

```
In [4]: import spacy
        from spacy import displacy

        npl = spacy.load("en_core_web_sm")
        filepath = r"C:\Users\HP\OneDrive\Desktop\NLP\Data\ML471_S7_Datafile_Concept.txt"

        with open(filepath, 'r', encoding='utf-8') as file:
            text = file.read( )

        doc = npl(text)

        print("TOKEN\t\tDEP\t\tHEAD")
        print("-" * 50)
        for token in doc:
            print(f"{token.text:<12}\t\t{token.dep_:<10}\t\t{token.head.text}")

        sentences = list(doc.sents)
        for i, sent in enumerate(sentences[:5], 1):
            print(f"\nSentence {i}: {sent.text}\n")
            displacy.render(sent, style="dep", jupyter=True, options={"distance":90})
```

TOKEN	DEP	HEAD
News	compound	Article
Article	nmod	sales
1	nummod	Article
	dep	1
Ad	compound	sales
sales	nsubj	boost
boost	ROOT	boost
Time	compound	Warner
Warner	compound	profits
profit	compound	Quarterly
	dep	profit
Quarterly	compound	profits
profits	nsubj	jumped
at	prep	profits
US	compound	giant
media	compound	giant
giant	pobj	at
TimeWarner	appos	giant
jumped	ccomp	boost
76	nummod	%
%	npadvmod	jumped
to	prep	jumped
\$	nmod	1.13bn
1.13bn	pobj	to
(	punct	1.13bn
£	nmod	600
600	appos	1.13bn
m	appos	1.13bn
)	punct	1.13bn
for	prep	jumped
the	det	months
three	nummod	months
months	pobj	for
to	prep	jumped
December	pobj	to
,	punct	jumped
from	prep	jumped
\$	nmod	639
639	pobj	from
m	npadvmod	from
year	npadvmod	earlier
-	punct	earlier
earlier	advmod	from
.	punct	jumped
	dep	.
The	det	firm
firm	ROOT	firm
,	punct	firm
which	nsubj	is
is	relcl	firm
now	advmod	is
one	attr	is
of	prep	one

the  
biggest  
investors  
in  
Google  
,  
benefited  
from  
sales  
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speed  
internet  
connections  
and  
higher  
advert  
sales  
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TimeWarner  
said  
fourth  
quarter  
sales  
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%  
to  
\$  
11.1bn  
from  
\$  
10.9bn  
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Its  
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which  
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Warner  
Bros  
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AOL  
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det  
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compound  
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nsubj  
ROOT  
amod  
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nsubj  
ccomp  
nummod  
npadvmod  
prep  
nmod  
pobj  
prep  
nmod  
pobj  
punct  
poss  
nsubjpass  
auxpass  
ROOT  
agent  
nummod  
punct  
prt  
pobj  
nsubj  
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Bros  
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gains  
users  
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Time	dep	.
Warner	compound	Warner
said	nsubj	said
on	ROOT	said
Friday	prep	said
that	pobj	on
it	mark	owns
now	nsubj	owns
owns	advmod	owns
8	ccomp	said
%	nummod	%
of	dobj	owns
search	prep	%
-	compound	engine
engine	punct	engine
Google	compound	Google
.	pobj	of
But	punct	said
its	cc	has
own	poss	business
internet	amod	business
business	compound	business
,	nsubj	has
AOL	punct	business
,	appos	business
had	punct	business
has	aux	has
mixed	ROOT	has
fortunes	amod	fortunes
.	dobj	has
It	punct	has
lost	nsubj	lost
464,000	ROOT	lost
subscribers	nummod	subscribers
in	dobj	lost
the	prep	lost
fourth	det	profits
quarter	amod	quarter
profits	compound	profits
were	pobj	in
lower	advcl	lost
than	acomp	were
in	prep	lower
the	prep	than
preceding	det	quarters
three	amod	quarters
quarters	nummod	quarters
.	pobj	in
However	punct	lost
,	advmod	said
the	punct	said
company	det	company
said	nsubj	said
AOL	ROOT	said
's	poss	profit
underlying	case	AOL
profit	amod	profit
before	nsubj	rose
	mark	rose

