A   English Link Types

Recall that `http://www.abisource.com/projects/link-grammar/dict/summarize-links.html` documents the 122 link types in the English link grammar lexicon. Below is the result of our largest English run, whose corpus uses 113 of these types.

Other researchers could postprocess link grammar parses by using the first two columns. These indicate whether a given link label L tended to be oriented rightward or leftward by our ILP.

The labels that do not have a consistent direction are mainly those that connect a conjunction to its conjuncts.[9] Our coarsening of the labels (see section 5.1) discarded the characters that distinguish left from right conjuncts.

The third column indicates where multi-headedness happens, by showing how often the child of an L link had additional parents as well.

The remaining columns compare to the CoNLL parses. They show the fraction of L-labeled link tokens that were also present in the CoNLL reference parse—and on that fraction, whether the orientation matches CoNLL's and what the dominant CoNLL label was.

Label	Rightward	Multiheaded	CoNLL Match	CoNLL Dir Match	CoNLL Label
A	0% (0/8501)	0% (0/8501)	84% (7148/8501)	98% (7002/7148)	NMOD 98% (7000/7148)
AA	0% (0/4)	0% (0/4)	-	-	-
AF	84% (16/19)	37% (7/19)	32% (6/19)	0% (0/6)	VMOD 83% (5/6)
AJ	50% (131/262)	0% (0/262)	86% (225/262)	99% (223/225)	COORD 97% (218/225)
AL	100% (71/71)	99% (70/71)	-	-	-
AM	0% (0/45)	0% (0/45)	51% (23/45)	65% (15/23)	AMOD 65% (15/23)
AN	0% (0/9401)	0% (0/9401)	83% (7825/9401)	98% (7639/7825)	NMOD 96% (7523/7825)
AZ	100% (2/2)	0% (0/2)	100% (2/2)	100% (2/2)	ADV 100% (2/2)
B	100% (1514/1515)	61% (919/1515)	53% (806/1515)	84% (678/806)	NMOD 75% (603/806)
BI	100% (34/34)	0% (0/34)	38% (13/34)	100% (13/13)	VMOD 77% (10/13)
BW	100% (1/1)	100% (1/1)	100% (1/1)	0% (0/1)	OBJ 100% (1/1)
C	100% (3272/3272)	0% (0/3272)	3% (85/3272)	53% (45/85)	NMOD 27% (23/85)
CC	100% (176/176)	4% (7/176)	9% (16/176)	0% (0/16)	PRN 56% (9/16)
CO	0% (0/2478)	1% (32/2478)	5% (114/2478)	68% (78/114)	NMOD 39% (44/114)
CP	100% (283/283)	13% (36/283)	88% (249/283)	100% (249/249)	ROOT 100% (249/249)
CQ	100% (7/7)	0% (0/7)	100% (7/7)	0% (0/7)	VMOD 57% (4/7)
CV	100% (3237/3237)	100% (3237/3237)	56% (1827/3237)	28% (512/1827)	VMOD 52% (956/1827)
CX	100% (6/6)	0% (0/6)	83% (5/6)	20% (1/5)	VMOD 60% (3/5)
D	0% (56/19535)	0% (71/19535)	85% (16656/19535)	100% (16608/16656)	NMOD 100% (16629/16656)
DD	0% (0/629)	0% (3/629)	26% (165/629)	99% (164/165)	NMOD 99% (163/165)
DG	0% (0/1051)	0% (0/1051)	90% (950/1051)	100% (950/950)	NMOD 100% (948/950)
DP	0% (0/13)	0% (0/13)	23% (3/13)	100% (3/3)	SBJ 100% (3/3)
DT	0% (0/509)	0% (0/509)	100% (508/509)	99% (505/508)	NMOD 99% (505/508)
E	0% (0/1897)	0% (2/1897)	67% (1279/1897)	99% (1263/1279)	ADV 84% (1079/1279)
EA	1% (6/473)	2% (11/473)	83% (394/473)	96% (377/394)	AMOD 95% (376/394)
EB	100% (509/511)	1% (7/511)	63% (321/511)	95% (305/321)	VMOD 54% (174/321)
EC	0% (0/96)	0% (0/96)	85% (82/96)	61% (50/82)	AMOD 88% (72/82)
EE	9% (11/126)	0% (0/126)	87% (110/126)	44% (48/110)	AMOD 87% (96/110)
EF	100% (12/12)	0% (0/12)	100% (12/12)	75% (9/12)	AMOD 100% (12/12)
EI	0% (0/7)	0% (0/7)	57% (4/7)	100% (4/4)	PMOD 50% (2/4)
EL	100% (11/11)	0% (0/11)	91% (10/11)	90% (9/10)	NMOD 90% (9/10)
EN	0% (0/490)	0% (0/490)	85% (415/490)	40% (167/415)	AMOD 90% (374/415)
ER	100% (1/1)	0% (0/1)	-	-	-
EW	0% (0/3)	0% (0/3)	33% (1/3)	100% (1/1)	AMOD 100% (1/1)
EZ	0% (0/12)	0% (0/12)	33% (4/12)	50% (2/4)	AMOD 100% (4/4)
FM	100% (9/9)	0% (0/9)	89% (8/9)	100% (8/8)	PMOD 100% (8/8)
G	0% (0/6061)	0% (0/6061)	70% (4258/6061)	96% (4070/4258)	NMOD 91% (3868/4258)
GN	0% (0/273)	0% (0/273)	92% (250/273)	98% (245/250)	NMOD 99% (248/250)
H	100% (4/4)	0% (0/4)	100% (4/4)	50% (2/4)	NMOD 50% (2/4)

