

Rational OpenCog Controlled Agent

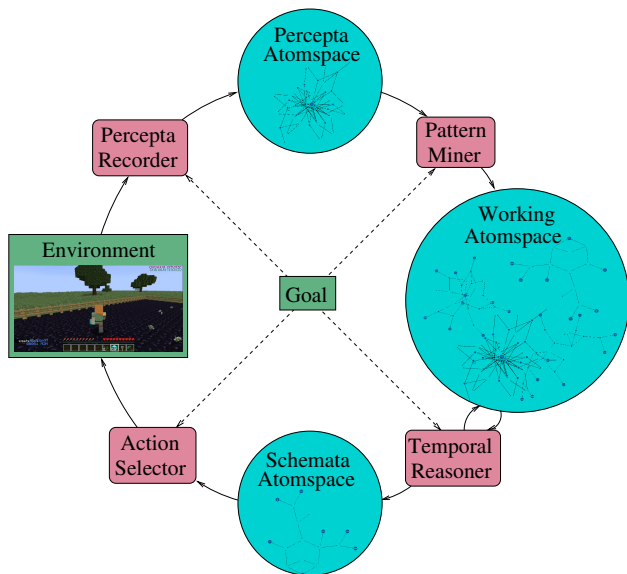
Nil Geisweiller, Hedra Yusuf

AGI-23

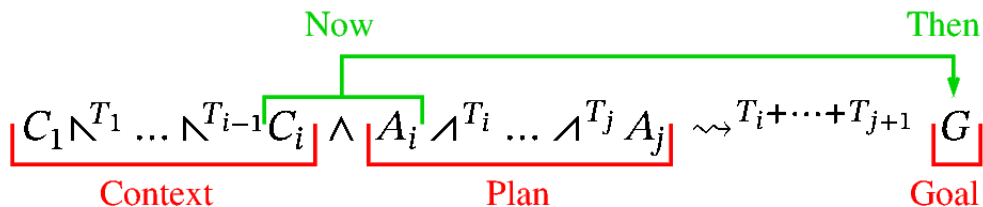


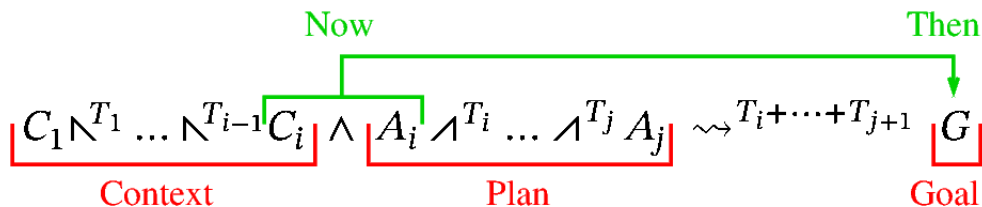
SingularityNET



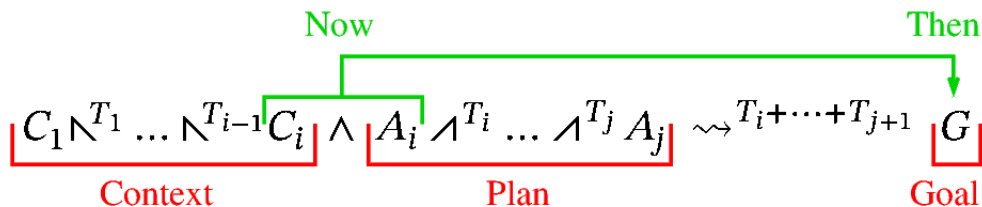


$$C_1 \wedge^{T_1} \dots \wedge^{T_{i-1}} C_i \wedge A_i \wedge^{T_i} \dots \wedge^{T_j} A_j \rightsquigarrow^{T_i + \dots + T_{j+1}} G$$



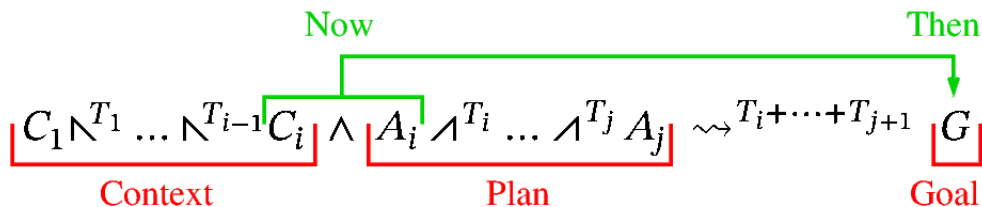


$$[C_1 \wedge^{T_1} \dots \wedge^{T_{i-1}} C_i](t) = \text{True} \mid \text{False}$$