exceptional	amod	items
items	nsubj	rose
rose	ccomp	said
8	nummod	%
%	npadvmod	rose
on	prep	rose
the	det	back
back	pobj	on
of	prep	back
stronger	amod	revenues
internet	compound	advertising
advertising	compound	revenues
revenues	pobj	of
.	punct	said
It	nsubj	hopes
hopes	ROOT	hopes
to	aux	increase
increase	xcomp	hopes
subscribers	dobj	increase
by	prep	increase
offering	pcomp	by
the	det	service
online	amod	service
service	dobj	offering
free	amod	service
to	prep	free
TimeWarner	compound	customers
internet	compound	customers
customers	pobj	to
and	cc	increase
will	aux	try
try	conj	increase
to	aux	sign
sign	xcomp	try
up	prt	sign
AOL	poss	customers
's	case	AOL
existing	amod	customers
customers	dobj	sign
for	prep	sign
high	amod	speed
-	punct	speed
speed	compound	broadband
broadband	pobj	for
.	punct	hopes
TimeWarner	nsubj	has
also	advmod	has
has	ROOT	has
to	aux	restate
restate	xcomp	has
2000	dobj	restate
and	cc	2000
2003	nummod	results
results	conj	2000
following	prep	restate
a	det	probe
probe	pobj	following
by	prep	probe
the	det	Commission
US	compound	Commission

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compound  
nsubj  
ROOT  
advmod  
acomp  
prep  
poss  
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pobj  
punct  
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compound  
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ROOT  
nsubj  
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nummod  
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punct  
conj  
agent  
compound  
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earlier

earlier	pobj	to
,	punct	flops
when	advmod	film
the	det	film
third	amod	film
and	cc	third
final	conj	third
film	nsubj	boosted
in	prep	film
the	det	Lord
Lord	pobj	in
of	prep	Lord
the	det	trilogy
Rings	compound	trilogy
trilogy	pobj	of
boosted	conj	saw
results	dobj	boosted
.	punct	boosted
For	prep	posted
the	det	year
full	amod	year
-	punct	year
year	pobj	For
,	punct	posted
TimeWarner	nsubj	posted
posted	ROOT	posted
a	det	profit
profit	dobj	posted
of	prep	profit
\$	nmod	3.36bn
3.36bn	pobj	of
,	punct	3.36bn
up	advmod	posted
27	nummod	%
%	npadvmod	up
from	prep	up
its	poss	performance
2003	nummod	performance
performance	pobj	from
,	punct	posted
while	mark	grew
revenues	nsubj	grew
grew	advcl	posted
6.4	nummod	%
%	npadvmod	grew
to	prep	grew
\$	nmod	42.09bn
42.09bn	pobj	to
.	punct	posted
"	punct	said
Our	poss	performance
financial	amod	performance
performance	nsubj	was
was	ccomp	said
strong	acomp	was
,	punct	was
meeting	advcl	was
or	cc	meeting
exceeding	conj	meeting
all	dobj	exceeding

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TimeWarner  
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inquiry  
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News

dep  
compound

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Article

Article 2	nmod nummod	gains Dollar
Dollar gains on Greenspan speech	dep compound nsubj prep compound pobj	2 gains hit gains speech on
The dollar has hit its highest level against the euro in almost three months after the Federal Reserve head said the US trade deficit is set to stabilise .	dep det nsubj aux ROOT poss amod dobj prep det pobj prep advmod nummod pobj mark det compound compound nsubj advcl det compound compound nsubjpass auxpass ccomp aux xcomp punct	speech dollar hit hit hit level level hit level euro against hit three months in said head Reserve head said hit deficit deficit deficit set set said stabilise set hit
And Alan Greenspan highlighted the US government 's willingness to curb spending and rising household savings	dep cc compound nsubj ROOT det compound poss case dobj aux acl dobj cc amod compound conj	. highlighted Greenspan highlighted highlighted government government willingness government highlighted curb willingness curb spending savings savings spending

