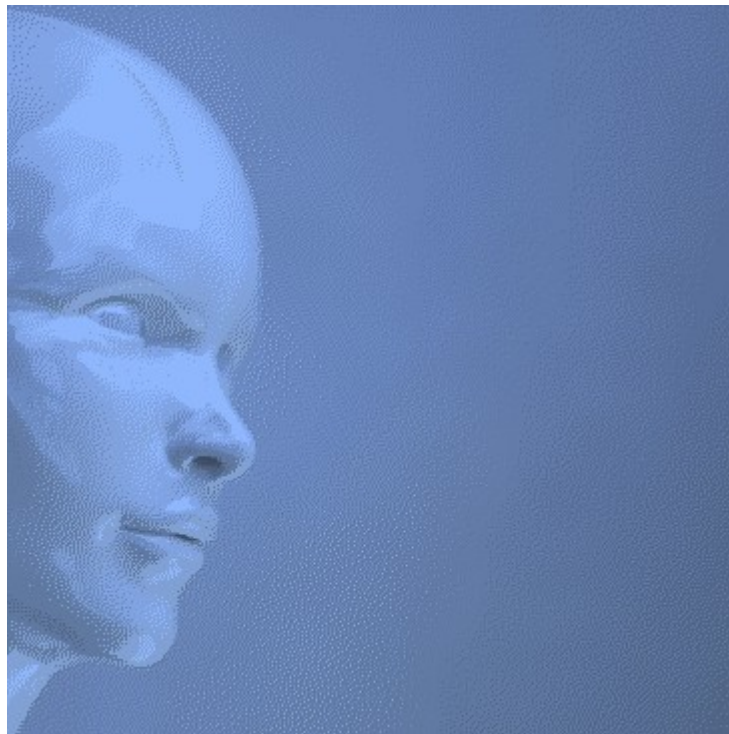


The Logic of Language

Automated reasoning based on the Laws of Intelligence
naturally embedded in the Human Language



Whoever studies nature — studies God's creation.

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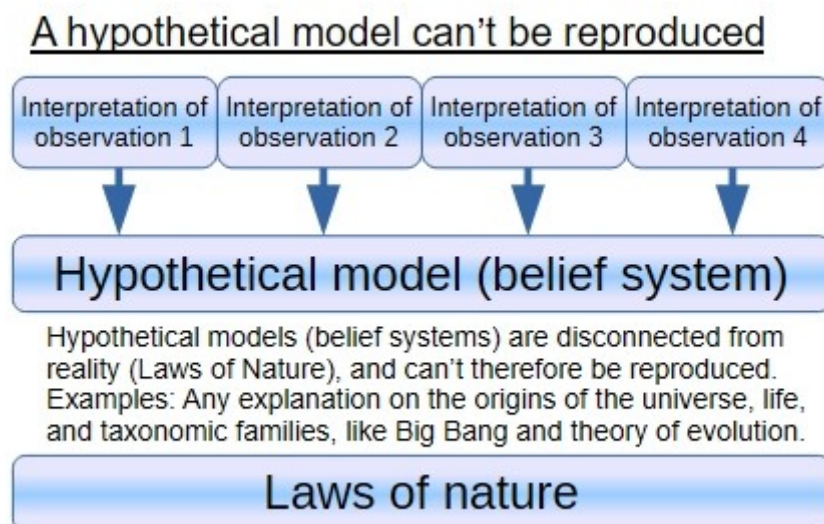
Introduction

Science is concerned with natural phenomena that can be observed, replicated, tested, and potentially falsified. Belief, by contrast, deals with phenomena that are unobserved, untestable, non-replicable, or unfalsifiable.

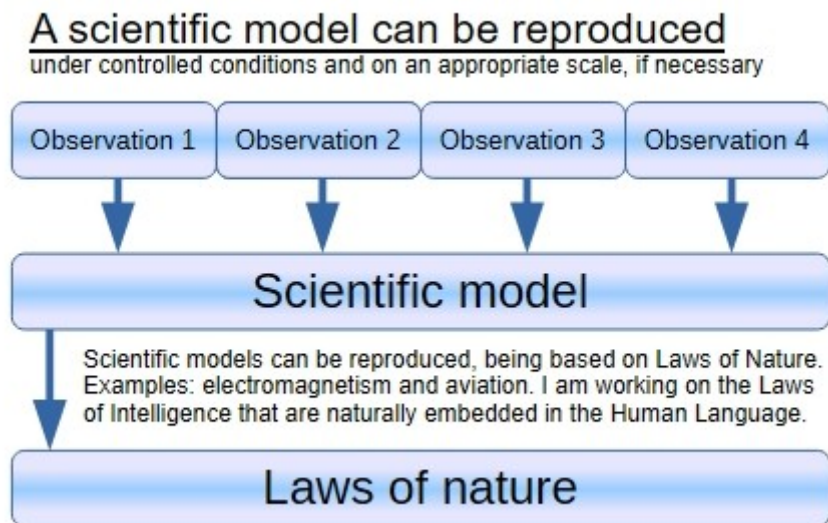
The origins of the universe, life, [taxonomic families](#), natural intelligence, and the human language have never been directly observed — let alone replicated, tested, or falsified. Consequently, claims about these origins are not scientific conclusions but belief systems — unless and until the phenomena themselves can be reproduced under controlled conditions and on an appropriate scale, if necessary.

