

'I know (how to implement) it when I see it'

if you show me a 'model-correct' system

• **Mid-correctness** is a property of bidirectional type systems.

• it is intuitively clear but logically vague;

• However, it can't be logically defined without a universal notion of language first.

(Un)fortunately, we have not agreed on any universal notation of languages.

- Edinburgh Logical Framework

ELF

oCannonicallE

- Dependent Multi-sorted
Binding Equational Logic

- Robin Adams' Hierarchy of Frameworks

oLUO'S PRAL+

• λ -calculus modulo

- generalised algebraic theories

- second-order generalised algebraic theories



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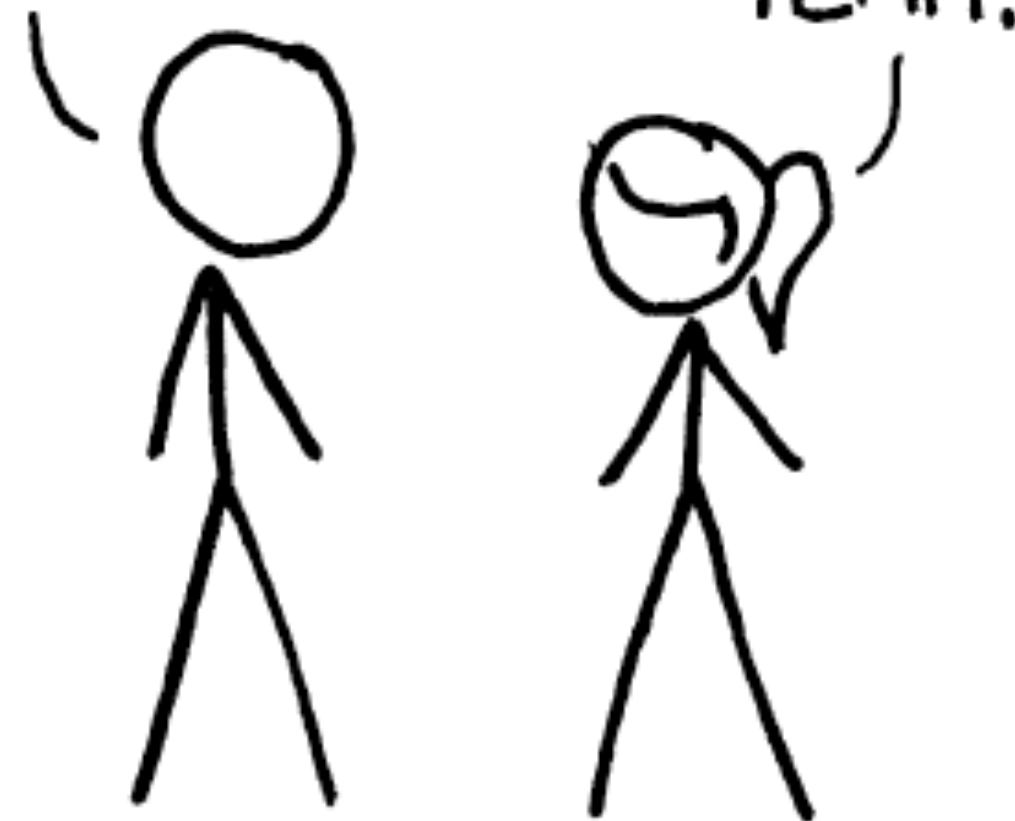
- ...

HOW STANDARDS PROLIFERATE:

(SEE: A/C CHARGERS, CHARACTER ENCODINGS, INSTANT MESSAGING, ETC.)

SITUATION:
THERE ARE
14 COMPETING
STANDARDS.

14?! RIDICULOUS!
WE NEED TO DEVELOP
ONE UNIVERSAL STANDARD
THAT COVERS EVERYONE'S
USE CASES.



SOON:

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15 COMPETING
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