

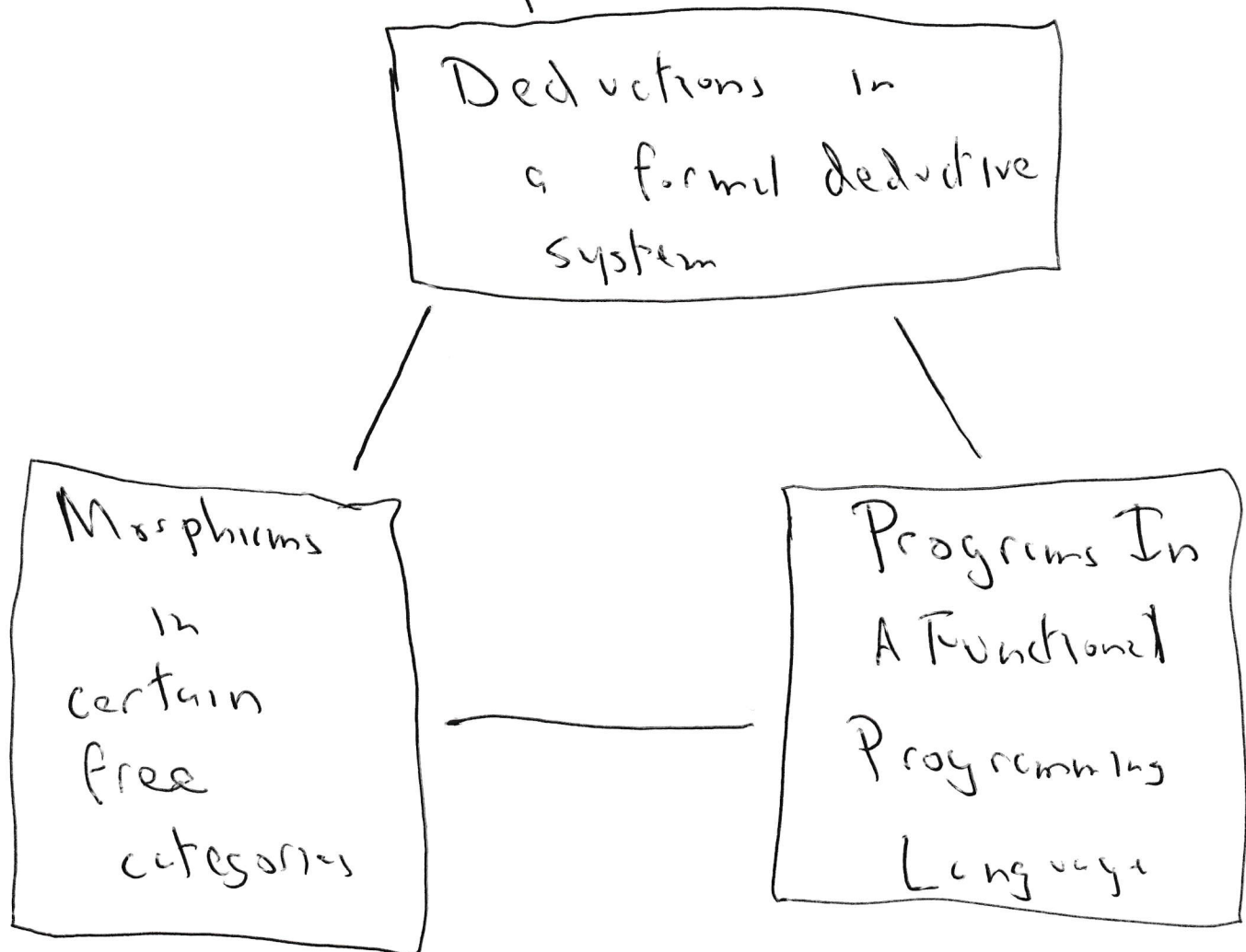
Reading Course Lecture 1

Main text

Lambek & Scott: Introduction to
Higher-Order Categorical Logic

Curry-Howard Isomorphism

There is a correspondence between