Without such replication, these models remain outside the domain of verifiable science.

Some historical events cannot be replicated, while others can. It is braver to acknowledge that we cannot replicate the origin of energy, matter, the universe, life, and all kinds of life forms than to invent hypothetical models that also cannot do so, while imposing this fabricated belief system—namely [philosophical naturalism](#)—on society, including vulnerable youth.



Unlike other origins, the unrevealed properties of intelligence and language may be accessible to replication under controlled conditions, by examining the underlying laws of nature.



This document explores how natural intelligence and the human language can be replicated in software by identifying and applying the Laws of Intelligence naturally embedded in the Human Language.

Disclaimer: To scientists, natural intelligence may be synonymous with consciousness (and free will). This document is limited to the logic inherent in nature—particularly the logic inherent in human language.

1. Fundamental science

This document proposes a fundamental—scientific—approach towards a profound understanding of natural intelligence and natural language based on the Laws of Nature.

1.1. *Fundamental truth*

There is only one truth in [fundamental science](#): **the way nature works**.

Nature operates in a single, definite order, governed by natural laws. Those who investigate these laws and uncover how nature truly works will find their discoveries confirmed under controlled conditions — and, in time, applied to everyday life. In this way, taxpayers will have a Return on Investment in their funding of science.

1.2. *Fundamental sciences are closing the circle*

We perceive nothing other than natural phenomena obeying the Laws of Nature, and proceeding according to the Laws of Nature. And we perceive nothing other than natural phenomena closing the circle, as illustrated by the following example of electromagnetism.

The field of [electromagnetism](#) is a [fundamental science](#) because it closes the circle:

- We can convert light to electricity, and we can convert electricity back to light;
- We can convert motion—via magnetism—to electricity, and convert electricity—via magnetism—back to motion.

1.2.1. Cognitive science

The field of [Artificial Intelligence](#) (AI) and [Natural Language Processing](#) (NLP)—in a broad sense—is mainly studied from the perspective of [behavioral/cognitive science](#), resulting in mimicry of behavior. However, mimicking the behavior of a hen (chicken) does not produce eggs. AI is therefore not naturally intelligent, but the result of human ingenuity.

AI may deliver useful engineered techniques. But humans are the only intelligent actor in AI.

1.2.1.1. AI / NLP is unable to close the circle

As a consequence of being investigated from the perspective of [cognitive science](#), the field of AI / NLP is unable to close the circle on natural intelligence and natural language:

- From readable sentences,
- through natural logic (natural intelligence),
- with the result expressed in readable — word-by-word constructed — sentences again.

Illustrated by an example:

In primary school we all learned a similar sum, given:

- “John has 3 apples.”
- “Peter has 4 apples.”

The school teacher then wrote:

- $3 \text{ apples} + 4 \text{ apples} = 7 \text{ apples}$

However, the result of the sum — “7 apples” — lacks the reference to “John and Peter”. So, the result of this sum is insufficient to construct the following readable sentence:

- “John and Peter have 7 apples together.”

Hopefully, mathematicians will come to the rescue, by closing the circle scientifically:

- $J = 3$
- $P = 4$
- $J + P = 7$

Unfortunately, the mathematical result “ $J + P = 7$ ” lacks the reference to “apples”. So, also the result of the algebra is insufficient to automatically construct readable sentence:

- “John and Peter have 7 apples together.”

Lacking a generic solution, it would require either human interaction, or an engineered solution—a specific solution to a specific problem. Therefore, AI / NLP is not a science, but a field of engineering.

This is just one example of my [scientific challenge](#). A generic solution to this particular example is described in [Block 3](#).