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$$\mapsto \text{Dist}(\text{Bool})$$

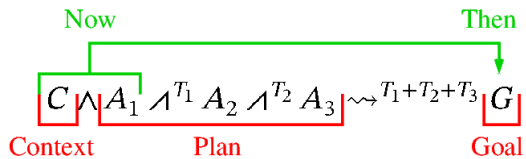


$$\begin{aligned}
 [C_1 \wedge N^{T_1} \dots \wedge N^{T_{i-1}} C_i](t) &= \text{True} \mid \text{False} \\
 &\mapsto \text{Dist}(\text{Bool}) \\
 &\mapsto \text{Dist}(\text{Dist}(\text{Bool}))
 \end{aligned}$$

$$C \wedge A_1 \nearrow^{T_1} A_2 \nearrow^{T_2} A_3 \rightsquigarrow^{T_1+T_2+T_3} G$$

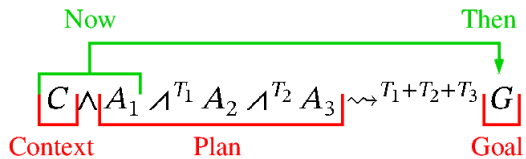
$$C \wedge A_1 \nearrow^{T_1} A_2 \nearrow^{T_2} A_3 \rightsquigarrow^{T_2+T_3} G$$

$$C \wedge A_1 \nearrow^{T_1} A_2 \nearrow^{T_2} A_3 \rightsquigarrow^{T_3} G$$



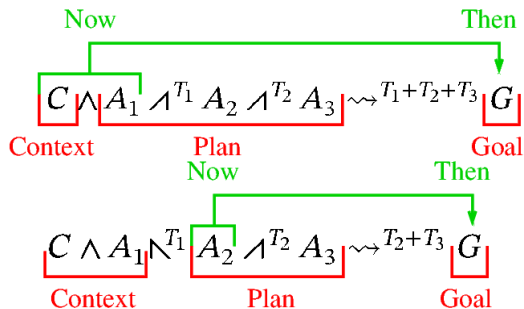
$$C \wedge A_1 \wedge^{T_1} A_2 \wedge^{T_2} A_3 \rightsquigarrow^{T_2+T_3} G$$

$$C \wedge A_1 \wedge^{T_1} A_2 \wedge^{T_2} A_3 \rightsquigarrow^{T_3} G$$

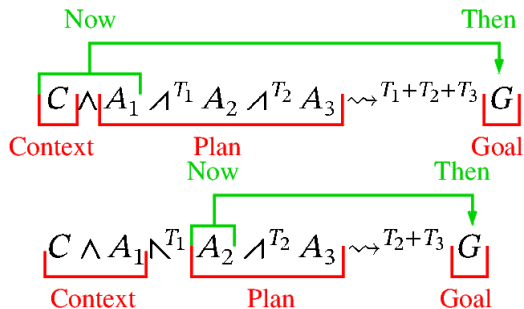


$$C \wedge A_1 \wedge^{T_1} A_2 \wedge^{T_2} A_3 \rightsquigarrow^{T_2+T_3} G$$

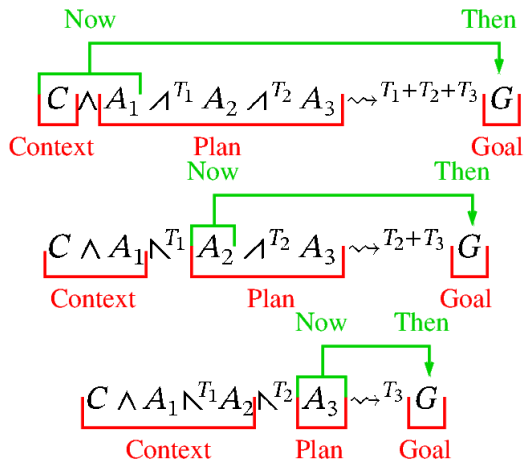
$$C \wedge A_1 \wedge^{T_1} A_2 \wedge^{T_2} A_3 \rightsquigarrow^{T_3} G$$



$$C \wedge A_1 \wedge^{T_1} A_2 \wedge^{T_2} A_3 \rightsquigarrow^{T_3} G$$



$$C \wedge A_1 \wedge^{T_1} A_2 \wedge^{T_2} A_3 \rightsquigarrow^{T_3} G$$



Example of schemata

Collect diamonds

Learning schemata

Balancing exploitation and exploration