Cem Bozşahin

August 1, 2017

Examples with the $\csin {n}{derivations}$ command:

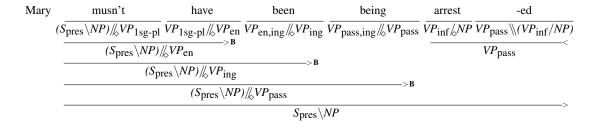
$$\frac{\text{John}}{S/(S \backslash NP)} \frac{\text{likes}}{(S \backslash NP_{3s})/NP} \frac{\text{Mary}}{(S \backslash NP) \backslash ((S \backslash NP)/NP)} \\ : \lambda p. p. john' : \frac{\lambda x \lambda y. like' xy}{S \backslash NP : \lambda y. like' mary' y} \\ \frac{S \backslash NP : \lambda y. like' mary' y}{S : like' mary' john'} >$$

$$\frac{\text{John}}{S/(S\backslash NP)} \frac{\text{likes}}{(S\backslash NP_{3s})/NP} \frac{\text{Mary}}{S\backslash (S/NP)} : \lambda p.p \ john' : \lambda x \lambda y.like' xy : \lambda p.p \ mary'}{\frac{S/NP : \lambda x.like' x john'}{S : like' mary' john'}}$$

$$\frac{\text{dismiss}}{VP_{\text{inf}}/NP: \lambda x \lambda y. dismiss' xy} \frac{-\text{ed}}{(S \backslash NP_{\text{agr}}) \backslash VP_{\text{inf}}: \lambda p \lambda y. past'(Py)}}{(S \backslash NP_{\text{agr}})/NP: \lambda x \lambda y. past'(dismiss' xy)}^{< B_{\times}}$$

$$\frac{\text{Mary } \underset{(S_{\overline{\text{pres}}}\backslash NP) / \hspace{-0.1cm} / VP_{1sg-pl}}{\text{musn't}} \underset{VP_{1sg-pl} / VP_{1sg-pl} / VP_{en,ing} / VP_{ing}}{\text{been}} \underbrace{\frac{\text{being}}{VP_{pass,ing} / \hspace{-0.1cm} / VP_{pass}} \underbrace{\frac{\text{arrest}}{VP_{inf} / NP} \underbrace{\frac{\text{-ed}}{VP_{pass} \backslash (VP_{inf} / NP)}}_{VP_{pass}} \times \underbrace{\frac{(S_{pres} \backslash NP) / \hspace{-0.1cm} / VP_{ing}}{(S_{pres} \backslash NP) / \hspace{-0.1cm} / VP_{pass}}}^{\text{been}} \xrightarrow{> B} \underbrace{\frac{(S_{pres} \backslash NP) / \hspace{-0.1cm} / VP_{pass}}{VP_{pass}}}_{> B} \times \underbrace{\frac{(S_{pres} \backslash NP) / \hspace{-0.1cm} / VP_{pass}}{(S_{pres} \backslash NP) / \hspace{-0.1cm} / VP_{pass}}}_{> D_{pres} \backslash NP} \times \underbrace{\frac{\text{arrest}}{VP_{pass} / VP_{pass}}} \underbrace{\frac{\text{-ed}}{VP_{pass} / VP_{pass}}}_{> D_{pass} / VP_{pass}} \times \underbrace{\frac{\text{-ed}}{VP_{pass} / VP_{pass}}}_{> D_{pass} / VP_{pass}}}_{> D_{pass} / VP_{pass}} \times \underbrace{\frac{\text{-ed}}{VP_{pass} / VP_{pass}}}_{> D_{pass} / VP_{pass}}}_{> D_{pass} / VP_{pass}} \times \underbrace{\frac{\text{-ed}}{VP_{pass} / VP_{pass}}}_{> D_{pass} / VP_{pass}}}_{> D_{pass} / VP_{pass}} \times \underbrace{\frac{\text{-ed}}{VP_{pass} / VP_{pass}}}_{> D_{pass} / VP_{pass}}}_{> D_{pass} / VP_{pass}} \times \underbrace{\frac{\text{-ed}}{VP_{pass} / VP_{pass}}}_{> D_{pass} / VP_{pass}}}_{> D_{pass} / VP_{pass}}}$$

Example above using \begin{ccg}{n}{data}{derivations}\end{ccg}. This environment puts in the first lines itself. Based on \cgex. No gloss line on top.



Another example, to show glossing in the beginning and the end.

It uses \begin{ccgg}{n}{data}{gloss}{derivations}\end{ccgg}.

$$\frac{\text{ver-dir}}{\text{give-caus}} \frac{\text{-t}}{\text{-caus}} \frac{\text{-ti.}}{\text{-past}}$$

$$\frac{VP_{\text{inf}} \backslash NP_{\text{dat}} \backslash NP_{\text{dat}} \backslash NP_{\text{acc}}}{: \lambda x \lambda y \lambda z. \text{give'} yxz} \frac{(S \backslash NP_{\text{nom}} \backslash NP_{\text{case}}) \backslash \backslash VP_{\text{inf}}}{: \lambda p \lambda x \lambda y. \text{cause'} (px) y} \frac{S \backslash NP_{\text{nom}} \backslash NP_{\text{dat}} \backslash NP_{\text{dat}} \backslash NP_{\text{acc}}}{: \lambda x_1 \lambda x_2 \lambda x_3 \lambda x_4 \lambda x_5. \text{cause'} (\text{cause'} (\text{give'} x_1 x_2 x_3) x_4) x_5}$$

$$\text{`made to let give', from Turkish}$$