

Project and attach probabilities (conditioned on left corner and goal slot)							
l. corner	goal cat.	P(attach)	Pr(X1)	Pr(START)	Pr(X2)	Pr(X3)	sum
.	START-slot3	0.333333	0.333333		0.333333	0	1
.	X1-slot3	1	0		0	0	1
.	X2-slot3	0.980654	0.009673		0.009673	0	1
.	X3-slot3	0.333333	0.333333		0.333333	0	1
.	X3-slot5	1	0		0	0	1
X1	START-slot3	0.717177	0.004008		0	0.278816	1
X1	X1-slot3	0	0.87419		0	0.12581	1
X1	X2-slot3	0.113067	0.014768		0	0.872165	1
X1	X3-slot3	0	0.864593		0	0.135407	1
X1	X3-slot5	0	0.142307		0	0.857693	1
X2	START-slot3	0.090056	0.909944		0	0	1
X2	X1-slot3	0.83865	0.16135		0	0	1
X2	X2-slot3	0	1		0	0	1
X2	X3-slot3	0	1		0	0	1
X2	X3-slot5	0	1		0	0	1
X3	START-slot3	1	0		0	0	1
X3	X1-slot3	1	0		0	0	1
X3	X2-slot3	1	0		0	0	1
X3	X3-slot3	0.333258	0.333258		0.333258	0.000226	1
X3	X3-slot5	0.333258	0.333258		0.333258	0.000226	1
a	START-slot3	0	0		1	0	1
a	X1-slot3	0	0		1	0	1
a	X2-slot3	0	0		1	0	1
a	X3-slot3	0	0		1	0	1
a	X3-slot5	0	0		1	0	1
b	START-slot3	0.167735	0.167735		0.66453	0	1
b	X1-slot3	1	0		0	0	1
b	X2-slot3	1	0		0	0	1
b	X3-slot3	1	0		0	0	1
b	X3-slot5	0.167735	0.167735		0.66453	0	1

Table 1: Left corner probabilities computed directly from labels in treebank

Shift probabilities (conditioned on starred nonT and its right sister)				
starCat.	goalCat.	Sh(b)	Sh(a)	Sh(.)
START-slot2	START-slot3	5.680614085033505E-38	1.0	5.680614085033505E-38
X1-slot2	X1-slot3	0.16971285132938918	4.227229897655944E-27	0.8302871486706107
X2-slot2	X2-slot3	0.6476908049132045	0.35230919508679553	4.770140752211589E-47
X3-slot2	X3-slot3	0.9999999999999998	1.4914560634529353E-16	1.4914560634529353E-16
X3-slot4	X3-slot5	1.4914560634529309E-16	1.4914560634529309E-16	0.9999999999999998

Table 2: Left corner probabilities estimated from treebank