THE DYNAMICS OF FUNCTIONAL MEANINGS IN DISCOURSE

Volume II

LOH BOON LIANG
(B.SC. (HONS), NUS)

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APPENDICES

APPENDIX 1 CLAUSES OF THE TEXT

Appendix 1.1 Main Story (852 words)

1	October 10, 2008 Updated 1136 GMT (1936 HKT)
2	Commentary:
3	Why there 's a crisis

- 4 -- and how to stop it
- 5 CNN.com

5 - CNN.cor

6

- 7 At this point in the credit crisis, at least one thing is certain
- 8 : most policymakers lack a clue of what is really at stake.
- 9 Those with some knowledge are driving policy
- 10 looking through the rearview mirror.
- Begin with the U.S. Treasury's \$700 billion bailout package.
- 12 This was presented as some magic pill
- which, if gulped down, would quickly restore financial stability.
- The "shock and awe" of the sheer size of the taxpayer-funded bailout would somehow restore confidence.
- 15 Instead, stock markets collapsed
- and credit markets remained frozen.
- 17 This is because the credit crisis reflects something more fundamental than a serious problem of mortgage defaults.
- Global investors, now on the sidelines, have declared a buyers' strike against the sophisticated paper assets of securitization that financial institutions use to measure and offload risk.
- In recent years, our banks, borrowing to maximize the leverage of their assets at unheard-of levels, produced mountains of financial paper instruments (called asset-backed securities) with little means of measuring their value
- Incredibly, these paper instruments were insured by more dubious paper instruments.
- 21 Therefore, the housing crisis was a mere trigger for a collapse of trust in paper,
- followed by a de-leveraging of the entire global financial system.
- As a result, we are experiencing the painful downward reappraisal of the value of virtually every asset in the world.
- So what are these paper instruments, these asset-backed or mortgage-backed securities?

- I like to use a salad analogy.
- 26 Before the last decade, bankers simply lent in the form of syndicated loans.
- But with the huge expansion of the global economy in the 1990s, which produced an ocean of new capital, the bankers came up with an idea called securitization.
- 28 Instead of making simple loans
- and holding them until maturity,
- a bank collected all its loans together,
- 31 then diced
- and sliced them up into a big, beautiful tossed salad.
- 33 The idea was to sell (for huge fees) individual servings of diversified financial salad around the world.
- 34 The only problem: under an occasional piece of lettuce was a speck of toxic waste in the form of a defaulting subprime mortgage.
- 35 Eat that piece of salad,
- and you're dead.
- 37 The overall salad looked delicious,
- but suddenly global investors were no longer ordering salad.
- No one knew the location of the toxic waste.
- 40 This distrust heightened
- 41 when global interest rates began to rise.
- 42 So what does this salad boycott mean for the future
- and why have financial markets collapsed so brutally?
- The markets are telling us
- 45 the world will face a serious credit crunch in 2009
- 46 regardless of how much money government spends
- 47 to remove the toxic salad from bank balance sheets.
- 48 Policymakers have no means of forcing the banks to start lending
- short of nationalizing the entire financial system.
- After all, the U.S. banks alone so far during the crisis have lost upwards of \$2 trillion from their collective asset base.
- Most banks are leveraged by more than 10 to 1.
- Translation: The U.S. financial system will have a whopping \$15 trillion to \$20 trillion less credit available next year than was around a year and a half before.
- The cost of money is rising
- and the availability shrinking.
- True, the banks will still lend
- -- but the fear is they will do it only to people such as Warren Buffett,
- who don't need loans.
- What is uncertain is the amount of lending to borrowers engaged in entrepreneurial risk, the center of business reinvention and job creation.

- Apart from the economic pain resulting from shrinking credit markets, we are about to see an earthquake in the relationship between government and financial markets.
- The great uncertainty is whether government has the power to rescue the financial system in times of crisis.
- 61 It seems doubtful.
- In the United Kingdom, for example, the collected assets of the major banks are four times the nation's gross domestic product (GDP).
- A similar situation exists in many Euro zone countries.
- This means government cannot bail out the system even if it wanted to.
- Given such massive exposure, government guarantees in a time of crisis become meaningless.
- Yet because of the interconnected web of global financial relationships, we are all vulnerable to the threat.
- The collapse of, say, a major European bank would hardly leave American workers immune.
- Our policy leaders in Washington are thinking domestically
- when the solution to the credit crisis will be global.
- 70 It is not that the world lacks money;
- it is that the world's money is sitting on the sidelines
- 72 -- more than \$6 trillion in idle global money markets alone.
- 73 The challenge will be to reform our financial system quickly
- to draw that global capital back into more productive uses.
- 75 The first step should be efforts to make the market for future asset-backed paper more transparent and credible.
- We need a private/public global bank clearing facility.
- 77 The bankers don't trust each other.
- The central banks, working with the private institutions in providing enhanced data, need to begin to refashion the world's financial architecture.
- And while that is happening,
- the major governments of the world, including the Chinese, should begin major fiscal efforts to stimulate their weakening economies.

Appendix 1.2 Ten (Last) Comments (990 words)

2 Sound Off: Your opinions and comments 3 4 1. RCE 5 One easy way to stop the market volatility would be to make permanent the ban on short sales, across the board. 6 Take the short sales out of the market 7 and you will see reduced market volatility. 8 2. Professor Bear 10 It is much easier to explain the disaster in progress than to specify a remedy 11 -- sort of like noticing a tsunami is about to hit a coastal community is much easier than figuring out how to evacuate the community in time to save everyone. 12 13 3. P 14 I truly do wonder 15 how all these professionals, people who are paid for their knowledge of the workings of the nation's and the world's financial dealings, did not foresee the impending collapse of this house of cards built out of these toxic paper instruments? 16 It seems that for a long time your slightly above average Joe Sixpack knew 17 the bubble was going to burst. 18 How could these highly paid professionals have been blind to it? 19 Or were they perfectly aware of the situation

Commentary: Why there's a crisis -- and how to stop it - CNN.com

if they swerved too late

20

21

1

23 that they would be able to ride out the chaos they had created?

and playing chicken with the world's economy,

- Next time around I hope
- 25 there is someone willing to point out the elephant in the room and the fact the emperor has no clothes,
- well, that someone with some power would.

assured by their golden parachutes

- 27 It's not even a matter of regulation vs. de-regulation.
- 28 It is a matter of personal responsibility vs. corporate greed.
- 29 Forsaking all in the pursuit of profit is not the foundation of a sound economy.
- Why weren't the boards of directors seeking sound investments instead of the quick buck?
- Why were investors willing to ignore the fact they were participating in a dangerous pyramid scheme?

32 Why was Joe Sixpack getting a mortgage for a house he couldn't afford to maintain let alone pay for? 33 34 4. Jared 35 We are caught in a vicious cycle right now 36 and nobody seems to be able to pull us out of it or point to where the problem lies. 37 We wake up each morning 38 to find 39 that Asian & European markets have plummeted 40 and thus ours plummets. 41 On the other side of the globe they wake up 42 43 that American markets have plummeted 44 and theirs plummets in kind. 45 The media reports on it 46 and everyone panics, 47 snowballing the situation 48 and making it worse. 49 We are in a downward spiral 50 and people's fears are only making it worse. 51 Pulling all of your money out of stocks right now is not only a hasty decision that you will regret, 52 but adding to the problem 53 and making things worse. 54 Unless you are on the cusp of retirement, 55 sit tight 56 and ride it out 57 and don't panic 58 because panic only adds to the problem. 59 60 5. gmakens 61 I believe one of the problems is with the credit default swap (CDS) market, particularly what are called naked swaps. 62 A CDS is a contract between two parties 63 where the buyer pays a premium to the seller for protection against a debt security (like a collaterized mortgage obligation or a company bond) defaulting.

the seller then needs to pay the buyer the par value of the debt.
This is basically an insurance contract against defaulting debt.

64

If the debt defaults,

The problem is that speculators (hedge funds, etc) have bought this insurance on debt they don't even own.

- This is where the regulation has failed.
- 69 So now if a \$1MM bond defaults,
- and 100 speculators have bought a CDS on it,
- 71 the sellers of the CDS need to pay off that \$1MM bond 100 times over.
- How does this make economic sense?!
- 73 The reason for the credit squeeze is that the banks and financial institutions who sold these swaps have to acquire as much cash as they can
- in case they have to pay off on the defualts of the underlying debt.
- 75 They can't lend money
- they need to pay the speculators.
- 77 The credit crisis is not not going away
- 78 until this issue is addressed.
- 79 I think the government should make naked swaps illegal
- force all the financial institutions and speculators to unwind the contracts.
- Have the sellers give the buyers thier premium back,
- close the swaps,
- and call it even.
- Then the banks and financial institutions won't have to hoard their cash
- and instead can start loaning it out again.
- The outstanding value of all the CDS is on the order of \$50 TRILLION dollars!!
- The credit markets are not going to get back to normal
- 88 until this is addressed.
- But that is just my opinion.

90

- 91 6. Steve
- One of the comments on WASPs running Wall Street appears so.
- 93 Why is there no diversity?
- Where there is money and power they try to control?

95

- 96 7. Texrat
- Wow, a refreshing dose of common sense and reason.
- Do we have time to write David Smick in for president?

99

- 100 8. Mike M
- 101 It's emotion fueling it now
- so the media could help
- by pulling back on the rabid coverage -- the amount of coverage and the way its couched.
- We do not need to see another "Is this another Great Depression" piece
- when most Americans don't fully understand the complexity of the market nor the full details of the Depression.
- The press hype adds to the panic.

- 107 Watching every flicker of the Dow is not representative as well.
- 108 Do we even know
- what 6,000 points means?
- 110 The average invesorr needs to ask themseklves:
- 111 Is that my price?
- 112 Some investors see it as a buying opportunity.
- 113 The President's near daily special press conferences also do not help,
- especially having lost his credibility with Mission Accomplished.

115

- 116 9. Jonathan
- 117 If you really knew
- "how to stop it,"
- wouldn't you be a billionaire 700 times over?

120

- 121 10. Susan
- Has anyone ever thought to do an in-depth analyses of Bush and his associates finances?
- 123 I firmly believe they've gotten brutally rich during his term.
- 124 First with invading Iraq (oil)
- then laying in bed with Wall St.

In all clauses presented in Appendix 1.1 and Appendix 1.2, the original form of the text is preserved – including all misspellings and punctuation marks

APPENDIX 2 SF ANALYSIS OF CLAUSES

This is the most important section in the Appendices (and perhaps in the entire thesis); the information in this section forms the basis of all discussions in the main body of this thesis. Analysis at the level of the clause has been the basis of research in linguistics through the ages. Here is a complete compilation of all the SF analyses, at the level of the clause, of all clauses (as listed in Appendix 1: Clauses of the Text) of the main story and comments. The clause analysis is presented in the form of printouts from the Clause Page of Systemics.

Appendix 2.1 Main Story

SF analysis of the main story is comprehensive, spanning all metafunctions. For a complete list of dimensions of meaning present within the main story analysis, see Appendix 3: SF Analysis Matrices. The analysis includes the title: clause 3 & 4; and 74 ranking clauses numbered 7 to 80.

Index to Appendix 2.1

Main Story Clause	<u>Page</u>
clause 1	236
clause 10	240
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clause 30	266
clause 40	276
clause 50	287
clause 60	302
clause 70	314
clause 80	330

For each clause the printout consists of two tables: Clause Table, followed by the Analysis Table. The occasional Text Box beside the tables contains remarks, sometimes explaining why I analysed clause elements in non-conventional ways.

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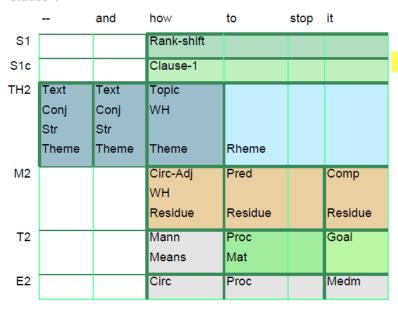
Clause 2

Commentary:

Clause 3



Clause 4



Clause 5

- CNN.com

Clause 7													
	At	this	point	[in	the	credit	crisis],	at	least	one	thing	is	certain
TH1	Topic Theme							Rheme					
M1	Circ-Adj Residue							Adj Comm Mood		Subj Mood		Fin Mood	Comp Residue
T1	Locn Time									Carr		Proc Rein Attr Int	Att
E1	Circ									Medm		Proc	Range
MET1m			Exp Circ Ent							Tex			Int Modal Qual
Tex1	Theme simple				Topio mark 								
Int1	SPEECH-FUNCTION Knowledge statement						TENSE present	POLARITY positive					
Exp1	VOICE middle medium												

	:	most	policymakers	lack	а	clue	[[of	what	is	really	at	stake]].
S1					Rank-shift							
S1c					Head		Clause-1					
TH1	Text Conj Str Theme	Topic Theme		Rheme								
M1		Subj Mood		Fin Pred Mood-Residue	Comp Residue							
T1		Carr Possr		Proc Rein Attr Poss	Att Possd							
E1		Medm		Proc	Range							
M2							Residue	Subj WH Mood	Fin Mood	Adj Mood	Comp Residue	
T2								Carr	Proc Reln Attr Circ		Att Circ	
E2								Medm	Proc		Range	

Tex1	Theme	Topic			
	multiple	unmarked			
	textual-1				
Int1	SPEECH-FUNCTION	Mood	TENSE	POLARITY	
	Knowledge	declarative	present	positive	
	statement	full			
Exp1	VOICE				
	middle				
	medium				
S1	Clause-1				
Int2	SPEECH-FUNCTION	Mood	MOOD-ADJUNCT	TENSE	POLARITY
	Knowledge	declarative	intensity	present	positive
	statement	full			
Exp2	VOICE				
	middle				
	medium				

	Those	with	some	knov	/ledge	are		driving		policy	
TH1	Topic										
	Theme					Rhei	ne ——				
M1	Subj					Fin		Pred		Comp	
	Mood					Moo		Resid	due	Residue	
T1	Actor					Proc				Goal	
						Mat					
E1	Agent					Proc				Medm	
Tex1	Theme				Topic						
IEXI	simple				unmarke	Ч					
						•					
Int1	SPEEC	H-FUN	ICTION		Mood		TEN	SF	POL A	ARITY	
	Knowled		1011011		declarativ	/e	pres		positi		
	stateme	_			full						
Exp1	VOICE										
•	effective)									
	active										
	agent										

policy: Range or Goal. Range-like: policy is a plan or strategy, doesn't exist without the

Goal-like: policy is developed/made/steered, impacted upon

	looking	through	the	rearview	mirror.	
TH1	Rheme					
M1	Pred	Comp				
	Residue	Residue				
T1	Proc	Locn				
	Behl	Place				
E1	Proc	Circ				
Tex1	Theme			Topic		
	none			none		
	non-finite					
Int1	SPEECH-F	UNCTION		Mood		
	Knowledge			non-finite		
	statement					
Exp1	VOICE					
	none					

Clause 11 Begin with the U.S. Treasury's \$700 billion bailout package. TH1 Topic Rheme Theme M1 Pred Comp Residue Residue T1 Proc Range Mat E1 Proc Range MET1m Tex Ехр Ехр Ехр Ехр Ent Ent None Proc Ent Mod Mod Qual Tex1 Theme Topic simple unmarked Int1 SPEECH-FUNCTION Mood Mood metaphor TENSE POLARITY Knowledge imperative positive present statement full Exp1 VOICE middle medium Exp1m VOICE middle

medium

mood met because it means "we're going to begin with..."

Clause 12

	This	was	presented	as	some	magic	pill					
	Topic TH Theme	Rheme							Theme simple	Topic unmarked		
	Subj	Fin	Pred	Circ-Adj								
	TH Mood	Mood	Residue	Residue					SPEECH-FUNCTION Knowledge	Mood declarative	TENSE past	POLARITY positive
T1m	Goal	Proc Mat		Role Guise					statement VOICE	full		
Т1	ldd Token	Proc Rein Iden Int		ldr ∨alue				·	effective passive ell-agent			
E1m	Medm	Proc		Circ				Exp1	VOICE middle			
E1	Medm	Proc		Range					medium			

T1m = "presented as" = "appeared as"

Clause 13

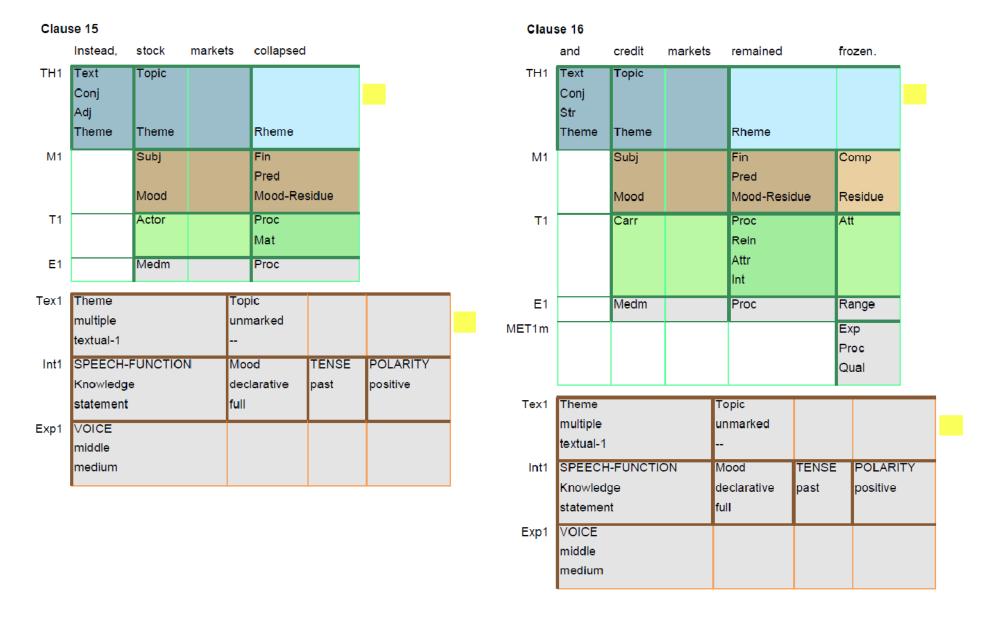
	which,	< <if< th=""><th>gulped</th><th>down>>,</th><th>would</th><th>quickly</th><th>restore</th><th>financial</th><th>stability.</th></if<>	gulped	down>>,	would	quickly	restore	financial	stability.
S1		Interrupt							
S1c		Clause-1							
TH1	Topic								
	WH								
	Theme				Rheme				
M1	Subj				Fin	Circ-Adj	Pred	Comp	
	WH				Modl				
	Mood				Mood	Residue	Residue	Residue	
T1	Actor				Proc	Mann	Proc	Range	
					Mat	Qual	Mat		
E1	Medm				Proc	Circ	Proc	Range	
MET1m									Exp
									Qual
									Ent
M2			Fin						
			Pred						
		Residue	Mood-Residue						
T2			Proc	Range					
			Mat						
E2			Proc	Range					

Tex1	Theme	Topic				
	simple	unmarked				
	Simple	ummarkeu				
Int1	SPEECH-FUNCTION	Mood	MODALITY	MODALITY-orientation	TENSE	POLARITY
	Knowledge	declarative	Modalization	subjective	future	positive
	statement	full	probability	implict		
			median	· .		
			modian			
Exp1	VOICE					
	middle					
	medium					
S1	Clause-1					
31	Clause-1					
Int2	SPEECH-FUNCTION	Mood				
	Knowledge	non-finite				
	statement					
	V0107					
Exp2	VOICE					
	none					

	The	"shock	and	awe"	[of	the	sheer	size	[of	the	taxpayer	-funded	bailout]]	would	somehow	restore	confidence.
	Topic Theme													Rheme			
	Subj													Fin	Circ-Adj	Pred	Comp
	Mood													Modl Mood	Residue	Residue	Residue
T1	Actor													Proc Mat	Mann Means	Proc Mat	Range
E1	Medm													Proc	Circ	Proc	Range
MET1m		Exp Proc		Exp Proc				Exp Attrib			Exp Ent	Exp Proc	Exp Proc				Exp Qual
		Ent		Ent				Ent			Mod	Qual	Ent				Ent

	Theme simple	Topic unmarked				
	Simple					
Int1	SPEECH-FUNCTION	Mood	MODALITY	MODALITY-orientation	TENSE	POLARITY
	Knowledge	declarative	Modalization	subjective	future	positive
	statement	full	probability	implict		
			median			
Exp1	VOICE					
	middle					
	medium					

"somehow" has some interpersonal function, expressing the author's own misgivings about this



Clause 17

Clause II																			
	This	is	because	[[the	credit cris	sis reflects	something	[[{which	is}	more	fundamental	than a	serious	problem	[of mo	rtgage	defaults]]]]].
S1				Rank-shift															
S1c				Clause-1															
S2								Rank-shift											
S2c								Clause-2											
S2cc									Ellipsis										
TH1	Topic TH Theme	Rheme																	
M1	TH T			Comp															
	Mood		Residue																
T1	Value 	Proc Reln Iden Circ		ldr Token Circ															
E1	Medm			Agent															
MET1m	Tex																		
M2				Subj		Fin Pred	Comp												
				Mood		Mood-Residue	Residue												
T2				ldd		Proc	ldr												
				Token		Reln	Value												
						lden Int													
E2				Medm			Range												
M3									Subj	Fin	Comp								
									WH										
											Residue								
Т3										Proc Reln Attr	Att								
										Int									
E3									Medm	Proc	Range								
MET2m																Ex	0	Exp	
																Ent Mo		Proc Ent	
				<u> </u>				<u> </u>				1				IVIO	u		

Tex1	Theme	Topic		
	simple	unmarked		
Int1	SPEECH-FUNCTION	Mood	TENSE	POLARITY
	Knowledge	declarative	present	positive
	statement	full		
Exp1	VOICE			
	effective			
	passive			
	agent			
S1	Clause-1			
Int2	SPEECH-FUNCTION	Mood	TENSE	POLARITY
	Knowledge	declarative	present	positive
	statement	full		
Exp2	VOICE			
	middle			
	medium			
S2	Clause-2			
Int3	SPEECH-FUNCTION	Mood	TENSE	POLARITY
	Knowledge	declarative	present	positive
	statement	ellipsed		
Exp3	VOICE			
	middle			
	ell-medium			

because="caused by (the fact that)"
(therefore process)
X causes Y (or X so Y)
Y is because X
(identifying)

	Global	investors,	<<{who	are}	now	on	the	sidelines>>,	have	declared	а	buyers'	strike	[against	the	sophisticated	paper	assets	[of	securitization]
S1			Interrupt								Rank-shift									
S1c			Clause-1												Head					
S1cc			Ellipsis																	
S1ccc																				
TH1	Topic Theme								Rheme											
M1	Subj Mood									Pred Residue	Comp Residue									
T1m	Sayer								Proc Verbl		Verb									
T1	Actor								Proc Mat		Range									
E1m	Medm								Proc		Range									
E1	Medm								Proc		Range									
MET1m												Ent	Exp Proc Ent							Exp Proc Ent
M2			WH		Circ-Adj Residue	Comp Residue														
T2						Att Circ														
E2			Medm	Proc	Circ	Range														
MET2m																				

[[that	financial	institutions	use	{the	sophisticated	paper	assets	[of	securitization]}		to	measure	and	offload	risk]]].
Complex															
Clause-2											Clause-3		Clause-4		
				Ellipsis											
										Ī					
Comp	Subj		Fin	Comp							Pred			Pred	Comp
	Mood		Pred Mood-Residue							П	Residue		Residue		
Goal	Actor		Proc	Goal						_	Proc			Proc	Goal
Coai	Actor		Mat	Ouai							Mat			Mat	Coai
										Ц					
Medm	Agent		Proc	Medm						Ц	Proc			Proc	Medm
															Exp Proc Ent

Tex1		Topic unmarked 								
Int1		Mood declarative full	POLARITY positive							
Exp1m	VOICE middle medium									
Exp1	VOICE middle medium									
S1	Clause-1			Clause-2			Clause-3		Clause-4	
		Mood declarative ellipsed	positive		Mood declarative full	positive	SPEECH-FUNCTION Knowledge statement	non-finite	SPEECH-FUNCTION Knowledge statement	Mood non-finite
Exp2	VOICE middle ell-medium			VOICE effective active agent			VOICE none		VOICE none	

