

7 Commandments of the 21st Century Science and Beyond (21stCS):

The 21stCS was coined by EMMA Foundation in 2015 updated Feb.6,2025 (while in Doha, Qatar)

1. **Definition:** Unlike 20th and previous centuries' science, "The 21stCS" (The 21st Century Science) is not confined to physical material objects in labs only, nor is it only about empirical science. The 21stCS processes information rationally, encompassing everything—including but not limited to philosophy, Epistemology and Axiology, relative, subjective, objective truth, human experiences, emotions, spirituality, consciousness, God, religion, life and its potential after death, love, hate, compassion, sympathy, empathy, fairness, justice, symmetry, human and other life's wellbeing, meditation, values, morality, distinguishing between good and bad, right and wrong, truth and lies, physics, chemistry, mathematics, psychology, sociology, politics, war, history, biology, healthcare, business, economics, and behavioral economics, neuroscience, human body full neural network a) System 1 (S1) Limbic system, Basal Ganglia, Amygdala, and more, b) System 2 (S2) Prefrontal Cortex (the thinking brain), AI, AGI, ASI or any new acronym that pops up in the salad of new terms. Essentially, the 21stCS is a rational approach to collecting data, analyzing, processing, pondering, and comprehending both tangible and intangible aspects of anything and everything that humans are curious about.
2. **Admission of Imperfection:** The 21stCS doesn't claim that it has the answer to everything. Nor does it claim that its current answers are absolute, fundamental, or unchangeable. The 21stCS is aware of the fact that there are many, many questions for which it doesn't have any answers or any conclusion. But it does claim that it provides better answers, explanations to more questions than any other system, process, or belief system. The 21stCS is aware of the fact that science in general has been wrong before and will be proven wrong in the future, yet there is no better alternative tool available to understand ourselves and the universe.
3. **Its strength:** The 21stCS actively seeks to prove itself wrong; that is its strength. Each time the 21stCS proves itself wrong, it improves, and its overall theories become more valid, bringing us one step deeper and closer to the truth. The 21stCS never claims to know the ultimate truth but rather aims to progress one step closer to it. The 21stCS compels you to swallow even the most bitter truth.
4. **Lower Layer Axioms:** The 21stCS relies on the principle that a statement to be true needs to be logically derived from previously agreed-upon lower-level axioms to be true. Between two conflicting conclusions, the one that is based upon lower-level axioms than the other one wins. This principle holds true for processing any and all ideas as listed in the Definition of the 21stCS.

Mental Model: It is entirely possible for two people to use two different mental models of the world and come up with two different explanations or conclusions. As long as those two sets of explanations don't contradict each other holistically, both mental models are fine. Otherwise, one or both are wrong. One might end up enjoying vanilla ice cream the most, whereas the other person might enjoy chocolate chip ice cream the most. Each person, upon going to the lower-level axioms, will understand the other person's perspective, with no contradiction. A similar but slightly different way to describe the function of different mental models is when two people

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moving at relatively very high speed; they will see each other's time flowing slowly or lengths shrinking, etc. However, each party can transpose their observations using Einstein's theory of relativity and understand each other's perspective without any contradiction. Otherwise, one or both are wrong. Another way to describe the situation is “Anything Goes”.

Currently, **space-time** is the bottom-most layer of the mental model and works fine. Next time we might find some lower-level, better mental model to understand and predict the universe, of course with probability. Our mental model will change, but it still has to stay coherent, consistent, and without any contradiction.

5. **Q3 Principle:** Q3 is short for “Qualified, 3rd Party, Double-blind Test, Iterative-Successive Approximation, Statistical Process.” The 21stCS is for independent thinking then verified by other qualified people (see Q3). This process doesn’t necessarily exclude personal experience, inner voice/thoughts, qualia, perception, relativistic feeling, such as one person enjoying wearing a green color dress but someone else might draw the same enjoyment wearing a red color dress. 21stCS also allows you to push yourself according to your parameters, a little bit beyond your body's limit, such as in exercise, cold exposure, breathing, fasting, meditation, and more, but always stay in the safe zone under the right conditions and environment. There too one can apply successive approximation, an iterative method. 21stCS's conclusion is in favor of personalized medicine. Only if one's ideas contradict any previously proven ideas, then those ideas need to be put on the table for everyone else to scrutinize using Q3 for short.
6. **Merging with AI, AGI, ASI:** The 21stCS realizes that as humans gradually begin to integrate or merge with future AI, AGI, ASI, or new acronyms as they emerge, human body parts will change, including but not limited to legs, hands, heart, gut, eyes, ears, skin, tongue, even the spinal cord and brain. It may even add additional sensory parts. As a result, human senses, even qualia and consciousness might also change. Consequently, human value systems, morality, and almost every idea might change. When these merged humanoids are able to integrate and separate with others humanoids and even with other objects for data collection purposes such as with the clouds and ocean, on the fly, on and off when advantageous, at that time, we might have a completely different and better understanding of the universe, but it still can't violate these 7 commandments of 21stCS, especially because 21stCS allows fine-tuning of these 7 commandments only if it becomes necessary. Some call that as “singularity”.
7. **Philosophy:** According to 21stCS, all established scientific theories must be coherent and consistent. Other scientific ideas that are not coherent yet can still be discussed at the outer edge of the 21stCS with a big question mark. The 21stCS doesn’t treat those as facts but is open to discussion for brainstorming purposes, and this is what we call Philosophy.

Note: In my early twenties, during the late 1970s, in a poverty-stricken neighborhood of a 3rd world country, while sitting beneath a tree on a sweltering summer day, gazing upon a small lake. As the sun set in resplendent hues, a rainbow arched across the sky, ducks glided serenely over the water, birds soared overhead, and children played in the distance. Amid this tranquil yet vibrant tableau, armed only with my high school knowledge of mathematics and physics—guided by an insatiable curiosity about the laws of nature—I engaged in a form of reasoning that what I today call **21stCS**.

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Through this intellectual pursuit, I arrived at an unshakable foundational conclusion: **Free Will not only does not exist at all but it cannot exist in any form.** This realization led me to another profound inference: **the death penalty is both irrational and morally indefensible.** While society must arrest, restrain, and neutralize threats to prevent future harm, the purpose of incarceration should be solely for **rehabilitation and restitution**—never as an instrument of revenge or retribution. Because of this discovery of foundational bitter truth, the rest of the truths were relatively easier for me to discover and swallow.

**We challenge you to come up with a better than 7 Commandments of 21stCS or just improve it.
What's your process?**

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