

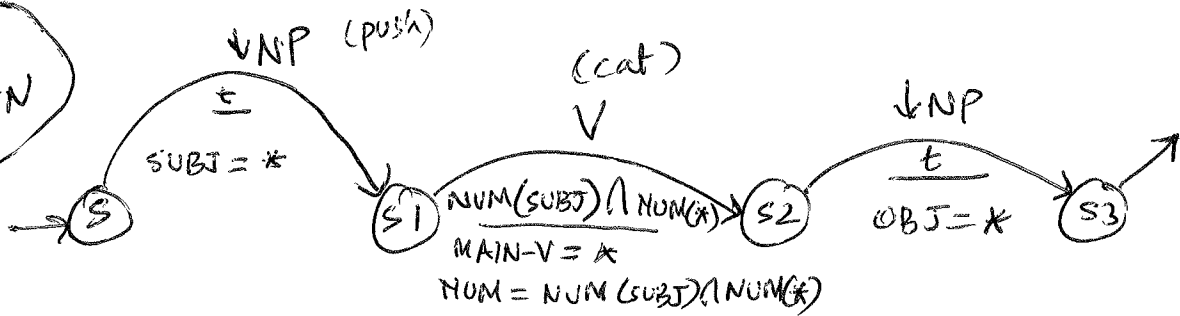
A ATN Parsing
 * Representing Meaning
 * Extra to Logic.

* Assignment #5
 is posted.

