Football Ontology
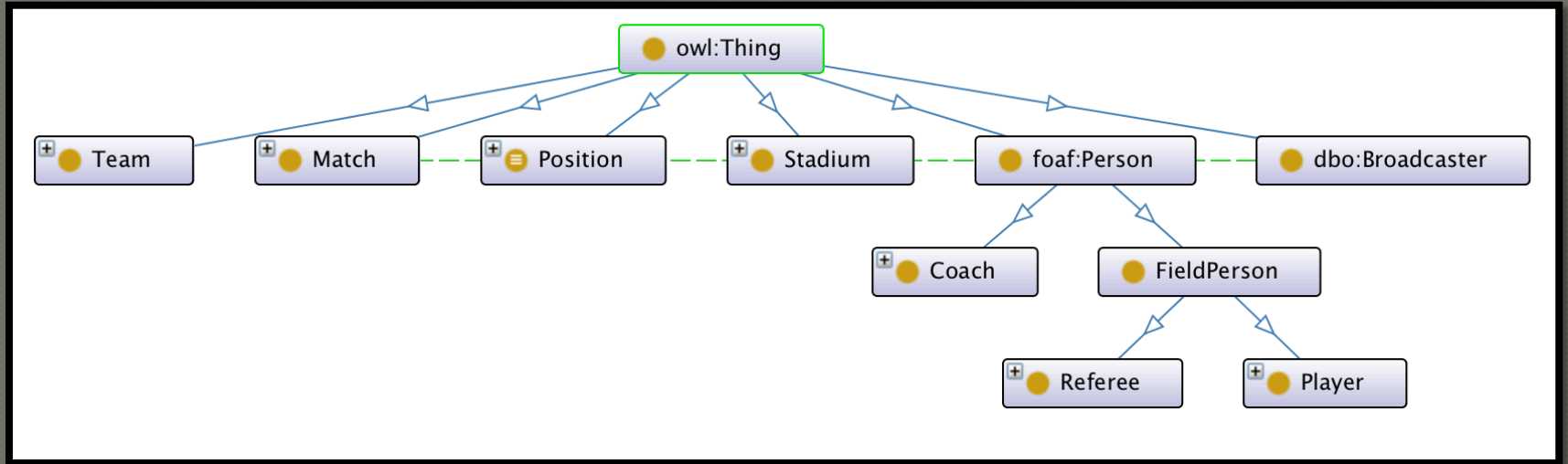
1.06.2016

Classes

- Coach
- FieldPerson
  - Player
  - Referee
- Match
- Stadium
- Team
- Position

Classes

Basic Properties

- works/hasWorker
  - coaches/isCoachedBy (Coach <-> Team)
  - playsFor/hasPlayer (Player<-> Team)
- hasReferee (Match -> Referee)
- hasTeam (Match->Team)
  - hasLocalTeam
  - hasVisitantTeam (Match -> Team)
- takesPlace (Match -> Stadium)
- date (Match -> xsd:DateTime

Some Decisions

- Player ≠ Referee

```
<owl:Class rdf:about="..tp2#Player">
    …
    <owl:disjointWith rdf:resource="..tp2#Referee"/>
</owl:Class>
```

- takesPlace/hasLocalTeam/hasVisitantTeam

```
<owl:ObjectProperty rdf:about="..tp2#hasLocalTeam">
    …
    <rdf:type rdf:resource="..#FunctionalProperty"/>
</owl:ObjectProperty>
```

Some Restrictions

- Position (Class)
  - Defender
  - Forward
  - GoalKeeper
  - MidFielder

```
<owl:oneOf rdf:parseType="Collection">
   <rdf:Description rdf:about="...tp2#Defender"/>
   <rdf:Description rdf:about="...tp2#Forward"/>
   <rdf:Description rdf:about="...tp2#GoalKeeper"/>
   <rdf:Description rdf:about="...tp2#Midfielder"/>
</owl:oneOf>
```

Some Definitions

- ExPlayerCoach (Class)

```
<owl:intersectionOf rdf:parseType="Collection">
   <rdf:Description rdf:about="…tp2#Coach"/>
   <rdf:Description rdf:about="…tp2#Player"/>
</owl:intersectionOf>
```

- coachesPlayer (Property)

```
<owl:propertyChainAxiom rdf:parseType="Collection">
         <rdf:Description rdf:about="…coaches"/>
         <rdf:Description rdf:about="…hasPlayer"/>
</owl:propertyChainAxiom>
```

Other Ontologies

- **foaf:Person**
  - Coach
  - FieldPerson
    - Player
    - Referee
- **dbo:Broadcaster**
  - broadcastBy (Match-> dbo:Broadcaster)