

SUPAR (UD)								
	Experiment 1		Experiment 2		Experiment 3		Average	
	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Bulgarian (BTB)	93.03	89.09	92.93	89.02	93.17	89.12	93.04	89.08
Catalan (AnCora)	93.06	90.74	93.11	90.79	93.15	90.81	93.11	90.78
Czetch (FicTree)	91.77	87.91	91.64	87.68	91.91	87.88	91.77	87.82
Hindi (HDTB)	94.15	90.73	94.26	90.85	94.21	90.78	94.21	90.79
Italian (ISDT)	92.41	89.76	92.21	89.70	92.14	89.51	92.25	89.66
Norwegian (Bokmaal)	90.76	88.53	90.90	88.68	90.75	88.45	90.80	88.55
Polish (LFG)	94.83	92.53	94.68	92.27	94.70	92.10	94.74	92.30
Russian (SynTagRus)	93.24	91.23	93.27	91.22	93.19	91.16	93.23	91.20
Slovenian (SSJ)	90.67	88.36	91.05	88.81	91.26	89.02	90.99	88.73
Spanish (AnCora)	89.93	86.98	90.04	86.92	90.13	86.99	90.03	86.96

Control Set								
(Average of 3 experiments)	SuPar		SyntacticPointer		Difference		Error reduction (Syn. vs Su.)	
	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Bulgarian (BTB)	93.04	89.08	92.45	88.14	0.59	0.93	7.86	7.87
Catalan (AnCora)	93.11	90.78	93.10	90.76	0.01	0.02	0.14	0.18
Czetch (FicTree)	91.77	87.82	91.97	87.63	-0.19	0.19	-2.41	1.56
Hindi (HDTB)	94.21	90.79	94.24	90.86	-0.04	-0.08	-0.64	-0.84
Italian (ISDT)	92.25	89.66	92.44	89.89	-0.19	-0.23	-2.51	-2.31
Norwegian (Bokmaal)	90.80	88.55	91.51	89.27	-0.70	-0.72	-8.28	-6.71
Polish (LFG)	94.74	92.30	94.34	91.42	0.40	0.88	7.06	10.29
Russian (SynTagRus)	93.23	91.20	93.18	91.16	0.06	0.04	0.83	0.45
Slovenian (SSJ)	90.99	88.73	90.15	87.77	0.84	0.96	8.56	7.85
Spanish (AnCora)	90.03	86.96	92.11	89.54	-2.08	-2.58	-26.37	-24.63
Average	92.42	89.59	92.55	89.65	-0.13	-0.06	-1.58	-0.63
							-1.74	-0.66

Error reduction (Su. vs D2L.)	
UAS	LAS
-46.86	-33.48
-47.68	-47.54
-47.41	-31.78
-34.29	-28.55
-31.71	-25.27
-35.01	-35.41
-62.57	-59.31
-40.84	-36.53
-67.14	-63.86
-7.06	-6.52
-42.06	-36.82
-40.78	-35.57

Error reduction (Su. vs Syn.)	
UAS	LAS
-8.53	-8.54
-0.15	-0.18
2.35	-1.59
0.63	0.83
2.45	2.26
7.65	6.29
-7.60	-11.47
-0.84	-0.45
-9.36	-8.52
20.87	19.76
0.75	-0.16
1.71	0.56

SyntacticPointer (UD)								
Evaluation values removing cycles	Experiment 1		Experiment 2		Experiment 3		Average	
	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Bulgarian (BTB)	92.25	87.96	92.50	88.17	92.60	88.30	92.45	88.14
Catalan (AnCora)	93.06	90.70	93.12	90.80	93.11	90.79	93.10	90.76
Czetch (FicTree)	91.64	87.14	92.19	87.99	92.07	87.76	91.97	87.63
Hindi (HDTB)	94.34	90.99	94.21	90.75	94.18	90.85	94.24	90.86
Italian (ISDT)	92.41	89.81	92.34	89.86	92.58	90.00	92.44	89.89
Norwegian (Bokmaal)	91.46	89.21	91.48	89.27	91.58	89.34	91.51	89.27
Polish (LFG)	94.45	91.58	94.36	91.42	94.20	91.25	94.34	91.42
Russian (SynTagRus)	93.20	91.17	93.18	91.19	93.15	91.13	93.18	91.16
Slovenian (SSJ)	89.96	87.58	90.40	87.96	90.09	87.77	90.15	87.77
Spanish (AnCora)	92.22	89.68	91.98	89.31	92.14	89.63	92.11	89.54