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[9]See `http://www.abisource.com/projects/link-grammar/dict/coordination.html`.

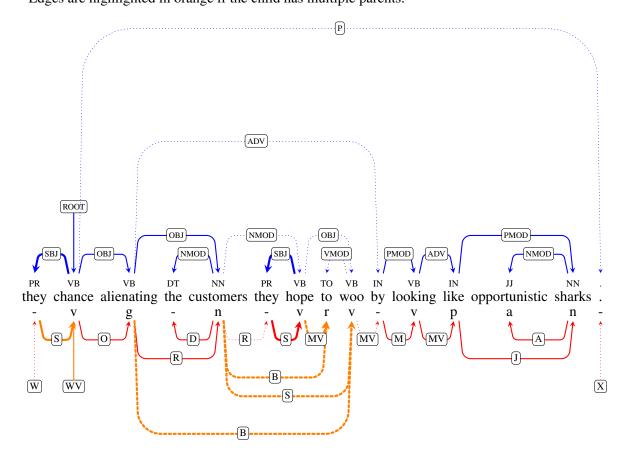| Label	Rightward	Multiheaded	CoNLL Match	CoNLL Dir Match	CoNLL Label
HA	0% (0/4)	100% (4/4)	-	-	-
I	100% (5405/5424)	60% (3247/5424)	95% (5168/5424)	47% (2408/5168)	VMOD 53% (2756/5168)
ID	0% (0/1409)	0% (0/1409)	76% (1077/1409)	35% (380/1077)	PMOD 32% (344/1077)
IN	100% (244/244)	0% (0/244)	99% (242/244)	100% (242/242)	PMOD 100% (242/242)
IV	100% (1626/1627)	100% (1626/1627)	85% (1389/1627)	97% (1353/1389)	OBJ 70% (972/1389)
J	98% (16400/16673)	2% (280/16673)	87% (14522/16673)	97% (14069/14522)	PMOD 98% (14240/14522)
JG	100% (58/58)	0% (0/58)	81% (47/58)	100% (47/47)	PMOD 100% (47/47)
JQ	100% (3/3)	100% (3/3)	100% (3/3)	100% (3/3)	PMOD 100% (3/3)
JT	100% (83/83)	0% (0/83)	94% (78/83)	100% (78/78)	PMOD 97% (76/78)
K	100% (565/565)	0% (0/565)	97% (547/565)	100% (545/547)	PRT 70% (384/547)
L	100% (546/546)	0% (0/546)	1% (3/546)	0% (0/3)	AMOD 67% (2/3)
LE	100% (2/2)	0% (0/2)	-	-	-
LI	100% (8/8)	0% (0/8)	88% (7/8)	100% (7/7)	ADV 100% (7/7)
M	100% (9594/9596)	0% (16/9596)	74% (7124/9596)	92% (6583/7124)	NMOD 82% (5873/7124)
MG	100% (58/58)	0% (0/58)	86% (50/58)	100% (50/50)	NMOD 100% (50/50)
MJ	50% (100/200)	0% (0/200)	68% (136/200)	96% (131/136)	COORD 88% (120/136)
MV	100% (13375/13376)	0% (61/13376)	51% (6797/13376)	98% (6681/6797)	ADV 75% (5105/6797)
MX	100% (1999/1999)	4% (83/1999)	42% (836/1999)	91% (763/836)	NMOD 89% (741/836)
N	100% (546/546)	0% (0/546)	100% (545/546)	100% (545/545)	VMOD 100% (544/545)
NA	0% (0/2)	0% (0/2)	100% (2/2)	50% (1/2)	COORD 100% (2/2)
ND	0% (0/617)	0% (0/617)	68% (419/617)	98% (411/419)	NMOD 72% (302/419)
NI	32% (103/324)	2% (5/324)	64% (206/324)	76% (157/206)	COORD 31% (64/206)
NJ	0% (0/1)	0% (0/1)	-	-	-
NM	100% (899/899)	0% (0/899)	88% (790/899)	82% (646/790)	AMOD 75% (589/790)
NN	0% (0/658)	0% (0/658)	11% (75/658)	95% (71/75)	AMOD 87% (65/75)
NR	0% (0/5)	0% (0/5)	100% (5/5)	60% (3/5)	AMOD 60% (3/5)
NS	0% (0/157)	0% (0/157)	92% (145/157)	100% (145/145)	NMOD 98% (142/145)