	In	recent	years,	our	banks,	< <bor>orrowing </bor>	to	maximize	the	leverage	[of th	eir assets	at	unheard-of	levels>>,	produced
S1						Interrupt										
S1c						Complex										
S1cc						Clause-1	Clause-2	2								
TH1	Topic Theme			Rheme												
M1	Circ-Adj Residue			Subj Mood		Circ-Adj Residue										Fin Pred Mood-Residue
T1	Locn Time			Actor		Mann Means										Proc Mat
E1	Circ			Medm		Circ										Proc
M2						Pred Residue	Pred Residue		Comp Residue				Circ-Adj Residue			
T2						Proc Mat	Proc Mat		Range				Ext Spat			
E2						Proc	Proc		Range				Circ			
MET2m								Exp Qual Proc						Exp Proc Qual		

making = Range, IFG 3rd ed p 193

mountains	[of	financial	paper	instruments	([[called	asset	-backed	securities]])]	with	little	means	[[of	measuring	their	value]].
Rank-shift									Rank-shift						
		Head			Clause-3					Head		Clause-4			
Comp									Circ-Adj						
Residue									Residue						
Range									Accom Comt						
Range									Circ						
					Pred Residue	Comp Residue							Pred Residue	Comp Residue	
						ldr Value							Proc Mat	Range	
					Proc	Range							Proc	Range	
						Exp Ent Mod	Exp Proc Qual				Log Rel Ent			Exp Ent Mod	Exp Attrib Ent

Tex1		Topic marked 						
Int1		Mood declarative full		POLARITY positive				
Exp1	VOICE middle medium							
S1	Clause-1		Clause-2		Clause-3		Clause-4	
Int2	SPEECH-FUNCTION Knowledge statement		SPEECH-FUNCTION Knowledge statement	non-finite	SPEECH-FUNCTION Knowledge statement	non-finite	SPEECH-FUNCTION Knowledge statement	Mood non-finite
Exp2	VOICE none		VOICE none		VOICE none		VOICE none	

	Incredibly,	these	paper	instrumen	ts	were	insured	by	more	dubious	paper	instruments.
TH1	Int Mod Adj Theme	Topic Theme				Rheme						
M1	Adj Comm Mood	Subj Mood				Fin Mood	Pred Residue	Circ-Adj Residue				
T1		ldd ∀alue				Proc Rein Iden Circ		ldr Token				
E1		Medm				Proc		Agent				
MET1m	Int Modal Circ									Int Modal Qual		
Tex1	Theme multiple interpersonal-	-1	To uni 	pic marked					=X wer	X were instead of the control of the	ed by Y	
Int1	SPEECH-FUN Knowledge statement	NCTION	Mo de full	clarative	TENS past		LARITY			- Coccado -		
Ехр1	VOICE effective passive agent											

Clause 21

	Therefore,	the	hou	sing	crisis	was	а	mere	trigge	r [for	а	collapse	[of	trust	[in	paper]]],
TH1	Text Conj Adj Theme	Topic Theme Subj				Rheme Fin	Comp									
IVII		Mood				Mood	Residue									
T1		Carr				Proc Rein Attr Int	Att									
E1		Medm				Proc	Range				П					
MET1m			Exp Prod Qua	:					Exp Proc Ent		ı	Exp Proc Ent		Exp Proc Ent		Exp Ent Mod
Tex1	Theme multiple textual-1			Topic unma												
Int1	SPEECH-FU Knowledge statement	INCTION		Mood declar full		MOOD-A intensity	DJUNCT	TEN		POLAR positive						
Exp1	VOICE middle medium															

	{which	was}	followe	d	by	а	de-leveraging	[of	the	entire	global	financial	system].
S1	Ellipsis												
TH1	Topic WH Theme	Rheme											
M1	Subj WH Mood	Fin Mood	Pred Residue		Circ-Adj Residue								
T1	ldd ∀alue 	Proc Reln Iden Circ			ldr Token Circ								
E1	Medm	Proc			Agent								
MET1m			Log Rel Proc				Exp Proc Ent			Exp Ent Mod			
Tex1	Theme simple			Top unm ellip	narked								
Int1	SPEECH- Knowledg statement			Mod non-	od -finite								
Exp1	VOICE none												

Clause 23	se 23
-----------	-------

	As	а	result,	we	are	experiencing	the	painful	downward	reappraisal	[of	the	value	[of	virtually	every	asset	[in	the	world]]].
TH1	Text			Topic																
	Conj																			
	Adj																			
	Theme			Theme	Rheme															
M1				Subj	Fin	Pred	Comp													
		Ш		Mood	Mood	Residue	Residue													
T1		П		Sens	Proc		Phen													
		П			Ment		Range													
					Aff															
E1				Medm	Proc		Range													
MET1m		П	Tex					Ехр	Ехр	Exp	Г		Exp		Ехр					
		Ш						Circ	Circ	Proc			Attrib		Ent					
								Qual	Qual	Ent			Ent		Mod					

Tex1	Theme multiple textual-1	Topic unmarked 		
Int1	SPEECH-FUNCTION Knowledge statement	Mood declarative full	TENSE present	POLARITY positive
Exp1	VOICE middle medium			

Clause 24 asset -backed or mortgage So what paper instruments, -backed securities? are these these TH1 Text Topic WH Cont Rheme Theme Theme M1 Circ-Adj Fin Subj Subj WH Residue Mood Mood Mood T1 ldr Proc ldd ldd ∨alue Reln Token Token lden Int E1 Range Medm Proc Medm Ехр MET1m Ехр Ехр Ехр Proc Ent Proc Ent Mod Mod Qual Qual Tex1 Theme Topic "So"="Well" multiple unmarked mood met because it means "I'm going to talk about what textual-1 these xxx are" Int1 SPEECH-FUNCTION POLARITY Mood Mood metaphor TENSE Knowledge WH-interrogative present positive full statement Exp1 VOICE

middle medium

	1	{I}	like	to	use	а	salad	analogy.			
TH1	Topic Theme	Rheme									
M1	Subj Mood	Modal-Met Mood		Pred Residue		Comp Residue					
T 1	Actor	Wiood		Proc Mat		Range					
E1	Medm			Proc		Range					
Tex1	Theme multiple			Topic Inmarked							
In t 1	interpers SPEECH	onal-1 I-FUNCTION	-	- Mood	MO	DALITY	MODAL	.ITY-orientati	on	POLARITY	
	Action offer			leclarative ull		dulation ination	subjecti explicit	ve		positive	
Exp1	VOICE				med	dian					
·	middle medium										

Clause 26

	Before	the	last	decad	e,	bankers	simply	lent		in		the	form	of	syndicated	loans.	
TH1	Topic Theme					Rheme											ŀ
M1	Circ-Adj Residue					Subj Mood	Ad j Mood	Fin Pred Mood-Resi	duo	Circ-/							
T1	Locn					Actor	IVIOOU	Proc Mat	uue	Role							
E1	Circ					Medm		Proc		Circ							
MET1m															Exp Proc Qual		
Tex1	Theme simple			ŀ	Topic mark			<u>'</u>					-				_
Int1	SPEECH-f Knowledge statement		TION		Mood decla full		MOOD-AD intensity	DJUNCT	TENSE past		OLARI	ITY					
Exp1	VOICE middle medium																

	But	with	the	huge	expansion	[of	the	global	economy]	in	the	1990s,	< <which< th=""><th>produced</th><th>an</th><th>ocean</th><th>[of</th><th>new</th><th>capital]>>,</th></which<>	produced	an	ocean	[of	new	capital]>>,
S1													Interrupt						
S1c													Clause-1						
TH1	Conj Adj	Topic Theme																	
M1		Circ-Adj Residue																	
T1m		Locn Time																	
T1		Locn Time																	
E1m		Circ																	
E1		Circ																	
MET1m					Exp Proc Ent			Exp Ent Mod											
M2													Subj WH Mood	Pred Residue	Comp Residue				
T2													Actor	Proc Mat	Range				
E2													Agent	Proc	Medm				
MET2m																			

see IFG 3rd ed p. 542: "and" and "but" are not syntactic adjuncts but can function as conj adj

the	bankers	came	up	with	an	idea	[[called	securitization]].
					Rank-shift			
					Head		Clause-2	
Rheme								
Subj		Fin Pred Mood-Residue			Comp Residue			
Actor		Proc Mat			Range			
Sens		Proc Ment Cogn			Phen Range			
Medm		Proc			Range			
Medm		Proc			Range			
							Proc Reln Iden Int	ldr Value
							Proc	Range
								Exp Proc Ent

Tex1	Theme	Topic				
	multiple	marked				
	textual-1					
Int1	SPEECH-FUNCTION	Mood	TENSE	POLARITY		
	Knowledge	declarative	past	positive		
	statement	full				
Exp1m	VOICE					
	middle					
	medium					
Exp1	VOICE					
	middle					
	medium					
S1	Clause-1				Clause-2	
Int2	SPEECH-FUNCTION	Mood	TENSE	POLARITY	SPEECH-FUNCTION	Mood
	Knowledge	declarative	past	positive	Knowledge	non-finite
	statement	full			statement	
Exp2	VOICE				VOICE	
	effective				none	
	active					
	agent					

Clause 28 Instead of making simple loans TH1 Topic Theme TH2 Text Conj Str Theme Rheme M1 Pred Comp Residue Residue **T**1 Proc Range Mat E1 Proc Range Tex1 Theme Topic beta-clause marked dependent Tex2 Theme Topic multiple none textual-1 Int1 SPEECH-FUNCTION Mood Knowledge non-finite statement Exp1 VOICE none

Claus	se 29						
	and	holding	them		until	ma	aturity,
TH1	Topic Theme						
TH2	Text Conj Str Theme	Rheme					
M1		Pred Residue	Comp Residu	ıe	Circ-Adj Residue		
T1		Proc Mat	Goal		Ext Temp		
E1		Proc	Medm		Circ		
MET1m						Qı Er	ual
Tex1	Theme beta-clau	se		Topi marl depe			
Tex2	Theme multiple textual-1			Topi none			
Int1	SPEECH Knowledg statemen		I	Moo non-	d finite		
Exp1	VOICE none						

Clause 31 Clause 30 bank) diced then {the {its loans} its loans together, bank collected а all **S**1 Ellipsis Ellipsis TH1 Rheme TH1 Rheme TH2 Topic TH2 Topic Text Rheme Theme Conj Fin M1 Subj Circ-Adj Comp Str Pred Theme Theme Rheme Mood Mood-Residue Residue Residue Subj Fin Comp M1 T1 Actor Proc Goal Mann Pred Qual Mat Mood-Residue Mood Residue E1 Agent Proc Medm Circ T1 Actor Proc Goal Mat Tex1 Theme Topic Agent E1 Proc Medm none none alpha-clause Theme Tex1 Topic Topic Tex2 Theme none none unmarked simple alpha-clause Tex2 Theme Topic Int1 SPEECH-FUNCTION POLARITY TENSE Mood multiple unmarked Knowledge declarative past positive textual-1 ellipsed full statement SPEECH-FUNCTION TENSE POLARITY Mood Exp1 VOICE Knowledge positive declarative past effective ellipsed statement active Exp1 VOICE agent effective active ell-agent

Clause 32

	and	{the	bank}	sliced		them	l	up	into	а	big,	beautiful	tossed	salad.
S1		Ellipsis								Γ				
TH1	Rheme													
TH2	Text Conj Str Theme	Topic Theme		Rheme										
M1	Theme	Subj		Fin Pred Mood-Residue	e	Com		Pred Residue	Circ-Adj Residue					
T 1		Actor		Proc Mat		Goal		Proc Mat	Role Prod					
E1		Agent		Proc		Medi	m	Proc	Circ	Г				
MET1m													Exp Proc Qual	
Tex1	Theme none alpha-cla	use		Topic none										
Tex2	Theme multiple textual-1			Topic unmarked ellipsed										
Int1	SPEECH Knowledg statemen			Mood declarative ellipsed	TENS past	SE .	POLA positiv							
Exp1	VOICE effective active ell-agent													

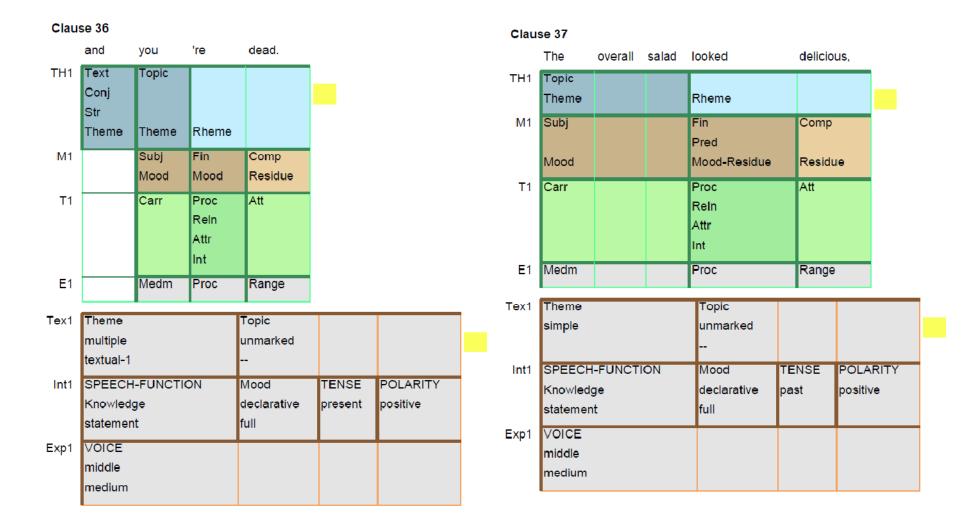
Claus	se 33																
	The	idea	was	[[to	sell	<(for	huge	fees)>	individual	servings	[of	diversified	financial	salad]	around	the	world]].
S 1				Rank-shift													
S1c				Clause-1													
	Topic																
	Theme		Rheme														
	Subj		Fin	Comp													
	Mood		Mood	Residue													
T1	ldd		Proc	ldr													
	∨alue		Rein	Token													
			Iden														
			Int														
E1	Medm		Proc	Agent													
MET1m		Log															
		Rel															
		Ent															
M2				Pred		Circ-Adj			Comp						Circ-Adj		
				Residue		Residue			Residue						Residue		
T2				Proc		Caus			Goal						Locn		
				Mat		Purp									Place		
E2				Proc		Circ			Medm						Circ		
MET2m									Ехр	Ехр		Exp					
									Circ	Proc		Proc					
									Qual	Ent		Qual					

Tex1	Theme	Topic		
	simple	unmarked		
Int1	SPEECH-FUNCTION	Mood	TENSE	POLARITY
	Knowledge	declarative	past	positive
	statement	full		
Exp1	VOICE			
	effective			
	passive			
	ľ			
	agent			
S1	Clause-1			
Int2	SPEECH-FUNCTION	Mood		
	Knowledge	non-finite		
	statement			
Exp2	VOICE			
	none			

use o	The	only	problem		[[[under	an occasio	nal niece	of lettuce	l was	2	enack	of toxi	c waste	lin th	e form	of a	defaultin	a euhnrin	ne mortgag
	THE	Offiny	problem	1.			mai piece	or rettuce] was	a	эреск	OI TOXI	c waste	, fur cu	e lolli	or a	deladitiii	g subpilii	ie illoitgag
					Rank-shift														
С					Clause-1														
1	Topic Theme			Rheme															
	Subj Mood			Fin Mood	Comp Residue														
	ldd Value				ldr Token														
	Medm			Proc	Agent														
ET1m			Log Rel Ent																
2					Comp Residue					Subj Mood									
2					ldd Value Circ				Proc Reln Iden Circ	ldr Token 									
2					Medm				Proc	Agent									
ET2m						Exp Circ Qual											Exp Proc Qual		

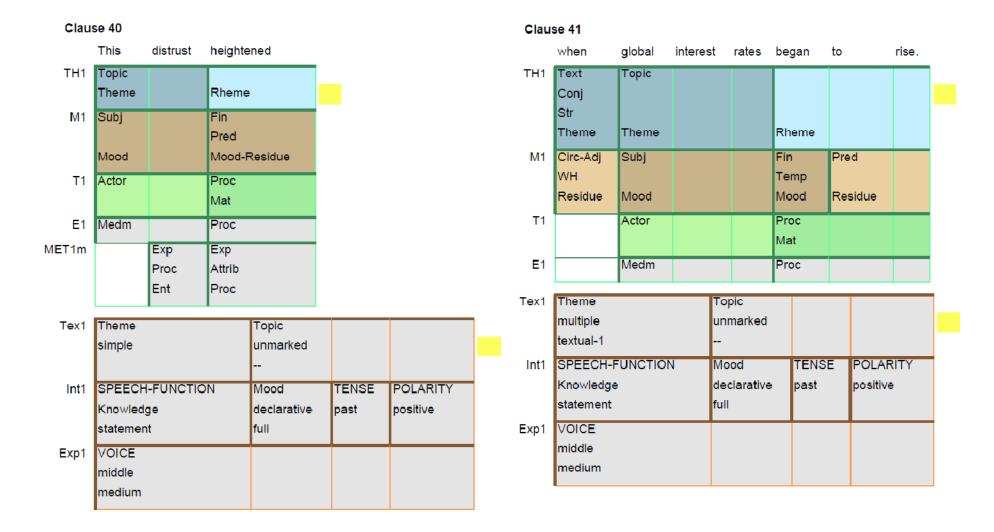
Tex1	Theme	Topic		
	simple	unmarked		
Int1	SPEECH-FUNCTION	Mood	POLARITY	
	Knowledge	declarative	positive	
	statement	full		
Exp1	VOICE			
	effective			
	passive			
	agent			
S1	Clause-1			
Int2	SPEECH-FUNCTION	Mood	TENSE	POLARITY
	Knowledge	declarative	past	positive
	statement	full		
Exp2	VOICE			
	effective			
	passive			
	agent			

	Eat	that	piece	of	salad,				
TH1	Topic Theme	Rheme							
M1	Pred Residue	Comp Residue							
T1	Proc Mat	Goal							
E1	Proc	Medm							
Tex1	Theme simple		ŀ	Topic unma 					
Int1	SPEECH-F Knowledge statement		ļ	Mood imper full	l rative	Mood metaphor	TENSE present	POLARITY positive	
Exp1	VOICE effective active ell-agent								



but	suddenly	globa	ıl	investors	,	were	no	longer		orderir	ng	salad.
Text	Topic				П							
Str												
Theme	Theme	Rhen	ne									
	Circ-Adj	Subj			T	Fin	Adj			Pred		Comp
	Residue	Mood	ı		ı	Mood	Mood		ı	Residu	ıe	Residue
	Mann	Actor			7	Proc	Ext		Ī	Proc		Range
	Qual				ı	Mat	Temp			Mat		
	Circ	Medn	n		T	Proc	Circ			Proc		Range
Theme			Top	ic	_							
textual-1												
SPEECH	-FUNCTION		Mod	od	M	OOD-AE	JUNCT	Т	Έľ	NSE	POL	.ARITY
					tim	пе		р	as	t	posi	
statemen	t		full									
VOICE												
middle												
medium												
	Text Conj Str Theme Theme multiple textual-1 SPEECH Knowledg statemen VOICE middle	Text Conj Str Theme Circ-Adj Residue Mann Qual Circ Theme multiple textual-1 SPEECH-FUNCTION Knowledge statement VOICE middle	Text Conj Str Theme Theme Rhen Circ-Adj Subj Residue Mood Mann Qual Circ Medn Theme multiple textual-1 SPEECH-FUNCTION Knowledge statement VOICE middle	Text Conj Str Theme Theme Rheme Circ-Adj Subj Residue Mood Mann Actor Qual Circ Medm Theme multiple textual-1 SPEECH-FUNCTION Knowledge statement VOICE middle	Text Conj Str Theme Rheme Circ-Adj Subj Residue Mood Mann Actor Qual Circ Medm Theme multiple marked SPEECH-FUNCTION Mood Knowledge statement VOICE middle	Text Conj Str Theme Theme Rheme Circ-Adj Subj Residue Mood Mann Actor Qual Circ Medm Theme multiple textual-1 SPEECH-FUNCTION Mood Knowledge statement VOICE middle	Text Conj Str Theme Rheme Circ-Adj Subj Fin Mood Mann Actor Proc Mat Circ Medm Proc Theme multiple textual-1 SPEECH-FUNCTION Mood MOOD-AE time full VOICE middle	Text Conj Str Theme Rheme Circ-Adj Subj Residue Mood Mood Mood Mood Mann Qual Proc Ext Mat Temp Circ Medm Proc Circ Theme multiple marked textual-1 SPEECH-FUNCTION Mood declarative statement full VOICE middle	Text Conj Str Theme Theme Rheme Circ-Adj Subj Fin Adj Residue Mood Mood Mood Mann Actor Proc Ext Mat Temp Circ Medm Proc Circ Theme multiple marked textual-1 SPEECH-FUNCTION Mood declarative statement VOICE middle	Text Conj Str Theme Rheme Circ-Adj Subj Residue Mood Mood Mood Mood Mood Mann Qual Proc Ext Mat Temp Circ Medm Proc Circ Theme multiple textual-1 SPEECH-FUNCTION Mood declarative statement full VOICE middle	Text Conj Str Theme Theme Rheme Circ-Adj Subj Residue Mood Mood Residue Mann Actor Qual Circ Medm Proc Circ Proc Theme multiple textual-1 SPEECH-FUNCTION Mood declarative statement VOICE middle	Text Conj Str Theme Theme Rheme Circ-Adj Subj Residue Mood Mood Residue Mann Actor Qual Circ Medm Proc Circ Proc Theme multiple marked textual-1 SPEECH-FUNCTION Mood declarative statement VOICE middle

Claus	se 39											
	No	one	knew		the		locatio	n	[of	the	toxic	waste].
TH1	Topic Theme		Rheme									
M1	Subj		Fin Pred		Comp							
	Mood		Mood-Resid	ue	Residu	€						
T 1	Sens		Proc Ment Cogn		Phen Range							
E 1	Medm		Proc		Range	_			_			
MET1m							Exp Circ Ent				Exp Ent Mod	
Tex1	Theme simple			Topic unmar 	ked							
Int1	SPEECH Knowled statemen	ge	CTION	Mood declar full	ative	TEI pas	NSE st	POL posi				
Exp1	VOICE middle medium											



Clau	se 42										
	So	what	does		this	salad	boycott	mean	for	the	future
TH1	Text Cont Theme	Topic WH Theme	Rheme	Э							
M1		Comp WH Residue	Fin Mood		Subj Mood			Pred Residue	Circ-Adj Residue		
T1		ldr Value		ldd Token			Proc Rein Iden Int	Locn Time			
E 1		Range	_	Medm			Proc	Circ			
MET1m		Range Proc				Exp Ent Mod	Exp Proc Ent				
Tex1	Theme multiple textual-1			Top unr	oic marked						
Int1	SPEECH Knowledo statemen	edge ent			od I-interrog	ative	Mood m	netaphor	TENSE present	POL	ARITY
Exp1	VOICE middle medium										

"so"= "well", not "therefore" mood met because it means "I'm going to tell you what this xxx means"

Claus	se 43												
	and	why	have		financial	market	s	collapsed	so		bru	ıtally?	
TH1	Text Conj Str Theme	Topic WH Theme	Rheme	•									
M1		Circ-Adj WH Residue	Fin Mood		Subj Mood			Pred Residue		c-Adj sidue			
T1		Caus Reas	Proc Mat		Actor			Proc Mat	Ma Qu				
E1		Circ	Proc	Medm				Proc	Cir	Circ			
MET1m											Ex Qu Cir	ıal	
Tex1	Theme multiple textual-1			Top unr	pic marked								
Int1	SPEECH Knowledg statemen			Mo WH full	l-interrogati	ve	Mod	od metaphor		TENSE past		POLARIT positive	Υ
Exp1	VOICE middle medium												

	The	markets	are		telling	us	_	
TH1	Topic Theme		Rheme	9				
M1	Subj Mood		Fin Mood		Pred Residue	Comp Residue		
T 1	Sayer		Proc Verbl			Rec		
E1	Medm		Proc			Benef		
Tex1	Theme simple			To uni	pic marked			
Int1	SPEECH Knowledg statemen		l	Mo de full	clarative	TENSE present	POLARITY positive	
Exp1	VOICE middle medium							

	the	world	will	face	а	serious	credit	crunch	in	2009
TH1	Topic Theme		Rheme							
M1	Subj		Fin Temp	Pred	Comp				Circ-Adj	
	Mood		Mood	Residue	Residue				Residue	
T1m	Actor		Proc Mat		Range				Locn Time	
T1	Carr		Proc Rein Attr Circ		Att Circ				Locn Time	
E1m	Medm		Proc		Range				Circ	
E 1	Medm		Proc		Range				Circ	
MET1m							Exp Ent Mod	Exp Proc Ent		

