#flo #inclass

1 | ACT (applied category theory) <> linguistics?

sounds epic.

talk with Tai-Danae Bradley - she took, so can ask about: group theory and measure theory

- wrote the articles as a study tool, thought that the mathematical language was "a little terse"

- she chatted with 3b1b? also runs pbs infinite (that's her)

- wait… she works at googlex?? "the moonshot factory" sick. KBxSort#moonshot

    - or, worked? past tense?
    - recently spun out of alphabet and now works at `https://www.sandboxaq.com` (broke ssl?) #revisit check out later when not on nueva wifi

1.1 | linguistics and category theory

idea of algebraic: orange + fruit → orange fruit also an idea of statistical: orange + idea → orange idea? doesn't make sense. this is represented with frequency

is some type of mathematical structure → uses KBxSystemsofSystemsinNatureandDeepLearning#category theory and mathematics/quantum/index

1.1.1 | machine systems of language understanding

now we are talking about GPT3 and such corsaurus and pomes might be useful here asked for gpt to compare dolphins and some random singer, and it worked great!

so she asks, essentially, wtf? what is the math here, and how does it do it? answer: category theory, apparently.

> CT is the network of relationships between mathematical objects

CT is the bridge.

objects and morphisms

1. The Yoneda Lemma "an objet is completely determined by its relationships to other objects" this is, up to isomorphism KBx3DInclass#isomorphism KBx3DInclass#isomorphism relations

    two sets have the same cardinality iff they have the same num of elements set's Z and X, X^Z is the set of all functions from Z → X

    - the actual definition given sets X and Y, then X is isomorphic to Y iff $X^Z \cong Y^Z$ for all sets Z.