NT	0% (0/21)	0% (0/21)	5% (1/21)	0% (0/1)	AMOD 100% (1/1)
NW	0% (0/1)	0% (0/1)	100% (1/1)	100% (1/1)	NMOD 100% (1/1)
O	100% (11027/11028)	0% (0/11028)	81% (8932/11028)	96% (8535/8932)	OBJ 73% (6495/8932)
OD	100% (39/39)	0% (0/39)	87% (34/39)	100% (34/34)	OBJ 74% (25/34)
OF	100% (549/549)	50% (274/549)	96% (528/549)	98% (518/528)	NMOD 70% (367/528)
ON	100% (18/18)	0% (0/18)	89% (16/18)	100% (16/16)	PMOD 100% (16/16)
OT	100% (6/6)	0% (0/6)	100% (6/6)	100% (6/6)	OBJ 50% (3/6)
OX	100% (5/5)	0% (0/5)	-	-	-
P	100% (3755/3756)	31% (1167/3756)	94% (3528/3756)	100% (3523/3528)	VC 60% (2104/3528)
PF	100% (25/25)	0% (0/25)	80% (20/25)	0% (0/20)	ADV 60% (12/20)
PP	100% (1292/1294)	67% (862/1294)	98% (1265/1294)	99% (1254/1265)	VC 99% (1250/1265)
Q	100% (53/53)	49% (26/53)	66% (35/53)	63% (22/35)	ROOT 37% (13/35)
QI	100% (163/163)	0% (0/163)	8% (13/163)	100% (13/13)	PMOD 85% (11/13)
QJ	50% (2/4)	0% (0/4)	50% (2/4)	100% (2/2)	COORD 100% (2/2)
R	100% (1404/1404)	38% (538/1404)	13% (179/1404)	16% (29/179)	NMOD 78% (140/179)
RJ	50% (23/46)	0% (0/46)	7% (3/46)	100% (3/3)	COORD 100% (3/3)
RS	0% (0/565)	99% (561/565)	95% (537/565)	97% (522/537)	SBJ 97% (521/537)
S	97% (13138/13520)	57% (7662/13520)	92% (12476/13520)	5% (586/12476)	SBJ 97% (12150/12476)
SF	99% (200/203)	76% (154/203)	92% (187/203)	2% (3/187)	SBJ 98% (183/187)
SFI	100% (1/1)	0% (0/1)	100% (1/1)	100% (1/1)	SBJ 100% (1/1)
SI	100% (129/129)	0% (0/129)	80% (103/129)	99% (102/103)	SBJ 86% (89/103)
SJ	50% (2736/5468)	0% (0/5468)	69% (3778/5468)	93% (3502/3778)	COORD 86% (3240/3778)
SX	100% (17/17)	88% (15/17)	100% (17/17)	0% (0/17)	SBJ 100% (17/17)
SXI	100% (1/1)	0% (0/1)	100% (1/1)	100% (1/1)	SBJ 100% (1/1)
TA	0% (0/31)	0% (0/31)	100% (31/31)	100% (31/31)	NMOD 100% (31/31)
TD	100% (5/5)	0% (0/5)	100% (5/5)	0% (0/5)	NMOD 100% (5/5)
TH	100% (660/660)	0% (0/660)	1% (9/660)	100% (9/9)	OBJ 89% (8/9)
TI	100% (38/38)	0% (0/38)	82% (31/38)	100% (31/31)	PMOD 81% (25/31)
TM	100% (26/26)	0% (0/26)	100% (26/26)	100% (26/26)	NMOD 100% (26/26)
TO	100% (1733/1734)	0% (1/1734)	0% (5/1734)	100% (5/5)	ADV 40% (2/5)

