradiction or negation, which can fragment narratives and hinder emotional processing. For instance, when we say: "I feel hurt, but I understand your perspective" may unintentionally diminish the speaker's feelings, creating internal conflict or resistance. This framing can disrupt the therapeutic alliance and impede progress, as it limits the integration of complex emotions and experiences (Emmanuella, 2024).

As we mentioned before, the pragmatics and semantics of conjunctions have a role in constructing autobiographical memory and sense of self. Cognitive psychology and structure-building theories suggest that "and" can facilitate the integration of diverse personal experiences, enabling the construction of a cohesive self-narrative. This seamless integration enhances memory retention and retrieval, as interconnected information becomes more accessible within cognitive frameworks. In contrast, "but" may disrupt the narrative flow, leading to fragmented self-perceptions (Gernsbacher, 1997, 2013).

This flexibility enhances the relational aspect of language, as Relational Frame Theory (RFT) suggests that how we frame our experiences can significantly impact our emotional responses. We discussed that the function of concepts relates to relations between concepts that in turn depend on embedded bodily,

personal, social, and cultural contexts. By integrating these principles, speakers can reduce misunderstandings, enhance autobiographical memory and self-coherence, and support healthier, more empathetic communication in therapy and interpersonal relationships (Hayes et al., 2001).

### Synchronizing the Polar Emotions

*"I am in love with both the kindness and the wrath of my beloved,*

*How strange it is that I am enamored with these two opposites!"*

-Rumi, Mathnavi Ma'navi

Emotions are inherently complex and often contradictory, and require nuanced approaches to nurture resilience and emotional well-being. We explored how the conjunction "and" can permit the simultaneous acknowledgment of multifaceted emotions, promoting acceptance and narrative coherence. For instance, saying, "I feel sad for my illness, and I am grateful for the support I have", validates both emotions without negating either, and fosters a sense of balance and coherence. This aligns with Linehan's (1993) work in Dialectical Behavior Therapy (DBT), which emphasizes the importance of embracing conflicting emotions in a common framework to enhance emotional regulation and mental health (Linehan, 1993).

Acknowledge diverse emotions and acceptance have a critical role in emotional regulation, a process facilitated by the inclusive nature of "and." Emotional acceptance, as highlighted by Rompilla (2021), is associated with greater perceptions of success and motivation in regulating emotions, particularly in older adults (Rompilla, 2021). Acceptance strategies allow individuals to experience emotions without judgment, reducing anxiety and depressive symptoms (Rompilla, 2021, 2023).

The use of "and" also facilitates openness, curiosity, and awe- emotions that are critical for adaptive emotional regulation. Awe, for example, has been shown to enhance cognitive complexity and promote a sense of interconnectedness, persuading individuals to explore and integrate new perspectives (Darbor, 2016; Jones, 2022). By framing experiences inclusively, "and" supports the epistemic function of awe, motivating nonjudgmental and explanation-seeking, and fostering a deeper engagement with the world.

Moreover, mindfulness-based approaches that emphasize openness and acceptance demonstrate how "and" can enhance emotional regulation. Mindfulness training improves attentional mechanisms such as curiosity, neutrality, and acceptance, that are essential for reappraising emotions and reducing stress (Drigas & Karyotaki, 2018). Reciprocally, emotional acceptance, facilitated by inclusive language, buffers the impact of low executive functioning on mental health, highlighting its protective role in emotional resilience (Rompilla, 2023).

### Nondual Relationship and Nonviolent Communication

*"The apple tree never asks the beech how he shall grow, nor the lion, the horse, how he shall take his prey."*

— William Blake, The Marriage of Heaven and Hell

Nonduality emphasizes existential unity and communicative integrity beyond binary distinctions, and the conjunction "and" embodies this principle by multifaceted representation of seemingly contradictory ideas. "And" simultaneously makes non-judgmental distinctions and non-rejective distances between different values, roles, and perspectives while exploring our existential and systemic connections. The nondual mindset integrates both ends of a spectrum of dual values, fostering a comprehensive understanding that transcends dichotomies (Davis, 2011; Wilber, 2007).

The BEHI approach incorporates pleasure-virtue and self-other nonduality as key strategies in narrative and relational economics. Enhancing bioenergy flows and mindfully adjusting interpersonal interactions promotes narrative and communicative flexibility, releasing blockages and facilitating synergy (Goli, 2025).

"And" can play a pivotal role in reducing social distress by reframing differences as potentially complementary rather than oppositional. As we reviewed, using "and" instead of contrastive conjunctions can reduce the perception of a threat to personal identity or boundaries, fostering a sense of security and openness. This linguistic shift can encourage collaborative dialogue, allowing individuals to address differences constructively without escalating tension (Lewis & Manusov, 2009). It also facilitates perspective-taking and joint problem-solving, which are associated with higher relational satisfaction and reduced distress (Carlson et al., 2025).

