Handout 14 Grammar

Grammar

1. Simplest sentences. ("VC" for "verb cluster.")

$$S \rightarrow NP\ VP$$
$$NP \rightarrow Name$$
$$VP \rightarrow VC \mid VC\ NP$$

2. Kernel NP: noun modifier sequence

$$NP \rightarrow Name \mid Pron \mid Det\ N3$$
$$N3 \rightarrow Num\ N2 \mid Seq\ N2 \mid N2$$
$$N2 \rightarrow Adj\ N2 \mid N1$$
$$N1 \rightarrow N\ N1 \mid N$$

3. Post-modifiers of NP: PP and relative clause. Subject relative clause: *the dog [that barks]* (RelPron VP), object relative clause: *the dog [that I saw]* (RelPron S).

$$NP \rightarrow NP\ PP \mid NP\ RC$$
$$PP \rightarrow P\ NP$$
$$RC \rightarrow RelPron\ VP \mid RelPron\ S$$

4. Verbs and complements

$$VP \rightarrow VC\ NP\ NP \mid VC\ NP\ PP \mid VC\ SC \mid VC\ Inf$$
$$Inf \rightarrow InfTo\ VP$$

5. Verb clusters

$$VC \rightarrow Mod\ V3 \mid V3$$
$$V3 \rightarrow PerfAux\ V2 \mid V2$$
$$V2 \rightarrow ProgAux\ V1 \mid V1$$
$$V1 \rightarrow PassAux\ V \mid V$$

6. Root sentence types: declarative, imperative, interrogative (yes-no, wh)

$$Root \rightarrow S$$
$$Root \rightarrow VP$$
$$Root \rightarrow Aux\ S$$
$$Root \rightarrow Wh\ Aux\ S$$

Lexicon

Name → Fido
Pron → she | he | her | him | it | they | them | I | me | you
Det → the | a | an | several | every | some | my | your | her | his | its | their
Num → zero | one | . . . | nine | ten | eleven | . . .
Seq → first | second | . . . | last | next | previous
Adj → fat | orange | bright | twinkling
N → dog | cat | mat | guitar | strap | face | card | . . .
P → on | in | of | for | by | with | near

Mod → can | should | might | will
PerfAux → have
ProgAux → be
PassAux → be
V → chased | sleeps | gave | is | put | think | want