Label	Rightward	Multiheaded	CoNLL Match	CoNLL Dir Match	CoNLL Label
TS	100% (7/7)	0% (0/7)	-	-	-
TY	100% (57/57)	0% (0/57)	100% (57/57)	77% (44/57)	NMOD 96% (55/57)
U	100% (43/43)	0% (0/43)	86% (37/43)	92% (34/37)	PMOD 92% (34/37)
UN	100% (4/4)	0% (0/4)	100% (4/4)	100% (4/4)	PMOD 100% (4/4)
V	100% (8/8)	0% (0/8)	100% (8/8)	100% (8/8)	OBJ 38% (3/8)
VJ	51% (765/1500)	1% (8/1500)	71% (1059/1500)	89% (939/1059)	COORD 86% (916/1059)
W	100% (10528/10528)	0% (5/10528)	5% (504/10528)	46% (232/504)	P 52% (262/504)
WN	100% (6/6)	0% (0/6)	-	-	-
WV	100% (7563/7563)	100% (7557/7563)	57% (4345/7563)	97% (4214/4345)	ROOT 97% (4214/4345)
WY	100% (1/1)	0% (0/1)	-	-	-
X	80% (13132/16406)	5% (806/16406)	8% (1364/16406)	95% (1300/1364)	P 100% (1358/1364)
Y	2% (4/172)	0% (0/172)	86% (148/172)	93% (137/148)	AMOD 80% (118/148)
YP	0% (0/120)	0% (0/120)	100% (120/120)	0% (0/120)	NMOD 100% (120/120)
YS	0% (0/1645)	0% (0/1645)	98% (1619/1645)	0% (0/1619)	NMOD 100% (1619/1619)
Z	100% (9/9)	0% (0/9)	56% (5/9)	0% (0/5)	VMOD 100% (5/5)

B Sample English Parses

Below we display the first 100 English sentences whose widths do not exceed the width of this page. The blue upper half shows the CoNLL tagging and dependency parse. The red lower half shows the link grammar's tagging and our orientation of the link parse. A vertical edge to word token v denotes an edge $0 \rightarrow v$. Words that were unknown to the link parser are flagged with [!].

Edges are shown as solid lines if they appear in both parses. They are drawn more thickly if the directions do not match.

Edges are shown as dotted lines if they appear only in one parse and not in the other.

Edges are highlighted in orange if the child has multiple parents.

the companies reached an agreement in principle for the sale in August .

of the almost 3,000[!] athletes surveyed , 1,240[!] took the time to respond .

since that 1976[!] ruling , 37 states have reintroduced the death penalty .

Mr. Bakes[!] previously had a turn at running Continental[!] .

