

RAIR Lab

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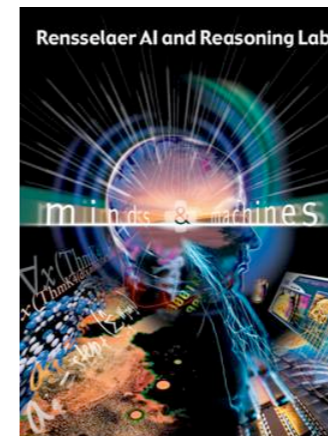
Rensselaer AI & Reasoning (RAIR) Lab

Rensselaer Polytechnic Institute (RPI)

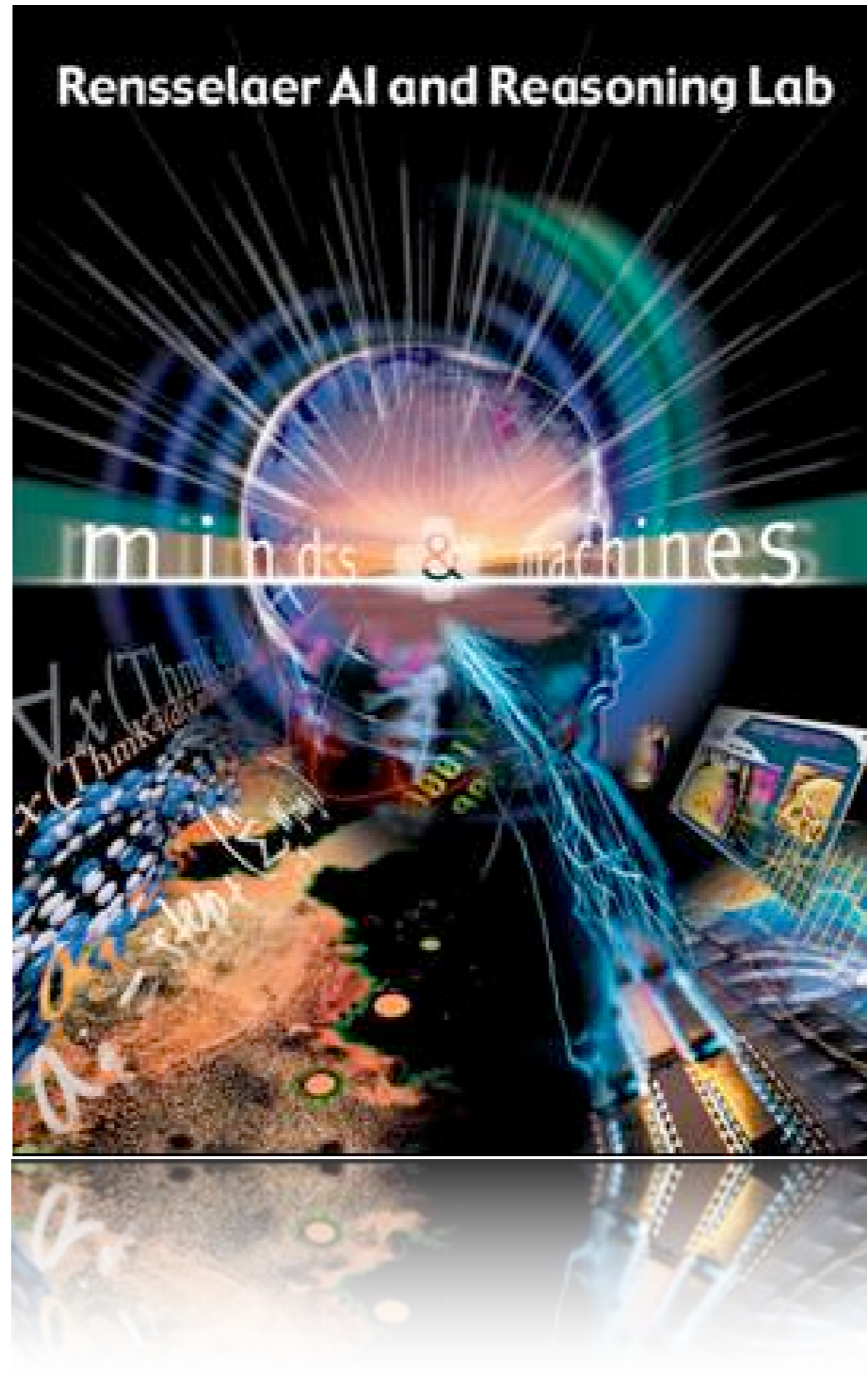
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Rensselaer AI and Reasoning Lab



