

EXERCISES WEEK 9 INF3580 SPRING 2012

Martin G. Skjæveland

13 March 2012

9 Semantics

9.1 Literals and blank nodes

Let Γ be the RDF graph below. You will need to interpret both blank nodes and literals using the semantics layed out in the lectures.

1. Create an interpretation \mathcal{I}_1 such that $\mathcal{I}_1 \models \Gamma$.
2. Create an interpretation \mathcal{I}_2 such that $\mathcal{I}_2 \not\models \Gamma$.

```
1: @prefix : <http://www.example.org#> .
2: @prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .
3:
4: :Tweety rdf:type :Bird .
5: :Nixon rdf:type :Republican .
6: :Nixon rdf:type :Quacker .
7: :Nixon :listensTo :Tweety .
8: :Nixon :likes [ a :Bird ] .
9: [] :likes :Nixon .
10: :Nixon :hasNickname "Ric" .
11: :Tweety :hasNickname "Mr. Man" .
12: :Tweety :likes :Tux .
```