Mr. Foret[!] is one of a handful of executives Mr. Lorenzo has relied on over the years .

at the core of all this stands a hotel .

she had an idea .

the two shared results from this route swap , and followed rules on ticket pricing .

no charges were brought against her .

oil has long been Mr. Corry[!] 's pet .

2 . provide better incentives .

the Japanese want us to accept their culture , but they refuse to accept the American culture .

the two companies each produce market pulp , containerboard and white paper .

first Executive[!] and troubled Valley[!] National[!] Corp. of Arizona were next in line .

BROKERAGE[!] HIRING[!] languishes amid market turmoil .

but the news of the boom has yet to trickle down to the farmers .

CC DT NN IN DT NN VB RB TO VB IN TO DT NN .

Censorship[!] is n't a Marxist invention .

NN VB RB DT JJ NN .

Esselte[!] Business[!] Systems[!] rose 1 to 43 12 .

the machine is essentially a mainframe computer , he said .

in 1987[!] , prosecutors filed against 35 defendants for every 100,000[!] adults .

later , the judge went a step farther .

my universe has changed .

the index uses a base of 100[!] in 1982[!] .

IBM[!] shares closed at $ 103[!] , down 50 cents , in Big[!] Board[!] trading .

the American Bankers[!] Association[!] did n't have any comment on the plan .

ROOT

SBJ VMOD VC P

PR VB RB VB .
it did n't work .
- v-d - v -

S N
I
W WV X

P

CC ROOT

NMOD SBJ VC OBJ VMOD OBJ NMOD

CC JJ NN VB VB TO VB DT NN .
but British analysts are beginning to link the issues .
ij a n v v r v - n -

A S P TO I D
W IV O
W WV X

but we 're not making as many { pyrotechnic devices } as we used to .

has the San Francisco earthquake caused you to forget Hugo ?

each had claimed Allianz[!] , Europe 's largest insurance company , as a tacit ally .

Maryland National[!] Bank 's retail finance division will continue to service the loans .

the SEC[!] 's Mr. Lane vehemently disputed those estimates .

Merrill has been one of the main firms executing index arbitrage for customers .

the reason is simple .

ADV

P

PMOD

ROOT

SBJ

NMOD   NMOD   PMOD

NMOD   NMOD   NMOD   NMOD

IN	DT	JJ	NN	IN	DT	NN	VB	DT	JJ	NN	IN	JJ	NN	.
among	the	economic	effects	of	the	hurricane	was	a	sharp	drop	in	rental	income	.
-	-	a	n	-	-	n	v-d	-	n	n	r	n	n-u	-

A

M   D

D   AN   AN

J   SI   J

W   J   MV   X

PF

still , stock-index funds are expected to continue launching big programs through the market .

the first models will ship in the spring , with the largest following in the fall .

CC but DT the NN apple NN industry VB is JJ ripe IN for NN change .

but the apple industry is ripe for change .
ij - n-u n-u v a p n-u -

NN fuel NN costs VB were RB up CD 10 NN % IN in DT the JJ third NN quarter .

fuel costs were up 10 % in the third quarter .
n-u n v-d v - - r - a n -

DT the NN number IN of NN workers IN in NN production NN sectors MD will VB be VB cut IN by CD 488[!] , TO to CD 5,200[!] IN by NN September .

the number of workers in production sectors will be cut by 488[!] , to 5,200[!] by September .
- d - n r n-u n v v v - - - r - - i -

however , StatesWest[!] is n't abandoning its pursuit of the much-larger Mesa[!] .

no phones .

concern about declines in other markets , especially New York[!] , caused selling pressure .

Mr. Freeman is an executive vice president of American Express[!] .

