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• **Part 1:** Meta-Muddle + meaning of 'model'

• Part 2: Megamodelling and concepts

• Part 3: Megamodelling and Etymology

The Meta-Muddle

What is a model?

- Polysemic word
- Depends on context
- Leads to misunderstanding and confusion
- <u>Two different senses used in the same sentence</u>

Is the model of a model a metamodel?

- Cannot answer without knowing what a 'model' is

The Meta-Muddle

Study of the etymology of 'Model'

Four sources of knowledge:

- Encyclopedias
- Dictionaries
- Thesauri
- Etymology

Four groups of meanings:

- Model-as-representation
- Model-as-example
- Model-as-type
- Model-as-mold

• Encyclopedia

- A model of the knowledge of mankind
- Model: "A 3-dimensional, typically small construction, <u>intended to illustrate,</u> <u>explain, or discover certain</u> <u>properties of its prototype,</u> <u>the subject that it</u> <u>represents.</u>"





Dictionary

- A model of the language

mod·el 📢 (mŏď'l)

n.

1. A small object, usually built to scale, that represents in detail another, often larger object.

2.

a. A preliminary work or construction that serves as a plan from which a final product is to be made: a *clay model ready for casting.*

b. Such a work or construction used in testing or perfecting a final product: a test model of a solar-powered vehicle.

3. A schematic description or representation of something, especially a system or phenomenon, that accounts for its properties and is used to study its characteristics: a model of generative grammar; a model of an atom; an economic model.

4. A style or design of an item: My car is last year's model.

5. One serving as an example to be imitated or compared: a model of decorum. See Synonyms at ideal.

6.

a. One that serves as the subject for an artist, especially a person employed to pose for a painter, sculptor, or photographer.

- **b.** One that serves as the basis for a fictional character or place.
- 7. A person employed to display merchandise, such as clothing or cosmetics.
- 8. Zoology An animal whose appearance is copied by a mimic.

Thesaurus

List words in
groups of
synonyms
and related
concepts



- Etymology
 - A model of the language dynamics



Part 1: Meta-Muddle + meaning of 'model'

• **Part 2:** Megamodelling and concepts

• Part 3: Megamodelling and Etymology

• A model is:

- A simplification of a system
- Built with an intended goal in mind
- Able to answer questions in place of the actual system

A metamodel is:

- A model of a modeling language
- A model of a language of models

• A megamodel is:

- A model whose elements represent models, metamodels and other global entities
- Considers global relationships without considering their content
- Represents complex arrangements without entering in details
- Not tied to a technical space / domain





Mega-Patterns:

 Recurrent pattern that defines a collaboration between some systems in a megamodel







• Key Principle:

- Everything is a system!
- Being a model is just a role
- Nothing is a model, but Everything could serve as a model



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Is the model of a model a metamodel? – Not always!





Questions?