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deficit  
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chairman  
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taking  
view  
deficit  
deficit  
deficit  
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strategy  
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pobj  
prep  
compound  
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punct  
punct  
nsubj  
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ROOT  
det  
amod  
punct  
compound  
dobj  
punct  
advcl  
prt  
det  
dobj  
prep  
pobj  
prep  
pobj  
det  
amod  
compound  
nsubj  
aux  
relcl  
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head  
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Bank  
of  
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in  
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laying  
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of  
improve  
under  
deficit  
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remain

Worries  
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currency  
China  
remains  
pegged  
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pegged

the	det	dollar
dollar	pobj	to
and	cc	dollar
the	det	currency
US	compound	currency
currency	poss	falls
's	case	currency
sharp	amod	falls
falls	nsubj	made
in	prep	falls
recent	amod	months
months	pobj	in
have	aux	made
therefore	advmod	made
made	conj	pegged
Chinese	amod	prices
export	compound	prices
prices	nsubj	competitive
highly	advmod	competitive
competitive	ccomp	made
.	punct	made
But	cc	calls
calls	ROOT	calls
for	prep	calls
a	det	shift
shift	pobj	for
in	prep	shift
Beijing	poss	policy
's	case	Beijing
policy	pobj	in
have	aux	fallen
fallen	advcl	calls
on	prep	fallen
deaf	amod	ears
ears	pobj	on
,	punct	fallen
despite	prep	fallen
recent	amod	comments
comments	pobj	despite
in	prep	comments
a	det	newspaper
major	amod	newspaper
Chinese	amod	newspaper
newspaper	pobj	in
that	mark	is
the	det	time
"	punct	time
time	nsubj	is
is	acl	comments
ripe	acomp	is
"	punct	is
for	prep	is
a	det	loosening
loosening	pobj	for
of	prep	loosening
the	det	peg
peg	pobj	of
.	punct	calls
The	det	meeting
G7	compound	meeting

meeting	nsubjpass	thought
is	auxpass	thought
thought	ROOT	thought
unlikely	oprd	thought
to	aux	produce
produce	xcomp	unlikely
any	det	movement
meaningful	amod	movement
movement	dobj	produce
in	prep	movement
Chinese	amod	policy
policy	pobj	in
.	punct	thought
In	prep	opened
the	det	meantime
meantime	pobj	In
,	punct	opened
the	det	Reserve
US	compound	Reserve
Federal	compound	Reserve
Reserve	poss	decision
's	case	Reserve
decision	nsubj	opened
on	prep	decision
2	nummod	February
February	pobj	on
to	aux	boost
boost	acl	decision
interest	compound	rates
rates	dobj	boost
by	prep	boost
a	det	quarter
quarter	pobj	by
of	prep	quarter
a	det	point
point	pobj	of
-	punct	decision
the	det	move
sixth	amod	move
such	amod	move
move	appos	decision
in	prep	move
as	advmod	many
many	amod	months
months	pobj	in
-	punct	decision
has	aux	opened
opened	ROOT	opened
up	prt	opened
a	det	differential
differential	dobj	opened
with	prep	opened
European	amod	rates
rates	pobj	with
.	punct	opened
The	det	window
half	amod	point
-	punct	point
point	compound	window
window	nsubj	be



