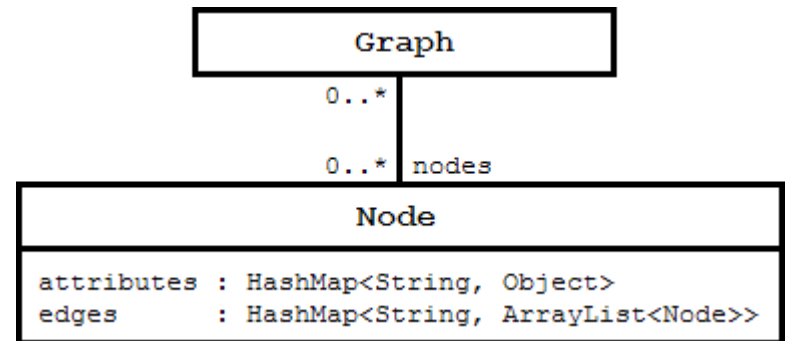


Yage Solution to the Family to Persons Case

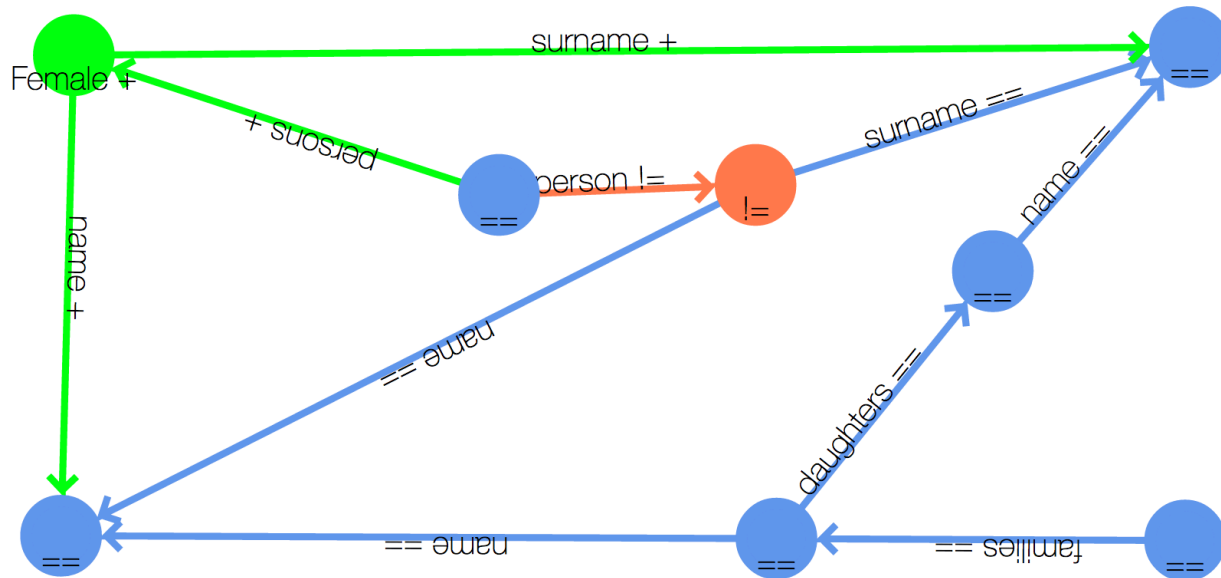
Christoph Eickhoff, Simon-Lennert Raesch, Philipp Kolodziej

Yage – Yet Another Graph Engine



```
Graph ferrymansGraph = new Graph();
Node wolf = new Node(), goat = new Node(), cabbage = new Node();
ferrymansGraph.addNode(wolf).addNode(goat).addNode(cabbage);
wolf.setAttribute("species", "Wolf").addEdge("eats", goat);
goat.setAttribute("species", "Goat").addEdge("eats", cabbage);
cabbage.setAttribute("species", "Cabbage");
```

Rule female from daughter



```

private PatternGraph getFamilytoPersonRule(String personGenderType, String familyMemberedge)//24
{
    PatternNode familyRegister = new PatternNode();
    PatternNode family = new PatternNode();
    PatternNode familyMember = new PatternNode();
    PatternNode name = new PatternNode();
    PatternNode surname = new PatternNode();
    PatternNode person = new PatternNode();
    PatternNode personRegister = new PatternNode();
    PatternNode newPerson = new PatternNode();
    PatternGraph patternGraph = new PatternGraph("FamilytoPersonRule-" + personGenderType + "-" + familyMemberedge);
    patternGraph.addPatternNode(family, familyMember, name, surname, person, newPerson, personRegister, familyRegister);
    person.setAction("!=");
    personRegister.addPatternEdge("!=", "person", person);
    familyRegister.addPatternEdge(FAMILIES, family);
    family.addPatternEdge(NAME, name);
    familyMember.addPatternEdge(NAME, surname);
    family.addPatternEdge(familyMemberedge, familyMember);
    person.addPatternEdge("surname", surname);
    person.addPatternEdge("name", name);
    newPerson.setAction("+");
    newPerson.setPatternAttribute("+", Node.TYPE_ATTRIBUTE, personGenderType);
    newPerson.setPatternAttribute("+", BIRTHDAY, BIRTHDAY_EDEFAULT.toString());
    newPerson.addPatternEdge("+", "surname", surname);
    newPerson.addPatternEdge("+", "name", name);
    personRegister.addPatternEdge("+", "persons", newPerson);
    return patternGraph;
}

```


Evaluation

Metric

- 82 LOC
- 253 Words
- 4236 characters