

# **Panel Discussion: Cyber Ontology: Is it the World Squared?**

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# Background

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- For a Cyber ontology, maybe everything you model now in the non-cyber world, you'll need in the cyber world
- Ontology of Information: Where Do Chairs End and the Information Correlates of Chairs Begin?
- Cognitive Entity: Information Content Entity: Analysis, Plan, Account, Fiction, Economic Entity, Opinion, Dream?
- Information Bearing Entity
  - Document: Book, Letter, Financial Document, Dream?
    - Official Document: Passport, Visa, Birth Certificate, Vendor's License, Operator's License
- Digitized Information Bearing Entity
  - Computer File, Email, Digital Book, Digitally Signed Official Document

# Questions and Issues

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- What are the Criteria for distinguishing Cyber entities from common Real entities?
- Copies can be made of both Real and Cyber
- If you send a Cyber file, you retain possession
- If you have a 3D printer?
- If you have a future 3D printer, that “prints” (manufactures) a copy of your Information Machine?
- Malware currently exploits vulnerabilities in Information programs (code, services, models)
  - Tomorrow’s legitimate Information programs may have built-in malware
- What is Authenticity? Trust? Truth? Goodware vs. Malware? How do we know?