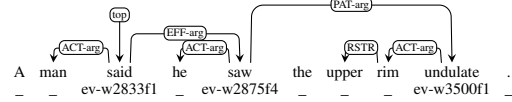


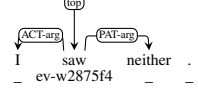
[21618001]



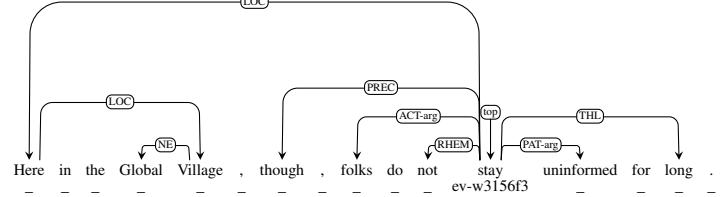
[21618017]



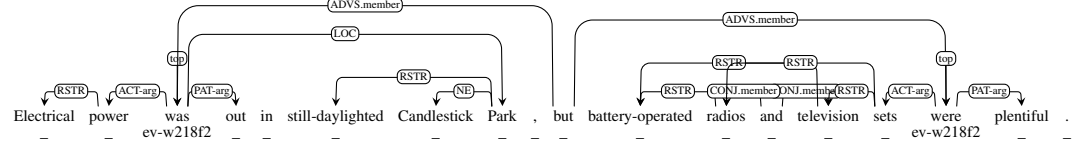
[21618018]



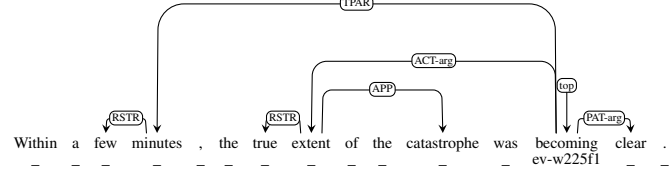
[21618022]



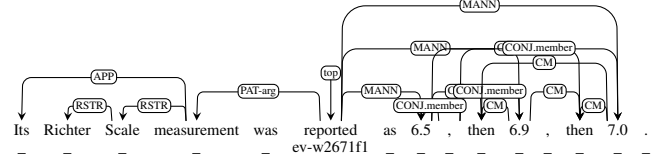
[21618023]



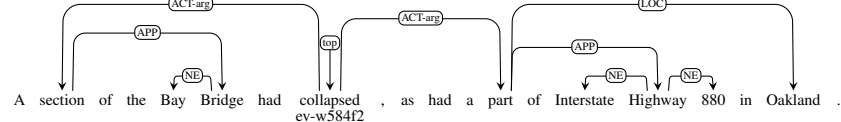
[21618024]



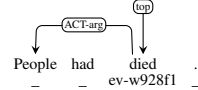
[21618025]



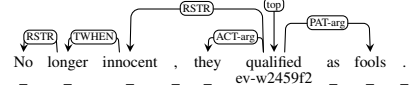
[21618026]



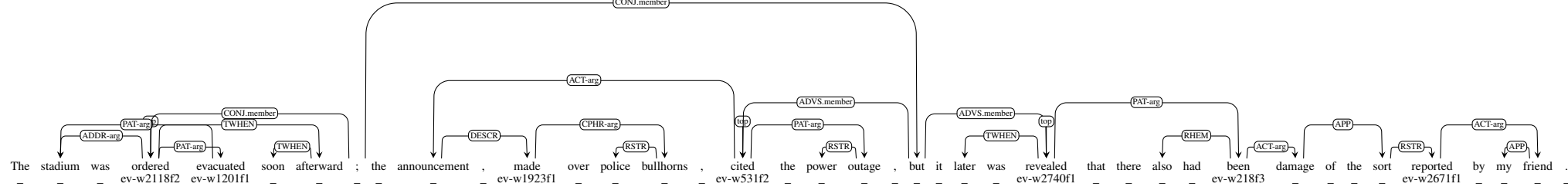
[21618027]



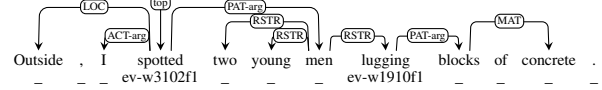
[21618029]



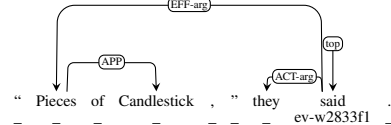
[21618030]



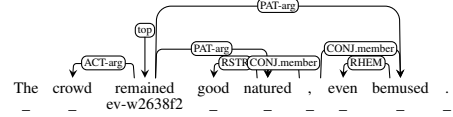
[21618031]