RAIR Lab Approach:

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**Logic-based:
AI & Computational CogSci**

Important Aspect of Lab's Approach:
Avoid Limitations of *Elementary*
Logic-Based R&D

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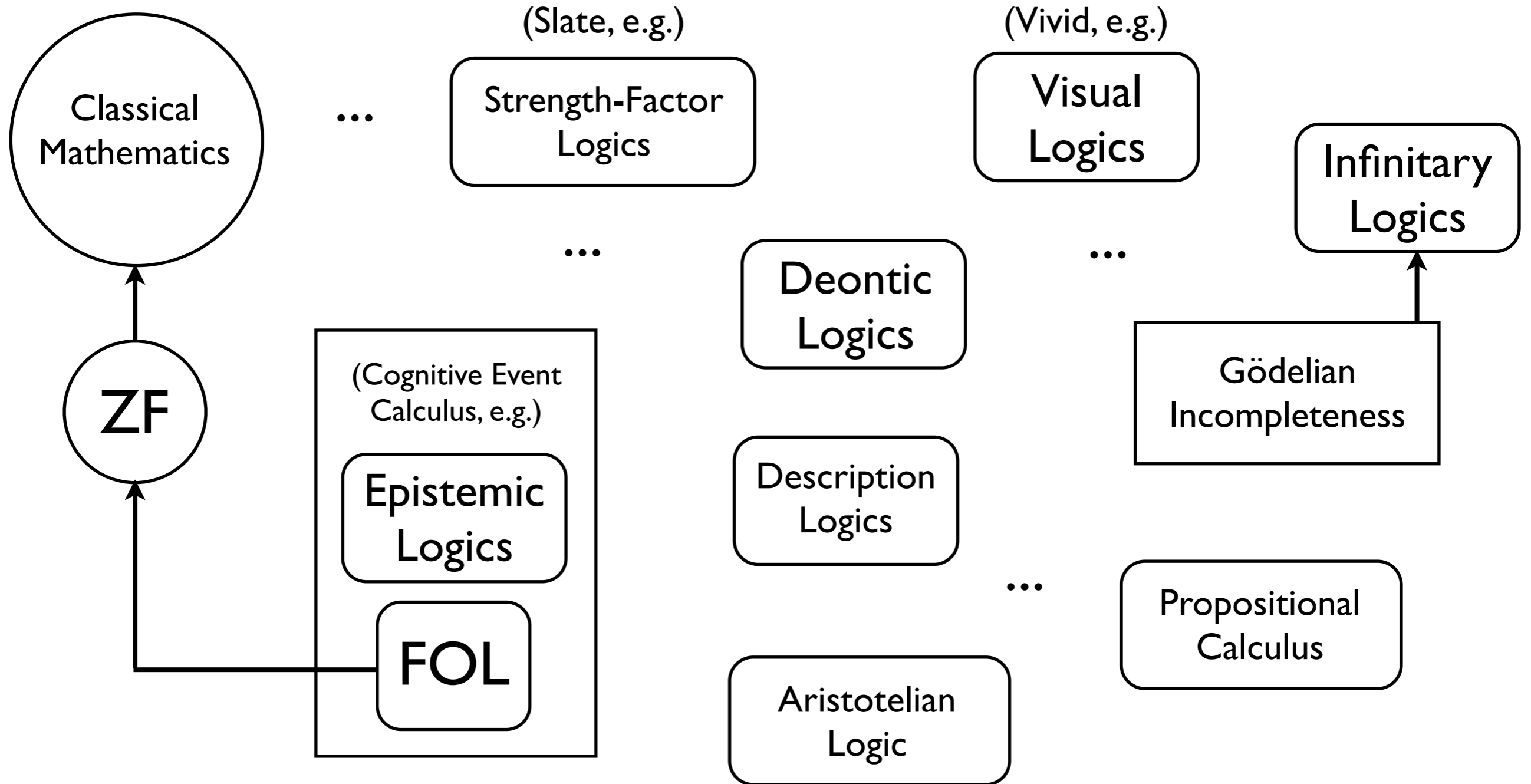
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versus

We know humans operate in ways that range *across* an infinite number of logical systems, so we need a formal theory, and a corresponding set of processes, that captures the meta-coördination of myriad logical systems.

