[label=fly$_frog_pipeline$]$Cognitive casusal processing pipeline of the agent in the environment$
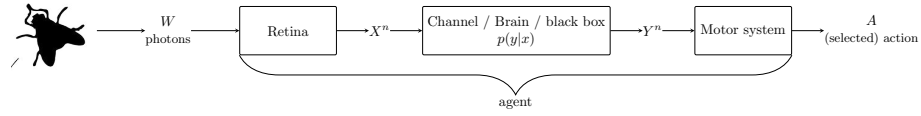
| | W photons | | Retina | X^n | Channel / Brain / black box $p(y|x)$ | Y^n | Motor system | A (selected) action |

agent

[label=algea$_pipeline$]$Cognitive casusal processing pipeline of the agent in the environment$

W photons → Retina → X^n → Channel / Brain / black box $p(y|x)$ → Y^n-
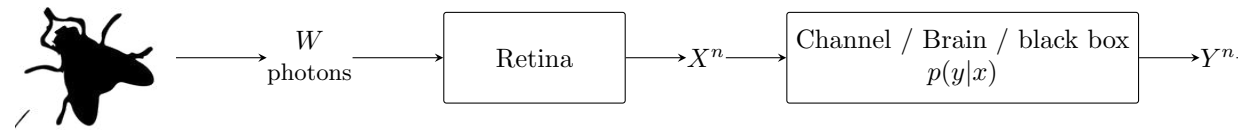
[label=jekely$_table$]$IO, ICTable$

Semantic appears in algae pipeline case.

A better name is "grounded" - in the Harnad sense.

From "semantic information," we want more: it should contain some "additional" information about structure (Plato's wax).

What's more, it should be compositional! Just as in the language of thought hypothesis, we should be able to know what "red apple" means if we know what "red lips" means (modulo "red herring cases").