Martin Buber, in his classic book, "I and Thou", explores the dyadic structure of self and relational identity. He criticizes our fixation in the I-It relationship in which we want to attach others to our ego, while the I "and" Thou state fosters mutual understanding and compassion, highlighting the interstitial role of "and" in relational awareness (Buber et al., 1958; Margulies, 2023).

Acknowledge our existential connections and embedded "and"s that connect us in ecological, social, and existential contexts can moderate our instrumental rationality and evolve our communicative rationality (Habermas, 1984). This paradigm narrative and communicative shift can inhibit our violence and aggressiveness. Marshall Rosenberg's Nonviolent Communication (NVC) provides a practical application of these principles. NVC emphasizes the transparent expression of feelings and needs, promoting understanding and collaboration, reducing relational distress and fostering empathy and cooperation (Rosenberg, 2003; Tankha et al., 2020). In my clinical practice, using and emphasizing the "and" in applying NVC facilitates taking multiple perspectives and accepting self-other diverse emotions.

### And, the Spiritual Dimension

The conjunction "and" implicates profound significance in spiritual, philosophical, and psycholinguistic contexts, symbolizing unity, integration, and the transcendence of dualities. It serves as a bridge that unites opposites, fostering holistic and transformative thinking.

In spiritual traditions, "and" reflects the interconnectedness of all things and the dissolution of binary oppositions. For instance, in Advaita Vedānta and Zen Buddhism, "and" signifies the unity of apparent opposites, such as "self" and "other", or subject and object. These traditions teach that ultimate reality transcends dualities, leading to the realization of oneness, as seen in the Advaita principle that Atman (self) and Brahman (ultimate reality) are one (Nath, 2024; Malkovsky, 1999). In Hindu Vaiṣṇavism and Christian theology, "and" symbolizes the interdependence of contrasts, such as joy and suffering or good and evil, reflecting divine unity (Sydnor, 2018).

The Daoist concept of yin and yang also embodies complementarity and the interdependent nature of opposites, creating harmony (Brazal, 2019).

The concept of "*tawhid*", in Islam, (oneness of God) integrates spiritual, social, and moral realms, emphasizing unity in diversity. The Islamic mysticism "and" here connects various aspects of life, fostering a holistic existence (Altareb, 1996). In the Hagia Sophia Mosque, a large "و" (Arabic for "and") is prominently drawn just beneath the dome, symbolizing the unity between earth and heaven. In Sufi traditions, "and" also is the code for the connections of individuals beyond cultural and spiritual diversities, symbolizing unity through shared spiritual experiences (Sheikh, 2023).

Thus, linguistic changes, like mindful use of "and," beyond enhancing cognitive flexibility, can facilitate the integration of conflicting ideas into coherent wholes (Ellis, 2019). Therefore, "and" transcends its grammatical role, symbolizing integration, wholeness, nonduality, and the spiritual journey toward unity. It can be considered a cue to embrace complexity, diversity, and interconnectedness, fostering a holistic and transformative worldview.

### Conclusion

Contrastive conjunctions like "but" may promote clarity and individuality but are also prone to fostering self-criticism, rejection, and unnecessary opposition. In contrast, the conjunction "and" offers cognitive and pragmatic benefits that can enhance emotion regulation, psychological flexibility, mindfulness, narrative coherence, communicative synergy, and transpersonal experiences.

In this context, I have explored and speculated on the therapeutic and pedagogical potentials of "and," particularly through the "AndWork" technique within the Bioenergy Economy-based Health Improvement (BEHI) model. "AndWork" emphasizes the intentional use of "and" in self-narratives and interpersonal communication, as well as its application as a mantra symbolizing our existential and transpersonal connection to ourselves, others, and the world. This technique enables individuals to hold space for multiple realities and emotional states, such as joy and sorrow or strength and vulnerability, fostering a more integrative and holistic perspective.

The customized use of conjunctions involves pragmatic and context-based considerations, including cultural variations that may lead to misunderstandings in intercultural communication, as the interpretation of conjunctions often varies across social and cultural contexts.

Ultimately, "and" is more than a mere conjunction; It can function as a symbol of integration, wholeness, and transformation. It encourages us to embrace the richness of life's paradoxes, discover unity in diversity, and nurture a holistic worldview that respects the interconnectedness of all existence. Through "AndWork", "and" may reveal its embedded wisdom and be considered a guiding principle for personal and collective growth, fostering a more inclusive, compassionate, and harmonious lifeworld.

### Acknowledgments

I extend my sincere gratitude to my wife, Mahboubeh Farzanegan, for her valuable review and insightful comments.

### Declaration of Interest

The author of this article declared no conflict of interest.

### Ethical Considerations

Not applicable.

### Transparency of Data

In accordance with the principles of transparency and open research, we declare that all data and materials used in this study are available upon request.

### Funding

This research was carried out independently with personal funding and without the financial support of any governmental or private institution or organization.

### Authors' Contributions

All authors equally contributed to this study.

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