Sentence 1

ROOT · P · DEP · NMOD

NN	CD	CD	.
fees	2	18	.
n	-	-	-

NM · S · W · WV · X

Sentence 2

ROOT · P · NMOD · NMOD · SBJ · VMOD · AMOD · AMOD · PMOD · AMOD

PR	JJ	NN	VB	RB	JJ	IN	RB	RB	.
our	international	efforts	were	far	greater	than	ever	before	.
-	n	n	v-d	c	a-c	-	-	-	-

AN · D · S · EC · P · ID · MV · MV · W · WV · X

Sentence 3

ROOT · OBJ · P · DEP · VMOD · SBJ

RB	WP	VB	NN	VB	.
so	what	does	consensus	mean	?
-	-	v	n	v	-

W · R · SI · I · B · W · WV · X

Sentence 4

ROOT · P · NMOD · NMOD · NMOD · NMOD · NMOD · SBJ · OBJ · NMOD

DT	JJ	NN	NN	NN	NN	VB	DT	NN	.
the	local	American	Legion[!]	color	guard	led	the	way	.
-	n	s	-	n-u	n	v-d	-	n	-

AN · AN · AN · AN · S · D · MV · W · WV · X · D

executives at Sharon declined to comment on the proposal .

TW Services[!]

the three units contributed about a third of Emhart[!] 's total sales .

still , Radio[!] Shack[!] is aware that some of its products are controversial .

Outokumpu[!] is a mining , trading and construction concern .

now , the personal-computer revolution is finally reaching Japan .

the judge , they say , was fiercely proud of his abilities and accomplishments .

Sentence 1:

IN	DT	NN	DT	NN	VB	VB	,	EX	VB	CD	NN	.
at	the	time	the	plan	was	announced	,	there	were	135[!]	lawyers	.
-	-	n	-	n	v-d	v	-	r	v-d	-	n	-

Sentence 2:

VB	NN	NN	VB	DT	NN	.
rising	operating	expenses	are	another	problem	.
v	g	n	v	-	n	-

Sentence 3:

PR	VB	RB	JJ	IN	DT	NN	.
she	was	as	cool	as	a	cucumber	.
-	v-d	e-c	a	e-c	-	s	-

Figure 1

ROOT — P

SBJ · VMOD · OBJ · NMOD · SBJ · NMOD · NMOD · PMOD · NMOD

PR VB DT VB DT JJ NN TO NN PO .

we think this is a superior deal to McCaw[!] 's .

\- v p v - n n r - p -

S · C · S · AN · YS
CV · D · J
O
W · WV · MV · X

Figure 2

P

ROOT

NMOD · NMOD · NMOD · NMOD · NMOD · SBJ · OBJ · VMOD · VMOD · VMOD · AMOD

DT NN PO NN NN NN MD RB TO VB RB JJ .

the Fed[!] 's stock market role ought not to be very ambitious .

\- - p s n n v e r v e a -

DG · YS · AN · AN · S · NT · I · EA
D · TO · P
W · IV · X

Sentence 1:

many	middle-class	people	would	love	free	food	,	Medicaid[!]	insurance	,	utilities	and	rent	.
JJ	JJ	NN	MD	VB	JJ	NN	,	NN	NN	,	NN	CC	NN	.
-	-	p	v	v	a	n-u	-	-	n-u	-	n	j-n	s	-

Sentence 2:

the	account	had	previously	been	handled	by	Saatchi[!]		Saatchi[!]	Wegener[!]	,	New	York[!]	.
DT	NN	VB	RB	VB	VB	IN	NN	CC NN	NN		,	NN	NN	.
-	n	v-d	-	v	v-d	-	-		-	-	-	-	-	-

Star States plunged 3 14 to 8 34 on 207,000[!] shares .

Gen-Probe[!] was another active takeover stock .

Madison 's noble and unifying vision of the representative still can guide us .

those rights prevent anyone other than Revco[!] from proposing a reorganization plan .

at least some economists , of course , would argue that inflation deserves a lot of emphasis .

compare the Bush[!] request to what the Senators gave themselves :

these people have different agendas .

mortgage securities ended 232 to 432 higher in light trading .

he could n't be reached and a company spokesman would n't comment on the dismissal .

it will trade over the counter under the symbol CRAY[!] .

the bank says it 's interested in purchasing banks in Morocco , Portugal and Puerto[!] Rico .

speculation about a takeover fight has sent Jaguar[!] shares soaring in the past six weeks .

Ortega[!] had threatened to end a 19-month-old ceasefire .