,	punct	believe
some	nsubj	believe
believe	parataxis	be
,	punct	believe
could	aux	be
be	ROOT	be
enough	acomp	be
to	aux	keep
keep	xcomp	enough
US	compound	assets
assets	dobj	keep
looking	acl	assets
more	advmod	attractive
attractive	acomp	looking
,	punct	be
and	cc	be
could	aux	help
help	conj	be
prop	xcomp	help
up	prt	prop
the	det	dollar
dollar	dobj	prop
.	punct	be
The	det	falls
recent	amod	falls
falls	nsubj	been
have	aux	been
partly	advmod	been
been	ROOT	been
the	det	result
result	attr	been
of	prep	result
big	amod	deficits
budget	compound	deficits
deficits	pobj	of
,	punct	deficits
as	advmod	as
well	advmod	as
as	cc	deficits
the	det	US
US	poss	gap
's	case	US
yawning	amod	gap
current	amod	gap
account	compound	gap
gap	conj	deficits
,	punct	gap
both	nsubj	need
of	prep	both
which	pobj	of
need	relcl	deficits
to	aux	funded
be	auxpass	funded
funded	xcomp	need
by	agent	funded
the	det	buying
buying	pobj	by
of	prep	buying
US	compound	bonds
bonds	pobj	of

and  
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Eddington  
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executive  
Eddington  
Eddington  
said  
results

results	nsubj	were
were	ccomp	said
"	punct	respectable
respectable	acomp	were
"	punct	were
in	prep	were
a	det	quarter
third	amod	quarter
quarter	pobj	in
when	advmod	rose
fuel	compound	costs
costs	nsubj	rose
rose	relcl	quarter
by	prep	rose
£	nmod	106
106	nummod	m
m	pobj	by
or	cc	m
47.3	nummod	%
%	conj	m
.	punct	said
BA	poss	profits
's	case	BA
profits	nsubj	were
were	ROOT	were
still	advmod	were
better	acomp	were
than	prep	better
market	compound	expectation
expectation	pobj	than
of	prep	expectation
£	quantmod	m
59	compound	m
m	pobj	of
,	punct	were
and	cc	were
it	nsubj	expects
expects	conj	were
a	det	rise
rise	dobj	expects
in	prep	rise
full	amod	year
-	punct	year
year	compound	revenues
revenues	pobj	in
.	punct	expects
	dep	.
To	aux	offset
help	aux	offset
offset	advcl	introduced
the	det	price
increased	amod	price
price	dobj	offset
of	prep	price
aviation	compound	fuel
fuel	pobj	of
,	punct	introduced
BA	nsubj	introduced

last  
year  
introduced  
a  
fuel  
surcharge  
for  
passengers  
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amod  
npadvmod  
ROOT  
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compound  
dobj  
prep  
pobj  
punct

year  
introduced  
introduced  
surcharge  
surcharge  
introduced  
surcharge  
for  
introduced

In  
October  
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increased  
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to  
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haul  
flights  
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surcharge  
was  
raised  
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2.50  
to  
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a  
leg  
.  
Yet  
aviation  
analyst  
Mike  
Powell  
of  
Dresdner  
Kleinwort  
Wasserstein

dep  
prep  
pobj  
punct  
nsubj  
ROOT  
dobj  
prep  
quantmod  
quantmod  
quantmod  
quantmod  
nummod  
nummod  
punct  
pobj  
prep  
det  
amod  
punct  
compound  
pobj  
punct  
mark  
det  
amod  
punct  
compound  
nsubjpass  
auxpass  
advcl  
prep  
nmod  
quantmod  
quantmod  
quantmod  
pobj  
det  
npadvmod  
punct  
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compound  
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compound  
nsubj  
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flights  
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flights  
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increased  
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2.50  
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says  
analyst  
Powell  
Powell  
says  
Powell  
Wasserstein  
Wasserstein  
of

says  
BA  
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estimated  
annual  
surcharge  
revenues  
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160  
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still  
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additional  
fuel  
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extra  
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250  
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Turnover  
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the  
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from  
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rise  
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cargo  
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Looking  
ahead  
to  
its  
full  
year  
results  
to  
March  
2005