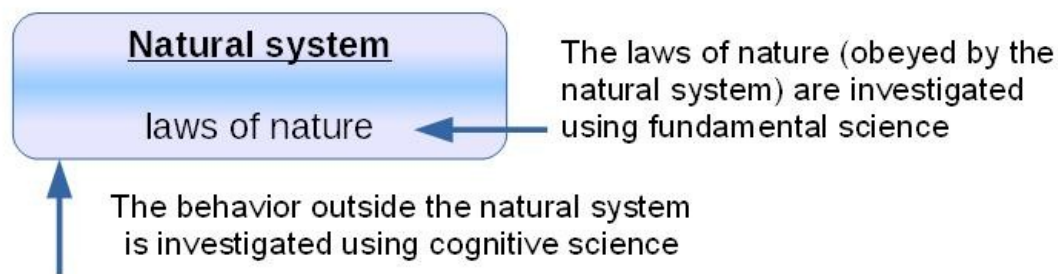
It may seem like [Large Language Models](#) (LLMs) can solve reasoning problems. However, LLMs only have a limited, engineered reasoning capability. When reasoning problems are combined, LLMs will start to lose context.

Besides that, AI / NLP is lacking self-organising properties, while our brains do not need help of experts to get their knowledge organised.

1.2.2. Fundamental science investigates Logic and Laws of Nature

Intelligence and language are natural phenomena. To close the circle on natural intelligence and natural language, we need to investigate these natural phenomena from the perspective of fundamental science—also known as [Basic Research](#)—which investigates Logic and Laws of Nature.

To illustrate the difference with [cognitive science](#):



1.3. Pitfalls

I noticed a few cases of misunderstanding, which will be addressed in the following paragraphs.

1.3.1. Self-organisation (misunderstood)

Self-organisation is often misunderstood. The following [‘scientific’ paper](#) states:

“Self-organisation refers to a broad range of pattern-formation processes in both physical and biological systems”.

However, in this paper, no distinction is made between a **static** ‘organisation’—which is limited to pattern formation—and a **dynamic** organisation, which requires Natural intelligence.

Distinction:

- **Natural pattern formation**—such as fractals and the formation of snowflakes—is a static process, based on rules (fractals) or the Laws of Nature (formation of snowflakes);
- **Swarming of birds** is a dynamic, temporary process, based on the bird’s instinct. Instinct is an innate mechanism of survival. In case of no danger, swarming is practiced as an emergency drill, while it improves bonding;
- **Self-organisation** is a dynamic, continuous process. It is a result of natural intelligence;
- Any other **organisation**—such as a company or a pack of wolves—is a dynamic, continuous process of multiple intelligent actors.

So, (self-)organisation is a result of natural intelligence rather than being the origin.

1.3.2. Neurons, intelligence, and learning

Many scientists believe that intelligence evolved in brains over a long period of time. But I know that neurons are not essential to intelligence — just as feathers and flapping wings are not essential to flight.

Learning requires natural intelligence. Yet scientists have no clear understanding of what Natural intelligence actually is. Therefore, what we call "[Machine Learning](#)" cannot learn.

[Artificial neural networks](#) (ANNs) illustrate my father's advice: "[Don't become a monkey trained to perform a trick](#)". ANNs, much like the trained monkey, rely on imitation and repetition. Their abilities are therefore restricted to [pattern recognition](#) and [pattern generation](#), without comprehension.

The intelligence of [Large Language Models](#) (LLMs) stems not from the complexity of their neural networks, but from the logic naturally embedded in the human-written texts they are trained on.

Some, however, attribute LLM's capabilities to emergent properties arising from neural complexity rather than the logical structures within human language. Consequently, they struggle to develop a system like mine—which is grounded in the Laws of Intelligence naturally embedded in the Human Language.

1.3.3. Overwhelming evidence... (Santa Claus)

Some people claim there is "overwhelming evidence" for (any variant of) the [Evolutionary hypothesis of Common Descent](#). However, by being selective—by ignoring disconfirming facts—one can also claim there is "overwhelming evidence" for Santa Claus too:

- Advertisements will forecast his coming ([predictive power](#));
- then he appears everywhere at once. So, one can meet him in person;
- if one posts/emails/texts/apps a message, one will get a response;
- his address is known: North Pole 1;
- and presents are given.

But we all know: Santa Claus is just a [make-believe](#). In the same way, the "overwhelming evidence" for (any variant of) the Evolutionary hypothesis of Common Descent is just selective—ignoring disconfirming facts—and is therefore unscientific.

A [make-believe](#) starts by ignoring disconfirming facts. And a religion starts when this make-believe is actively spread. [Philosophical naturalists](#) are actively spreading their religion.

1.3.4. Boundaries of evolution

We perceive nothing other than boundaries of evolution — as [taxonomic families](#):

- Viruses only produce viruses;
- Bacteria only produce bacteria;
- Fungi only produce fungi;
- Plants only produce plants;
- Insects only produce insects;
- Fish only produce fish;
- Birds only produce birds;
- Monkeys only produce monkeys;
- And humans sometimes produce pigs.

