

p-set 1

Patrick D. Elliott¹ & Martin Hackl²

February 07, 2020

¹ pdell@mit.edu

² hackl@mit.edu

Deadline: 02.13 (i.e., before next class)

1 Warming up

(1) A philosopher has criticized most linguists. $\exists > \text{most}$

(2) Most professors gave every student a paper.
 $\text{most} > \forall > \exists$

Give a derivation of the indicated readings of the examples above using:

- Quantifier raising and predicate abstraction.³
- Continuation semantics with *flat lambda expressions*.⁴
- Continuation semantics with *towers*.

³ I.e., in-line with Heim & Kratzer (1998) – you should have covered this in semantics 101. Don't worry about trace conversion, just treat traces of movement as variables.

⁴ No towers allowed! Make sure to be explicit about types, as well as any β -reductions and α -conversions necessary.

Bonus round

Can you come up with a general *translation procedure* for going from a derivation using continuations to a derivation which makes use of quantifier raising? It might help to think about the role of LOWER in continuation semantics.

Bonus round

We haven't had a chance to cover inverse scope yet, but read chapter 4 of Barker & Shan 2014, and the relevant section of my handout, and try deriving the following readings of the first example:

(3) $\text{most} > \exists$

2 *Split scope*

Non upward-monotonic quantifiers give rise to so-called *split scope* readings across intensional verbs (Heim 2001).

- (4) The company need fire no employees.

It is not the case that the company is obligated to fire employees (Potts 2000)

The split scope reading – the one we’re interested in – entails a lack of obligation for the company. It seems to involve a noun-phrase *no employees* scoping in two different places at once.

- Analyze this phenomenon using continuation semantics.⁵

⁵ Hint: think the possibility of a meaning of type κ_t ($\kappa_t a$). Read chapter 4 of [Barker & Shan 2014](#).