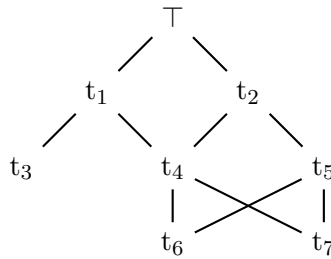


# Typed Feature Structures

11.11.2011

Perform the three unification operations below, using the given type hierarchy. But first, modify the type hierarchy to specify any additional GLB types that are necessary.



1.

$$\left[ \begin{array}{c} F_1 \left[ \begin{array}{c} \boxed{1} \\ t_3 \end{array} \right] \\ F_2 \left[ \begin{array}{c} G_1 \ t_2 \\ G_2 \ \boxed{1} \end{array} \right] \end{array} \right]_{t_1} \cup \left[ \begin{array}{c} F_2 \ \boxed{1} \\ F_3 \ \boxed{1} \left[ \begin{array}{c} G_1 \ t_2 \\ G_3 \ t_1 \end{array} \right] \end{array} \right]_{t_1}$$

2.

$$\left[ \begin{array}{c} F_1 \ \boxed{1} \\ F_2 \left[ \begin{array}{c} G_1 \ \boxed{1} \end{array} \right] \end{array} \right]_{t_1} \cup \left[ \begin{array}{c} F_1 \left[ \begin{array}{c} G_1 \ \boxed{1} \end{array} \right] \\ F_3 \ \boxed{1} \end{array} \right]_{t_3}$$

3.

$$\left[ \begin{array}{c} F_1 \ \boxed{1} \ t_4 \\ F_2 \ \boxed{1} \end{array} \right]_{t_1} \cup \left[ \begin{array}{c} F_2 \ \boxed{1} \ t_5 \\ F_3 \ \boxed{1} \end{array} \right]_{t_2}$$