ROOT  
poss  
case  
amod  
amod  
compound  
nsubj  
punct  
nmod  
nummod  
appos  
punct  
aux  
advmod  
ccomp  
advmod  
acomp  
prep  
poss  
amod  
compound  
pobj  
punct  
det  
amod  
amod  
nmod  
nummod  
compound  
nsubj  
prep  
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pobj  
ccomp  
advmod  
nummod  
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prep  
nmod  
pobj  
punct  
advmod  
advcl  
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det  
pobj  
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compound  
pobj  
punct  
advcl  
advmod  
prep  
poss  
amod  
pobj  
advcl  
prep  
pobj  
nummod

says  
revenues  
BA  
revenues  
revenues  
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m  
revenues  
revenues  
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be  
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short  
costs  
costs  
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of  
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Turnover  
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250  
Turnover  
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Turnover  
quarter  
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from  
rise  
revenue  
in  
says  
results  
Looking  
Looking  
year  
year  
to  
warned  
results  
to  
March

,	punct	warned
BA	nsubj	warned
warned	ROOT	warned
that	mark	expected
yields	nsubjpass	expected
-	punct	yields
average	amod	revenues
revenues	appos	yields
per	prep	revenues
passenger	pobj	per
-	punct	yields
were	auxpass	expected
expected	ccomp	warned
to	aux	decline
decline	xcomp	expected
as	mark	continues
it	nsubj	continues
continues	advcl	decline
to	aux	lower
lower	xcomp	continues
prices	dobj	lower
in	prep	lower
the	det	face
face	pobj	in
of	prep	face
competition	pobj	of
from	prep	competition
low	amod	cost
-	punct	cost
cost	compound	carriers
carriers	pobj	from
.	punct	warned
However	advmod	said
,	punct	said
it	nsubj	said
said	ROOT	said
sales	nsubj	be
would	aux	be
be	ccomp	said
better	acomp	be
than	prep	better
previously	advmod	forecast
forecast	pcomp	than
.	punct	said
"	punct	is
For	prep	is
the	det	year
year	pobj	For
to	prep	year
March	pobj	to
2005	nummod	March
,	punct	is
the	det	outlook
total	amod	outlook
revenue	compound	outlook
outlook	nsubj	is
is	ccomp	said
slightly	advmod	better
better	acomp	is
than	prep	better

previous  
guidance  
with  
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improvement  
anticipated  
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BA  
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Broughton  
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guidance  
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chairman  
Broughton  
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It  
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passenger  
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8.1  
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Aviation  
analyst  
Nick  
Van  
den  
Brul  
of

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nsubj  
advmod  
ROOT  
prep  
pobj  
mark  
compound  
nsubj  
ccomp  
nummod  
npadvmod  
prep  
pobj  
punct  
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ROOT  
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Van  
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Brul



BNP	compound	Paribas
Paribas	pobj	of
described	ccomp	den
BA	poss	results
's	case	BA
latest	amod	results
quarterly	amod	results
results	dobj	described
as	prep	described
"	punct	as
pretty	advmod	modest
modest	amod	as
"	punct	described
.	punct	described
"	punct	said
It	nsubj	is
is	ccomp	said
quite	advmod	good
good	acomp	is
on	prep	good
the	det	side
revenue	compound	side
side	pobj	on
and	cc	is
it	nsubj	shows
shows	conj	is
the	det	impact
impact	dobj	shows
of	prep	impact
fuel	compound	surcharges
surcharges	pobj	of
and	cc	impact
a	det	development
positive	amod	development
cargo	compound	development
development	conj	impact
,	punct	shows
however	advmod	shows
,	punct	shows
operating	amod	impact
margins	dobj	operating
down	prt	operating
and	cc	operating
cost	conj	operating
impact	nsubj	are
of	prep	impact
fuel	pobj	of
are	conj	shows
very	advmod	strong
strong	acomp	are
,	punct	said
"	punct	said
he	nsubj	said
said	ROOT	said
.	punct	said
Since	prep	cut
the	det	attacks
11	nummod	September
September	nmod	attacks
2001	nummod	September