1.3.5. Science-washing

Science is concerned with natural phenomena that can be observed, replicated, tested, and potentially falsified.

[Philosophical naturalists](#) employ a subtle shift in this regard: they move the focus from the natural phenomena themselves to their hypothetical models concerning the origins of the universe, life, [taxonomic families](#), natural intelligence, and the human language, presenting these hypothetical models as scientific explanations.

However, their hypothetical models do not necessarily describe how nature actually operates; instead, they are grounded in the belief that God does not exist—or at least that God played no role in these origins.

As a result of this “science-washing”, philosophical naturalists can only reproduce their own hypothetical model of intelligence—presenting it as if it were equivalent to natural intelligence—since their underlying hypotheses conflict with the very phenomena they aim to explain.

1.3.6. Hiding behind historical science

Under [philosophical naturalism](#), natural processes are considered sufficient to account for the origins of the universe, life, [taxonomic families](#), natural intelligence, and the human language, without recourse to intelligent design or supernatural intervention.

However, when asked to reproduce the universe, life, taxonomic families, natural intelligence, or the human language, under controlled conditions—at scale if required—believers of philosophical naturalism tend to hide behind the term [historical science](#) by placing their hypotheses beyond the reach of [empirical research](#) in the hope to protect these hypotheses from falsification.

In this way, a paradox is created:

- Either, natural laws are sufficient to explain the emergence of the universe, life, taxonomic families, natural intelligence, and the human language. In that case their emergence can be replicated by the natural processes that describe them;
- Or, the origins of the universe, life, taxonomic families ¹, natural intelligence, and the human language are claimed to be historical, investigated by historical science. In that case, these natural phenomena could be created by God, by which creation by God should be included in this historical, scientific research, regardless of whether philosophical naturalism is thereby refuted.

In fact, [philosophical naturalism](#) undermines itself, by replacing the involvement of an intelligent, supernatural entity (God) with hypotheses that are equally unfalsifiable.

In the end, philosophical naturalism failing to replicate their beliefs in a controlled environment—at scale if required—is probably the best proof that natural processes alone are insufficient to create energy, matter, the universe, life, taxonomic families, natural intelligence, and the human language.

1 In Genesis 2 of the Bible, God gave Adam the privilege of naming all kinds of animals.

1.3.7. Limitations of philosophical naturalism

Philosophical naturalism posits that everything can be explained through natural laws and natural forces, thus without any influence of the supernatural.

Philosophical naturalism is designed to provide ex post explanations—explaining afterwards—but not to discover or utilise natural phenomena. So, suppose the air-plane had not yet been invented; then philosophical naturalism—due to its explanatory nature—would not be able to discover and apply the Laws of Nature that govern flight.

Discovering and applying natural phenomena requires an approach of discovery and application. For centuries, such a scientific approach was successful. But in the 19th century, this successful approach was replaced in certain disciplines by philosophical naturalism.

But due to the exploratory nature of humankind, this limitation of philosophical naturalism will eventually be recognised. It may turn out that the explanations of philosophical naturalism are fundamentally at odds with new discoveries, such as the understanding what Natural intelligence actually is.

1.3.8. Clash of belief systems

A [philosophical naturalist](#) would argue that all the logic ² within my system is fully programmed, and therefore exhibits no emergent properties — and consequently does not constitute natural intelligence.

My response would be that non-replicable emergent properties are unscientific. Moreover, I hold that nature itself is intelligently designed. Thus, if one aims to replicate Natural intelligence, one must also replicate the intelligent design underlying it.

The belief system that successfully replicates a natural phenomenon—once beyond understanding—likely provides a more accurate explanation of how nature actually functions.

² the logic is fully programmed, but my system has no prior knowledge

1.3.9. Is Christianity anti-science?

Some people believe that Christianity is anti-science, or anti-scientific. However, for centuries, Christian scientists were leading in fundamental science. They sincerely observed the way nature—as created by God—works. As a result, their findings could be reproduced under controlled conditions, after which their findings could be applied to daily life:

- in microbiology, [Antonie van Leeuwenhoek](#),
- in chemistry, [Robert Boyle](#) and [Antoine Lavoisier](#),
- in physics, [Isaac Newton](#), [James Prescott Joule](#), and [Arthur Compton](#),
- in electromagnetism, [Alessandro Volta](#), [Michael Faraday](#), and [James Clerk Maxwell](#),
- in mathematics, [Gottfried Leibniz](#), [Leonhard Euler](#), [Bernhard Riemann](#), [Blaise Pascal](#), and [Kurt Gödel](#),
- in health care, [Joseph Lister](#) — who is called the “[father of modern surgery](#)”,
- in genetics, [Ronald Fisher](#) and [Gregor Mendel](#) — who is called the “[father of modern genetics](#)”,
- [Charles Babbage](#) — who is called the “[father of the computer](#)”,
- [George Boole](#) — who is called the “[father of the digital age](#)” or the “[father of binary logic](#)”,
- [Galileo Galilei](#) — who is called the “[father of observational astronomy, modern-era classical physics, the scientific method, and modern science](#)”,
- and [Johannes Kepler](#) — who is called “[one of the founders and fathers of modern astronomy, the scientific method, natural and modern science](#)”.

