Berkeley’s FrameNet

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514 SEMANTICS
A CLASSROOM IN WHICH MEANINGS ARE DISCUSSED
(Actually, this is just a door. The classroom is on the other side of the door)
First on the scene were Detective Boyd and Special Investigator Little Billy.
FrameNet

• With WordNet you can make inferences about the semantic commonalities across different sentences
• With FrameNet you can make inferences in many more situations…across different verbs, and between verbs and nouns
FrameNet

we would like to examine the
similarity between these sentences:

The price of bananas increased 5%.
The price of bananas rose 5%.
There has been a 5% rise in the price of bananas.
FrameNet

- FrameNet addresses these kinds of problems with the innovative “frame”.
- Semantic frames are schematic representations of situation types (eating, spying, removing, classifying, etc.) together with lists of the kinds of participants, props, and other conceptual roles that are seen as components of such situations.
- The semantic arguments of a predicing word correspond to what are called the frame elements of the frame associated with that word.
Demo

http://framenet.icsi.berkeley.edu/index.php?option=com_frontpage&Itemid=1
FrameNet

• FrameNet also codes relationships between frames and frame elements
  – Frames can inherit from each other
  – Generalizations among frame elements in different frames can be captured as well
  – Other relationships like causation can be captured as well
FrameNet

- Other relations such as causation are represented as well
- `Cause_change_of_position_on_a_scale` frame is linked to `Change_of_position_on_a_scale` by the cause relation