

## The Ideal Recipe vs. Baking Existential cake

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### Abstract

This is about creation of an objective model of reality. The 'missing' ingredients are identified.

Max Tegmark asks: "is it possible to find a description of external reality that involves no baggage?" He says "If so, such a description of objects in this external reality and the relations between them would have to be completely abstract, forcing any words or symbols to be mere labels with no preconceived meanings whatsoever. Instead, the only properties of these entities would be those embodied by the relations between them." (Tegmark M., 2007)

This requirement has been making me think of an extremely bland recipe book, that has no enticing descriptions of ingredients or descriptions of products, on top of not having any real cake. There are precise quantities and orders/sequences of combination, temperatures and times. Each ingredient identified in the recipe and on the kitchen workbench only by an abstract symbol with no preconceived meaning. No description, this recipe book is the type that's just the recipe without photos, and of course has no existential cake in it. Its not just the cherry on top that's missing, there is no baked mixture called cake. Take this book to a desert island and you will starve physically and emotionally, with no real cake or vivid description or images to sustain you.

This recipe book will allow a cake to be made **if** the kitchen workbench symbols are attached to **existentially real** ingredients that will be used in place of the symbols. As well as if there is an **existentially real** oven to really attain the specified temperature. An **existentially real** working clock for timing. Someone **existentially real** to mix the cake and put it into and take it out of the oven. Self assembling cakes do not yet exist. Some scientists have criticized quantum

physics for not taking account of the necessity for real, not quantum unmeasured, measuring apparatus.

Professor Tegmark argues “If we assume that reality exists independently of humans, then for a description to be complete, it must also be well-defined according to non-human entities — aliens or supercomputers, say” (Tegmark 2007)

(BTW —Diagrams may be helpful. We have eyes and see a certain part of the light spectrum. Do the aliens or perhaps they feel or hear the abstract symbols.? Maybe they sense fluctuations in a magnetic field, or variations in the light spectrum outside of human vision. Or even have senses we can not comprehend. External physical reality is not reality only for the sighted.) The description must be understandable in whatever ‘language’(means of communication), to which it is it is translated.

A pattern emerges. Enabling the realization that - that which is existing independent of thought or measurement- is missing from the most successful ‘recipes’ we currently employ. A noticeable absence in Special Relativity theory, which is concerned with products of signal receipt. That doesn’t differentiate existential matter from what is seen. In Quantum theory, concerned with measurements, regards the unmeasured as being in an abstract, uncertain state. Categorization, error is rife.

Categorization error: Failure to correctly differentiate Object reality (that which existentially exists in absolute relation to all else also existing) and Image reality (products of observation or measurement) categories, or omission of a relevant category from consideration.

Category differentiation error: Failure to correctly assign different categories to the actualization, noumenon or beable and the associated manifestation or phenomenon, whereby it is known. (Subset) Category omission error: Complete omission of consideration of a relevant category. (Woodward, G.)

The second missing ingredient is sequential change or sequential happening. It's presence is necessary for a *particular* happening occurring unseen that will affect later measurement outcome. A world containing existential matter does not requires measurement for something to happen. Measurement is a way of obtaining knowable information it is not the driver of observer independent reality.

A spacetime continuum just *is*, the past, present and future of it. Happening is an illusion in that model. From having a moving internal perspective, frog-like as Max Tegmark explains rather than bird-like, "soaring above"( M. Tegmark 2007), seeing all of the static continuum from an outside perspective. Unitemporalism provides the missing sequential time. Stuff (including matter, materials, articles and activities) actually happen. While offering a new understanding of relativity of simultaneity.

### Reference

Tegmark M., 2007, Shut up and calculate, arXiv: Popular Physics 2007