By replicating and applying their findings, these Christian scientists provided a [Return on Investment](#) to taxpayers, which we still benefit from today. Their approach of using [fundamental science](#) might be useful to investigate natural intelligence and natural language too.

1.3.10. Fundamental choice: apes or Adam and Eve?

Any variant of the [Evolutionary hypothesis of Common Descent](#) is fundamentally at odds with [Christian beliefs](#). So, only one of both belief systems can be true:

- If man shares a common ancestor with the ape, Adam and Eve never existed;
- If Adam and Eve never existed, the [Fall of man](#)—high treason against God—never happened;
- If the Fall of man never happened, the [redemption through Jesus](#) is meaningless;
- If redemption through Jesus is meaningless, [Christianity](#) is nothing but an empty religion.

So everyone has to make a choice: a common ancestor with the ape, or creation by God.

2. The fundamental approach of Thinknowlogy

We perceive nothing other than an ordered universe that is subject to unified, exact, structured, deterministic ³, and consistent Laws of Nature, because we perceive nothing other than natural phenomena obeying the Laws of Nature, and proceeding according to the Laws of Nature ⁴.

As such, I presume that natural intelligence is enshrined in natural laws too, and proceeds according to those Laws of Nature. So, if one wants to reproduce Natural intelligence—under controlled conditions, and at scale—one has to investigate those Laws of Intelligence.

Being deterministic (=implementable), these Laws of Intelligence might be implementable in artificial systems — through a process of reverse-engineering.

3 deterministic: “[the doctrine that all facts and events exemplify natural laws](#)”

4 I presume that God has created the Laws of Nature to make his creation run like clockwork in a unified, exact, structured, deterministic, and consistent way

2.1. Sources of natural intelligence

I have identified the [human language](#) and [spacial information](#) as sources of Natural intelligence, which means that these sources of intelligence provide concrete logic to our brains, by which our brains can organise their knowledge and spatial information:

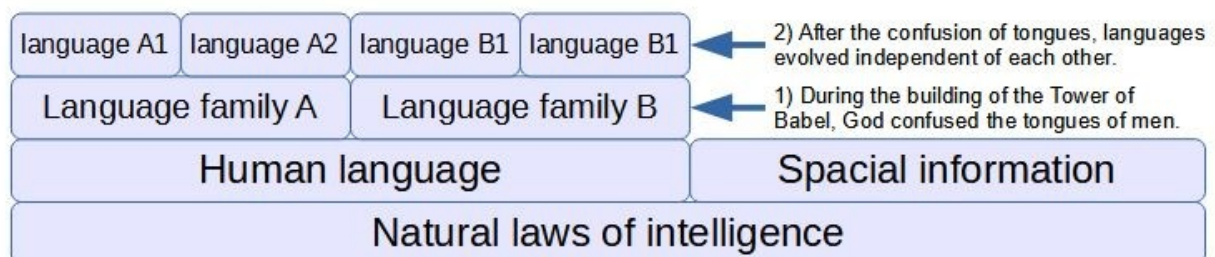
- Natural language is providing concrete logic for organising knowledge objects;
- Spatial information is providing concrete logic for organising spatial objects (used in, e.g., self-driving cars).

I focus on the human language.

Because all natural phenomena are designed in a unified way, natural intelligence and the human language might be related. If so, it must be possible to identify the natural laws obeyed by language. After identification, it must be possible to reverse-engineer the way nature works regarding knowledge. In other words: how the human brain is organising its knowledge.

According to the biblical worldview, life and the universe were all designed once, while no improvements were made afterward. So—if intelligence and language are related—current languages must still obey the same laws of intelligence as were designed in the beginning, regardless of all their differences ⁵. Then, current languages still must share the same foundation.

Relationship between natural intelligence and the human language



⁵ The existence of entirely different languages today is explained in the bible: “[At one time all the people of the world spoke the same language and used the same words](#)” ([Genesis 11:1](#)). During the building of the tower of Babel, God confused the tongues: “[Come, let’s go down and confuse the people with different languages. Then they won’t be able to understand each other](#)” ([Genesis 11:7](#)).