Tex1	Theme	Topic		
	simple	unmarked		
Int1	SPEECH-FUNCTION	Mood	TENSE	POLARITY
	Knowledge	declarative	future	positive
	statement	full		
Exp1m	VOICE			
	middle			
	medium			
Exp1	VOICE			
	middle			
	medium			

	regardless	of	how	much	mone	ЭУ	gover	nment	spend	ds	
TH1	Text Conj Str		Topic								
M1	Theme		Theme Comp				Rhem Subj	е	Fin		
			Residue				Mood		Pred Mood	I-Residue	
T1			Range				Actor		Proc Mat		
E1			Range				Medm	1	Proc		
Tex1	Theme multiple textual-1			Topic unmarke 	d						
Int1	SPEECH-FUN Knowledge statement	NCT		Mood declarati full	ve	TEN pres		POLARI7 positive	Υ		
Exp1	∨OICE middle medium										

	to	remove	the		toxic	salad	from	bank	balance	sheets.
TH1	Rheme									
M1	Pred		Comp				Circ-Adj			
	Residue		Resid	ue			Residue			
T1m	Proc		Goal				Locn			
	Mat						Place			
T 1	Proc		Att				Carr			
	Rein	Poss					Possr			
	Attr									
	Poss									
E1m	Proc		1			Circ				
E1	Proc		•			Medm				
Tex1	Theme			Topi	r		•			
TOXT	none			none						
	non-finite					l l				
Int1	SPEECH-F	UNCTION	J	Моо	d					
	Knowledge	•		non-	finite					
	statement									
Exp1m	VOICE									
-	none									
Exp1	VOICE									
•	none									

conventionally "remove" is material process, but here I've taken it to mean something like removing \$5 from your bank account, so possessive

	Policymakers	have	no	means	[[of	forcing	the	banks	to	start	lending]]
S1			Rank-shift								
S1c			Head		Clause-1						
TH1	Topic	Discourse									
	Theme	Rheme									
M1	Subj	Fin	Comp								
	Mood	Mood	Residue								
T1	Carr	Proc	Att								
	Possr	Reln	Possd								
		Attr									
		Poss									
E1	Medm	Proc	Range								
MET1m				Log							
				Rel		l					
				Ent							
M2						Pred	Comp		Pred		
					Residue	Residue	Residue		Residue		
T2						Proc	Goal		Proc		
						Mat			Mat		
E2						Proc	Medm		Proc		

Tex1	Theme	Topic		
	simple	unmarked		
Int1	SPEECH-FUNCTION	Mood	TENSE	POLARITY
	Knowledge	declarative	present	positive
	statement	full		
Exp1	VOICE			
	middle			
	medium			
S1	Clause-1			
Int2	SPEECH-FUNCTION	Mood		
	Knowledge	non-finite		
	statement			
Exp2	VOICE			
	none			

	short	of	nationalizing	the	entire	financial	system.	
TH1	Text Conj							
	Str							Г
	Theme		Rheme					
M1			Pred	Comp				
			Residue	Residue				
T 1			Proc	Goal				
			Mat					
E 1			Proc	Medm				
MET1m			Ехр					
			Ent					
			Proc					
Tex1	Theme			Topic				
	multiple			none				
	textual-1							
Int1	SPEECH	-FU	INCTION	Mood				
	Knowledg	je		non-finite				
	statemen	t						
Exp1	VOICE							
	none							

	After	all,	the	U.S.	banks	alone	S0	far	<during< th=""><th>the</th><th>crisis></th><th>have</th><th>lost</th><th>upwards</th><th>of</th><th>\$2</th><th>trillion</th><th>from</th><th>their</th><th>collective</th><th>asset</th><th>base.</th></during<>	the	crisis>	have	lost	upwards	of	\$2	trillion	from	their	collective	asset	base.
	Text Conj Adj Theme		Topic Theme			Rheme																
M1			Subj Mood				Adj Mood		Circ-Adj Residue					Comp Residue				Circ-Adj Residue				
T1			Carr Possr			Accom Add	Ext Temp		Locn Time			Proc Reln Attr Poss		Att Possd				Locn Place				
E1			Medm			Circ	Circ		Circ			Proc		Range	П			Circ				
MET1m																				Exp Proc Qual		
Tex1	Theme multipl textual	е			pic imarked	i																
Int1	SPEE(Knowle statem	edge	UNCTIO		eclarativ	MOO e intens		UNC	T MOO time	D-Al	DJUNCT	TENS past	POLA positiv									
Exp1	VOICE middle mediur																					

	Most	banks	are	leveraged	by	more	than	10	to	1.	
TH1	Topic										
	Theme		Rheme								
M1	Subj		Fin	Pred	Circ-Adj						
	Mood		Mood	Residue	Residue						
T1	Goal		Proc		Ext						
			Mat		Spat						
E1	Medm		Proc		Circ						
		<u>'</u>						_			
Tex1	Theme			Topic							
	simple			unmarked							
Int1	SPEECH	-FUNCTI	ON	Mood	TENSE	POLAF	RITY				
	Knowled	ge		declarative	present	positive	е				
	statemen	t		full							
Exp1	VOICE										
	effective										
	passive										
	ell-agent										

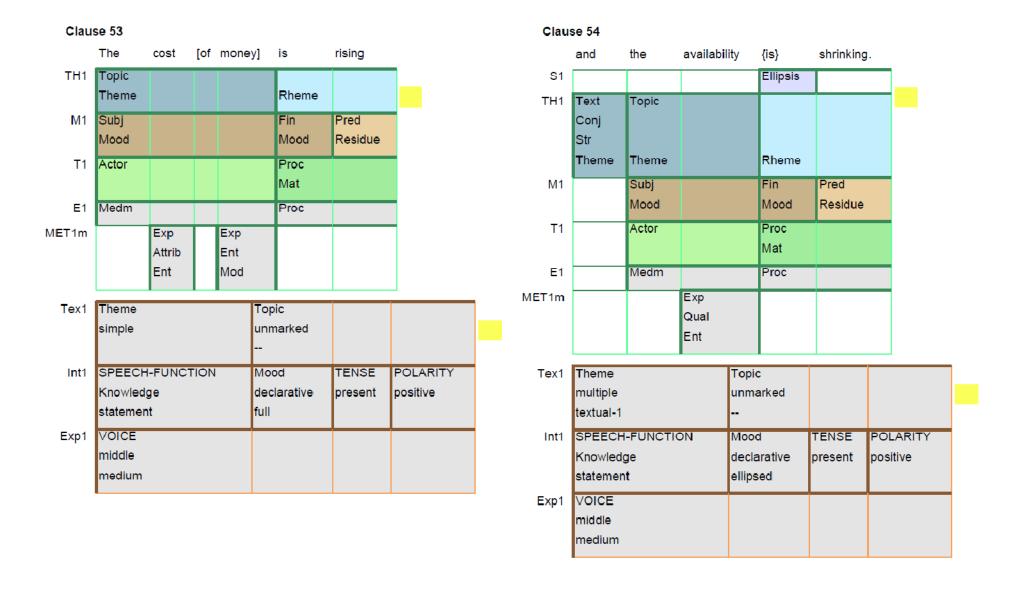
- Leverage
 1. using borrowed money to increase your potential return on investment.
- 2. The amount of debt used to finance a firm's assets
- P) The bank was leveraged by the merger.
- A) The merger leveraged the bank.

Clause	52
	1

iause o	Translation	:	[[The	U.S.	financial	system	will	have	а	whopping	\$15	trillion	to 9	620 tr	illion	less	credit	available	e next	ye
1			Rank-shift																	
1c			Clause-1																	Т
2									Rank-shift											Т
2c									Head											Т
3																				Т
11	Topic Theme	Rheme																		
1	Subj Mood	Fin Mood	Comp Residue																	
1	ldd Token	Proc Reln Iden Int	ldr Value																	
1	Medm	Proc	Range																	Т
ET1m	Exp Proc Ent																			
2			Subj				Modl	Fin	Comp											
			Mood					Mood	Residue											
2			Carr Possr				Proc Reln Attr Poss		Att Possd											
2			Medm				Proc		Range											Т
3									-											
																				T
3														_						+

[[than	{what}	was	around	а	year	and	а	half	before]].]]
Clause-2									
Olddoc 2	Ellipsis								
Residue	Subj Mood		Comp Residue						
	Carr	Proc Reln Attr Circ	Att Circ	Locn Time					
	Medm	Proc	Range	Circ					

Tex1	Theme	Topic				
	simple	unmarked				
						ľ
Int1	SPEECH-FUNCTION	Mood	POLARITY			
iiici		declarative				
	Knowledge		positive			
	statement	full				
Exp1	VOICE					
	middle					
	medium					
S1	Clause-1					
Int2	SPEECH-FUNCTION	Mood	MODALITY	MODALITY-orientation		POLARITY
	Knowledge	declarative	Modalization	subjective	future	positive
	statement	full	probability	implict		
			median			
Exp2	VOICE					
	middle					
	medium					
S2	Clause-2					
Int3	SPEECH-FUNCTION	Mood	TENSE	POLARITY		
	Knowledge	declarative	past	positive		
	statement	ellipsed				
Eva2	VOICE					
Exp3						
	middle					
	ell-medium					



	True,	the	banks	will	still		lend				
TH1	Int Mod Adj Theme	Topic Theme		Rheme							
M1	Adj Pol Mood	Subj		Fin Temp Mood	Adj Mod		Pred Residue				
T1		Actor		Proc Mat	Ext Tem		Proc Mat				
E1		Medm		Proc	Circ		Proc				
Tex1	Theme multiple interpers	onal-1		Topic unmarked	I						
Int1	SPEECH Knowledgestatemen	ge	ON	Mood declarativ full	е	pola	OD-ADJUN arity itive	СТ	MOOD-ADJUNCT time	TENSE future	POLARITY positive
Exp1	VOICE middle medium										

Claus	se 56															
		but	the	fear	is	[[they	will	do	it	only	to	people	<such< td=""><td>as</td><td>Warren</td><td>Buffett>,]]</td></such<>	as	Warren	Buffett>,]]
S 1						Rank-shift										
S1c						Clause-1										
TH1	Text Conj Str	Text Conj Str	Topic													
	Theme	Theme	Theme		Rheme											
M1			Subj Mood		Fin Mood	Comp Residue										
T1			ldd Value		Proc Rein Iden Int	ldr Token										
E1			Medm		Proc	Agent										
MET1m				Exp Proc Ent												
M2						Subj	Fin Modl	Pred	Comp	Adj	Pred	Comp Residue				
T2						Mood Actor	Mood Proc Mat	Residue	Residue Range	Mood	Residue Proc Mat	Goal				
E2						Agent	Proc		Range		Proc	Medm				

Tex1	Theme	Topic					
	multiple	unmarked					
	textual-2						
Int1	SPEECH-FUNCTION	Mood	TENSE	POLARITY			
	Knowledge	declarative	present	positive			
	statement	full					
Exp1	VOICE						
	effective						
	passive						
	agent						
S1	Clause-1						
Int2	SPEECH-FUNCTION	Mood	MODALITY	MODALITY-orientation	MOOD-ADJUNCT	TENSE	POLARITY
	Knowledge	declarative	Modalization	subjective	intensity	future	positive
	statement	full	probability	implict			
			median				
Exp2	VOICE						
	effective						
	active						
	agent						

	who	don't	need		loans.	_		
TH1	Topic WH Theme	Rheme						
M1	Subj WH Mood	Fin Mood	Pred Residue	,	Comp Residue			
T1	Carr Possr	Proc Rein Attr Poss			Att Possd			
E1	Medm	Proc			Range			
Tex1	Theme simple				pic marked			
Int1	SPEECH Knowledg statemen		N		ood clarative	TENSE present	POLARITY negative	
Exp1	VOICE middle medium							

	[[What	is	uncertain]]	is	the	amount (of lending [to	o borrowers	[[engaged i	n entrepreneurial	risk,	the	center	of business	reinvention	and jol	creation.]]]
S1	Rank-shift				Rank-shift												
S1c	Clause-1							Head	Clause-2								
TH1	Topic Theme			Rheme													
M1	Subj Mood			Fin Mood	Comp Residue												
T1	ldd Value				ldr Token												
E1	Medm			Proc	Agent												
MET1m				Int Modal Proc			Exp Proc Ent	Exp Ent Mod									
M2	WH		Comp Residue						Pred Residue	Comp Residue		Comp Residue					
T2	Carr	Proc Reln Attr Int	Att						Proc Mat	Range		Range					
E2	Medm	Proc	Range						Proc	Range		Range					
MET2m		Modal	Int Modal Qual							Exp Ent Qual	Exp Proc Ent				Exp Proc Ent	Er	t Proc od Ent

Tex1	Theme simple	Topic unmarked rankshift				
Int1	SPEECH-FUNCTION	Mood	TENSE	POLARITY		
	Knowledge statement	declarative full	present	positive		
		Iuli				
Exp1	VOICE					
	effective					
	passive					
	agent					
S 1	Clause-1				Clause-2	
Int2	SPEECH-FUNCTION	Mood	TENSE	POLARITY	SPEECH-FUNCTION	Mood
	Knowledge	declarative	present	positive	Knowledge	non-finite
	statement	full			statement	
Exp2	VOICE				VOICE	
	middle				none	
	medium					

Claus	Clause 59 Apart from the economic pain [[resulting from shrinking credit markets]], we are about													
	Apart	from	the	economic	pain	[[resulting	from	shrinking	credit	markets]],	we	are	about	
S1	Rank-shift													
S1c			Head			Clause-1								
TH1	Topic Theme										Rheme			
M1	Circ-Adj Residue										Subj Mood	Fin Temp Mood		
T1	Accom Add										Sens	Proc Ment Perc		
E1	Circ										Medm	Proc		
MET1m				Exp Ent Qual										
M2						Pred Residue		Comp Residue						
T2						Proc Rein Iden Circ		ldr Token Circ						
E2						Proc		Agent						
MET2m						Log Rel Proc		Exp Proc Qual						

to	see	an	earthquake	[in	the	relationship	[between	government	and	financial	markets]].
Pred		Comp									
Residue		Residue									
		Phen -									
		Range									
		Range									
			Exp Proc Ent			Exp Proc Ent					

earthquake = great change

Tex1	Theme	Topic		
	simple	marked		
Int1	SPEECH-FUNCTION	Mood	TENSE	POLARITY
	Knowledge	declarative	future	positive
	statement	full		
Exp1	VOICE			
	middle			
	medium			
S1	Clause-1			
Int2	SPEECH-FUNCTION	Mood		
	Knowledge	non-finite		
	statement			
Exp2	VOICE			
	none			

	The	great	uncertainty	is	[[whether	government	has	the	power	[[to	rescue	the	financial	system]]	in	times	of c	risis.]]
S1					Rank-shift												Т	
S1c					Clause-1												Т	
S2								Rank-shift										
S2c								Head		Clause-2								
TH1	Topic Theme			Rheme														
M1	Subj Mood			Fin Mood	Comp Residue													
T1	ldd Value				ldr Token													
E1	Medm			Proc	Agent												Т	
MET1m				Int Modal Proc														
M2					Residue	Subj Mood		Comp Residue							Circ-Adj Residue			
T2						Carr Possr	Proc Reln Attr Poss	Att Possd							Locn Time			
E2						Medm	Proc	Range							Circ		Т	
MET2m															Exp Rel Circ			
M3										Pred Residue		Comp Residue						
T3										Proc Mat		Goal						
E3										Proc		Medm						

Tex1	Theme	Topic		
	simple	unmarked		
Int1	SPEECH-FUNCTION	Mood	TENSE	POLARITY
	Knowledge	declarative	present	positive
	statement	full	present	positive
		Iuli		
Exp1	VOICE			
	effective			
	passive			
	agent			
S 1	Clause-1			
Int2	SPEECH-FUNCTION	Mood	TENSE	POLARITY
	Knowledge	declarative	present	positive
	question	full		
Exp2	VOICE			
	middle			
	medium			
00				
S2	Clause-2			
Int3	SPEECH-FUNCTION	Mood		
	Knowledge	non-finite		
	statement			
Ехр3	VOICE			
	none			

	It	seems	doubtful.		
TH1	Topic				
	Theme	Rheme			
M1	Subj	Fin	Comp		
		Pred			
	Mood	Mood-Residue	Residue		
T1	Carr	Proc	Att		
		Reln			
		Attr			
		Int			
E1	Medm	Proc	Range		
MET1m	Tex		Int		
			Modal		
			Qual		
Tex1	Theme		Topic		
Text	simple		unmarked		
	ompio				
Int1	SDEECH	-FUNCTION	Mood	TENSE	POLARITY
iiiti	Knowledg		declarative	present	positive
	statemen		full	p. coom	p c c i i i i
Exp1	VOICE				
Expi	middle				
	medium				
	oaiaiii				

	In	the U	nited k	Kingdom, «	<for e<="" th=""><th>example>,</th><th>the</th><th>collected</th><th>assets</th><th>[of the</th><th>e major</th><th>banks]</th><th>are</th><th>four</th><th>times</th><th>the</th><th>nation's</th><th>gross</th><th>domestic</th><th>product</th><th>(GDP).</th></for>	example>,	the	collected	assets	[of the	e major	banks]	are	four	times	the	nation's	gross	domestic	product	(GDP).
TH1	Topic Theme						Rheme														
M1	Circ-Adj Residue						Subj Mood							Comp Residue							
T1	Locn Place						Carr						Proc Reln Attr Int	Att							
E1	Circ						Medm						Proc	Range							
MET1m					T	ex		Exp Proc Qual													
Tex1	Theme simple			Topic marked																	
Int1	SPEECH Knowled statemer	ge	CTION	Mood declarativ full		NSE POL esent posi															
Exp1	VOICE middle medium																				

	Α	similar	situation	I	exists		in		many	Euro	zone	countries.
TH1	Topic Theme				Rheme							
M1	Subj				Fin Pred		Ci	rc-Adj				
	Mood				Mood-Resi	due	Re	sidue				
T1					Proc Exist			cn ace				
E 1	Medm				Proc		Ci	rc				
MET1m	Log Tex Rel Qual											
Tex1	Theme simple				pic marked							
Int1	SPEECH-FUNCTION Knowledge statement				ood clarative	TENSE present		POLARI positive	TY			
Exp1	VOICE middle medium											

	This	means	[[government	cannot	bail	out	the	system	even	if it	wanted	t	0	{bail	out	the	system}]].
S1			Rank-shift														
S1c			Complex														
S1cc			Clause-1						Clause-2			C	Clause-3				
S2														Ellipsis			
TH1	Topic TH																
		Rheme															
M1	Subj TH	Fin Pred	Comp									П					
		Mood-Residue	Residue														
T1	ldd	Proc	ldr									П					
	Token		Value														
		lden Int															
E1	Medm	Proc	Range									П					
MET1m	Tex											П					
M2				Fin Modl	Pred		Comp			Subj	Fin Pred	F	Pred			Comp	
			Mood	Mood	Residue		Residue		Residue	Mood	Mood-Residue	F	Residue			Residue	
T2			Actor	Proc Mat			Goal			Sens	Proc Ment Aff		Proc Mat			Goal	
E2			Agent	Proc			Medm			Medm	Proc	F	oroc			Medm	

Tex1	Theme simple	Topic unmarked 								
Int1		Mood declarative full		POLARITY positive						
Exp1	VOICE middle medium									
S1	Clause-1					Clause-2			Clause-3	
Int2		declarative	MODALITY Modalization potentiality		negative	Knowledge	Mood declarative full	positive	SPEECH-FUNCTION Knowledge statement	Mood non-finite
	VOICE effective active agent					VOICE middle medium			VOICE none	

Clause 65 Given such massive exposure, government guarantees [in a time of crisis] become meaningless. TH1 Topic Theme Rheme M1 Circ-Adj Subj Fin Comp Pred Residue Mood Mood-Residue Residue T1 Contg Carr Proc Att Cond Reln Attr Int E1 Circ Medm Proc Range MET1m Ехр Ехр Ехр Tex Ехр Ent Proc Rel Ent Ent Mod Circ Qual Tex1 Theme Topic "Given" = "with" marked simple semi-preposition Halliday (1995: 232) Int1 SPEECH-FUNCTION Mood TENSE POLARITY Knowledge declarative positive present statement full Exp1 VOICE middle medium

T1 Caus Carr Proc Reln		Circ-Adj Residue Contg Cond	the thre
Conj Adj Theme Theme M1 Circ-Adj Residue T1 Caus Reas Carr Proc Reln	ood Residue	Residue	
Adj Theme Theme Circ-Adj Residue T1 Caus Reas Reln	ood Residue	Residue	
Theme Theme Rheme M1 Circ-Adj Residue T1 Caus Reas Residue Rheme Rheme Rheme Curc-Adj Mood Mood Mood Mood Mood Mood Mood Mo	ood Residue	Residue	
M1 Circ-Adj Residue Subj Fin Adj Mood Mood Mo T1 Caus Reas Reln	ood Residue	Residue	
Residue Mood Mood Mood Mood Mood Mood Mood Moo	ood Residue	Residue	
T1 Caus Carr Proc Rein		Contg	
Reas Reln	Att		
		Cond	
Attr			
Int			
E1 Circ Medm Proc	Range	Circ	
MET1m Log Exp			Exp
Rel Proc Proc			Pro
Circ Qual Ent			Ent
Tex1 Theme Topic			
Tex1 Theme Topic multiple marked			
textual-1			
Int1 SPEECH-FUNCTION Mood MOOD-ADJUNCT TENSE POLARITY Knowledge declarative degree present positive			
statement full			
Exp1 VOICE middle			
medium			
medium			

Clause 67 The collapse of, <say>, a major European bank would hardly leave American workers immune. TH1 Topic Theme Rheme M1 Subj Fin Adj Pred Comp Comp Pol ModI Mood Mood Residue Residue Residue Mood T1 Attbr Proc Proc Carr Att Reln Reln Attr Attr Int Int Range E1 Agent Proc Proc Medm MET1m Ехр Ехр Ехр Proc Ent Rel Mod Ent Proc Tex1 Theme Topic simple unmarked Int1 SPEECH-FUNCTION MODALITY MODALITY-orientation MOOD-ADJUNCT TENSE POLARITY Mood subjective Knowledge Modalization positive declarative degree future statement full probability implict median Exp1 VOICE effective active agent

Clause 68										
	Our	policy	leaders	[in	Washington]	are	thinking	domestically		
TH1	Topic Theme					Rheme				
M1	Subj Mood					Fin Mood	Pred Residue	Circ-Adj Residue		
T1	Sens					Proc Ment Cogn		Mann Qual		
E1	Medm					Proc		Circ		

Ехр Qual Circ

Tex1	Theme simple	Topic unmarked 		
Int1	Knowledge		TENSE present	POLARITY positive
Exp1	VOICE middle medium			

MET1m

Claus	se 69										
	when	the	solutio	n	[to	the	credit	crisis]	will	be	global.
TH1	Text Conj Str Theme	Topic Theme							Rheme		
M1	Residue	Sub j Mood							Fin Temp Mood	Fin Mood	Comp Residue
T1		Carr							Proc Reln Attr Circ		Att Circ
E1		Medm							Proc		Range
MET1m			Exp Proc Ent				Exp Ent Mod				
Tex1	Theme multiple textual-1			Top unm	ic narke	ed					
Int1	SPEECH-FUNCTION Knowledge statement			Mod dec full	od Iarati	ive	TENSE future		LARITY sitive		
Ехр1											

Claus	Clause 70											
	It	is	not	that	the	world	lacks	money				
TH1	Int Mod-Met Theme				Topic Theme		Rheme					
M1	Modal-Met Mood				Subj Mood		Pred Residue	Comp Residue				
T1					Carr Possr		Proc Rein Attr Poss	Att Possd				
E 1					Medm		Proc	Range				
MET1m	Int None Ent	Int Modal Proc										
Tex1	Theme multiple interpersonal-	1		Topic unmarked 							-	
Int1	SPEECH-FUNCTION Knowledge statement			Mood declarative full		MODALITY-orientation objective explicit		ion	TENSE present	POLARITY negative		
Exp1	VOICE middle medium											

	;	it	is	that	the	world's	money	is	sitting	on	the	sidelines
TH1	Text Conj Str Theme	Int Mod-Met Theme			Topic Theme			Rheme				
M1		Modal-Met Mood			Subj Mood			Fin Mood	Pred Residue	Circ-Adj Residue		
T1m					Behav			Proc Behl		Locn Place		
T1					Carr			Proc Rein Attr Circ		Att Circ		
E1m					Medm			Proc		Circ		
E1					Medm			Proc		Range		
MET1m		Int None Ent	Int Modal Proc									

Tex1	Theme multiple	Topic unmarked			
	interpersonal-1				
Int1	SPEECH-FUNCTION	Mood	MODALITY-orientation	TENSE	POLARITY
	Knowledge	declarative	objective	present	positive
	statement	full	explicit		
Exp1m	VOICE				
	middle				
	medium				
Exp1	VOICE				
	middle				
	medium				

