

PARSING LAB

Building Context-Free Grammars

- (1) Go to <http://www.ciscl.unisi.it/lingcomp/lab/labN/> (where "N" is a numeric code that will be assigned to you by the teacher)
- (2) Open the editor by clicking on the link (**edit grammar**)
- (3) insert the following "rules" and "lexicon" items (you can translate them into your favorite language if you prefer!)

Rules	Lexicon
S > DP VP	D > the
DP > D N	D > a
VP > V DP	D > two
	N > boy
	N > boys
	N > dog
	N > dogs
	V > chase
	V > chases

- (4) write, one sentence at time, the following sentences (**step 1 – write a sentence** and try parsing them (**step 3 – parse it!**) using various algorithms (**step 2 - select a parsing algorithm**):
 1. The boy chases a dog
 2. The boy chases the dog
 3. Two boys chase to dogs
 4. ...
- (5) alter the grammar to capture agreement phenomena
- (6) introduce ambiguity in the lexicon (V > dog; V > dogs...) and try parsing the very same sentences
- (7) build a grammar adequate for capturing all possible senses of these sentences:
 1. Time flies like an arrow;
 2. Fruit flies like a banana
 3. John saw a man in the park with the binocular

References

PAB can be freely tested here:
<http://www.ciscl.unisi.it/progetti/pab/>