2.2. Natural intelligence

To contribute to science, intelligence needs to be defined in a unifying, fundamental (=natural), and deterministic ⁶ (=implementable) way:

Natural intelligence is the use of naturally embedded logic.

One's goal in using natural intelligence, is to independently:

- Avoid chaos,
- Create order,
- Restore order.

Natural intelligence provides [self-organising properties](#), by one can independently:

- [Group](#) what belongs together;
- [Separate](#) what doesn't belong together;
- [Archive](#) what is no longer relevant;
- [Plan](#) future actions;
- [Foresee](#) the consequences that the planned actions will have;
- [Learn](#) from mistakes.

More into detail:

- [Grouping](#) (combining) of individual or separate objects, to achieve a goal that can not be achieved by either of those objects separately;
- [Separating](#) (differentiating) compound or intertwined objects, to clarify the situation, by putting them in their context;
- [Archiving](#) of obsolete information, separating current from obsolete information;
- [Planning](#) future actions, setting goals, and anticipation of changes;
- [Foreseeing](#) possible consequences: Using knowledge and experience to predict possible consequences of planned actions (own plans and planned actions of others);
- [Learning from mistakes](#): Using knowledge and experience to determine the course of a mistake, and to avoid making this kind of mistake in the future.

These capabilities of intelligence can be applied to basic concepts like knowledge objects and spatial objects. [Grouping](#) of, for example, numbers, we call: [adding](#). [Separating](#) of numbers, we call: [subtracting](#).

6 deterministic: “[the doctrine that all facts and events exemplify natural laws](#)”

Deepening:

- Creation starts with [grouping](#);
- Understanding starts with [separating](#);
- Omitting starts with [archiving](#);
- Governing starts with [planning](#);
- Anticipation starts with [foreseeing](#);
- Improvement starts with [learning](#) from mistakes.

2.2.1. Natural language as an intelligent system

Assuming that natural language is an intelligent system, predictions can be made about the intelligence that will be found in language:

1. Natural language will have self-organising properties;
2. The sender's brain will add logical clues to the knowledge that is expressed;
3. The receiver's brain will use the logical clues added to the knowledge, enabling it to organise the received knowledge.

In all languages, there will be specific words and sentence constructions for:

- [Grouping](#) knowledge that belongs together;
- [Separating](#) knowledge that doesn't belong together;
- [Archiving](#) knowledge that is no longer relevant;
- [Planning](#) future actions;
- [Foreseeing](#) the consequences that the planned actions will have;
- [Learning](#) from mistakes.

2.2.2. Self-organisation as a property of natural intelligence

Self-organisation is a property that separates natural intelligence from Artificial Intelligence. Take for example Large Language Models: They are unable to seamlessly integrate new knowledge with existing knowledge, after being trained. That would require human intervention as well as engineered techniques.

Self-organisation is a property of natural intelligence — rather than the origin:

- Natural intelligence is the use of naturally embedded logic;
- Logic is essential for applying [set theory](#);
- Set theory is fundamental to every form of organisation—grouping what belongs together, separating what does not, and so on;
- Prefix “self” of self-organisation means in this case: done automatically.

Now the other way around:

- Self-organisation requires [set theory](#) to be automated;
- Set theory requires logic to be implemented;
- This logic needs to be natural in order to be automated;
- Natural logic requires a natural source of intelligence;
- The [human language](#) and [spacial information](#) are natural sources of intelligence;
- Their inherent logic can only be uncovered by unravelling their underlying design;
- Applying this inherent, natural logic enables self-organisation.

So, the purposiveness ([teleology](#)) of human language can be used to replicate its inherent, natural logic — including self-organisation — whereas scientists tend to avoid researching purposiveness (teleology) in nature, instead referring to it as “apparent purposiveness” ([teleonomy](#)).

Whoever studies nature — studies God’s creation. Perhaps that’s why scientists in certain fields are reluctant to study how nature truly works.

2.2.3. Natural reasoning in natural language

Almost 2,400 years ago, [Aristotle](#) already described a few cases of natural reasoning in natural language — combining natural logic (natural intelligence) with natural language, like:

- Given: “[All philosophers are mortal.](#)”
- Given: “[Socrates is a philosopher.](#)”
- Logical conclusion: “[Socrates is mortal.](#)”

This case of natural reasoning in natural language will be the start of our investigation of finding, unraveling, and replicating God’s intelligent design regarding to natural intelligence and natural language.