Clause 72

		more	than	\$6	trillion	{are	sitting}	in	idle	global	money	markets	alone.
S 1						Ellipsis							
TH1	Text	Topic											
	Conj												
	Str												
	Theme	Theme				Rheme							
M1		Subj				Fin	Pred	Circ-Adj					Adj
		Mood				Mood	Residue	Residue					Mood
T1m		Behav				Proc		Locn					
						Behl		Place					
T1		Carr				Proc		Att					
						Reln		Circ					
						Attr							
						Circ							
E1m		Medm				Proc		Circ					
E 1		Medm				Proc		Range					

Tex1	Theme multiple textual-1	Topic unmarked 		
Int1	Knowledge		MOOD-ADJUNCT intensity	POLARITY positive
Exp1m	VOICE middle medium			
Exp1	VOICE middle medium			

	The	challenge	will	be	[[to	reform	our	financial	system	quickly]]	
S 1					Rank-shift						The challenge is x.
S1c					Clause-1						X is challenging. Gram Met: Martin (1992: 377)
TH1	Topic										Gram wict. Martin (1772, 377)
	Theme		Rheme								
M1	Subj		Fin	Pred	Comp						
			Temp								
	Mood		Mood	Residue	Residue						
T1	ldd		Proc		ldr						
	∨alue		Reln		Token						
			lden								
			Int								
E 1	Medm		Proc		Agent						
M2					Pred		Comp			Circ-Adj	
					Residue		Residue			Residue	
T2					Proc		Goal			Mann	
					Mat					Qual	
E2					Proc		Medm			Circ	
MET1m		Ехр									
		Proc									
		Ent									
											I

Tex1	Theme simple	Topic unmarked		
	Simple			
Int1	SPEECH-FUNCTION	Mood	TENSE	POLARITY
	Knowledge	declarative	future	positive
	statement	full		
Exp1	VOICE			
	effective			
	passive			
	agent			
S1	Clause-1			
Int2	SPEECH-FUNCTION	Mood		
	Knowledge	non-finite		
	statement			
Exp2	VOICE			
	none			

	to	draw	that	global	capital	back	into	more	productive	uses.
TH1	Rheme									
M1	Pred Residue		Comp Residue			Circ-Adj Residue	Circ-Adj Residue			
T1	Proc Mat		Goal			Locn Place	Role Prod			
E1	Proc		Medm			Circ	Circ			
MET1m									Exp Proc Qual	Exp Proc Ent
Tex1	Theme none non-finite			Topic none						
Int1	SPEECH-FUNCTION Knowledge statement			Mood non-finite						
Exp1	VOICE none									

Clause 75

	The	first	step	should	be	efforts	[[to	make	the	market	[for	future	asset	-backed	paper]	more	transparent	and	credible]].
S1						Rank-shift													
S1c						Head	Clause-1												
TH1	Topic Theme			Rheme															
M1	Subj Mood			Modl	Pred Residue	Comp													
T1	ldd Value			Proc Reln Iden Int		ldr Token													
E1	Medm			Proc		Agent													
MET1m						Exp Proc Ent													
M2							Pred Residue		Comp Residue							Comp Residue			
T2							Proc Reln Attr Int		Carr							Att			
E2							Proc		Medm							Range			
MET2m		Exp Circ Qual	Proc									Circ	Ent	Exp Proc Qual					Int Modal Qual

first step = first move effort = "try to do" gram met - Martin (1992: 411)

Tex1	Theme	Topic					
	simple	unmarked					
Int1	SPEECH-FUNCTION	Mood	Mood metaphor	MODALITY	MODALITY-orientation	TENSE	POLARITY
	Action	declarative		Modulation	subjective	present	positive
	command	full		obligation	implict		
				median			
Exp1	VOICE						
	effective						
	passive						
	agent						
S 1	Clause-1						
Int2	SPEECH-FUNCTION	Mood					
	Knowledge	non-finite					
	statement						
Exp2	VOICE						
•	none						

Claus	se 76							
	We	need	а	private/p	ughliotbal	bank	clearing	facility.
TH1	Topic Theme	Rheme						
M1	Subj Mood	Fin Pred Mood-Residue	Pred Residue					
T1	Carr Possr	Proc Rein Attr Poss	Att Possd					
E1 MET1m	Medm	Proc	Range			Exp Ent Mod	Exp Proc Qual	
Tex1	Theme simple		Topic unmarked 					
Int1	SPEECH-FUNCTION Knowledge statement		Mood declarative full	TENSE presen		ARITY tive		
Exp1	VOICE middle medium							

	The	bankers	don't		trust	each	other.		
TH1	Topic Theme		Rheme	,					
M1	Subj Mood		Fin Mood		Pred Residue	Comp Residue			
T1	Sens		Proc Ment Cogn			Phen Range			
E1	Medm		Proc			Range			
Tex1	Theme simple				pic marked				
Int1	SPEECH Knowledgestatemen			ood clarative l	TENSE present	POLARIT negative	Y		
Exp1	VOICE middle medium								

Clause 78 The central banks, <<working with the private institutions || in providing enhanced data>>, **S**1 Interrupt S1c Complex S1cc Clause-2 Clause-1 TH1 Topic Rheme Theme M1 Subj Circ-Adj Mood Residue T1 Actor Mann Means E1 Agent Circ M2 Pred Circ-Adj Pred Comp Residue Residue Residue Residue T2 Proc Proc Range Accom Behl Comt Mat E2 Proc Circ Proc Range MET2m Ехр Proc

Qual

need	to	begin	to	refashion	the	world's	financial	architecture.
Fin	Pred		Pred		Comp			
Modl Mood	Residue		Residue		Residue			
Proc	Locn		Proc		Goal			
Mat	Time		Mat					
Proc	Circ		Proc		Medm			
_								

Tex1	Theme	Topic					
	simple	unmarked					
Int1	SPEECH-FUNCTION	Mood	Mood metaphor	MODALITY	MODALITY-orientation	TENSE	POLARITY
	Action	declarative		Modulation	subjective	present	positive
	command	full		obligation	implict		
				median			
Exp1	VOICE						
	effective						
	active						
	agent						
S1	Clause-1		Clause-2				
Int2	SPEECH-FUNCTION	Mood	SPEECH-FUNCTION	Mood			
	Knowledge	non-finite	Knowledge	non-finite			
	statement		statement				
Exp2	VOICE		VOICE				
	none		none				

	And	while	that	is	happening,
TH1	Text Conj Adj Theme	Topic Theme			
TH2		Text Conj Str Theme	Topic TH Theme	Rheme	
M1			Subj TH Mood	Fin Mood	Pred Residue
T 1			Actor	Proc Mat	
E1			Medm	Proc	
MET1m			Tex		Exp None Proc

see IFG 3rd ed p. 542: "and" and "but" are not syntactic adjuncts but can function as conj adj

Theme	Theme	Topic	
multiple	be t a-clause	marked	
textual-1		dependent	
Theme	Topic		
multiple	unmarked		
textual-1			
SPEECH-FUNCTION	Mood	TENSE	POLARITY
Knowledge	declarative	present	positive
statement	full		
VOICE			
middle			
medium			
	textual-1 Theme multiple textual-1 SPEECH-FUNCTION Knowledge statement VOICE middle	multiple beta-clause textual-1 Theme Topic unmarked textual-1 SPEECH-FUNCTION Mood Knowledge declarative statement full VOICE middle	multiple beta-clause marked dependent Theme Topic unmarked textual-1 SPEECH-FUNCTION Mood TENSE Knowledge declarative statement full VOICE middle

Clause of		major go	vernments	[of t	he world],	< <including< th=""><th>the</th><th>Chinese>>,</th><th>should</th><th>begin</th><th>major</th><th>fiscal</th><th>efforts</th><th>[[to</th><th>stimulate</th><th>their</th><th>weakening</th><th>economies]].</th></including<>	the	Chinese>>,	should	begin	major	fiscal	efforts	[[to	stimulate	their	weakening	economies]].
S1						Interrupt					Rank-shift						-	
S1c						Clause-1					Head			Clause-2				
TH1	Rheme																	
TH2	Topic Theme								Rheme									
M1	Subj								Modl		Comp							
	Mood										Residue							
T1	Actor								Proc Mat		Range							
E1	Medm								Proc		Range							
MET1m													Exp Proc Ent					
M2						Pred Residue	Comp Residue							Pred Residue		Comp Residue		
T2						Proc Reln Attr Poss	Att Possd							Proc Mat		Goal		
E2						Proc	Range							Proc		Medm		
MET2m																	Exp Proc Qual	

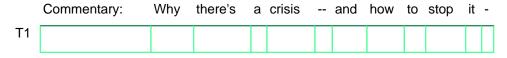
Tex1	Theme	Topic					
	none	none					
	alpha-clause						
Tex2	Theme	Topic					
	simple	unmarked					
Int1	SPEECH-FUNCTION	Mood	Mood metaphor	MODALITY	MODALITY-orientation	TENSE	POLARITY
	Action	declarative		Modulation	subjective	present	positive
	command	full		obligation	implict		
				median			
Exp1	VOICE						
	middle						
	medium						
S1	Clause-1		Clause-2				
Int2	SPEECH-FUNCTION	Mood	SPEECH-FUNCTION	Mood			
	Knowledge	non-finite	Knowledge	non-finite			
	statement		statement				
Exp2	VOICE		VOICE				
	none		none				

Appendix 2.2 Comments

While the same level of comprehensive analysis as the main story was performed on the comments, to respect the constraints of space, only the parts of the commentary analysis which are used in the main body of this thesis (Chapter 5: SVD Section 5.2 p. 219) will be shown here, namely, the transitivity analysis.

Index to Appendix 2.2

Comment Clause	<u>Page</u>
clause 1	333
clause 20	340
clause 40	346
clause 60	350
clause 80	357
clause 100	361
clause 120	366
clause 125	367





Clause 2



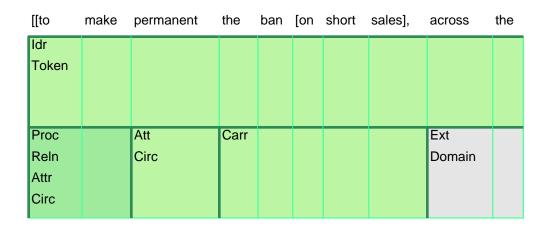
Clause 3

T1 ____

Clause 4

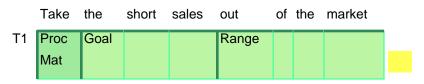
1. RCE T1





board.]]

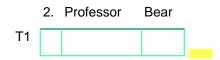
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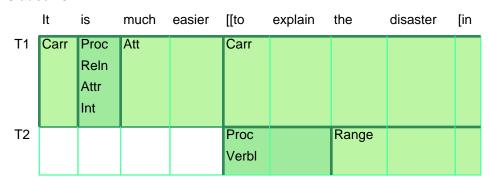




T1

Clause 9

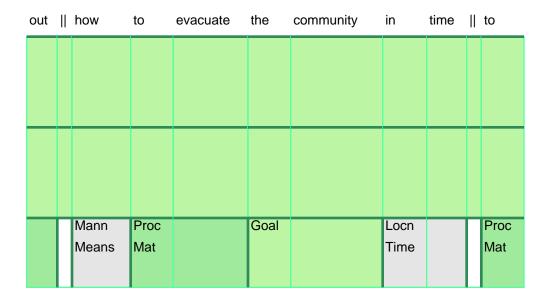




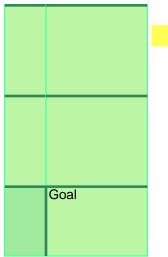


	 {which	is}	sort	of	like	[[[[noticing	а	tsunami	is	about
T1	ldd	Proc				ldr				
	Token	Reln				Value				
		Iden								
		Int								
T2						Carr				
Т3						Proc	Actor		Proc	
						Ment			Mat	
						Perc				

to	hit	а	coastal	community]]	is	much	easier	[[than	figuring
					Proc	Att			
					Reln				
					Attr				
					Int				
		Goal							Proc
									Ment
									Cogn



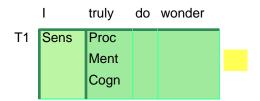


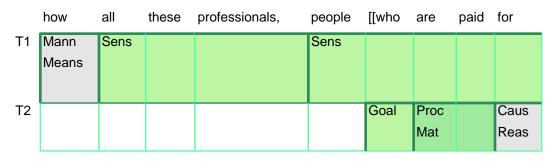


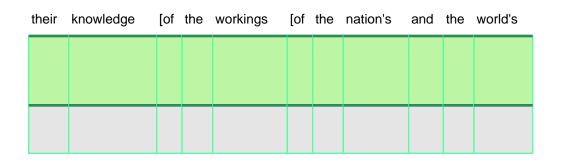
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Clause 13

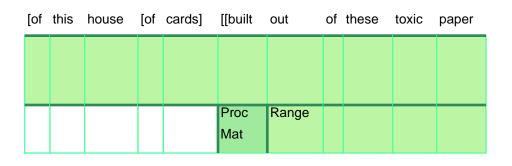
3. P T1

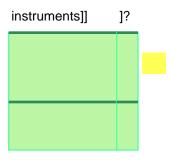


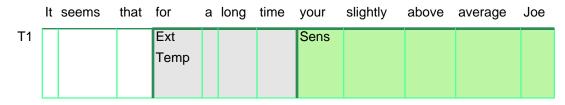




financial	dealings]]]],	did	not	foresee	the	impending	collapse
		Proc Ment Perc			Phen Range		

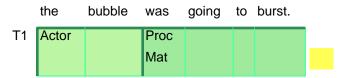




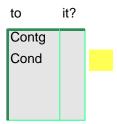


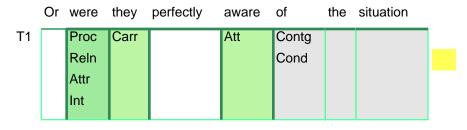


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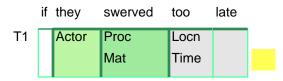


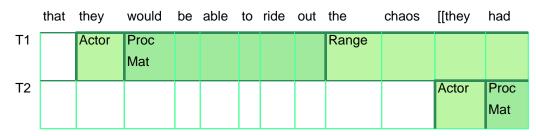
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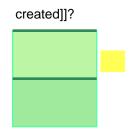


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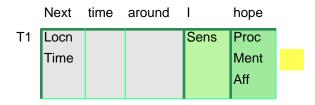


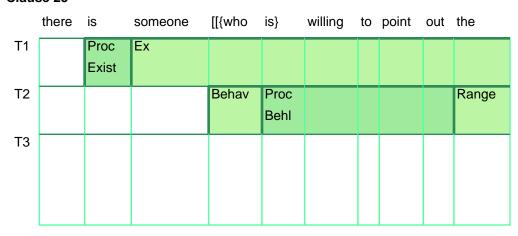


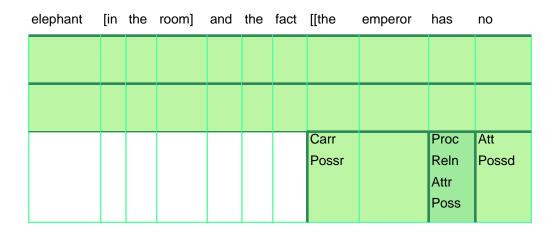


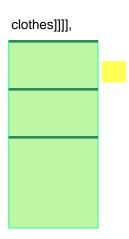


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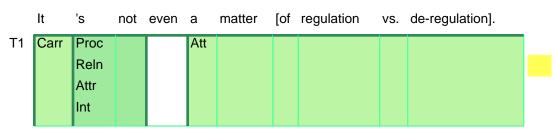


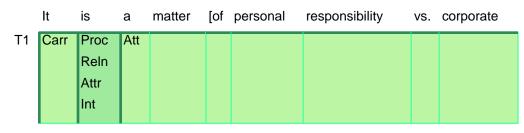




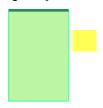




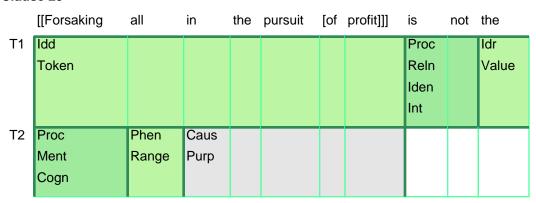




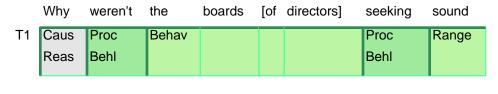
greed].

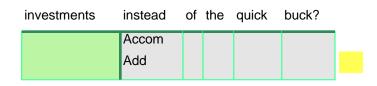


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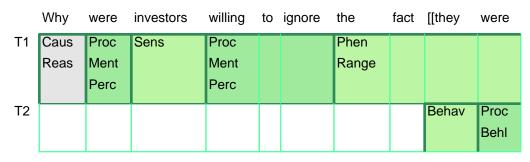


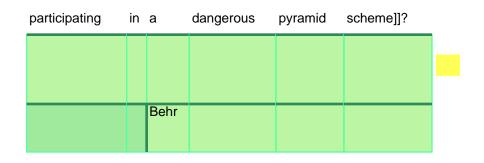
foundation [of a sound economy].



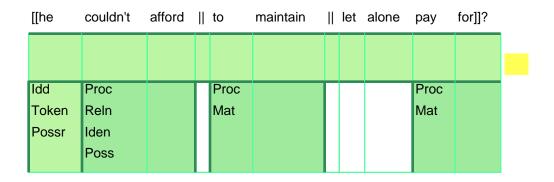


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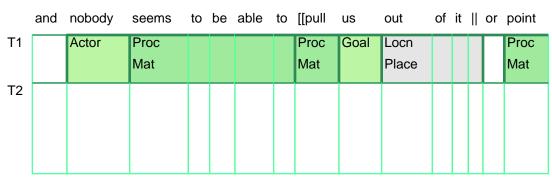
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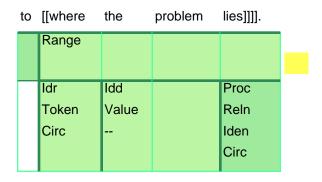
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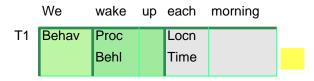
4. Jared

Clause 35

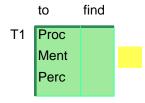




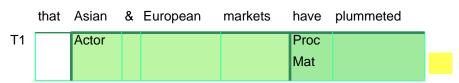


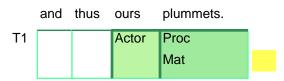


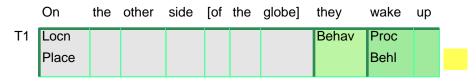
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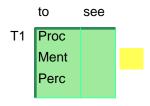
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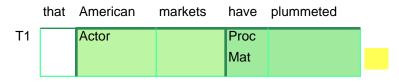




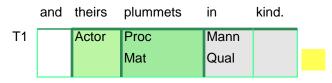
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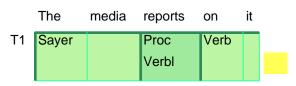
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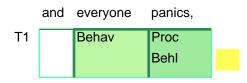


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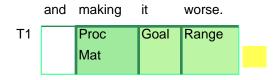
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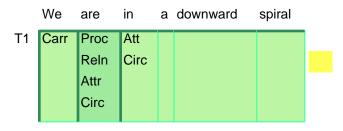




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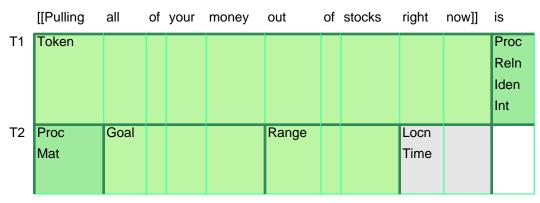


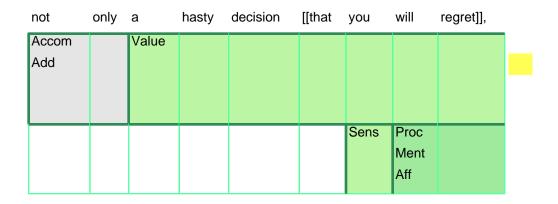
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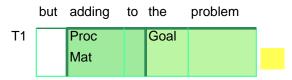


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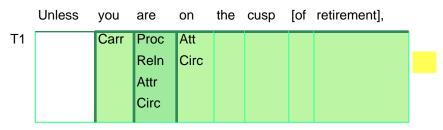


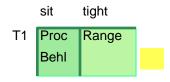


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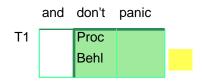
Clause 54







Clause 57



Clause 58

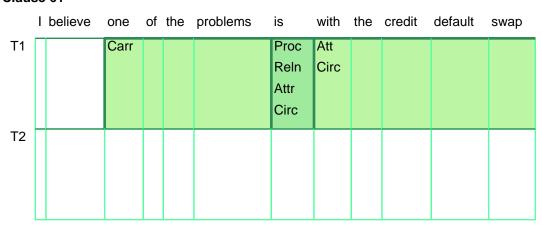


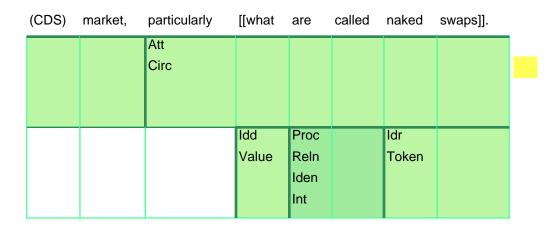
Clause 59

T1

Clause 60





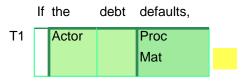




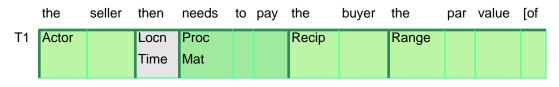


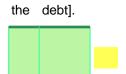
protection	[[against	а	debt	security	<(like	а	collaterized
		Astan			A -4		
		Actor			Actor		

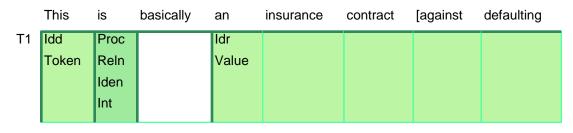


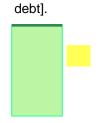


Clause 65



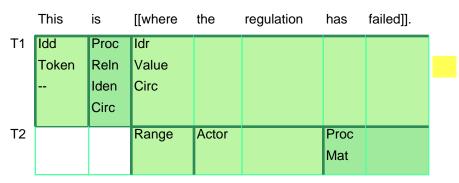


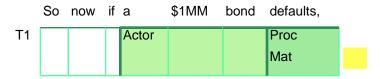




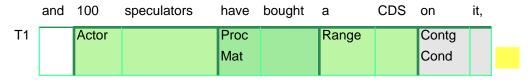
	The	problem	is	[[that	speculators	(hedge	funds,	etc)	have
T1	ldd Value		Proc Reln	ldr Token					
	Value		Iden Int	ronon					
T2					Actor	Actor			Proc Mat
Т3									

bought	this	insurance	on	debt	[[they	don't	even	own]]]].	
	Range		Contg						
			Cond						
					Carr	Proc		Proc	
					Possr	Reln		Reln	
						Attr		Attr	
						Poss		Poss	

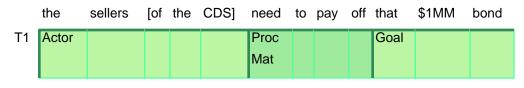


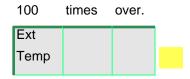


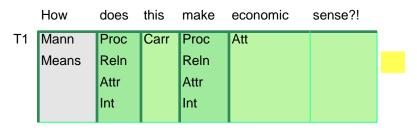
Clause 70

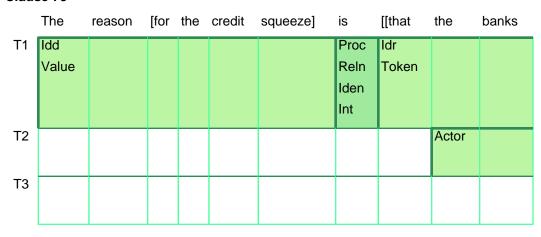


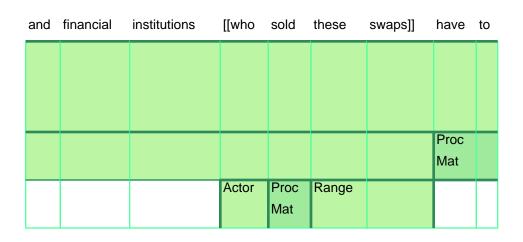
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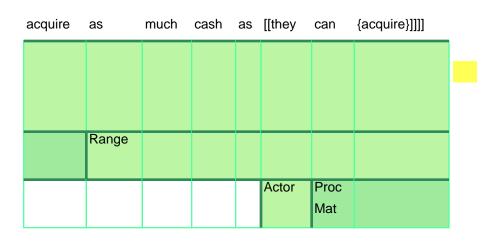




