

# Semat Theory Track

# Some Observations

- Many requests to have some form of rigorous definitions of the defined concepts
- This triggers some important questions immediately:
  - Domain / range of the rigorous may be even formal definitions  
*Keep in mind multifaceted / multiperson effort*
  - What are the concepts we like to cover (c.f. position statements and previous discussion)
  - Keep in mind that science is an ongoing process (plan for change)

# Some considerations

- Ingredients needed:
  - Representation schemes (definition of languages)
  - There should be a clear purpose
  - In some sense should be minimal
- Purpose of this special exercise
  - Explanation, rigor
  - Analysis
  - Validation / Verification
  - Synthesis

# Some useful properties

- Compositionality
- Interoperability

Also important

- Pragmatics of the language
- Help to reduce complexity and do not introduce additional (mostly artificial) complexity