2.3. Laws of Intelligence naturally embedded in the Human Language

Clues of logic—naturally embedded in the human language—provide information to our brain on how to organise the gained knowledge. The clues of logic include specific words for [grouping](#), [separating](#), and [archiving](#) (see definition of Natural intelligence). By using these logical clues—which I call the [Laws of Intelligence naturally embedded in the Human Language](#)—we can implement a naturally intelligent, self-organising knowledge technology similar to the way the language centre of our brain works:

- Conjunction “[and](#)” has the intelligent function in language to [group](#) knowledge ([Block 3](#) and [Block 4](#) of my [Scientific challenge](#));
- Conjunction “[or](#)” has the intelligent (Exclusive OR) function in language to [separate](#) knowledge ([Block 6](#));
- A definite article (in English: “[the](#)”) has the intelligent function in language to [archive](#) knowledge ([Block 7](#));
- An indefinite article (in English: “[a](#)”) defines a structure, which has been described scientifically;
- The basic verb “[is/are](#)” defines present tense basic logic, which has been described scientifically;
- The basic verb “[was/were](#)” defines past tense basic logic ([Block 5](#));
- The possessive verb “[has/have](#)” defines present tense direct and indirect possessive logic ([Block 1](#) and [Block 2](#));
- The possessive verb “[had](#)” defines [past tense—direct](#) and [indirect](#)—possessive logic ([Block 1](#) and [Block 2](#), and [Block 5](#)).

I am implementing [grouping](#), [separating](#), and [archiving](#) as much as possible while leaving the implementation of the remaining capabilities to future generations. These [Laws of Intelligence naturally embedded in the Human Language](#) drive a set of structuring algorithms ⁷ in my system to independently [group](#), [separate](#), and [archive](#) knowledge in its knowledge base.

So, natural language provides knowledge—expressed in a certain language—as well as a logical structure of how that knowledge should be organised. This logical structure is (almost) language-independent.

⁷ algorithm: “[any set of detailed instructions which results in a predictable end-state from a known beginning](#)”

2.3.1. Example of reasoning: Autonomous generation of questions

Let's put the Laws of Intelligence to work. Or at least, one law:

- Given: “Every person is a man or a woman.”
- Given: “Addison is a person.”
- Automatically generated question: “Is Addison a man or a woman?”

How to automatically generate the question mentioned above, using Laws of Intelligence:

- A law of intelligence: Conjunction “or” has the intelligent (Exclusive OR) function in language to [separate knowledge](#);
- Given “Every person is a man or a woman” and “Addison is a person”;
- Substitution of both sentences: “Addison is a man or a woman”;
- Conversion to a question: “Is Addison a man or a woman?”.

2.3.2. The function of lexical categories

Nouns, verbs, adjectives, adverbs, pronouns, prepositions, conjunctions, interjections, numerals, articles, and determiners are word classes / [Parts of Speech \(PoS\)](#) / lexical categories.

Lexical categories are essential for reasoning. Consider, for example: “All philosophers are mortal” and “All blue are mortal”. Only one of both sentences is grammatically correct, while the other doesn't make sense. So, knowledge technology must always keep track of the lexical category of each word.

Each word of a list of words is usually of the same lexical category. Consider, for example: “Red, white, and blue” and “Red, a sister, and four”. Again, only one of both phrases is grammatically correct, while the other doesn't make sense.

2.3.3. Autonomy / independently

In the definition of natural intelligence, the word “independently” is used. So, we need to define that word, which is similar to the word “autonomy”:

An autonomous system relies on the **consistency** of a natural source, or a **consistent** artificial source, like GPS ([Global Positioning System](#)). So, an autonomously intelligent system relies on the consistency of a natural source of intelligence.

AI does not rely on the consistency of a natural source of intelligence. Instead, a lot of human labor is required—such as the [fine-tuning](#) of [LLMs](#)—and **inconsistent** artificial sources or engineered techniques are used in the background, like, for example, some reasoning or semantic techniques.

2.3.4. Universal Grammar theory

In his [Universal Grammar theory](#), [Noam Chomsky](#) proposes that the ability to learn a language is hard-wired in the brain, which differs from my fundamental approach:

There is no Universal Grammar, but there are Universal Laws of Intelligence naturally embedded in the Human Language, while logic / algebra / universal reasoning rules on themselves are (almost) language-independent.

When children learn a language, this universal logic in the language center of their brain is ‘configured’ for a language, which will be their native language / mother tongue. My [Controlled Natural Language](#) reasoner works similarly: It implements an (almost) language-independent logic, which is configured for five languages: [English](#), [Spanish](#), [French](#), [Dutch](#), and [Chinese](#).

2.3.5. Free will and morality

First of all, [morality](#) and [free will](#) originate from the bible.

According to the bible, humans separate from animals by having a spirit, which provides humans a free will and a set of morals. Spirits — being supernatural — are, by definition, not bound by the laws of nature. Therefore, spirits can't be captured in machines, which are, by definition, bound by the laws of nature. So, a machine will never have a spirit, free will, and an autonomously controlled set of morals like humans have.

