“I know (how to implement) it when I see it”

if you show me a ‘mode-correct’ system

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- it is intuitively clear but **logically vague**;

- However, it can’t be logically defined **without a universal notion of languages** first.

- (Un)fortunately, we have not **agreed** on any universal notion of languages.

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- Canonical **LF**

- Dependent Multi-sorted Binding Equational Logic

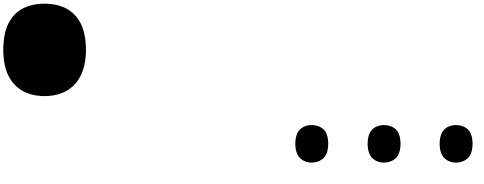
- Robin Adams' Hierarchy of Frameworks

- Luo's PAL+

- λΠ-calculus modulo

- generalised algebraic theories

- second-order generalised algebraic theories



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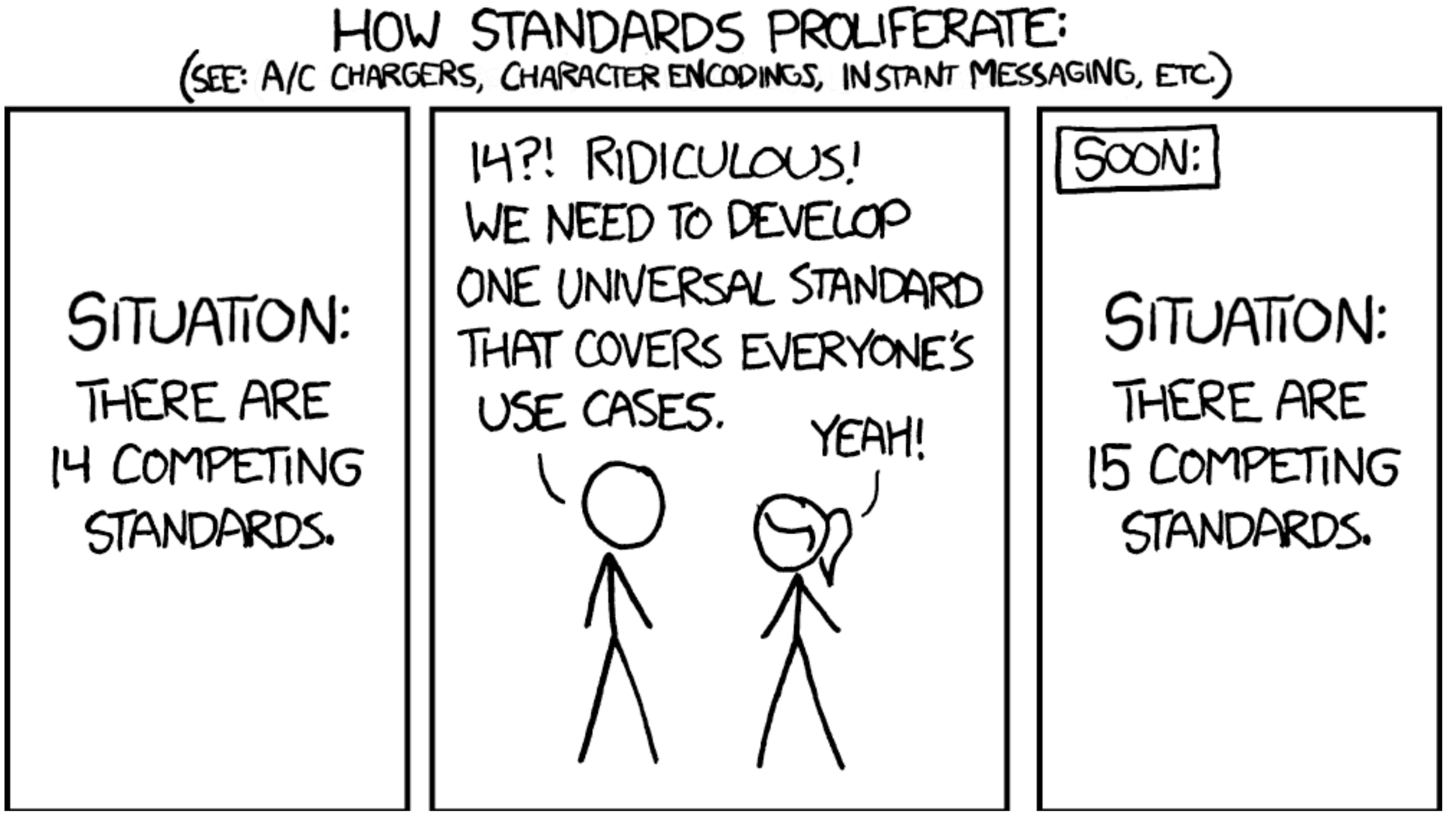

Standards, https://xkcd.com/927/