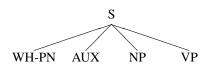
CS6740/INFO 6300: Advanced Language Technologies, Spring 2010 4/20/10: Lecture handout

1. Sample lexicon entry for "notify" (the 3rd person plural, say: "In such cases, police notify next-of-kin", not the version that allows a second argument, e.g., "Police notify victims that they have certain rights"). ¹

2. Sample branch for standard transitive-verb construction.

$$\begin{array}{c} \text{VP} \\ \hline \text{V} \\ \text{NP} \end{array} \hspace{0.5cm} (i) \left\langle \text{ VP HEAD } \right\rangle = \left\langle \text{ V HEAD } \right\rangle \\ \\ (ii) \left\langle \text{ V HEAD SUBCAT FIRST CAT } \right\rangle = \text{NP} \\ \\ (iii) \left\langle \text{ V HEAD SUBCAT FIRST HEAD } \right\rangle = \left\langle \text{ NP HEAD } \right\rangle \\ \\ (iv) \left\langle \text{ V HEAD SUBCAT SECOND } \right\rangle = \text{end} \\ \\ (v) \left\langle \text{ NP HEAD CASE } \right\rangle = \text{accusative} \\ \\ \\ (... \text{ and then later, (vi) } \left\langle \text{ VP GAPINFO } \right\rangle = \left\langle \text{ NP GAPINFO } \right\rangle) \end{array}$$

3. Question inversion, a form of filler-gap long-distance dependency: "whom do police notify"?



- 1. $\langle AUX HEAD AGREEMENT \rangle = \langle NP HEAD AGREEMENT \rangle$
- 2. $\langle VP | HEAD | SUBCAT | SUBJ | HEAD | RESTRICT \rangle = \langle NP | HEAD | RESTRICT \rangle$
- 3. $\langle VP GAPINFO CAT \rangle = NP$
- 4. $\langle VP GAPINFO NULL \rangle = \oplus$
- 5. $\langle WH-PN HEAD \rangle = \langle VP GAPINFO HEAD \rangle$
- 6. $\langle WH-PN NULL \rangle = --$

¹Here we ignore the use of inheritance from "base" forms for simplicity; in practice we would not want to reduplicate information on subcategorization, say, in the lexical entry for "notifies", "notified", and "notifying".