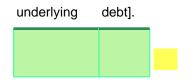


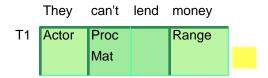








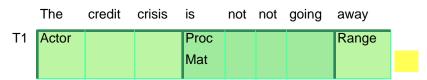




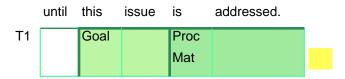
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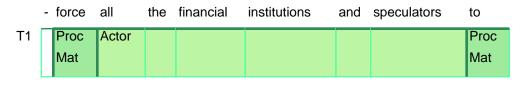
Clause 77

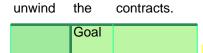


Clause 78





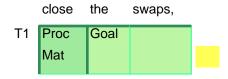




Clause 81

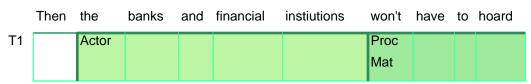


Clause 82

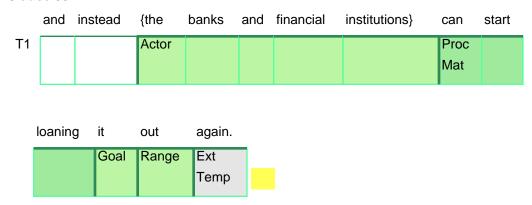


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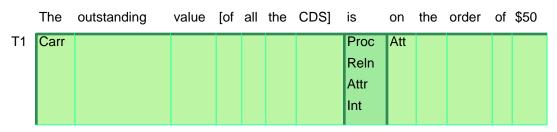


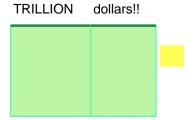


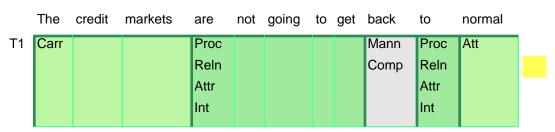


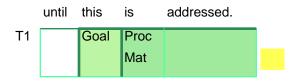


Clause 86









Clause 89

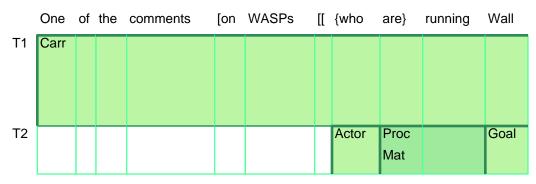


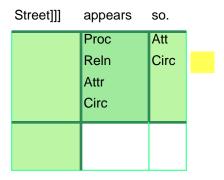
Clause 90



Clause 91









Clause 94



Clause 95

T1 ____

Clause 96

7. Texrat

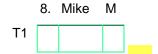




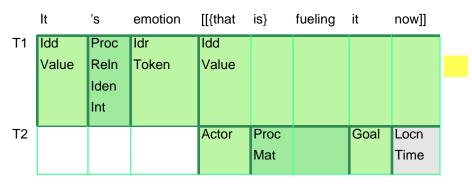
Clause 99

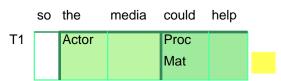
T1

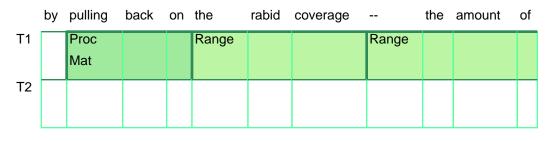
Clause 100

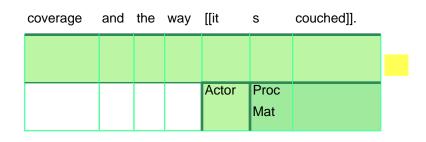


Clause 101



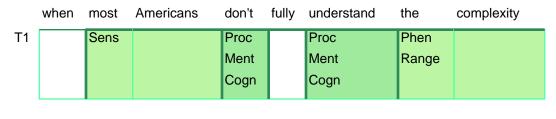






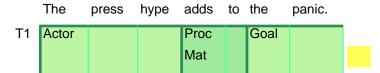




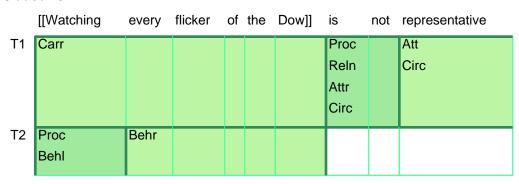


[of the market] nor the full details [of the Depression].

Clause 106

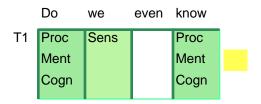


Clause 107



as well.

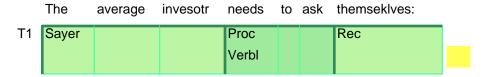
Mann
Comp



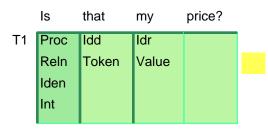
Clause 109

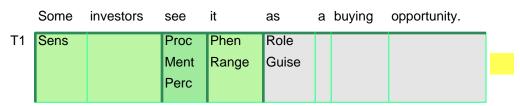


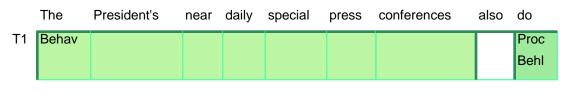
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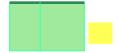
Clause 111



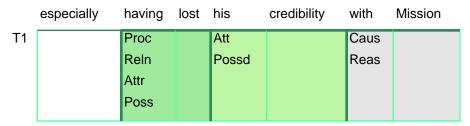




not help,



Clause 114



Accomplished.

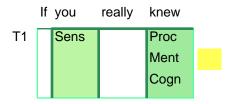


Clause 115

T1

Clause 116

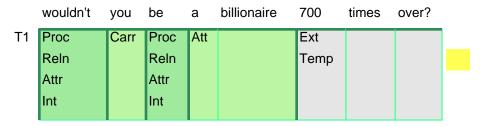
9. Jonathan T1



Clause 118



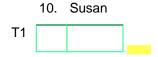
Clause 119

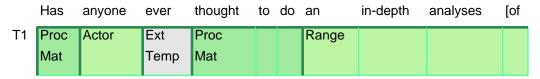


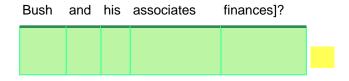
Clause 120

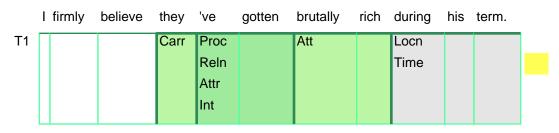
T1

Clause 121

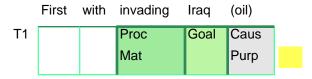








Clause 124





APPENDIX 3 SF ANALYSIS MATRICES

The occurrences of all tags in all clauses **in the main story** as shown in the previous section, Appendix 2: SF Analysis of Clauses, are counted by Systemics and output as matrices. This section is a compilation of the matrices, classified according to Key. The matrices in this section are crucial for understanding the recurrence plots, as well as the SVD results.

All the Keys can be extracted from Systemics Search Page with the commands:

CI/*

An/*

The information in this section is restricted to clause 7 to 80 of the main story, and only terminal-tags are used (superordinate tags are ignored).

<u>Key</u>	No. of tag types
S TH	21 13
Tex	18
M	33
Int	44
Т	92
E	19
Exp	16
MET	37

Total = 293

Note that the tags in the matrices are not arranged in alphabetical order like the tag lists in the rest of this thesis, but have been arranged to reflect what tags are important (more important = leftmost columns), in my judgement. I have also tried, as far as possible, to group together columns (columns = tags) that are most closely semantically related to each other. This is to facilitate interpretation.

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clause 19 clause 20	1			1			1	1				1	1		3		
clause 21	1			1									1				
clause 22 clause 23	1		1	1								1	1		1		
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clause 25 clause 26	1						1		1		1	1	1		2		
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clause 31	1						1						1				
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	n/In	n/In	n/In	n/In	n/n	n/In	n/In	n/In	n/In	n/In	n/In	n/In	n/In	n/In	n/In	n/In	n/In	n/n	n/In	n/In	n/In	n/In	n/In	n/n
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	xp/P	xp/P	:xp/E	xp/E	:xp/E	xp/C	xp/C	xp/Q	xp/Q	xp/A	xp/A	xp/R	xp/R	N/dx	N/dx	ıt/Mo	ıt/Mo	ıt/Mo	ot/Mo	ot/No	og/R	og/R	og/R
	1m/E	1m/E	1m/E	1m/E	1m/E	1m/E	1m/E	1m/E	1m/E	1m/E	1m/E	1m/E	1m/E	1m/E	1m/E	1m/lr	1m/lr	1m/lr	1m/lr	1m/lr	1m/L	1m/L	1m/L
	CI/MET1m/Exp/Proc/Ent	CI/MET1m/Exp/Proc/Qual	CI/MET1m/Exp/Ent/Mod	CI/MET1m/Exp/Ent/Proc	CI/MET1m/Exp/Ent/Qual	CI/MET1m/Exp/Circ/Ent	CI/MET1m/Exp/Circ/Qual	CI/MET1m/Exp/Qual/Circ	CI/MET1m/Exp/Qual/Ent	CI/MET1m/Exp/Attrib/Ent	CI/MET1m/Exp/Attrib/Proc	CI/MET1m/Exp/Rel/Circ	CI/MET1m/Exp/Rel/Proc	CI/MET1m/Exp/None/Ent	CI/MET1m/Exp/None/Proc	CI/MET1m/Int/Modal/Proc	CI/MET1m/Int/Modal/Qual	CI/MET1m/Int/Modal/Circ	CI/MET1m/Int/Modal/Ent	CI/MET1m/Int/None/Ent	CI/MET1m/Log/Rel/Ent	CI/MET1m/Log/Rel/Circ	CI/MET1m/Log/Rel/Proc
totals	ට 26	<u>ت</u> 13	<u></u> 19	<u>ت</u> 1	<u>ت</u> 2	<u>ت</u> 2	<u>ت</u> 2	<u>ت</u> 2	<u></u>	<u></u> 3	ਹ 1	<u>ਹ</u> 1	<u>ਹ</u> 1	ਹ 1	<u>ਹ</u> 1	ō 4	<u></u>	<u>ਹ</u> 1	<u>ට</u> 1	<u>ت</u> 2	<u></u>	ਹ 1	<u> </u>
clause 7						1											1						
clause 8 clause 9																							-
clause 10																							
clause 11 clause 12		1	2											1									
clause 13									1														
clause 14	3	1	1						1	1													
clause 15 clause 16		1																					
clause 17																							
clause 18 clause 19	2		1																				
clause 19																	1	1					-
clause 21	3	1	1																				
clause 22 clause 23	1		1				2			1													1
clause 24	<u> </u>	2	2							-													
clause 25		_																					
clause 26 clause 27	1	1	1																				\dashv
clause 28	·		·																				
clause 29 clause 30									1														
clause 30																							
clause 32		1																					
clause 33 clause 34																					1		
clause 35																					1		
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clause 37 clause 38																							
clause 39			1			1																	
clause 40	1										1												
clause 41 clause 42	1		1																				
clause 43								1															
clause 44 clause 45	1		1																				
clause 46	'		'																				
clause 47																					-		
clause 48 clause 49				1																	1		
clause 50		1																					
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clause 52			1							1													
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clause 66 clause 67	1	1	1										1									1	\dashv
clause 68								1															
clause 69	1		1													4				-			_]
clause 70 clause 71																1				1			\dashv
clause 72																				٠			
clause 73 clause 74	1	1																					_
clause 74	1	- 1																					-
clause 76		1	1																				
clause 77 clause 78																							_
clause 79															1								
clause 80	1																						

J/Qual		oc/Ent	oc/Qual	t/Mod	ıt/Qual	rc/Qual	ual/Proc	trib/Ent	₃l/Circ	dal/Proc	dal/Qual	⅓/Ent	J/Proc
CI/MET1m/Log/Rel/Qual	m/Tex	⊖ CI/MET2m/Exp/Proc/Ent	∞ CI/MET2m/Exp/Proc/Qual	Ol/MET2m/Exp/Ent/Mod	CI/MET2m/Exp/Ent/Qual	CI/MET2m/Exp/Circ/Qual	CI/MET2m/Exp/Qual/Proc	CI/MET2m/Exp/Attrib/Ent	CI/MET2m/Exp/Rel/Circ	CI/MET2m/Int/Modal/Proc	CI/MET2m/Int/Modal/Qual	CI/MET2m/Log/Rel/Ent	CI/MET2m/Log/Rel/Proc
CI/MET1	L CI/MET1m/Tex	CIMET	CI/MET	CI/MET2	CI/MET2	CI/MET2	CI/MET2	CI/MET2	CI/MET	CI/MET2	CI/MET	CI/MET2	CI/MET2
1	10	10	8	6	1	4	1	1	1	1	2	1	1
	1												
	1	1	2	1			1	1				1	
	1												
		1											
		1	1			1							
			1			1							
	1	2	1	2	1				1	1	1		1
1	1 1 1												
	1												
		1	1	1		2					1		
			1	- 1									
	1		1										

APPENDIX 4 THEME/RHEME CALCULATION

	No of part	cicipants in
	Theme	Rheme
clause7	2	1
clause8	1	2
clause9	2	1
clause10		non-finite
clause11	0	5
clause12	1	1
clause13	1	0
clause14	4	1
clause15	1	0
clause16	1	0
clause17	1	3
clause18	2	5
clause19	1	8
clause20	1	2
clause21	1	5
clause22	1	3
clause23	1	4
clause24	0	4
clause25	1	1
clause26	1	2
clause27	5	3
clause28		non-finite
clause29		non-finite
clause30	1	1
clause31	1	1
clause32	1	2
clause33	1	4
clause34	1	3
clause35	0	1
clause36	1	0
clause37	1	0
clause38	0	2
clause39	1	2
clause40	1	0
clause41	1	0
clause42	0	2
clause43	0	1
clause44	1	1
clause45	1	2
clause46	1	1

	No. of participants in							
	Theme Rheme							
clause47		non-finite						
clause48	1	2						
clause49		non-finite						
clause50	1	3						
clause51	1	0						
clause52	1	5						
clause53	1	0						
clause54	1	0						
clause55	1	0						
clause56	1	3						
clause57	1	0						
clause58	0	5						
clause59	2	5						
clause60	1	4						
clause61	1	0						
clause62	1	4						
clause63	1	1						
clause64	1	4						
clause65	1	2						
clause66	2	2						
clause67	2	1						
clause68	2	0						
clause69	2	0						
clause70	1	1						
clause71	1	1						
clause72	1	1						
clause73	1	1						
clause74		non-finite						
clause75	1	3						
clause76	1	2						
clause77	1	0						
clause78	1	3						
clause79	1	0						
clause80	3	2						
total	78	129						

k = R/T ratio = 129/78 = 1.653846154

APPENDIX 5 SVD DEFINITION

Matrix multiplication is defined as follows:

Let A be a matrix with m rows and p columns i.e. a $m \times p$ matrix with entries a_{ij} (a_{ij} denotes the entry at the ith row and jth column)

Let B be a $p \times n$ matrix with entries b_{ij}

Their product AB is defined as a $m \times n$ matrix with entries given by:

$$\sum_{k=1}^{p} a_{ik} b_{kj}$$

Just as a number like 30 can be factorized as:

$$30 = 2 \times 3 \times 5$$
,

a matrix, A, can be factorized into the form:

$$A = USV^*$$

This factorization is known as **singular value decomposition.** U, V are matrices, superscript * denotes transposition¹, and S is a diagonal matrix, i.e. its non-diagonal entries are zero.

To illustrate this, suppose A is a $m \times n$ matrix where m > n, e.g. m = 3, n = 2:

$$\begin{bmatrix}
\star & \star \\
\star & \star \\
\star & \star
\end{bmatrix} = \begin{bmatrix}
\star & \star & \star \\
\star & \star & \star
\end{bmatrix} \begin{bmatrix}
\bullet & 0 \\
0 & \bullet \\
0 & 0
\end{bmatrix} \begin{bmatrix}
\star & \star \\
\star & \star
\end{bmatrix}$$

 \star and \blacksquare denote values that need not be zero.

■ , the diagonal entries of S, are known as the singular values of A.

-

¹ More generally, * denotes conjugate transposition, but in the SF data the numbers are all real numbers

In the SVD analysis performed in my thesis, A is the reduced matrix of clauses (in columns) by tags (in rows):

The columns of U are called the **left-singular vectors**: vectors representing Features in terms of tags, while the rows of V^* (i.e. the columns of V) are the **right-singular vectors**: vectors representing Features in terms of clauses.

Each singular value represents the strength of a Feature in the discourse. To show this more clearly, multiply both sides of the equation by V on the right:

$$\begin{bmatrix}
\star & \star \\
\star & \star \\
\star & \star
\end{bmatrix}
\underbrace{\begin{bmatrix}
\star & \star \\
\star & \star
\end{bmatrix}}_{V} = \underbrace{\begin{bmatrix}
\star & \star & \star \\
\star & \star & \star
\end{bmatrix}}_{U} \underbrace{\begin{bmatrix}
\bullet & 0 \\
0 & \bullet \\
0 & 0
\end{bmatrix}}_{S}$$

Organize the matrices V, U, S into columns:

$$\underbrace{\begin{bmatrix} \star & \star \\ \star & \star \\ \star & \star \end{bmatrix}}_{A} \underbrace{\begin{bmatrix} v_1 & v_2 \end{bmatrix}}_{V} = \underbrace{\begin{bmatrix} u_1 & u_2 & \star \\ u_1 & u_2 & \star \\ u_2 & \star \end{bmatrix}}_{U} \underbrace{\begin{bmatrix} \sigma_1 & 0 \\ 0 & \sigma_2 \\ 0 & 0 \end{bmatrix}}_{S}$$

This gives us:

$$Av_1 = \sigma_1 u_1 \tag{1}$$

$$Av_2 = \sigma_2 u_2 \tag{2}$$

In this form, the variables are easier to interpret.

Equation (1) defines Feature 1.

 u_1 is Feature 1 in terms of tags – a vector

 v_1 is Feature 1 in terms of clauses – a vector σ_1 is the strength of Feature 1 – a positive number²

The purpose of performing SVD is that it generates Features, which form a new set of basis vectors - a new coordinate system - to describe the positions of the clauses in Semantic Space in a more economical way (least squares fit) compared to the original basis vectors (the tags).

The results of the SVD are the same regardless of the order of the rows/columns of the input matrix A, i.e. changing the ordering of the clauses in the article does not affect the results of SVD, neither does changing the order of tags.

-

 $^{^2}$ σ can be a negative number, but the corresponding singular vector can be reversed in polarity to make σ positive.

APPENDIX 6 SVD PLOTS

The plots in this section are explained and used in Chapter 5: Singular Value Decomposition (SVD) in the main body of the thesis.

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Figure A-22: Comments T1 F3 tag wheel	412

Key (for all SVD plots in Appendix 6)

- -Blue indicates presence and Red indicates "absence" (or vice versa)
- -intensity of colouring, font size and the size of node/circle denote strength (for a tinted tag, strength refers to strength of tag's contribution to the Feature; for a tinted clause, strength refers to the strength of the Feature in the clause)

