**COMP 6751 Natural Language Analysis**

**Quiz 2 working note**

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1. Analyze the following sentence:

*1 The 2 owner 3 of 4  an 5  alligator 6  that 7  went 8  viral 9  through 10  social 11  media 12  after 13 it 14 escaped 15 in 16 Villeray 17 last 18 December 19 has 20 been 21 charged 22  , 23 along 24 with 25 her 26 partner 27 , 28 with 29 criminal 30 negligence 31 following 32 an 33 incident 34 in 35 Ste-Julie 36 this 37 year 38 . 39*

***Answer:***

*The/DT owner/NN of/IN an/DT alligator/NN that/WDT went/VBD viral/JJ through/IN social/JJ media/NNS after/IN it/PRP escaped/VBD in/IN Villeray/NNP last/JJ December/NNP has/VBZ been/VBN charged/VBN ,/, along/IN with/IN her/PRP$ partner/NN ,/, with/IN criminal/JJ negligence/NN following/VBG an/DT incident/NN in/IN Ste-Julie/NNP this/DT year/NN.*

1. Using the positive numbers, indicate all the positions of the following constituents. For instance, to indicate that *this year* is an ADVP, you would enter (36, 38).
2. NP

***Answer:***

* the owner (1, 3)
* an alligator (4, 5)
* social media (10, 12)
* an alligator that went viral through social media (4, 12)
* last December (17, 19)
* her partner (25, 27)
* criminal negligence (29, 31)
* an incident (32, 34)
* this year (36, 38)
* an incident in Ste-Julie this year (32, 38)

1. VP

***Answer:***

* went viral through social media (7, 12)
* escaped (14, 15)
* escaped in Villeray last December (14, 19)
* has been charged (19, 22)

1. RelCl (relative clause)

***Answer:***

* that went viral through social media after it escaped in Villeray last December (6, 19)

1. PP

***Answer:***

* of an alligator that went viral through social media after it escaped in Villeray last December (3, 19)
* through social media (9, 12)
* in Villeray (15, 17)
* along with her partner (23, 27)
* with her partner (24, 27)
* with criminal negligence (28, 31)
* following an incident in Ste-Julie this year (31, 38)
* in Ste-Julie (34, 36)

1. Let us indicate that *the* is governed by *owner* by the det dependency using the notation: ((2, 3) -det-> (1, 2))

Indicate all nsubj relations.

***Answer:***

* ((7, 8) –nsubj–> (6, 7))
* ((14, 15) –nsubj–> (13, 14))
* ((21, 22) –nsubj–> (2, 3))

1. In the style of Davidson, list all predicates (only the <PRED>(e) portion of the sentence meaning is required, so for the section (31, 39), the answer could be HAPPENING(e51)).

***Answer:***

HAPPENING(e1) ∧ HAPPENER(e1, “criminal negligence”) ∧ DESTINATION(e1, “Ste-Julie”)

1. Using the event variables you introduce above, add the temporal information for the event GOINGVIRAL(e33) to your representation (for the event e51, the answer would be IntervalOf(e51, i) ∧ EndPoint(i, NOW) ∧ StartingPoint(I, LASTJANUARY)).

***Answer:***

GOINGVIRAL() ∧ GOINGVIRALER(, “alligator”) ∧ IntervalOf(, i) ∧ EndPoint(i, NOW) ∧ StartingPoint(i, “Last December”)