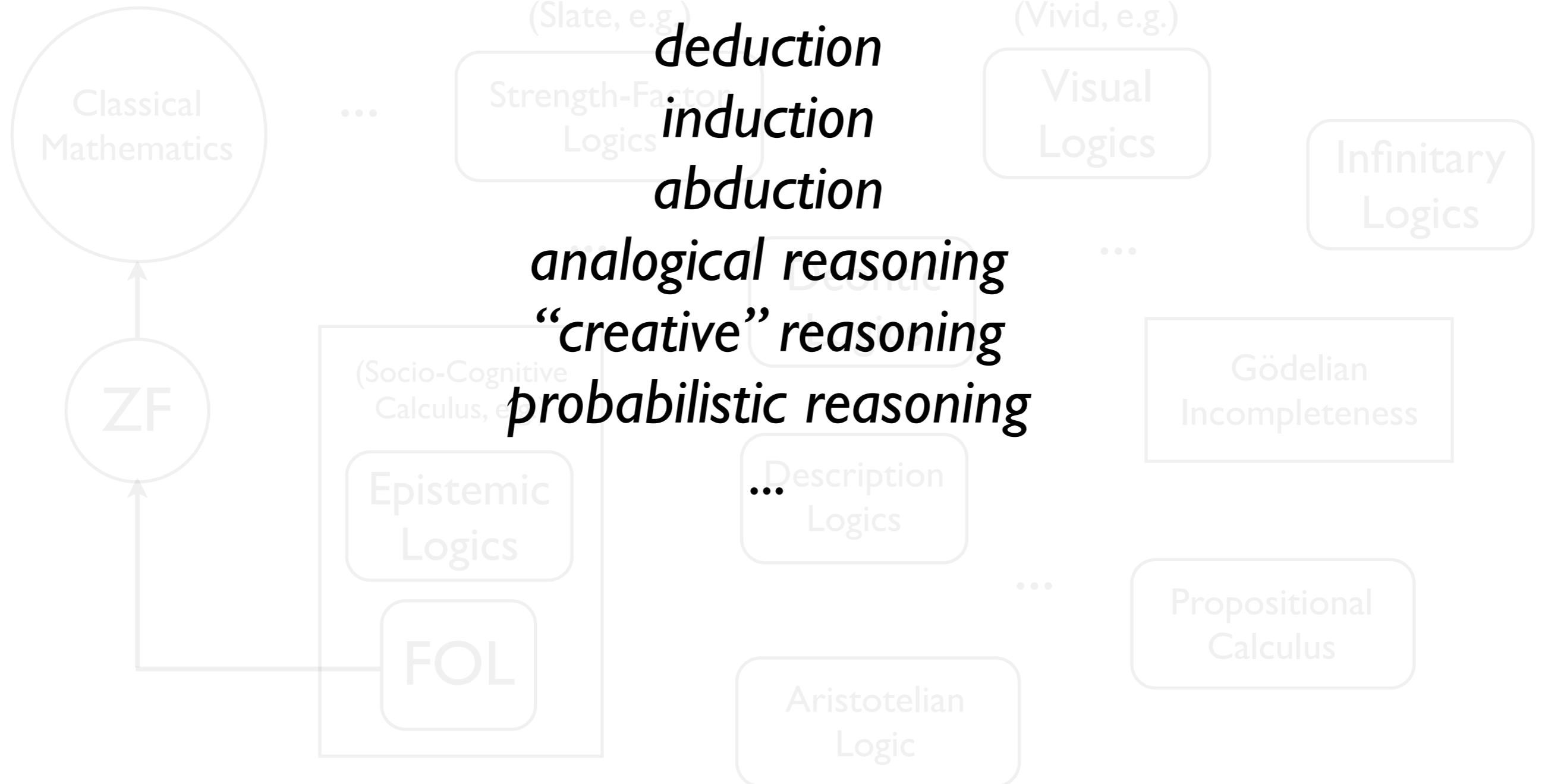
The Space of Logical Systems





Background
Logic

And all forms of reasoning formalizable via logic:



R&D Thrusts

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- Formalizing physics => formalizing cancer-relevant biological processes. Embryonic.