

logic in color

[a visual language
for math education]

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The Proposal

Category theory is a way of thinking.

ACT needs to grow, a lot.

String Diagrams

can bring

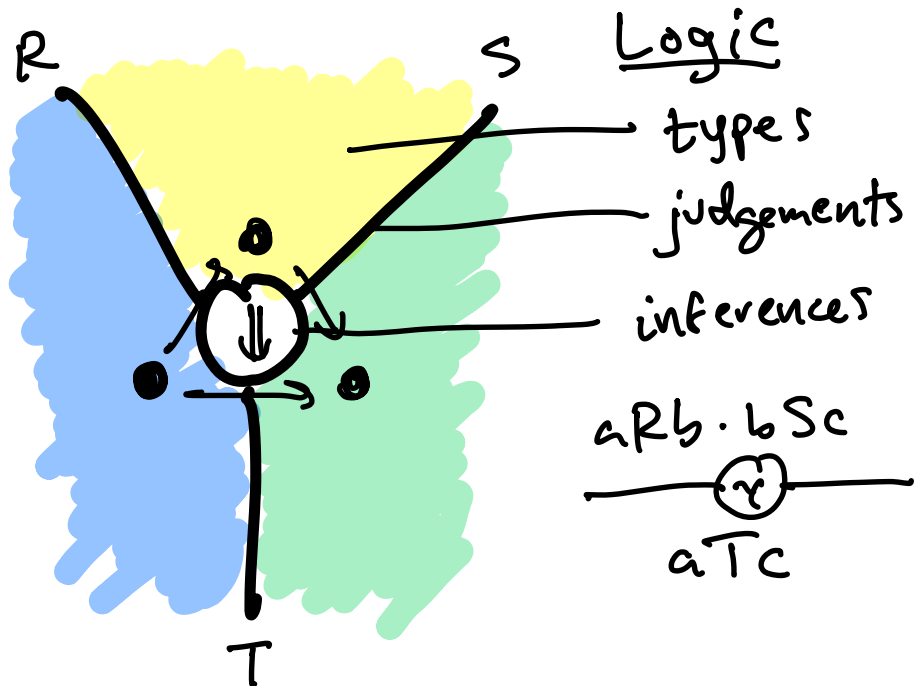
categorical thinking

to public education.

String diagrams [for 2-categories]

① symbols:
computation,
not thinking

② flips focus
from objects
to 2-morphisms
(inferences)



set

animal



relation

A eats P



implication

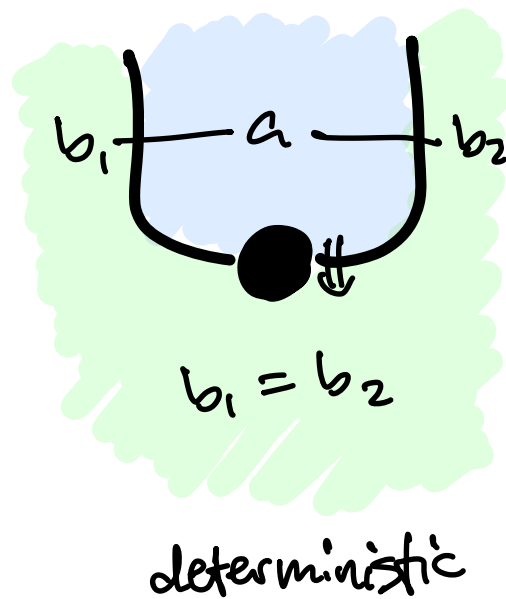
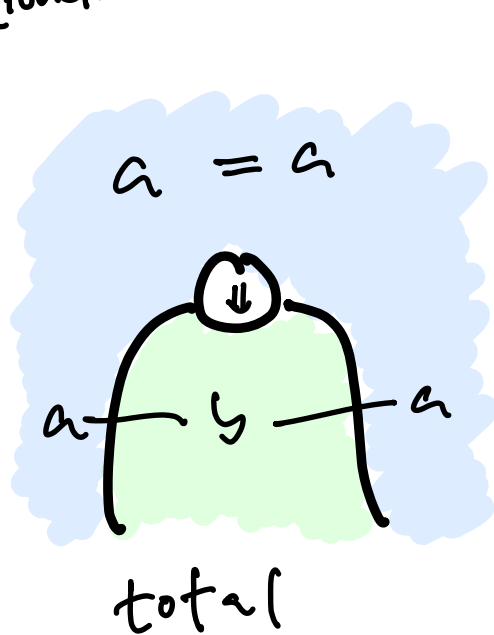
A absorbs energy P



