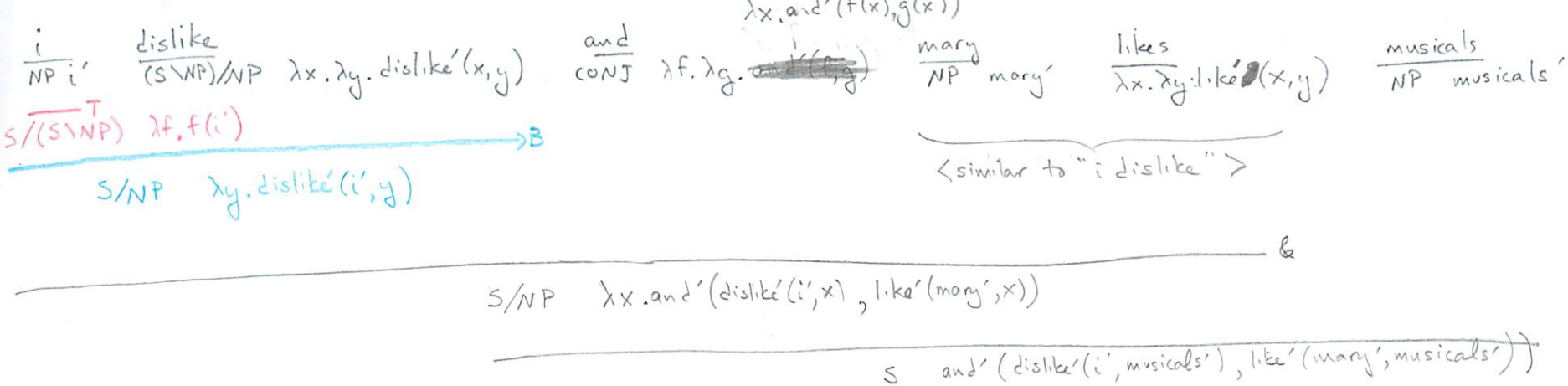
CS 6740/IS 6300
Lecture 10: more on CCGs



forward composition: $\frac{X/Y \quad Y/Z}{X/Z}$ f: domain Y → range X, g: domain Z → range Y
f(g): domain Z → range X

type raising: $\frac{X}{T/(T\backslash X)}$ for T some type

or $\frac{X}{T\backslash(T/X)}$ for some type T

Example: for i'^{NP}, i' is a function over possible relations over it.
i' applied to λx.run(x) is run(i')
i applied to λx.λy.dislike'(x,y) is λy.dislike(i',y)
So its domain is "things looking for an NP to the left", T\NP
Since the NP i' fulfills this desire, the result is a T.

If there's something to the left of this X that's looking for an X to the right, then this X satisfies its need.