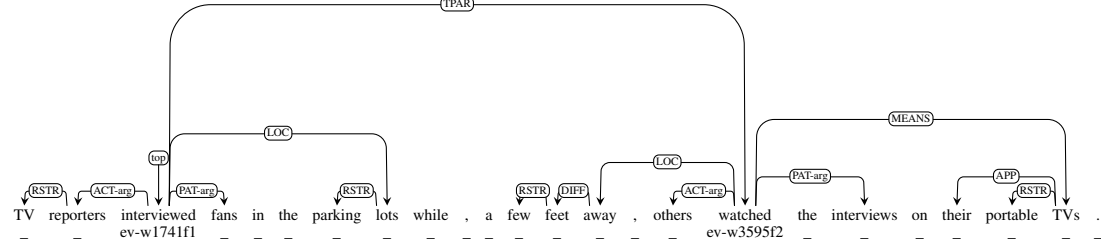
[21618032]



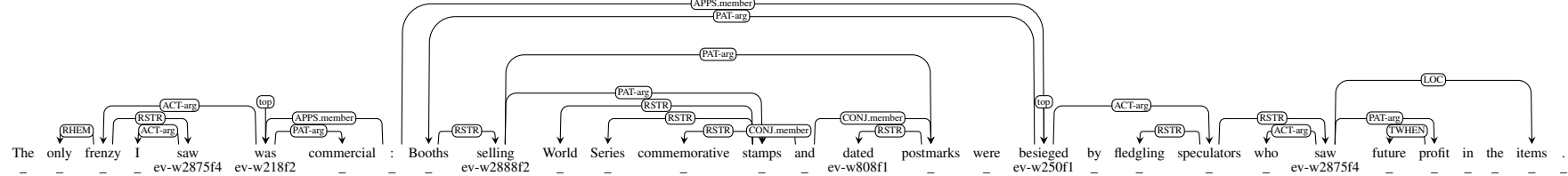
[21618033]



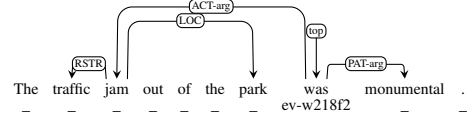
[21618034]



[21618035]



[21618036]



The six-mile trip to my airport hotel that had taken 20 minutes earlier in the day took more than three hours.

Figure 1: A dependency network diagram for the sentence "At my hotel, the Westin, power was out, some interior plaster had broken loose and there had been water damage, but little else". The diagram shows nodes for words and phrases, connected by dependency arcs. Nodes are labeled with their part-of-speech (POS) and dependency type (e.g., LDC, CUNI_member, ACT_arg, ESTB). The sentence is split into two parts: "At my hotel, the Westin, power was out" and "some interior plaster had broken loose and there had been water damage, but little else". The diagram illustrates the complex dependencies between these two parts, including coreference and argument structure.

[illegible][illegible]

Figure 10: A parse tree for the sentence "expected ev-w1239f him to say mild ev-w3348f you so , , but he already was snoring ev-w3050f". The root node is **NP** (NP member), which branches into **NP** and **VP** (VP member). The first **NP** branches into **ACT-arg** and **PAT-arg**. The **ACT-arg** node dominates the word "expected". The **PAT-arg** node dominates the word "him". The **VP** node branches into **ACT-arg** and **ADJ-arg**. The **ACT-arg** node dominates the word "say". The **ADJ-arg** node dominates the word "mild". The **VP** node branches into **ACT-arg** and **ADJ-arg**. The **ACT-arg** node dominates the word "you". The **ADJ-arg** node dominates the word "so". The **VP** node branches into **ACT-arg** and **ADJ-arg**. The **ACT-arg** node dominates the word "but". The **ADJ-arg** node dominates the word "he". The **VP** node branches into **ACT-arg** and **ADJ-arg**. The **ACT-arg** node dominates the word "already". The **ADJ-arg** node dominates the word "was". The **VP** node branches into **ACT-arg** and **ADJ-arg**. The **ACT-arg** node dominates the word "snoring". The **ADJ-arg** node dominates the word "ev-w3050f".

The journalistic consensus was ev-w218f2 that the earthquake made ev-w1923f2 the World Series seem ev-w2880f2 unimportant.

Should the rest of the Series be played at all ?
 - - - - - ev-w2294f1 - - -

\downarrow
 Sure .
 — —

The quake and baseball were n't related ev-2626f2 , unlike the massacre of athletes that attended ev-w161f1 the 1972 Olympics .

[illegible]

Two ironies intrude .
- - ev-w1746f1 -

[illegible]

Figure 1: A diagram illustrating the proposed neural network architecture for Named Entity Recognition (NER). The input sentence is: "Flags fly at half-staff for the death of Bart Gunnatti, the late baseball commissioner, and now the Bay Bridge lies in ruins." The diagram shows the flow of information from the input tokens through various layers (Embedding, POS, NER, etc.) to the final output. The output labels are: "Flags" (LOC), "fly" (V), "at" (P), "half-staff" (MANNER), "for" (P), "the" (ART), "death" (N), "of" (P), "Bart" (PERSON), "Gunnatti," (PERSON), "the" (ART), "late" (ADJ), "baseball" (N), "commissioner," (N), "and" (CONJ), "now" (ADV), "the" (ART), "Bay" (LOC), "Bridge" (LOC), "lies" (V), "in" (P), "ruins" (N).

3