Appendix 6.1 Main story

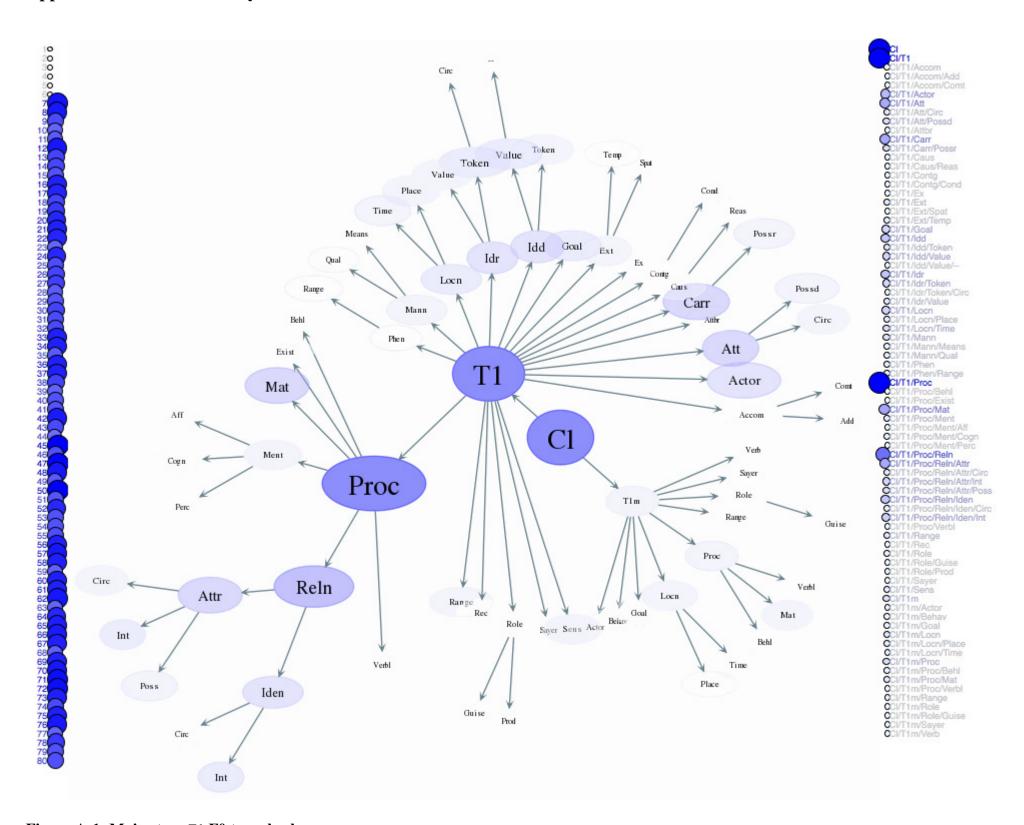


Figure A-1: Main story T1 F0 tag wheel

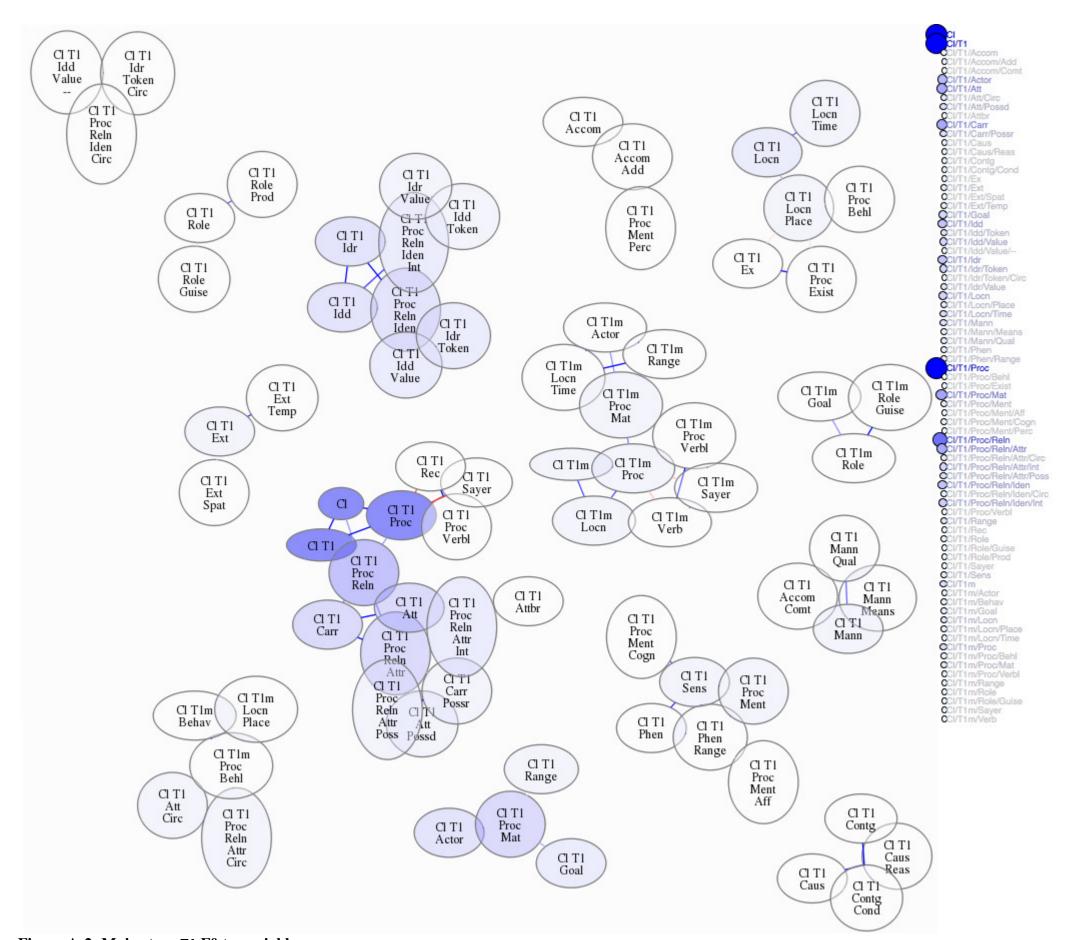


Figure A-2: Main story T1 F0 tag neighbours

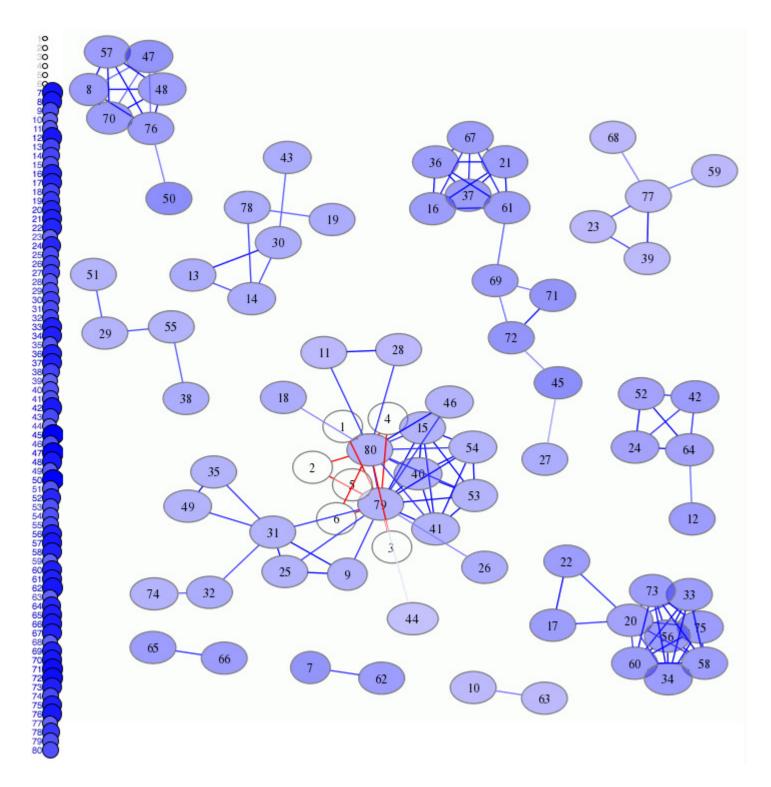


Figure A-3: Main story T1 F0 clause neighbours

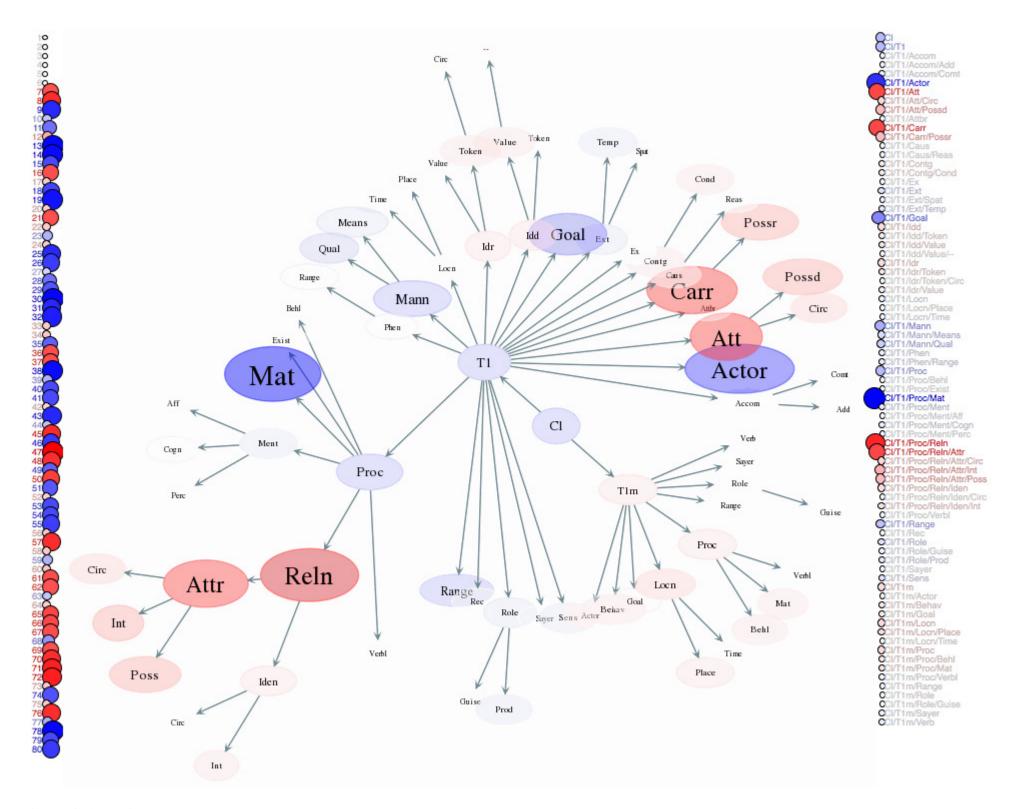


Figure A-4: Main story T1 F1 tag wheel

```
3 Why there 's a crisis
    <sup>6</sup> At this point [in the credit crisis], at least one thing is certain
    8: most policymakers lack a clue [[of what is really at stake]].
    9 Those with some knowledge are driving policy
    11 Begin with the U.S. Treasury's $700 billion bailout package.
    12 This was presented as some magic pil
    13 which, saif ouloed downss, would quickly restore financial stability.
    14 The "shock and awe" [of the sheer size [of the taxpayer -funded bailout]] would somehow restore confidence.
    15 Instead, stock markets collapsed
    16 and credit markets remained frozen.
     17 This is because [[the credit crisis reflects something [[ {which is} more fundamental than a serious problem [of mortgage defaults] ]]]].
    18 Global investors, << (who are) now on the sidelines>>, have declared a buyers' strike [against the sophisticated paper assets [of securitization] [[that financial institutions use {the sophisticated paper assets [of securitization]}] Il to measure II and offload risk]]].
    19 In recent years, our banks, <<born of their assets] at unheard-of levels>>, produced mountains [of financial paper instruments ([[called asset -backed securities]])] with little means [[of measuring their value]].
    20 Incredibly, these paper instruments were insured by more dubious paper instruments.
   21 Therefore, the housing crisis was a mere trigger [for a collapse [of trust [in paper]]],
    22 (which was) followed by a de-leveraging [of the entire global financial
   23 As a result, we are experiencing the painful downward reappraisal [of the value [of virtually every asset [in the world]]].
    24 So what are these paper instruments, these asset -backed or mortgage -backed securities?
    25 | {I} like to use a salad analogy.
    26 Before the last decade, bankers simply lent in the form of syndicated loans.
    27 But with the huge expansion [of the global economy] in the 1990s, <<which produced an ocean [of new capital]>>, the bankers came up with an idea [[called securitization]].
    28 Instead of making simple loans
    29 and holding them until maturity
   30 a bank collected all its loans together,
    31 then {the bank} diced {its loans}
    32 and {the bank} sliced them up into a big, beautiful tossed salad.
     The idea was [[to sell <(for huge fees)> individual servings [of diversified financial salad] around the world]].
    34 The only problem: [[[under an occasional piece of lettuce] was a speck of toxic waste [in the form of a defaulting subprime mortgage]]].
    36 and you 're dead.
    37 The overall salad looked delicious,
    38 but suddenly global investors were no longer ordering salad.
    39 No one knew the location [of the toxic waste].
    40 This distrust heightened
    41 when global interest rates began to rise.
   43 and why have financial markets collapsed so brutally?
                   are telling us
    45 the world will face a serious credit crunch in 2009
    46 regardless of how much money government spends
    47 to remove the toxic salad from bank balance sheets.
    48 Policymakers have no means [[of forcing the banks to start lending]]
    49 short of nationalizing the entire financial system.
   50 After all, the U.S. banks alone so far <during the crisis> have lost upwards of $2 trillion from their collective asset base.
   51 Most banks are leveraged by more than 10 to 1.
                                financial system will have a whopping $15 trillion to $20 trillion less credit available next year [[than {what} was around a year and a half before]].]]
   53 The cost [of money] is rising
    54 and the availability (is) shrinking.
    55 True, the banks will still lend
    56 -- but the fear is [[they will do it only to people <such as Warren Buffett>,]]
   57 who don't need loans.
To se [[What is uncertain]] is the amount of lending [to borrowers [[engaged in entrepreneurial risk, the center of business reinvention and job creation.]]]
59 Apart from the economic pain [[resulting from shrinking credit markets]], we are about to see an earthquake [in the relationship [between government and financial markets]].
   60 The great uncertainty is [[whether government has the power [[to rescue the financial system]] in times of crisis.]]
   61 It seems doubtful.
   62 In the United Kingdom, <for example>, the collected assets [of the major banks] are four times the nation's gross domestic product (GDP).
   63 A similar situation exists in many Euro zone countrie
   64 This means [[government cannot bail out the system II even if it wanted II to {bail out the system}]].
   65 Given such massive exposure, government guarantees [in a time of crisis] become meaningless.
    66 Yet because of the interconnected web [of global financial relationships], we are all vulnerable to the threat.
    67 The collapse of, <say>, a major European bank would hardly leave American workers immune.
    68 Our policy leaders [in Washington] are thinking domestically
    69 when the solution [to the credit crisis] will be global.
    70 It is not that the world lacks money
    71; it is that the world's money is sitting on the sidelines
    72 -- more than $6 trillion *are sitting* in idle global money markets alone.
      The challenge will be [[to reform our financial system quickly]]
    74 to draw that global capital back into more productive uses.
     75 The first step should be efforts [[to make the market [for future asset -backed paper] more transparent and credible]].
    76 We need a private/public global bank clearing facility.
      The bankers don't trust each other
    78 The central banks, <<working with the private institutions II in providing enhanced data>>, need to begin to refashion the world's financial architecture.
```

TI/Caus/Reas
TI/Contg
TI/Contg/Cond
TI/Contg/Cond
TI/Contg/Cond
TI/Contg/Cond
TI/Ext/Tip
TI/Ext/Spat
TI/Ext/TI/Ext/Spat
TI/Ext/Spat
TI/Ext/Spat
TI/Ext/Spat
TI/Ext/Spat
TI/Ext/Spat
TI/Ext/Spat
TI/Ext/Spat
TI/Ext/Spat
TI/Ext/Spat
TI/Ext/Ti/Ext/Spat
TI/Ext/Spat
TI/Ext/Ti/Ext/Spat
TI/Ext/Spat
TI/E

CI/T1/Proc/Mat

Figure A-5: Main story T1 F1 text

80 the major governments [of the world], <<including the Chinese>>, should begin major fiscal efforts [[to stimulate their weakening economies]].

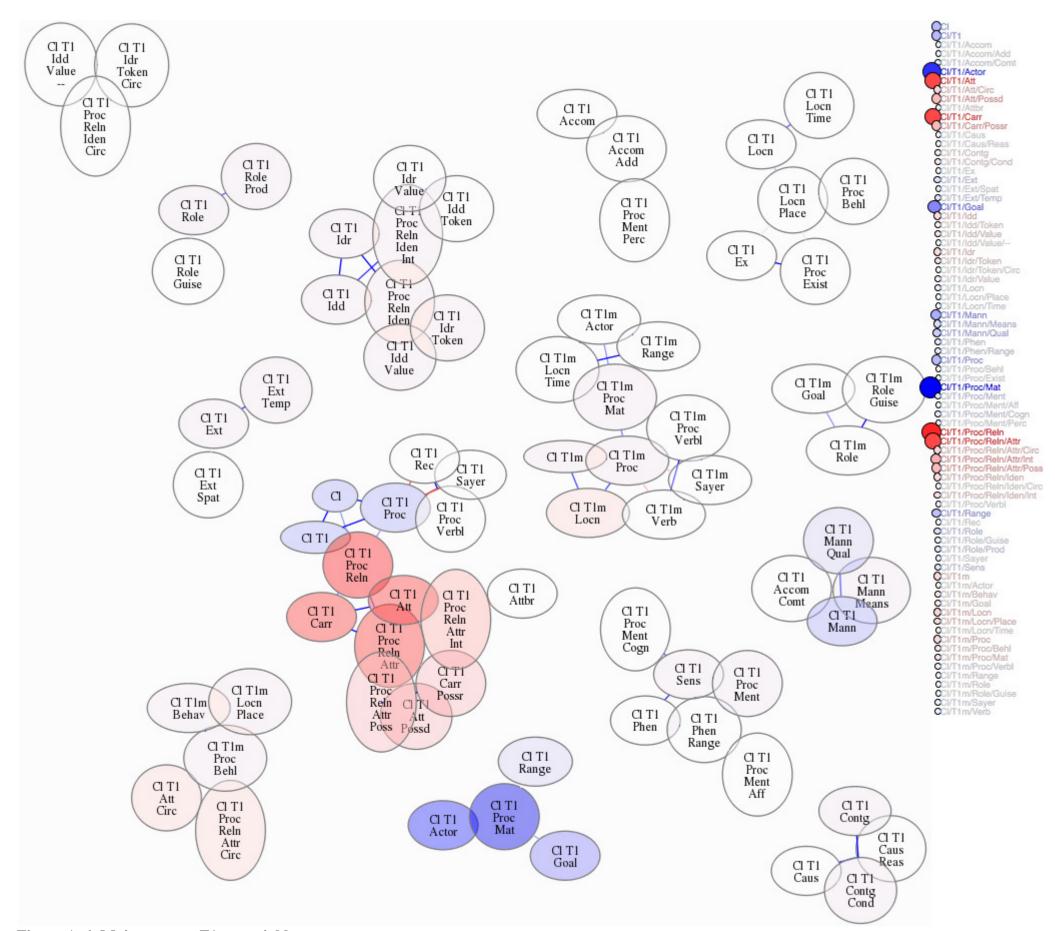


Figure A-6: Main story T1 F1 tag neighbours

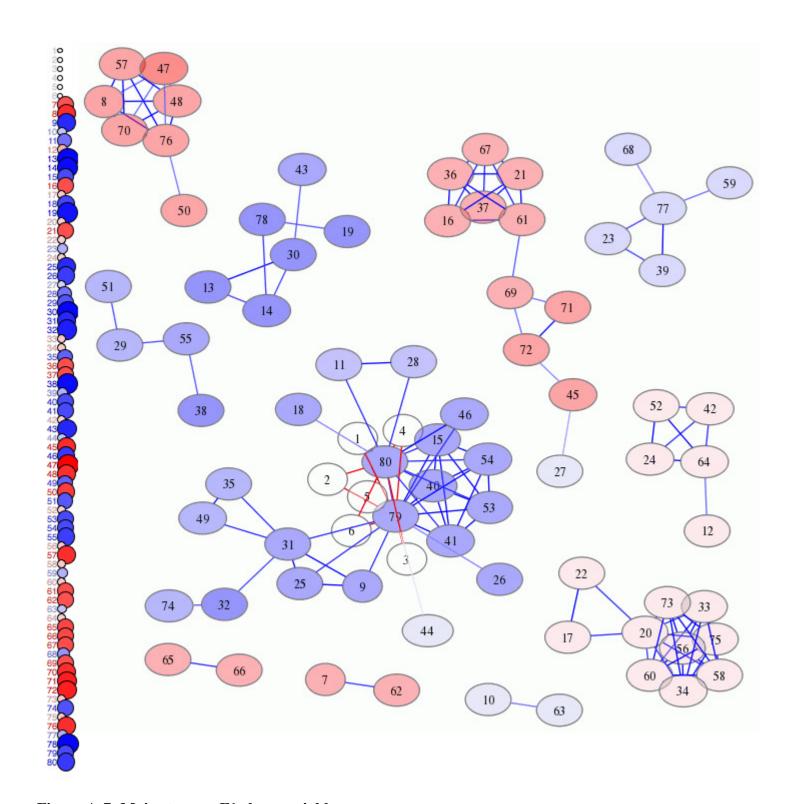


Figure A-7: Main story T1 F1 clause neighbours

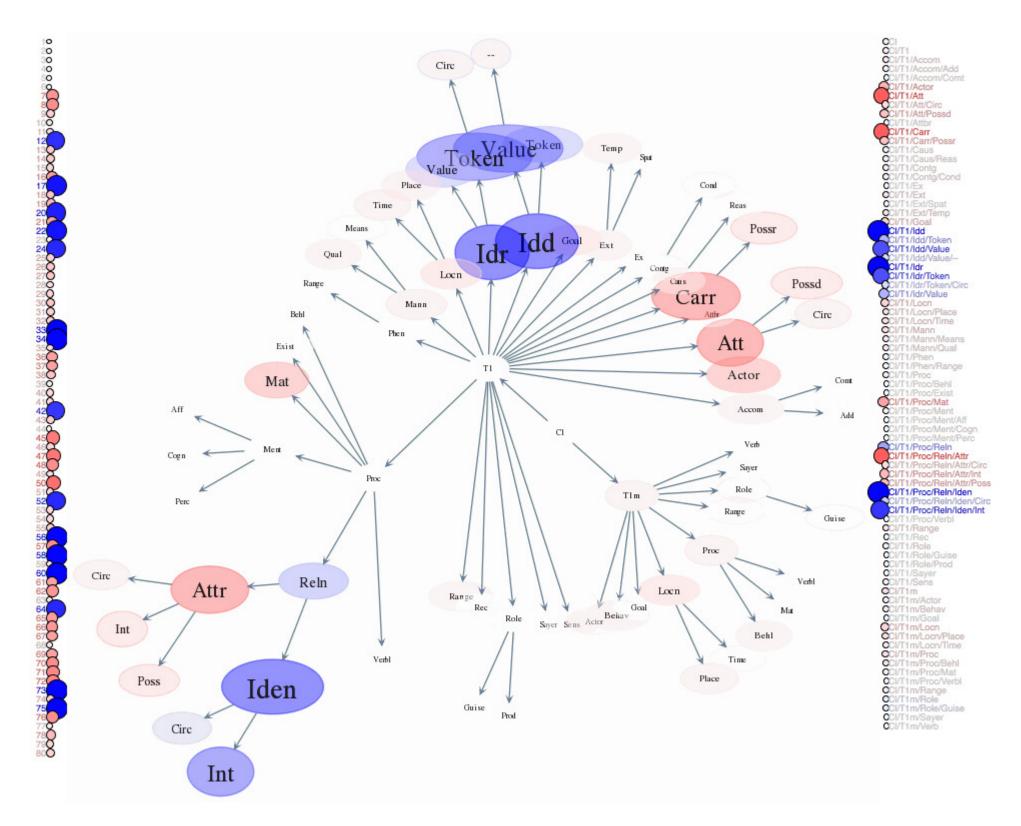


Figure A-8: Main story T1 F2 tag wheel

```
1 October 10, 2008 -- Updated 1136 GMT (1936 HKT)
      3 Why there 's a crisis
     At this point [in the credit crisis], at least one thing is certain
8: most policymakers lack a clue [[of what is really at stake]].
O 9 Those with some knowledge are driving policy

 10 looking through the rearview mirror.

 o 11 Begin with the U.S. Treasury's $700 billion bailout package.
12 This was presented as some magic pill
13 which, «If gulped down», would quickly restore financial stability.
O 14 The "shock and awe" [of the sheer size [of the taxpayer -funded bailout]] would somehow restore confidence.

    15 Instead, stock markets collapsed

    16 and credit markets remained frozen.
    17 This is because [[the credit crisis reflects something [[ {which is} more fundamental than a serious problem [of mortgage defaults] ]]]].
     18 Global investors, << (who are) now on the sidelines>>, have declared a buyers' strike [against the sophisticated paper assets [of securitization] [[that financial institutions use {the sophisticated paper assets [of securitization]}] II to measure II and offload ris
     19 In recent years, our banks, «borrowing II to maximize the leverage [of their assets] at unheard-of levels», produced mountains [of financial paper instruments ([[called asset -backed securities]])] with little means [[of measuring their value]].
    20 Incredibly, these paper instruments were insured by more dubious paper instruments.
     21 Therefore, the housing crisis was a mere trigger [for a collapse [of trust [in paper]]],
    22 (which was) followed by a de-leveraging [of the entire global financial system]
     23 As a result, we are experiencing the painful downward reappraisal [of the value [of virtually every asset [in the world]]].
    24 So what are these paper instruments, these asset -backed or mortgage -backed securities?

 25 | {I} like to use a salad analogy.

O 26 Before the last decade, bankers simply lent in the form of syndicated loans.
O 27 But with the huge expansion [of the global economy] in the 1990s, <<which produced an ocean [of new capital]>>>, the bankers came up with an idea [[called securitization]].
O 28 Instead of making simple loans
O 29 and holding them until maturity
O 30 a bank collected all its loans together,
O 31 then {the bank} diced {its loans}
    32 and {the bank} sliced them up into a big, beautiful tossed salad.
    33 The idea was [[to sell <(for huge fees)> individual servings [of diversified financial salad] around the world]].
    34 The only problem: [[[under an occasional piece of lettuce] was a speck of toxic waste [in the form of a defaulting subprime mortgage]]]
    35 Eat that piece of salad,
36 and you 're dead.

    37 The overall salad looked delicious,

    38 but suddenly global investors were no longer ordering salad.

 o 39 No one knew the location [of the toxic waste].
O 40 This distrust heightened
    41 when global interest rates began to rise.
    42 So what does this salad boycott mean for the future
O 43 and why have financial markets collapsed so brutally?
 o 44 The markets are telling us
45 the world will face a serious credit crunch in 2009
     46 regardless of how much money government spends
    47 to remove the toxic salad from bank balance sheets
    48 Policymakers have no means [[of forcing the banks to start lending]]
     49 short of nationalizing the entire financial system.
50 After all, the U.S. banks alone so far <during the crisis> have lost upwards of $2 trillion from their collective asset base.
     51 Most banks are leveraged by more than 10 to
     52 Translation: [[The U.S. financial system will have a whopping $15 trillion to $20 trillion less credit available next year [[than {what} was around a year and a half before]].]]
     53 The cost [of money] is rising
     54 and the availability (is) shrinking.
     55 True, the banks will still lend
    56 -- but the fear is [[they will do it only to people <such as Warren Buffett>,]]
     58 [[What is uncertain]] is the amount of lending [to borrowers [[engaged in entrepreneurial risk, the center of business reinvention and job creation.]]]
    60 The great uncertainty is [[whether government has the power [[to rescue the financial system]] in times of crisis.]]
     61 It seems doubtful.
O
    62 In the United Kingdom, <for example>, the collected assets [of the major banks] are four times the nation's gross domestic product (GDP).
     63 A similar situation exists in many Euro zone countries
    64 This means [[government cannot bail out the system II even if it wanted II to {bail out the system}]].
     65 Given such massive exposure, government guarantees [in a time of crisis] become meaningless.
    66 Yet because of the interconnected web [of global financial relationships], we are all vulnerable to the threat.
67 The collapse of, <say>, a major European bank would hardly leave American workers immune.
 o 68 Our policy leaders [in Washington] are thinking domestically
69 when the solution [to the credit crisis] will be global.
70 It is not that the world lacks money
71; it is that the world's money is sittir
    71; it is that the world's money is sitting on the sidelines
    72 -- more than $6 trillion *are sitting* in idle global money markets alone.
    73 The challenge will be [[to reform our financial system quickly]]
    75 The first step should be efforts [[to make the market [for future asset -backed paper] more transparent and credible]].
    76 We need a private/public global bank clearing facility.

    77 The bankers don't trust each other.

O 78 The central banks, <<working with the private institutions II in providing enhanced data>>, need to begin to refashion the world's financial architecture.
O 79 And while that is happening
O 80 the major governments [of the world], <<including the Chinese>>, should begin major fiscal efforts [[to stimulate their weakening economies]].
```