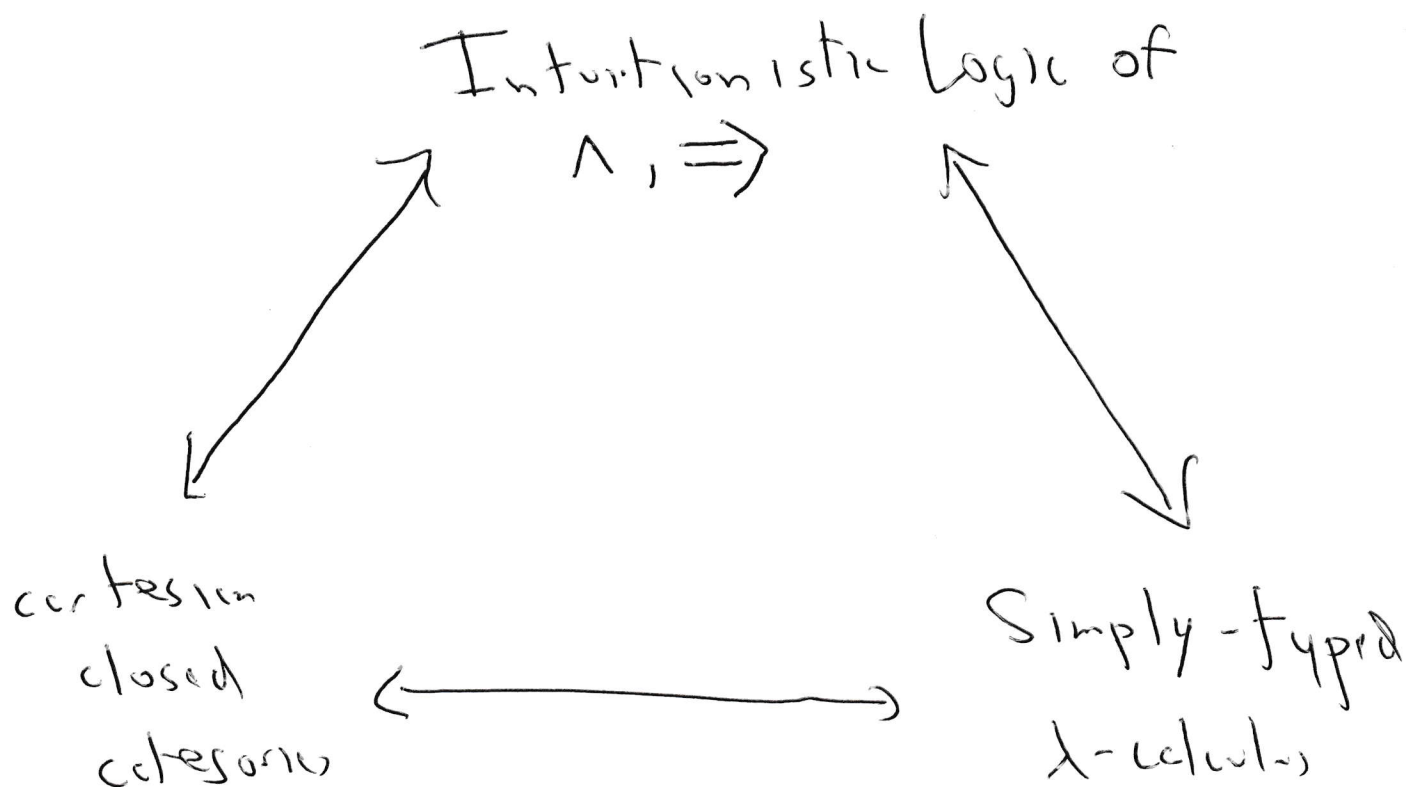


This correspondence is extremely general.

②

Different Logical systems correspond
to different programming languages
correspond to different languages.