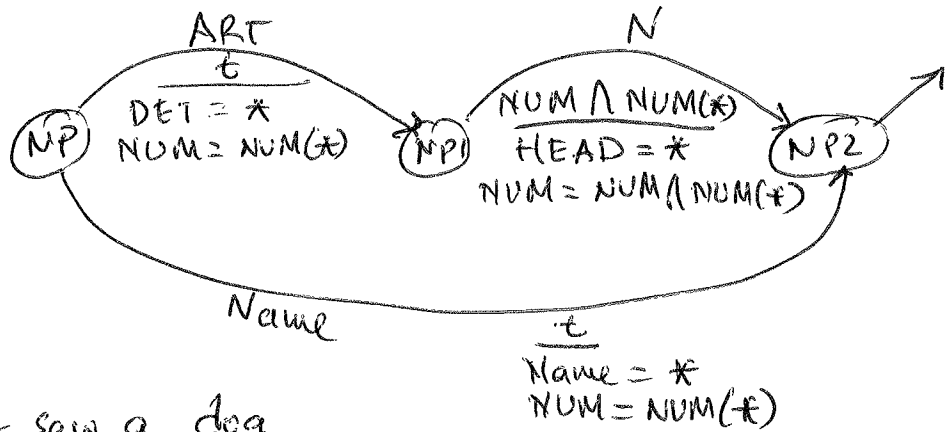
Nov. 20

ATN's - Augmented Transition Networks

First,
 just RTN

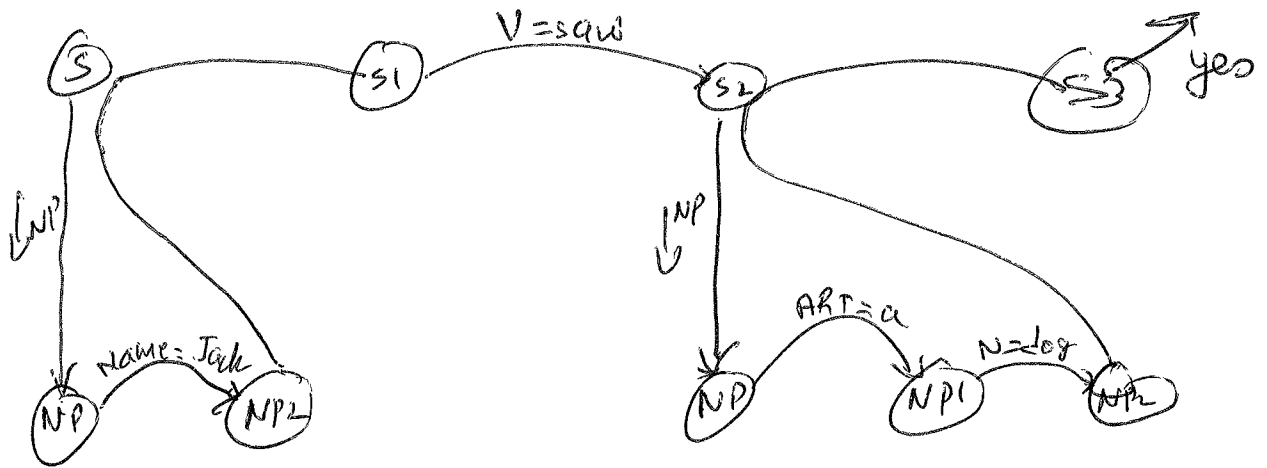


1



e.g. Jack saw a dog
 Name V ART N

RTN



2

Q. How to generate a parse?

Augment the RTN

Augmentations

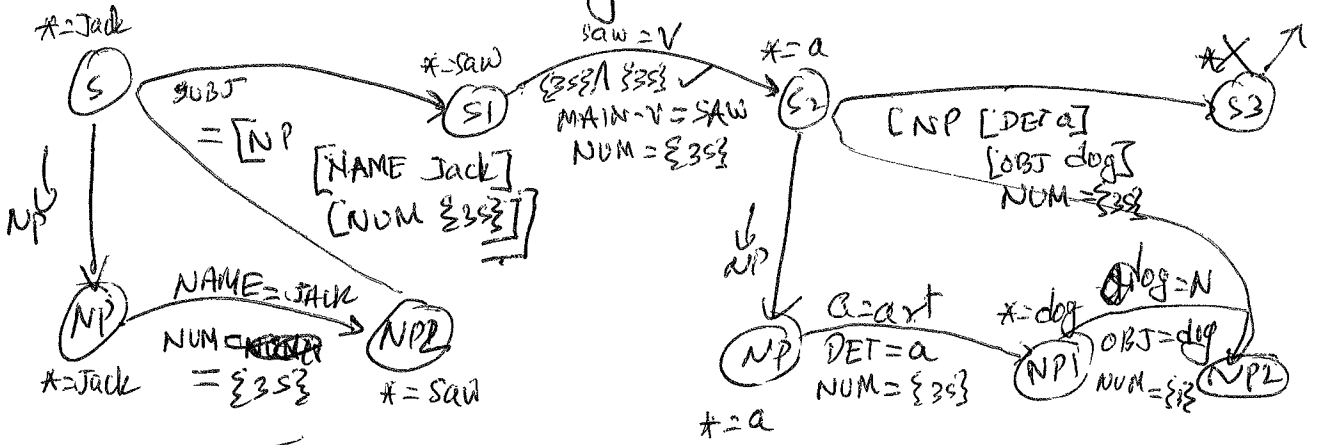
1. test on each arc (used for number agreement)
2. Registers: to hold constituent structures.
 - each push (or) creates new registers
 - actions set values to registers
 - on pop registers are assembled to form structure in *
3. Actions
4. * means current input word or structure

(3)

Handout Lexicon

Try

Jack saw a dog



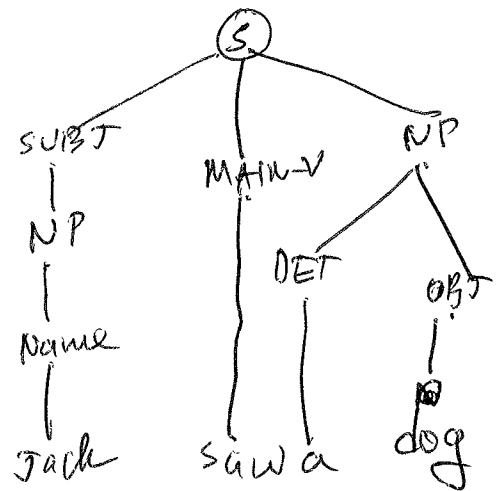
(4)

[SUBJ
[S [NP [Name Jack]
[NUM {3s}]]]]

[MAIN-V saw]
[NUM {3s}]
[NP [DET a]
[OBJ dog]
[NUM {3s}]]]

(5)

(6)



Next: Try (1) The dog cried (2) The dog saw Jack (3)

Do Parsing Colab