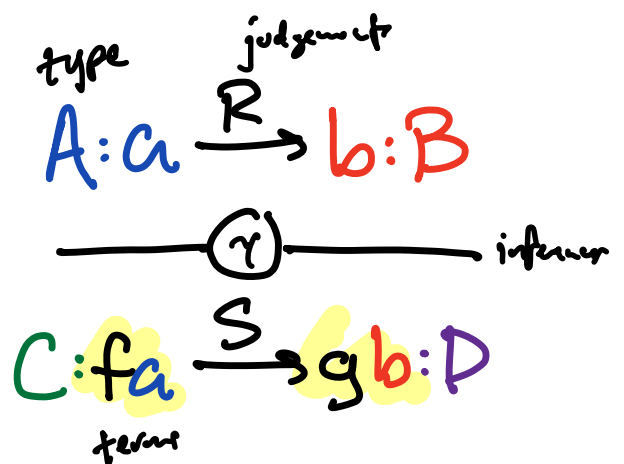
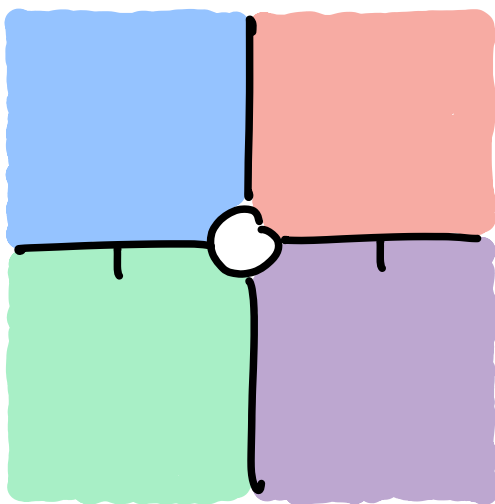
cousin = parent; sibling; child

discovering co/functions

(functions are left adjoints)



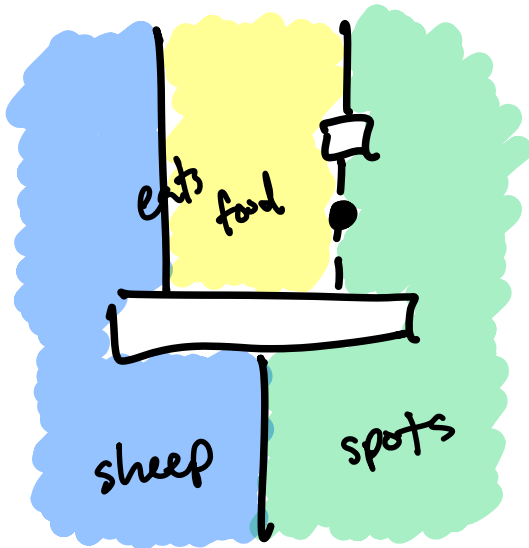
Equipments



Yoneda

[extensions by adjoints
can be expressed as composition]

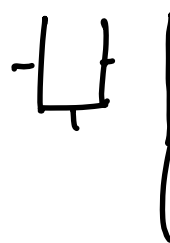
[Proarrows I]



food $\rightarrow$ spots:

$f \rightarrow s := \forall \text{ sheep.}$

$s \circ f \rightarrow s \circ h \circ s$



So: developing materials, looking for opportunities.

would love to meet, discuss & make stuff.

need to create an editor + library.

If you're interested, ideas, concerns, etc
please say hi at cbwill.math@gmail.com

Thank you!
— Christian