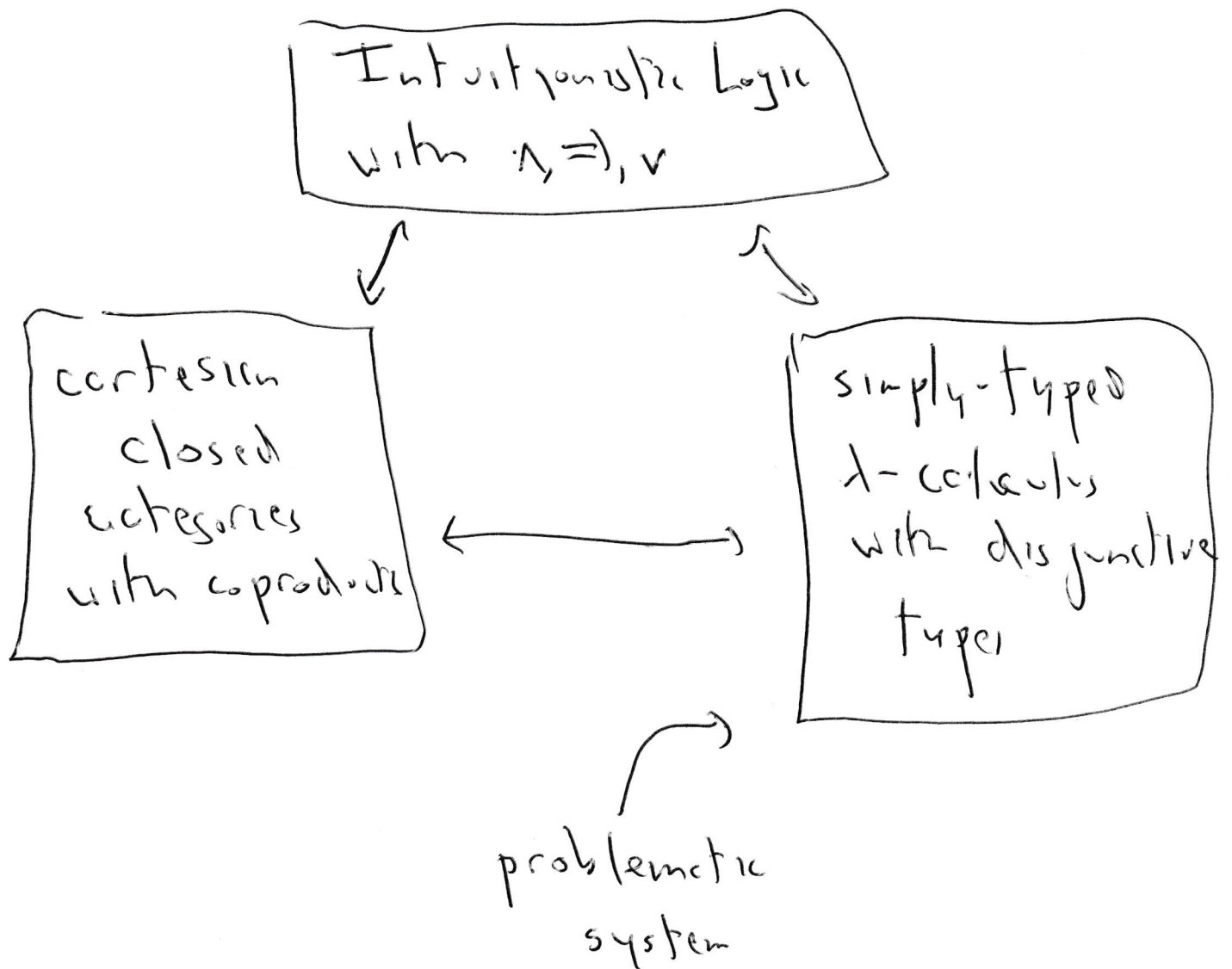
First Example



But the same ideas can be done
for other logics.

You can add disjunction to the previous.

③



Same thing with linear logic and its variants.