

[21622001]



Figure 10: A semantic network for the sentence "Because of a lack of information and access to many investors including the very ones whose buying power could restore stability and damp volatility, we are forced to stand on the sidelines when they are most needed, because of their ignorance of important market information, a forecast of a major market crash is inevitable." The network illustrates the relationships between the words in the sentence, with nodes representing words and edges representing semantic relations. The relations are labeled with roles such as ARG0, ARG1, ARG2, and ARG3, indicating the structure of the sentence. The network shows how the main clause "a forecast of a major market crash is inevitable" is influenced by the preceding clauses, which provide context and reasons for the forecast.

Figure 10: A complex dependency tree for the sentence "To add aftershock-damping power to America's markets, a modern, electronic trading system should be implemented that permits equal access to the trading arena (and the information that would automatically accompany such access) by investors - particularly institutional investors." The tree shows the hierarchical structure of the sentence, with nodes representing grammatical functions like ARG1, ARG2, and BV. The sentence is split into two parts by a vertical line, with the second part starting with "and the information that would automatically accompany such access) by investors - particularly institutional investors."

Figure 10: A parse tree for the sentence "Country a-to-e-p-i to some q-i-h-h-n_o-f-x options , q-i-h-h v-e-i-p-n-x trading activities of p-e-x-i specialists and other a-e-i market makers do not n-e-g-e-h provide v-e-i-i-i liquidity to the q-i-h-h market as p-e-u-i a whole n-x". The tree structure is as follows:

- Root: **main**
 - Left child: **no**
 - Right child: **ARG1**
 - Left child: **to**
 - Right child: **ARG2**
 - Left child: **to**
 - Right child: **ARG3**
 - Left child: **some**
 - Right child: **options**
 - Right child: **ARG4**
 - Left child: **,**
 - Right child: **ARG5**
 - Left child: **q-i-h-h**
 - Right child: **ARG6**
 - Left child: **v-e-i-p-n-x**
 - Right child: **trading activities**
 - Right child: **ARG7**
 - Left child: **of**
 - Right child: **ARG8**
 - Left child: **p-e-x-i**
 - Right child: **specialists**
 - Right child: **and**
 - Right child: **ARG9**
 - Left child: **other**
 - Right child: **ARG10**
 - Left child: **a-e-i**
 - Right child: **market makers**
- Right child: **do**
- Right child: **not**
- Right child: **provide**
- Right child: **ARG11**
 - Left child: **liquidity**
 - Right child: **to**
- Right child: **the**
- Right child: **ARG12**
 - Left child: **q-i-h-h**
 - Right child: **market**
- Right child: **as**
- Right child: **ARG13**
 - Left child: **p-e-u-i**
 - Right child: **a whole**
- Right child: **ARG14**
 - Left child: **n-x**
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 - Left child:

What market makers provide immediacy, a very valuable service.
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[1622022]

Liquidity is not a service .
n:x v_id:e-p-i neg:e-h q_i:h-h n:x

The diagram shows a syntactic tree for the sentence "Liquidity is not a service". The root node is CP, which branches into ARG1 and VP. ARG1 branches into ARG1 and NEG. VP branches into V and BV. The words "is", "not", "a", and "service" are aligned under their respective nodes.

Figure 10: A parse tree for the sentence "It is a market attribute - the ability to absorb selling orders without causing significant price changes in the absence of news". The tree shows the hierarchical structure of the sentence, with nodes labeled with grammatical functions (e.g., ARG1, ARG2, BV, compound) and their corresponding parts of speech or words. The words are: It, is, a, market, attribute, -, the, ability, to, absorb, selling, orders, without, causing, significant, price, changes, in, the, absence, of, news.

Figure 10: A parse tree for the sentence "Market makers buy what investors wish to do with their business is reselling these unwanted positions as quickly as possible to other investors, and pe-u-i a profit." The tree shows the hierarchical structure of the sentence, with nodes labeled with grammatical functions (e.g., ARG0, ARG1, SUBJ, OBJ, ADV, MOD) and the corresponding words or phrases. The sentence is a complex sentence with multiple clauses and modifiers.

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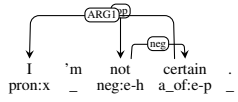
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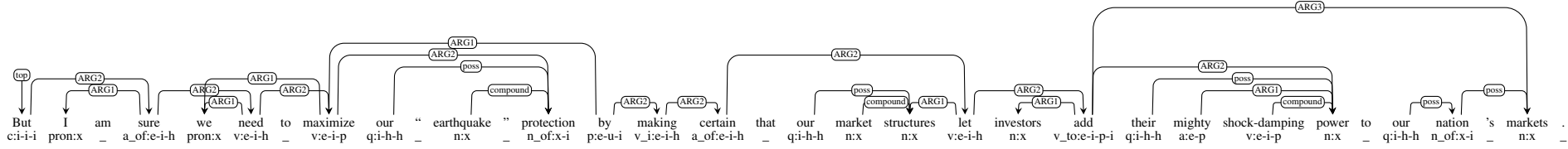
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Figure 1: A sentence with its constituent structure. The sentence is: "Last Friday market gyrations did not result in severe aftershocks." The constituent structure is shown above the sentence, with nodes labeled ARG1, ARG2, and ARG3. The sentence is segmented into tokens: Last, Friday, market, gyrations, did, not, result, in, severe, aftershocks, ., .

Were we smart or just lucky ?
 pron:x a:e-p x:e-u a:e-p



[21622033]



[21622034]