Control Set								
(Average of 3 experiments)	DepToLabel		SyntacticPointer		Difference		Error reduction (Syn. vs D2L.)	
	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Bulgarian (BTB)	89.78	85.42	92.45	88.14	-2.67	-2.72	-35.32	-22.97
Catalan (AnCora)	89.82	86.40	93.10	90.76	-3.28	-4.37	-47.46	-47.28
Czetch (FicTree)	87.87	83.95	91.97	87.63	-4.09	-3.68	-50.95	-29.72
Hindi (HDTB)	92.22	88.16	94.24	90.86	-2.02	-2.71	-35.15	-29.62
Italian (ISDT)	89.80	87.04	92.44	89.89	-2.65	-2.85	-35.02	-28.16
Norwegian (Bokmaal)	87.58	84.50	91.51	89.27	-3.92	-4.77	-46.19	-44.50
Polish (LFG)	91.44	87.73	94.34	91.42	-2.89	-3.68	-51.09	-42.91
Russian (SynTagRus)	90.47	87.99	93.18	91.16	-2.71	-3.17	-39.67	-35.91
Slovenian (SSJ)	84.95	81.53	90.15	87.77	-5.20	-6.24	-52.83	-50.99
Spanish (AnCora)	89.33	86.11	92.11	89.54	-2.78	-3.43	-35.29	-32.76
Average	89.33	85.88	92.55	89.65	-3.22	-3.76	-42.90	-36.48
							-43.23	-36.33

Error reduction (D2L. vs Su.)	
UAS	LAS
31.91	25.08
32.29	32.22
32.16	24.12
25.54	22.21
24.08	20.17
25.93	26.15
38.49	37.23
29.00	26.76
40.17	38.97
6.59	6.12
28.61	25.90
28.97	26.24

Error reduction (D2L. vs Syn.)	
UAS	LAS
26.10	18.68
32.19	32.10
33.75	22.91
26.01	22.85
25.94	21.97
31.60	30.80
33.81	30.03
28.40	26.42
34.57	33.77
26.09	24.68
29.85	26.42
30.18	26.65

DepToLabel (UD)								
	Experiment 1		Experiment 2		Experiment 3		Average	
	UAS	LAS	UAS	LAS	UAS	LAS	UAS	LAS
Bulgarian (BTB)	89.82	85.28	89.83	85.53	89.70	85.45	89.78	85.42
Catalan (AnCora)	89.61	86.06	90.14	86.87	89.71	86.26	89.82	86.40
Czetch (FicTree)	88.00	84.23	87.84	83.69	87.78	83.94	87.87	83.95
Hindi (HDTB)	92.21	88.10	92.26	88.26	92.19	88.11	92.22	88.16
Italian (ISDT)	90.00	87.25	89.78	86.95	89.61	86.93	89.80	87.04
Norwegian (Bokmaal)	87.61	84.51	87.54	84.51	87.60	84.48	87.58	84.50
Polish (LFG)	91.45	87.70	91.39	87.69	91.49	87.81	91.44	87.73
Russian (SynTagRus)	90.47	88.05	90.55	88.07	90.39	87.85	90.47	87.99
Slovenian (SSJ)	85.10	81.69	85.06	81.64	84.68	81.27	84.95	81.53
Spanish (AnCora)	89.33	86.12	89.23	85.90	89.43	86.32	89.33	86.11