

Open Social Network Service



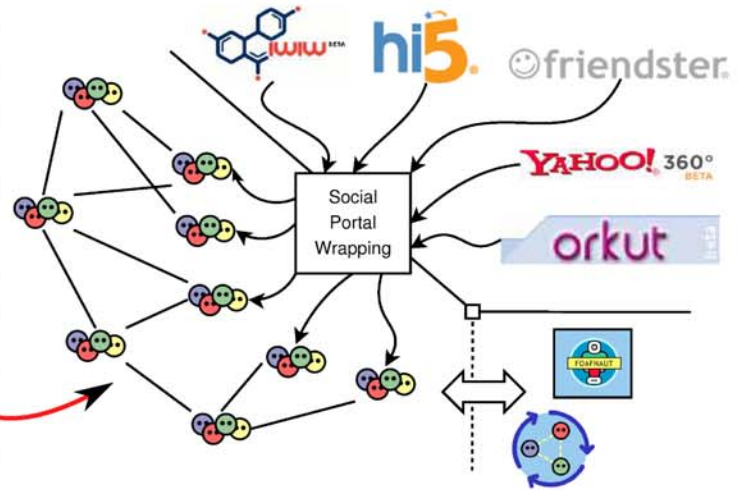
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A social network service is social software specifically focused on the building and verifying of online social networks for whatever purpose.

Motivation: We find the current social network services insufficient as they are incapable for securing privacy, to refer contacts residing on other social network services and because of difficult management of higher number of contacts.

Objective: devising a social network service which:

- * enables to update the personal profiles from external resources
- * permits to refer social relations residing on other social network services
- * publishes personal profiles through FOAF and microformats (XFN, hCard)
- * exploits labeling of social relations for clustering
 - * provides possibility to control access to sensitive private information

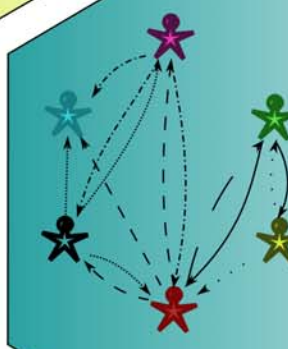


- * bridging personal profiles residing in closed systems with the FOAF world can be performed by web page wrappers
- * the square in the middle acts like a proxy between the closed social network services and the FOAF world.

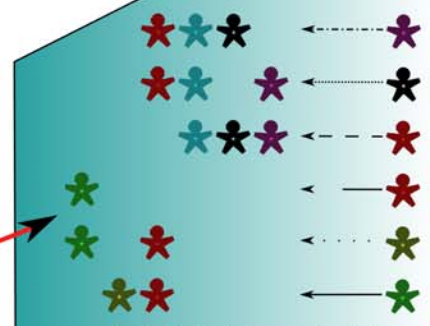
Privacy

- * personal profiles are mapped to separate FOAF files.
- * one FOAF file holds the public properties and refers to other files holding the properties restricted to a person or group of persons
- * prohibiting the access to the files is ensured by the capabilities of the HTTP(S) protocol
- * restricted properties in the FOAF profile are accessible only by a username/ password or by a key

Collaborative Clustering

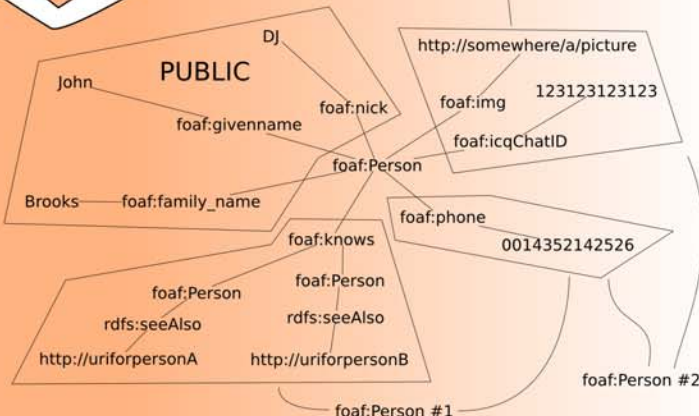


- * when the users' number of acquaintances in the network increases, they might be motivated to label their contacts
- * higher number of neighbours can be simply managed by labeling the relations and thus manually organizing the neighbours into groups
- * enriching social relations by labels opens possibilities to collaborative clustering
- * members of virtual communities should tend to label each other by similar tags



- * similarity between the labels shows the agreement of the users
- * this agreement reflects the community structure in the network

foaf:Person #3



FOAF profile divided to parts based on the access restrictions

Public properties

```
<foaf:Person rdf:ID="me">
<foaf:givenname>
John
</foaf:givenname>
<foaf:family_name>
Brooks
</foaf:family_name>
<foaf:nick>DJ</foaf:nick>
<rdfs:seeAlso>
1st_part.rdf
</rdfs:seeAlso>
<rdfs:seeAlso>
2nd_part.rdf
</rdfs:seeAlso>
<rdfs:seeAlso>
3rd_part.rdf
</rdfs:seeAlso>
</foaf:Person>
```

1st_part.rdf

```
<foaf:Person rdf:ID="me">
<foaf:img
rdf:resource=
"http://swwhere/a/pic"/>
<foaf:icqChatID>
123123123123
</foaf:icqChatID>
</foaf:Person>
```

2nd_part.rdf

```
<foaf:Person rdf:ID="me">
<foaf:img
rdf:resource=
"http://swwhere/a/pic"/>
<foaf:icqChatID>
123123123123
</foaf:icqChatID>
<foaf:phone
rdf:resource=
```

3rd_part.rdf

```
<foaf:Person rdf:ID="me">
<foaf:phone rdf:resource=
"0014352142526"/>
<foaf:knows>
<foaf:Person>
<rdfs:seeAlso
rdf:resource=
"http://URIforpersonA"/>
</foaf:Person>
</foaf:knows>
<foaf:knows>
<foaf:Person>
<rdfs:seeAlso
rdf:resource=
"http://URIforpersonB"/>
</foaf:Person>
</foaf:knows>
</foaf:Person>
```