CC , IN PR NN IN DT NN NN , NN VB DT NN IN NN .
and , despite its image as a technology superpower , Japan has a lot of weaknesses .
ij - - n e - n-u n - l v - - - n -

DT NN IN UH TO DT NN IN NN VB JJ .
a crusade of NO to the consumption of drugs is imperative .
- n - l r - n-u - n v a -

ROOT

VMOD NMOD

VB DT NN
be the Star
v - f

DG
O
W

P
ADV
VMOD
ROOT
NMOD SBJ
NMOD COORD COORD SBJ VC

DT NN VB IN DT JJ CC JJ VB VB .
the result is that the unthinkable and illogical are happening .
- n v j-c - a j-n a v v -

D S TH DD SJ SJ P
W
C
X
S
CV

P
ROOT
SBJ VC OBJ
IOBJ
NMOD NMOD PMOD ADV NMOD
VMOD NMOD

DT NN IN NN VB RB RB VB DT JJ NN JJ .
a prospectus in India does n't always tell a potential investor much .
- n r f v - - v - s n - -

D M J N E AN
W S I D
WV O
O
X

Sentence 1:

IN	JJ	NN	,	DT	JJ	JJ	NN	VB	TO	VB	NN	.
for	many	companies	,	the	instinctive	first	response	is	to	cut	costs	.
p	-	n	-	-	a	a	n	v	r	v	n	-

Sentence 2:

NN	CC	NN	MD	RB	VB	RP	DT	NN	CC	VB	DT	JJ	NN	.
Geraldo	or	Phil	would	probably	pull	up	another	camera	and	interview	the	chained	protesters	.
m	j-n	m	v	-	v	r	-	n	j-v	v	-	v-d	n	-

Sentence 1:

DT	NN	NN	VB	VB	RB	.
a	side	porch	was	ripped	away	.
-	n	n	v-d	v-d	-	-

Dependencies: NMOD, NMOD, SBJ, VC, PRT, P, ROOT
Relations: D, AN, S, P, K, W, WV, X

Sentence 2:

CC	NN	RB	VB	PR	NN	NN	IN	NN	CC	NN	TO	CD	NN	.
and	Mitsukoshi[!]	recently	increased	its	equity	stake	in	Tiffany		Co.	to	13	%	.
ij	-	-	v-d	-	s	n	r	f	-	y	r	-	-	-

Dependencies: CC, SBJ, ADV, ROOT, OBJ, NMOD, NMOD, NMOD, PMOD, COORD, COORD, PMOD, NMOD, P, ADV
Relations: W, S, E, D, O, AN, MV, G, G, J, ND, J, WV, MV, W, X

we keep wondering what Mr. Gates[!] wanted to say .

Mr. Volk[!] , 55 years old , succeeds Duncan Dwight , who retired in September .

but Goya[!] Foods[!] Inc. believes it can milk some sales by bucking the trend .

Petroleos[!] will supply 135,000[!] barrels of oil a day for the refinery , Unocal[!] said .

Mr. Lorenzo , 49 years old , is reclaiming the job that was his before Mr. Corr[!] signed on .

how can we turn this situation around ?

Ms. Waleson[!] is a free-lance writer based in New York[!] .

Government[!] Contractors[!]

imports of goods and services soared , while exports were flat .

but he said Dentsu[!] has n't looked seriously at Saatchi[!] .

if they finish today , the Sharpshooter[!] can pump tomorrow .

ROOT

NMOD SBJ VMOD VC P

DT NN VB RB VB .
the price was n't disclosed .
- n-u v-d - v-d -

D S N P WV X W

ROOT

NMOD NMOD

NN NN NN
Leslie Falls[!] Humphries[!]
b - -

G G W

P

ROOT

CC SBJ OBJ VC OBJ VMOD AMOD PMOD NMOD NMOD NMOD NMOD

CC PR VB DT VB RB VB PR VB JJ IN DT NN PO JJ NN .
but he said this does n't mean he is satisfied with the market 's big swings .
ij - v-d p v - v - v a - - n p a n -

W S C S N I C CV S P MV D YS A D J X W WV CV

Sumitomo[!] Realty[!] Development[!] rose 40 to 2170[!] .