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controllable  
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and  
debt  
whilst  
continuing  
to  
invest  
in  
our  
products  
,  
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Mr  
Eddington  
said  
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"  
For  
example  
,  
we  
have  
taken  
delivery  
of  
six  
Airbus  
A321  
aircraft  
and  
next  
month

pobj  
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det  
compound  
pobj  
punct  
nsubj  
aux  
ROOT  
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dobj  
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amod  
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punct  
compound  
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pcomp  
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xcomp  
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pobj  
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aux  
ROOT  
dobj  
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npadvmod

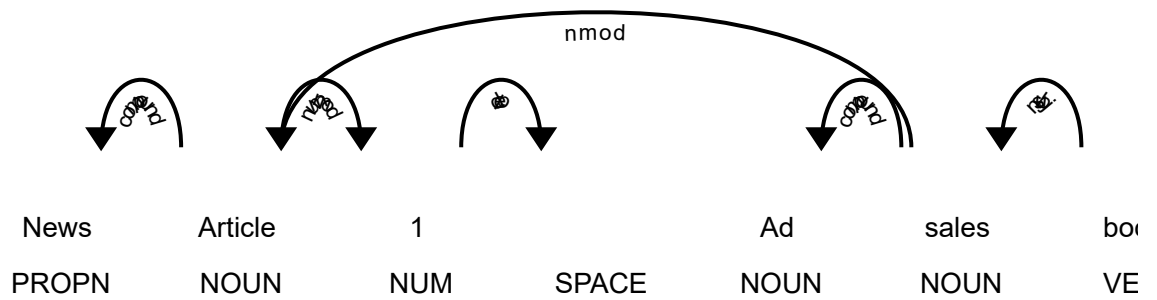
Since  
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cutting  
cutting  
drive  
of  
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said  
focus  
remains  
said  
remains  
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costs  
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costs  
reducing  
whilst  
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continuing  
invest  
products  
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said  
Eddington  
said  
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For  
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taken  
taken  
taken  
delivery  
aircraft  
A321  
aircraft  
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we	nsubj	start
will	aux	start
start	conj	taken
further	amod	improvements
improvements	dobj	start
to	prep	improvements
our	poss	beds
Club	nmod	World
World	nmod	beds
flat	amod	beds
beds	pobj	to
.	punct	start
"	punct	start
BA	poss	shares
's	case	BA
shares	nsubj	closed
closed	ROOT	closed
up	advmod	closed
four	nummod	pence
pence	npadvmod	closed
at	prep	closed
274.5	nummod	pence
pence	pobj	at
.	punct	closed
	dep	.

Sentence 1: News Article 1

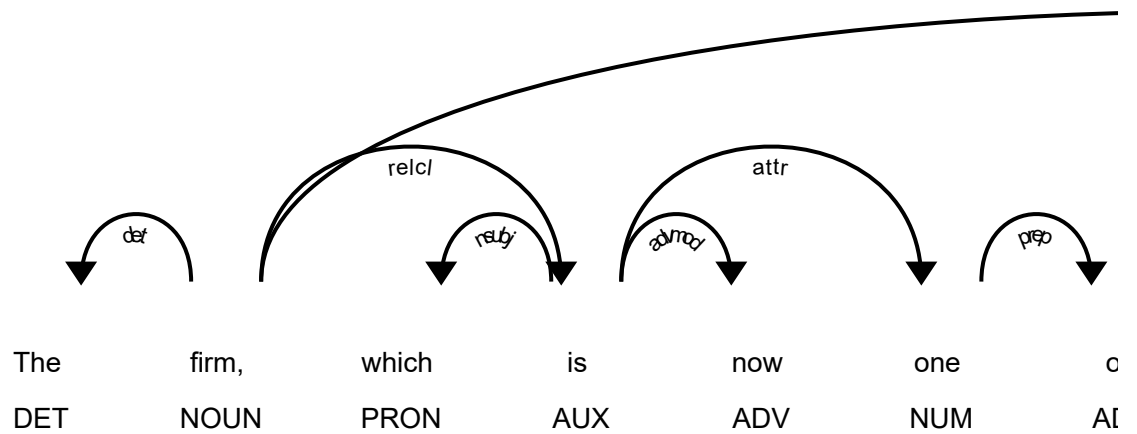
Ad sales boost Time Warner profit

Quarterly profits at US media giant TimeWarner jumped 76% to \$1.13bn (£600m) for the three months to December, from \$639m year-earlier.