I agree with [John Searle](#) on his [Chinese room thought experiment](#), that computers will never have a mind and consciousness:

“if there is a computer program that allows a computer to carry on an intelligent conversation in a written language, the computer executing the program would not understand the conversation either”.

Actually, the Laws of Intelligence only apply to natural intelligence, not to consciousness, morality, or a free will.

Testimony: I don't have this wisdom of myself

During my young childhood, God asked me if I wanted to become rich or wise. I chose wisdom ⁸ because I like the stories about the wisdom of King Solomon.

A few years later, I offered my life to God, as I gave up my own life and desires, and fully dedicated my life to Him. Initially, nothing special happened. I studied electrical engineering, electronics, and computer science (Bachelor, specialisation: telematics). I also tried a master study, which I didn't finish.

During my study computer science, I joined elective course Artificial Intelligence. However, after a few lessons I left the course disappointed, because LISP and Prolog are no replications of natural intelligence. On May 15, 1990, I attended a seminar on Artificial Neural Networks at TU Delft. However, after a few years, I realised that artificial neural networks do not possess the capabilities of natural intelligence either.

I became just another Software Tester. I am skilled in software testing, but I recognise my limitations. I am not a genius.

In the first decade of this century, God asked me if I would accept an assignment—a mission of life—to prove (philosophical) naturalism / evolutionism wrong. If I would accept this assignment, God would provide unique knowledge about His creation of intelligence and language. I accepted. And as promised, God gives me wisdom—insights beyond my knowledge and intelligence—as long as I work on this project. However, if I use the given wisdom for my own good, it will be taken from me. I was explicitly ordered: “[Give everything away. Keep nothing behind](#)”.

While I was criticising the current approach to AI and NLP on [LinkedIn](#) for not having a (natural) foundation, nor a (natural) definition of intelligence, someone asked me what definition I used. Then I had to admit to myself that I didn't have a definition of intelligence either. So, I prayed and asked for an answer. Ten minutes later, I was able to write down a unifying, fundamental (=natural) and deterministic (=implementable) definition of intelligence, provided by God. Later I also discovered how this definition is related to language through Laws of Intelligence naturally embedded in the Human Language.

⁸ It wasn't a trick question, because trick questions are not consistent with the character of God. If I had chosen wealth, I had to give this wealth away like I give away the results of my wisdom now. But I guess, God already knew what my answer would be. When God gives such a gift, it doesn't mean you can keep that gift for yourself. It means, you should use it to the glory of God.

Appendix: Genesis hidden in the Chinese language

The Chinese language is the oldest, continuously written language in the world. It was first written over 4,500 years ago. And some Chinese characters seem to refer to first book of the bible (Genesis). A few examples:

The Chinese character for “[to create](#)” consists of four components, and seems to refer to the creation of “Man” – later called: Adam:

- Dust or mud: God has created Adam from dust;
- Mouth or breath: God breathed into the nostrils of Adam;
- Movement or life: Adam became alive;
- Able to walk: Adam was directly able to walk (and to speak).

“Then the LORD God formed the man from the dust of the ground. He breathed the breath of life into the man's nostrils, and the man became a living person.” ([Genesis 2](#) verse 7)

(See on YouTube: “[Genesis hidden in the Chinese language? Part 2](#)”)

The Chinese character for “[to covet, to desire](#)” consists of two components, and seems to refer to the Fall:

- Two trees: the tree of life, and the tree of the knowledge of good and evil;
- A woman: “Woman” – later called: Eve – desired the fruit of the only forbidden tree.

(See on YouTube: “[Genesis hidden in the Chinese language? Part 3](#)”)

On YouTube: “[Genesis Code Hidden Within The Ancient Chinese Language](#)”, among all:

- The Chinese character for “[first](#)” consists of three components: alive, dust, and man. (Adam – created from dust – was the first man to become alive);
- The Chinese character for “[to talk](#)” consists of three components: dust, breath/mouth, and alive. (Adam – created from dust – was able to talk);
- The Chinese character for “[naked](#)” consists of two components: man and fruit. (After Adam and Eve had eaten the fruit from the forbidden tree, they felt naked);
- The Chinese character for “[pain](#)” consists of two components: a piece and two trees. (Pain was a punishment from God for Adam and Eve after they had eaten a piece of fruit from the forbidden tree).

On YouTube: “[How Chinese Characters confirm Genesis & Bible stories](#)”, among all:

- The Chinese character for “[flood](#)” consists of four components: eight, united, earth, and water. (Noah, his wife, and their three sons with their wives, all eight were united in their boat, while the surface of the Earth was flooded with water).