Figure A-9: Main story T1 F2 text

/T1/Idd/Value

1/ldr/Value

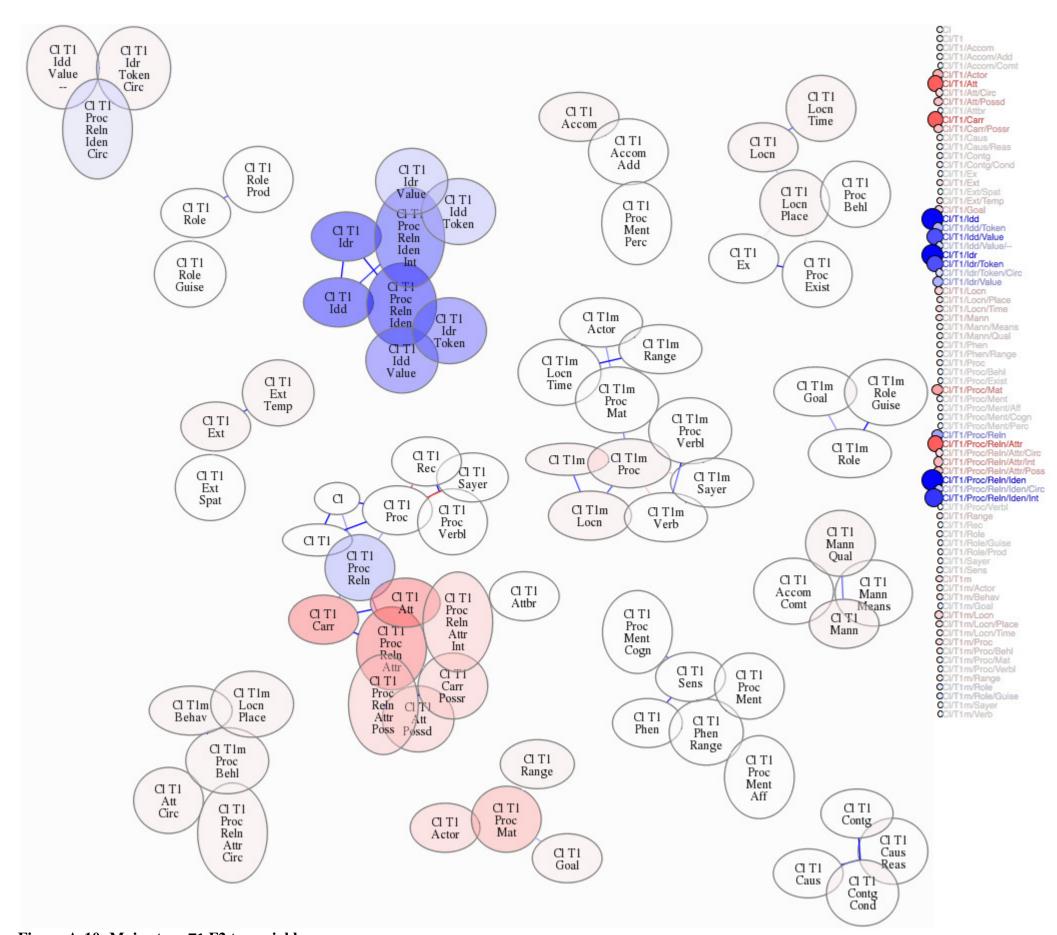


Figure A-10: Main story T1 F2 tag neighbours

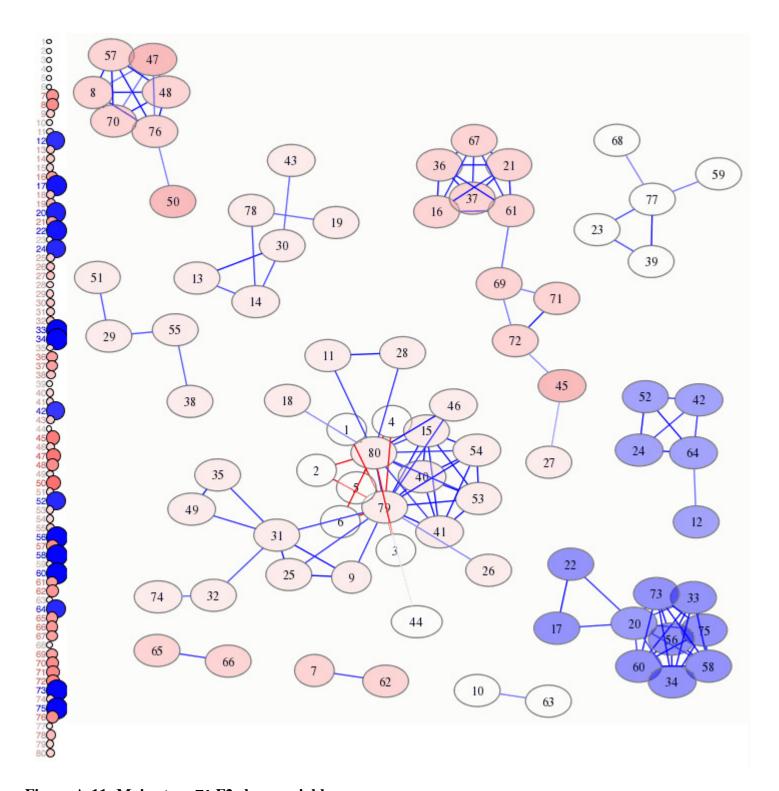


Figure A-11: Main story T1 F2 clause neighbours

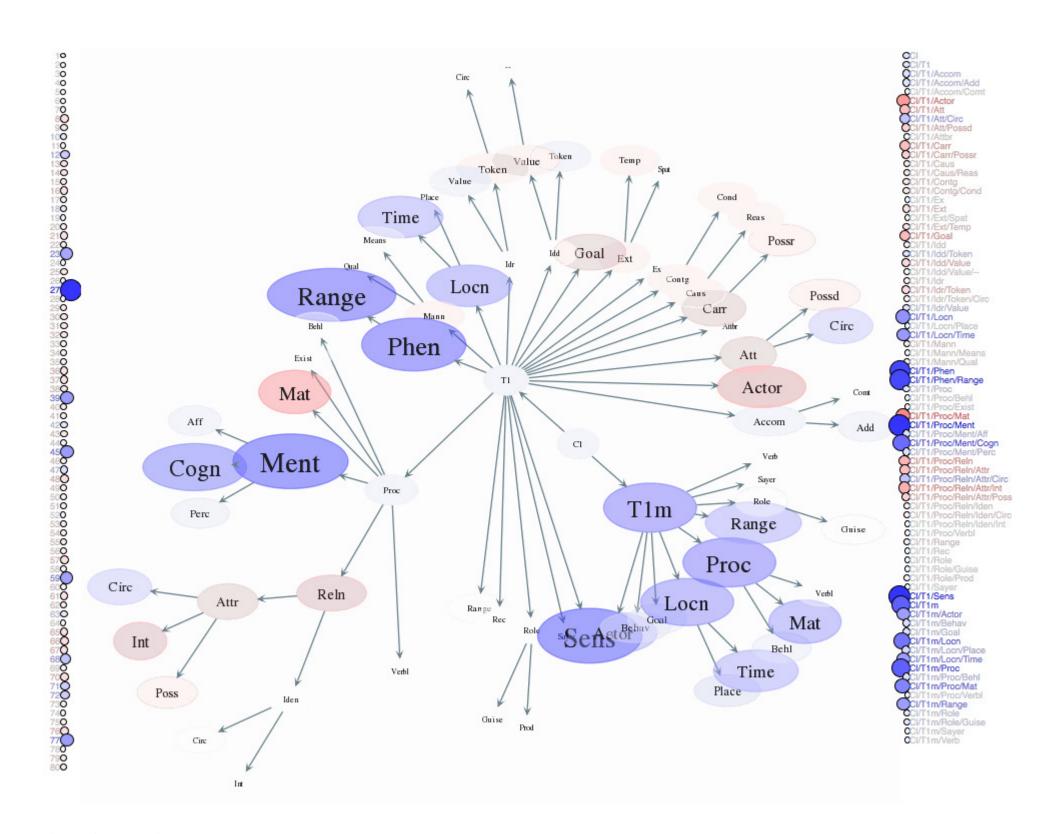


Figure A-12: Main story T1 F3 tag wheel

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1 October 10, 2008 -- Updated 1136 GMT (1936 HKT)
 8 At this point [in the credit crisis], at least one thing is certain
      8: most policymakers lack a clue [[of what is really at stake]].
 O 9 Those with some knowledge are driving policy
 o 10 looking through the rearview mir
 o 11 Begin with the U.S. Treasury's $700 billion bailout package.
O 12 This was presented as some magic pill
 O 13 which, <<if gulped down>>, would quickly restore financial stability.
 o 14 The "shock and awe" [of the sheer size [of the taxpayer -funded bailout]] would somehow restore confidence.
 o 15 Instead, stock markets collapsed
 o 17 This is because [[the credit crisis reflects something [[ {which is} more fundamental than a serious problem [of mortgage defaults] ]]]]].
 o 18 Global investors, <<\mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{mathcal{math
 o 19 In recent years, our banks, <<br/>borrowing II to maximize the leverage [of their assets] at unheard-of levels>>, produced mountains [of financial paper instruments ([[called asset -backed securities]])] with little means [[of measuring their value]].
 O 20 Incredibly, these paper instruments were insured by more dubious paper instruments.
 O 21 Therefore, the housing crisis was a mere trigger [for a collapse [of trust [in paper]]],
 O 22 (which was) followed by a de-leverage
23 As a result, we are experiencing the painful downward reappraisal [of the value [of virtually every asset [in the world]]].
 O 24 So what are these paper instruments, these asset -backed or mortgage -backed securit
 O 25 | {|} like to use a salad analogy.
     26 Before the last decade, bankers simply lent in the form of syndicated loans
     27 But with the huge expansion [of the global economy] in the 1990s, <<which produced an ocean [of new capital]>>>, the bankers came up with an idea [[called securitization]].
       28 Instead of making simple loans
O 29 and holding them until maturity,
 o 30 a bank collected all its loans together,
 O 31 then {the bank} diced {its loans}
 O 32 and {the bank} sliced them up into a big, beautiful tossed salad.
 o 33 The idea was [[to sell <(for huge fees)> individual servings [of diversified financial salad] around the world]].
 o 34 The only problem : [[[under an occasional piece of lettuce] was a speck of toxic waste [in the form of a defaulting subprime mortgage]]].
 o 35 Eat that piece of salad,
 O 36 and you 're dead.
O 37 The overall salad looked delicious,
 O 38 but suddenly global investors were no longer ordering salad.
39 No one knew the location [of the toxic waste].
 o 40 This distrust heightened
 O 41 when global interest rates began to rise.
 O 42 So what does this salad boycott mean for the future
O 43 and why have financial markets collapsed so brutally?
 O 44 The markets are telling u
45 the world will face a serious credit crunch in 2009
 O 46 regardless of how much money government spends
 O 47 to remove the toxic salad from bank balance sheets.
 O 48 Policymakers have no means [[of forcing the banks to start lending]]
 O 49 short of nationalizing the entire financial system.
 O 50 After all, the U.S. banks alone so far <during the crisis> have lost upwards of $2 trillion from their collective asset base.

 51 Most banks are leveraged by more than 1

 o 52 Translation: [[The U.S. financial system will have a whopping $15 trillion to $20 trillion less credit available next year [[than {what} was around a year and a half before]].]]
 O 53 The cost [of money] is rising
 O 54 and the availability (is) shrinking.

    55 True, the banks will still lend

 o 56 - but the fear is [[they will do it only to people <such as Warren Buffett>,]]
O 57 who don't need loans.
 o 58 [[What is uncertain]] is the amount of lending [to borrowers [[engaged in entrepreneurial risk, the center of business reinvention and job creation.]]]
59 Apart from the economic pain [[resulting from shrinking credit markets]], we are about to see an earthquake [in the relationship [between government and financial markets]].
 o 60 The great uncertainty is [[whether government has the power [[to rescue the financial system]] in times of crisis.]]
 O 61 It seems doubtful.
 o 62 In the United Kingdom, <for example>, the collected assets [of the major banks] are four times the nation's gross domestic product (GDP).
 o 63 A similar situation exists in many Euro zone countries
 O 64 This means [[government cannot bail out the system II even if it wanted II to {bail out the system}]].
 O 65 Given such massive exposure, government guarantees [in a time of crisis] become meaningless
O 66 Yet because of the interconnected web [of global financial relationships], we are all vulnerable to the threat.
 O 67 The collapse of, <say>, a major European bank would hardly leave American workers immune.

    68 Our policy leaders [in Washington] are thinking domestically

 O 69 when the solution [to the credit crisis] will be global.
O 70 It is not that the world lacks money
O 71; it is that the world's money is sitting on the sidelines
72 - more than $6 trillion *are sitting* in idle global money markets alone.

    73 The challenge will be [[to reform our financial system quickly]]

 o 74 to draw that global capital back into more productive uses
o 75 The first step should be efforts [[to make the market [for future asset -backed paper] more transparent and credible]].
O 76 We need a private/public global bank clearing facility.
77 The bankers don't trust each other.
o 78 The central banks, <<working with the private institutions II in providing enhanced data>>, need to begin to refashion the world's financial architecture.

 79 And while that is happening.

 o the major governments [of the world], <including the Chinese>>, should begin major fiscal efforts [[to stimulate their weakening economies]].
```

Figure A-13: Main story T1 F3 text

T1/ldr/Value T1/Locn

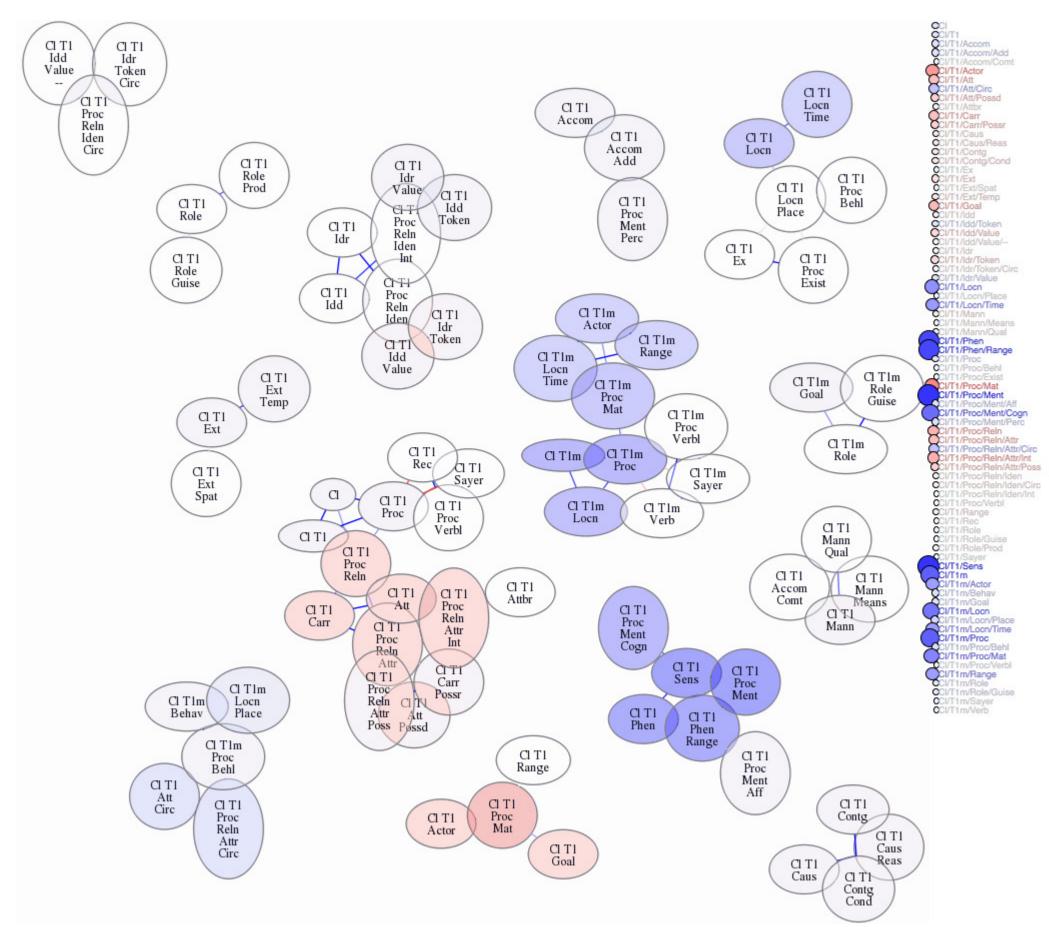


Figure A-14: Main story T1 F3 tag neighbourhood

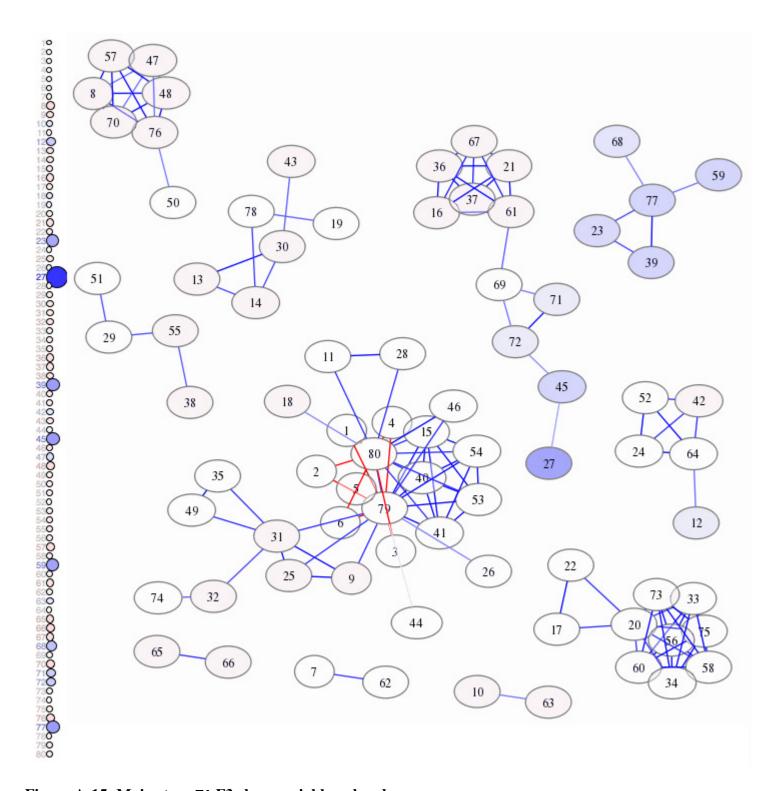


Figure A-15: Main story T1 F3 clause neighbourhood

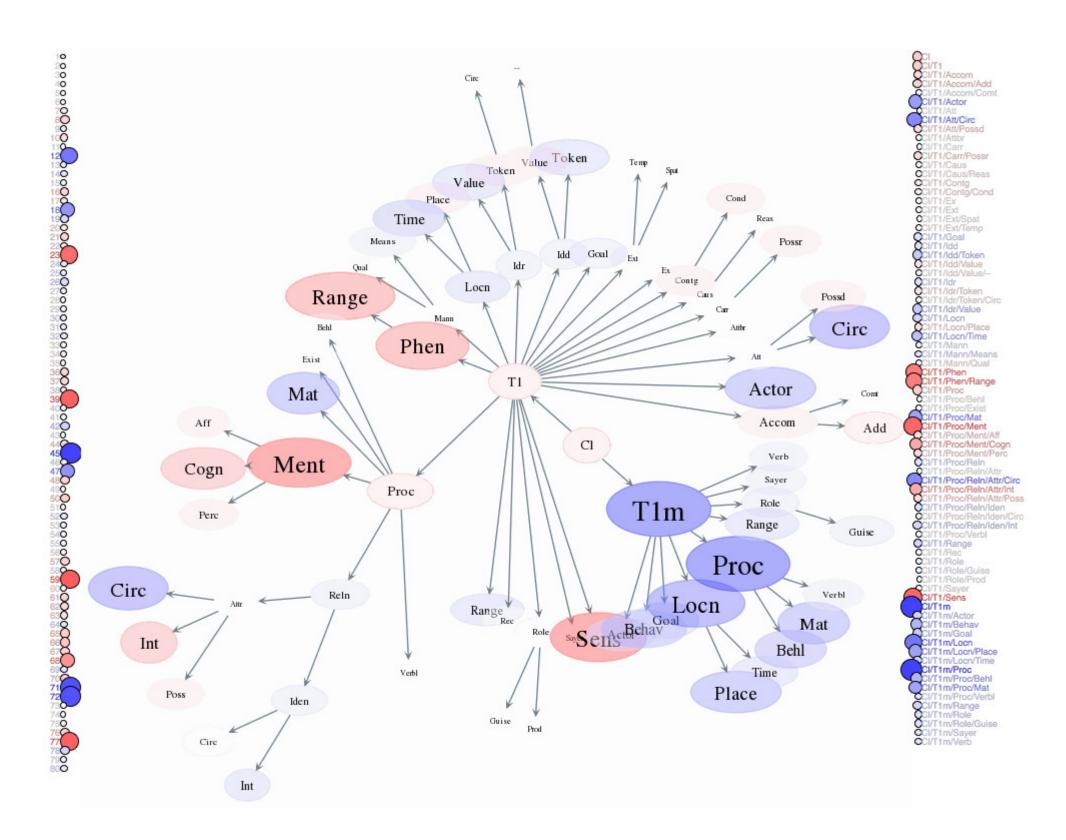


Figure A-16: Main story T1 F4 tag wheel

```
1 October 10, 2008 -- Updated 1136 GMT (1936 HKT)
      4 -- and how to stop it
 8 At this point [in the credit crisis], at least one thing is certain

    8: most policymakers lack a clue [[of what is really at stake]].

 O 9 Those with some knowledge are driving policy
 O 10 looking through the rearview mirror

    Hegin with the U.S. Treasury's $700 billion bailout package.

12 This was presented as some magic pill

    13 which, <<if gulped down>>, would quickly restore financial stability

 O 14 The "shock and awe" [of the sheer size [of the taxpayer -funded bailout]] would somehow restore confidence.

    15 Instead, stock markets collapsed

 O 16 and credit markets remained frozen.
 o 17 This is because [[the credit crisis reflects something [[ {which is} more fundamental than a serious problem [of mortgage defaults] ]]]].
 18 Global investors, << who are now on the sidelines>>, have declared a buyers' strike [against the sophisticated paper assets [of securitization] [[that financial institutions use {the sophisticated paper assets [of securitization]} || to measure || and offload risk]]].
 O 19 In recent years, our banks, <<borrowing II to maximize the leverage [of their assets] at unheard-of levels>>, produced mountains [of financial paper instruments ([[called asset -backed securities]])] with little means [[of measuring their value]].
 O 20 Incredibly, these paper instruments were insured by more dubious paper instruments.
 O 21 Therefore, the housing crisis was a mere trigger [for a collapse [of trust [in paper]]]
22 {which was} followed by a de-leveraging [of the entire global financial system].

23 As a result, we are experiencing the painful downward reappraisal [of the value [of virtually every asset [in the world]]].
 O 24 So what are these paper instruments, these asset -backed or mortgage -backed securitie
 O 25 | {|} like to use a salad analogy
 O 26 Before the last decade, bankers simply lent in the form of syndicated loans.
 O 27 But with the huge expansion [of the global economy] in the 1990s, <<which produced an ocean [of new capital]>>, the bankers came up with an idea [[called securitization]].
 O 28 Instead of making simple loans
 O 29 and holding them until maturity
 o 30 a bank collected all its loans together,
 O 31 then {the bank} diced {its loans}
 O 32 and {the bank} sliced them up into a big, beautiful tossed salad.
 o 33 The idea was [[to sell <(for huge fees)> individual servings [of diversified financial salad] around the world]].
 o 34 The only problem : [[[under an occasional piece of lettuce] was a speck of toxic waste [in the form of a defaulting subprime mortgage]]].
 O 36 and you 're dead.
 O 37 The overall salad looked delicious,

    38 but suddenly global investors were no longer ordering salad.

39 No one knew the location [of the toxic waste].
 o 40 This distrust heightened
 O 41 when global interest rates began to rise.

    42 So what does this salad boycott mean for the future

 o 43 and why have financial markets collapsed so brutally?
     44 The markets are telling
45 the world will face a serious credit crunch in 2009
      46 regardless of how much money government spends
     47 to remove the toxic salad from bank balance sheets

    48 Policymakers have no means [[of forcing the banks to start lending]]

  O 49 short of nationalizing the entire financial system.
 O 50 After all, the U.S. banks alone so far <during the crisis> have lost upwards of $2 trillion from their collective asset base.
  o 51 Most banks are leveraged by more than 10 to
 o 52 Translation : [[The U.S. financial system will have a whopping $15 trillion to $20 trillion less credit available next year [[than {what}} was around a year and a half before]].]]
  O 53 The cost [of money] is rising
  O 54 and the availability (is) shrinking.
 O 55 True, the banks will still lend
 o 56 -- but the fear is [[they will do it only to people <such as Warren Buffett>,]]

 57 who don't need loans.

  o 58 [[What is uncertain]] is the amount of lending [to borrowers [[engaged in entrepreneurial risk, the center of business reinvention and job creation.]]]
so Apart from the economic pain [[resulting from shrinking credit markets]], we are about to see an earthquake [in the relationship [between government and financial markets]].

The great uncertainty is [[whether government has the power [[to rescue the financial system]] in times of crisis.]]