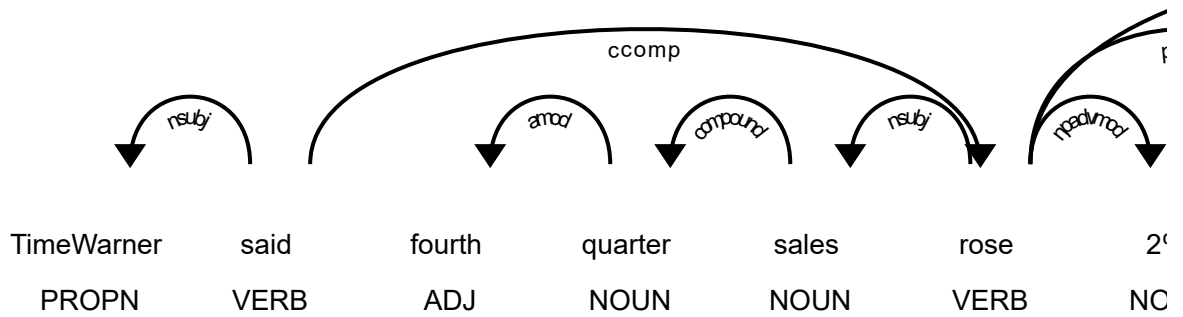
◀  ▶

Sentence 2: The firm, which is now one of the biggest investors in Google, benefited from sales of high-speed internet connections and higher advert sales.



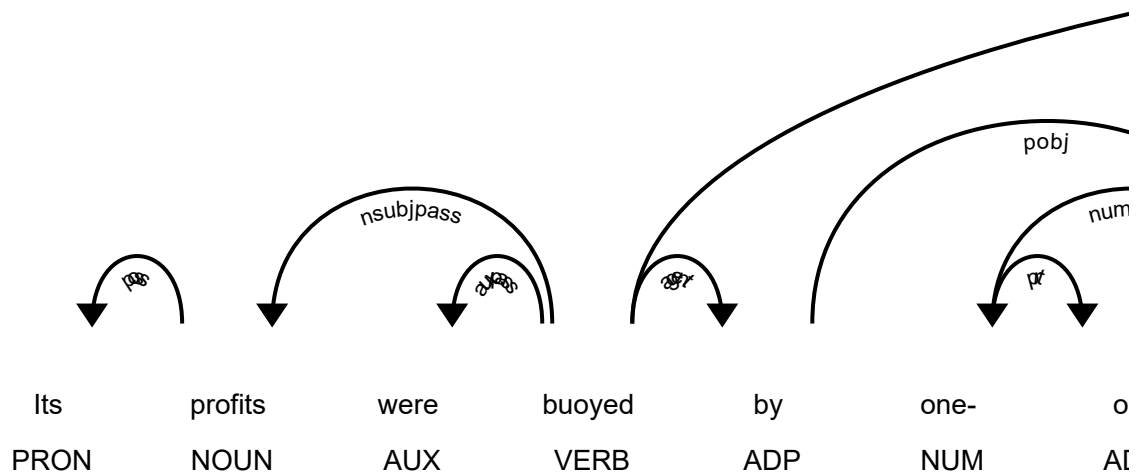
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Sentence 3: TimeWarner said fourth quarter sales rose 2% to \$11.1bn from \$10.9bn.



◀ ▶

Sentence 4: Its profits were buoyed by one-off gains which offset a profit dip at Warner Bros, and less users for AOL.



◀ ▶

Sentence 5: Time Warner said on Friday that it now owns 8% of search-engine Google.