 61 It seems doubtful.

 O 62 In the United Kingdom, <for example>, the collected assets [of the major banks] are four times the nation's gross domestic product (GDP).
 O 63 A similar situation exists in many Euro zone countries.
 O 64 This means [[government cannot bail out the system II even if it wanted II to {bail out the system}]].
 O 65 Given such massive exposure, government guarantees [in a time of crisis] become meaningless.
O 66 Yet because of the interconnected web [of global financial relationships], we are all vulnerable to the threat.
 O 67 The collapse of, <say>, a major European bank would hardly leave American workers immune.
 68 Our policy leaders [in Washington] are thinking domestically
 o 69 when the solution [to the credit crisis] will be global.
     70 It is not that the world lacks money
     71; it is that the world's money is sitting on the sidelines
     72 -- more than $6 trillion *are sitting* in idle global money markets alone.
 o 73 The challenge will be [[to reform our financial system quickly]]
  74 to draw that global capital back into more productive uses
  o 75 The first step should be efforts [[to make the market [for future asset -backed paper] more transparent and credible]].
76 We need a private/public global bar
77 The bankers don't trust each other.
     76 We need a private/public global bank clearing facility.
 78 The central banks, <<working with the private institutions II in providing enhanced data>>, need to begin to refashion the world's financial architecture.
```

Jihldr Value/'Jildr'
Jildr'
Jildr'Token
Jildr'Token/Cir
Jildr/Value
JiLocn/Place
JiLocn/Place
JiLocn/Place
JiLocn/Place
JiLocn/Place
JiMann/Means
JiMann/Means
JiMann/Means
JiMann/Means
Jimann/Qual
Jiman/Phen/Range
Jiman/Phen/Range
Jiman/Place
J

Figure A-17: Main story T1 F4 text

o 80 the major governments [of the world], <<including the Chinese>>>, should begin major fiscal efforts [[to stimulate their weakening economies]].

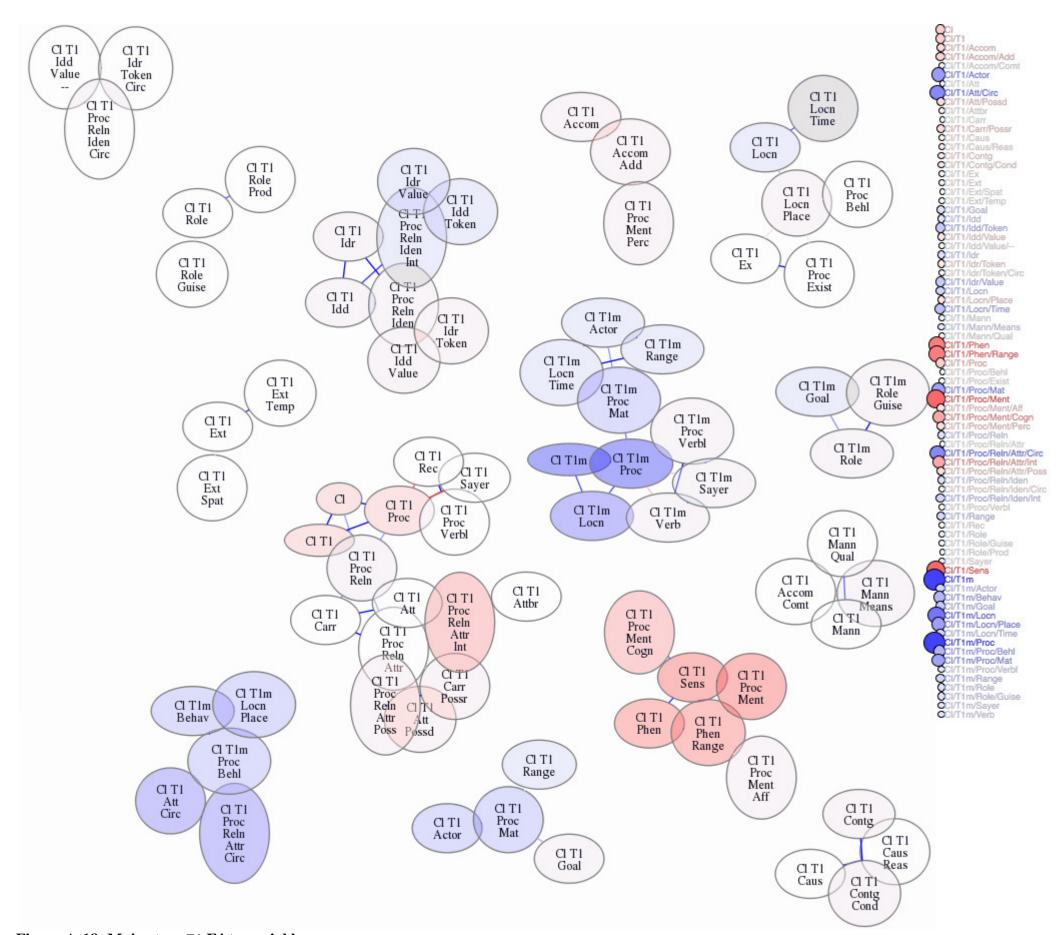
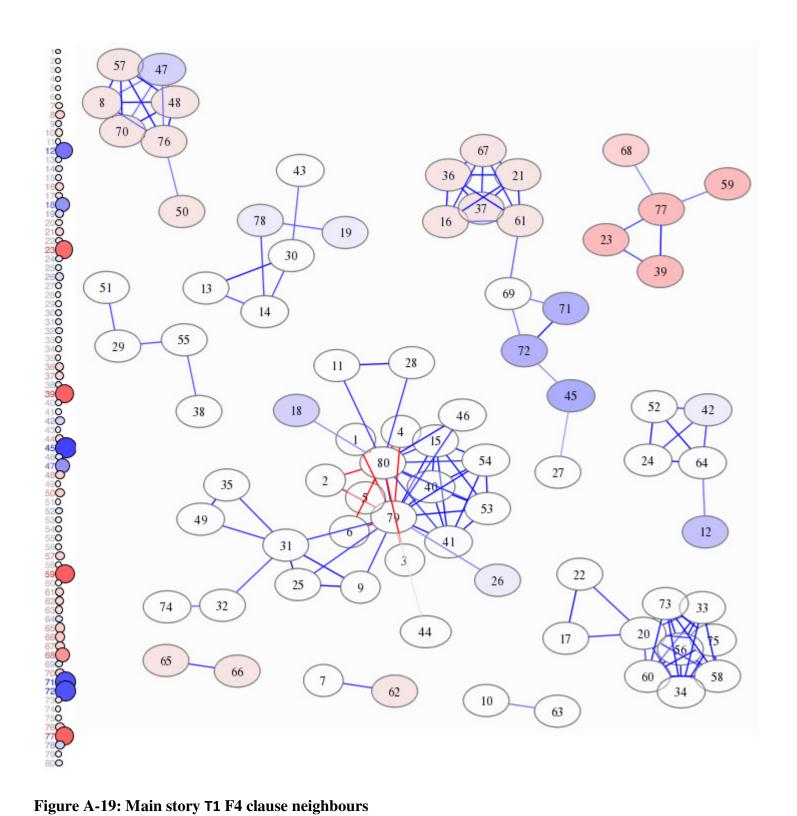


Figure A-18: Main story T1 F4 tag neighbours



Appendix 6.2 Comments

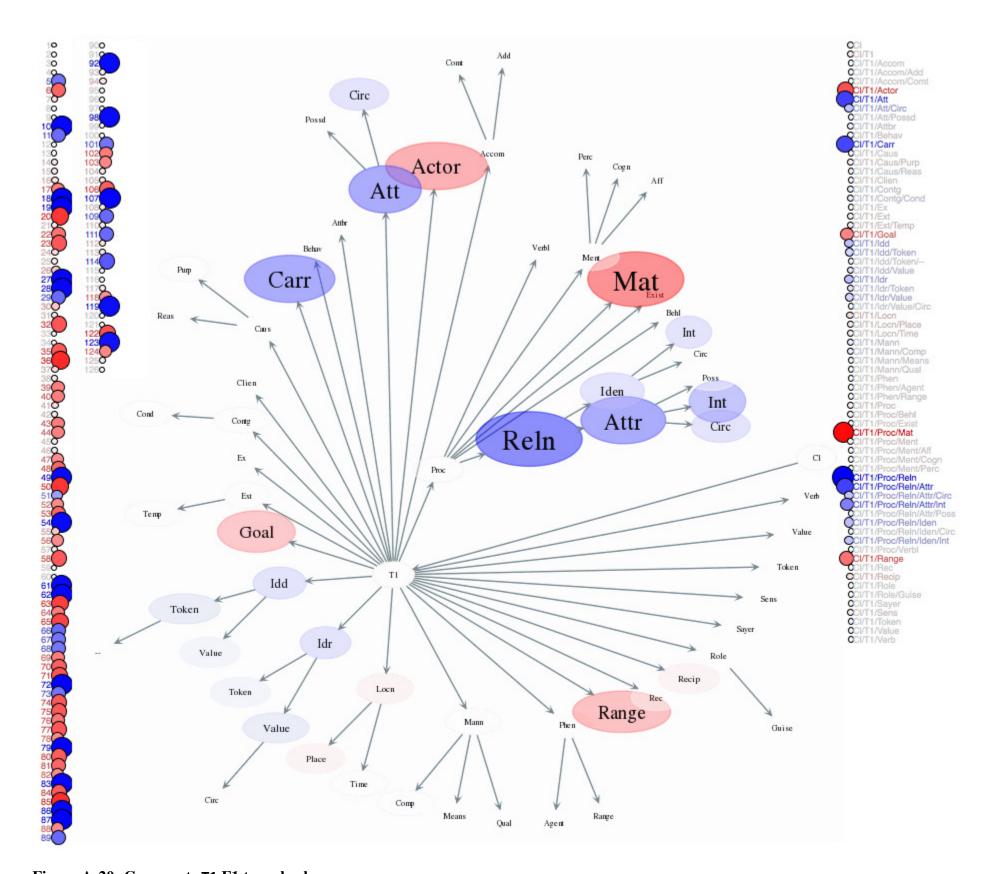


Figure A-20: Comments T1 F1 tag wheel

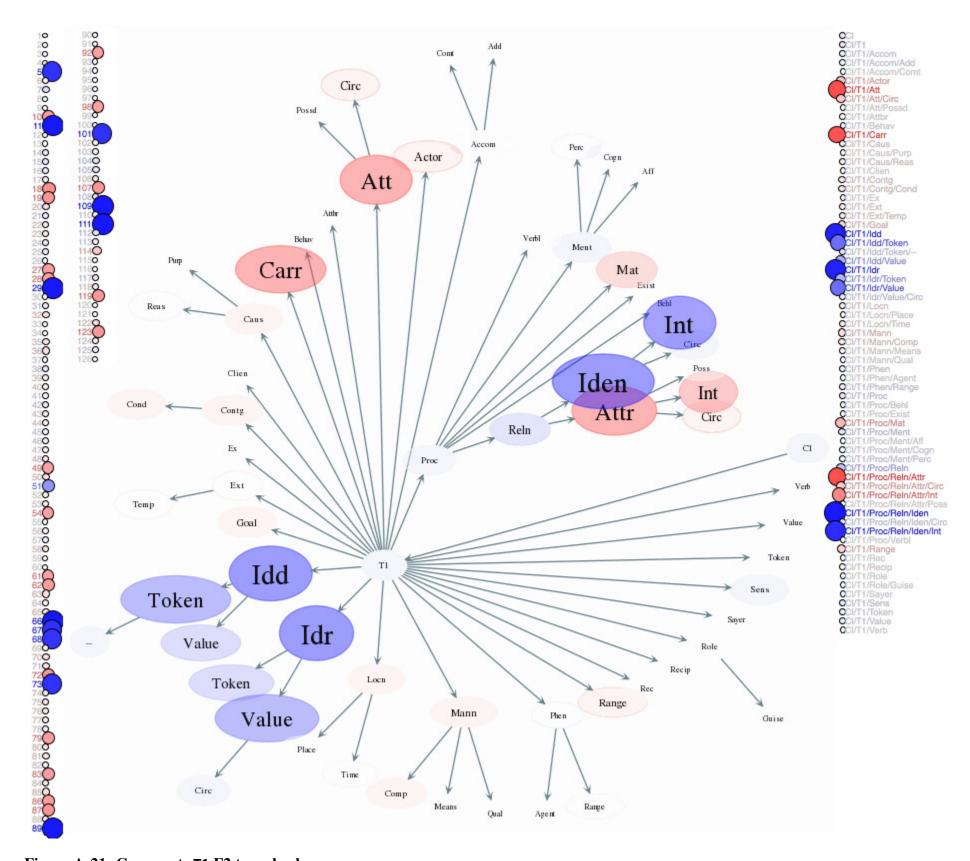


Figure A-21: Comments T1 F2 tag wheel

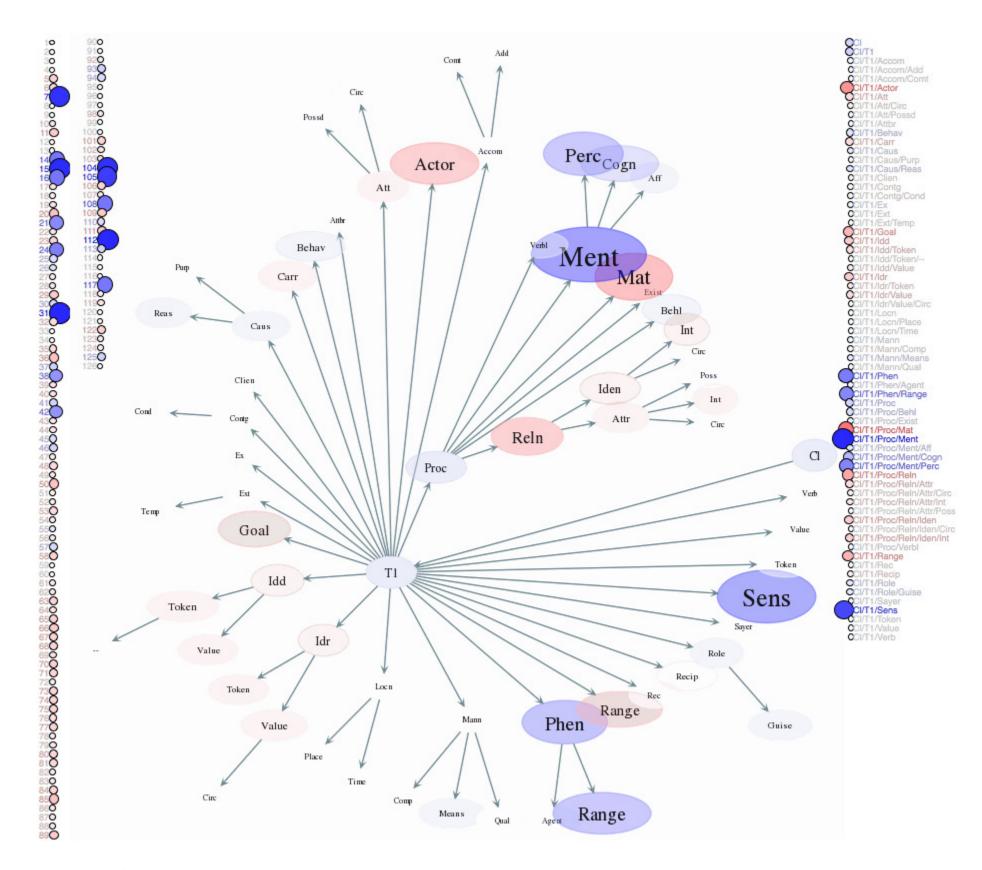
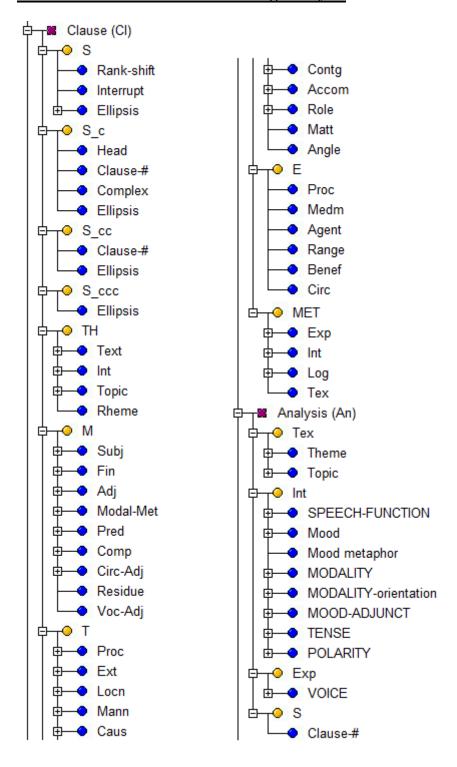


Figure A-22: Comments T1 F3 tag wheel

APPENDIX 7 THE GRAMMAR

Appendix 7.1 Clause Page

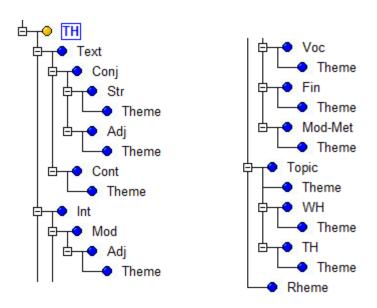
Overview of Grammar for Clause Page analyses



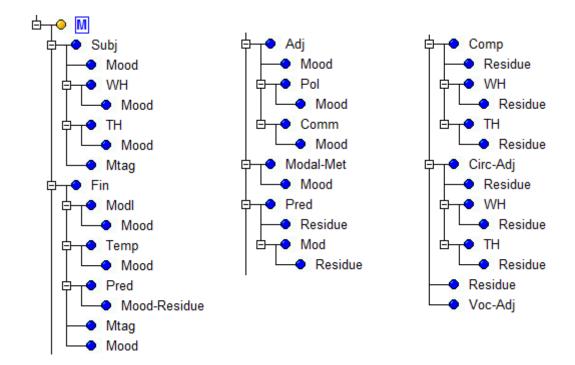
The Overview above is generated by expanding the system networks to only three

nodes deep. The full systems of TH, M, T, MET, Tex, Int, Exp, however, are generally deeper; their complete networks are as follows:

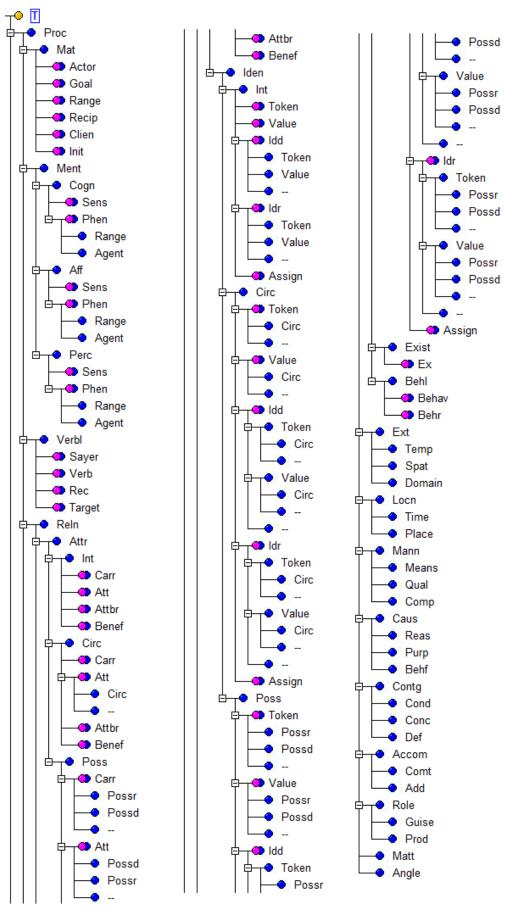
Appendix 7.1.1 <u>System of TH (Theme)</u>



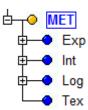
Appendix 7.1.2 System of M (Mood)



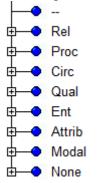
Appendix 7.1.3 <u>System of T (Transitivity)</u>



Appendix 7.1.4 <u>System of MET (Grammatical Metaphors)</u>

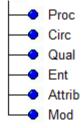


The categories "Exp", "Int", and "Log" expand into:



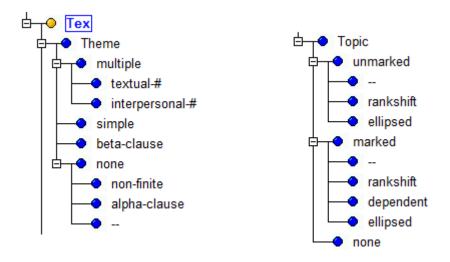
(congruent grammatical function)

Each of these expands into:

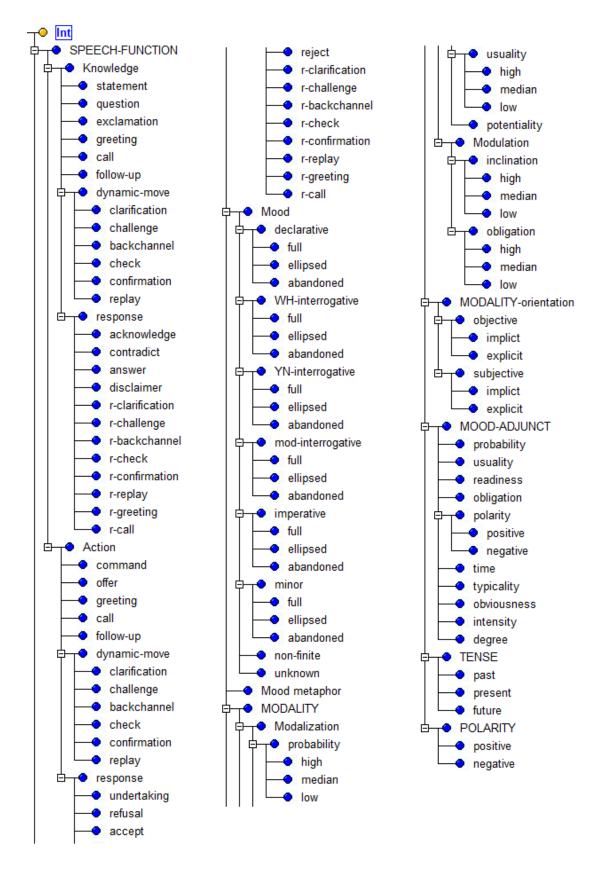


(shifted grammatical function)

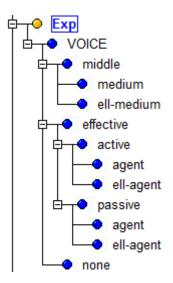
Appendix 7.1.5 <u>System of Tex (Textual)</u>



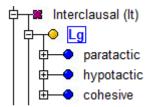
Appendix 7.1.6 System of Int (Interpersonal)



Appendix 7.1.7 <u>System of Exp (Experiential)</u>

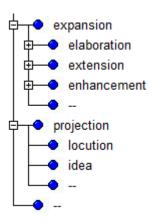


Appendix 7.2 Interclausal Page

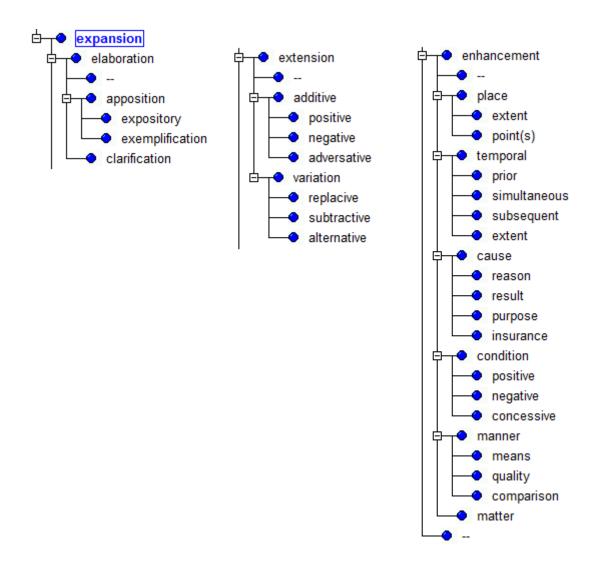


"Lg": Logical Complexing

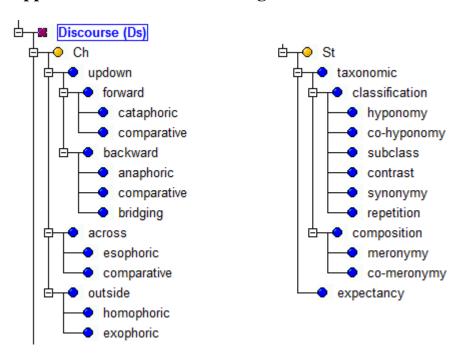
Each of the nodes "paratactic", "hypotactic", and "cohesive", expand further into:



The nodes of "elaboration", "extension", "enhancement" can be expanded deeper:



Appendix 7.3 Discourse Page



"Ch": Reference Chains

"St": Lexical Strings