

aprior

@relation items

@attribute hotdogs{true,false}

@attribute buns{true,false}

@attribute ketchup{true,false}

@attribute coke{true,false}

@attribute chips{true,false}

@data

true true true false false

true true false false false

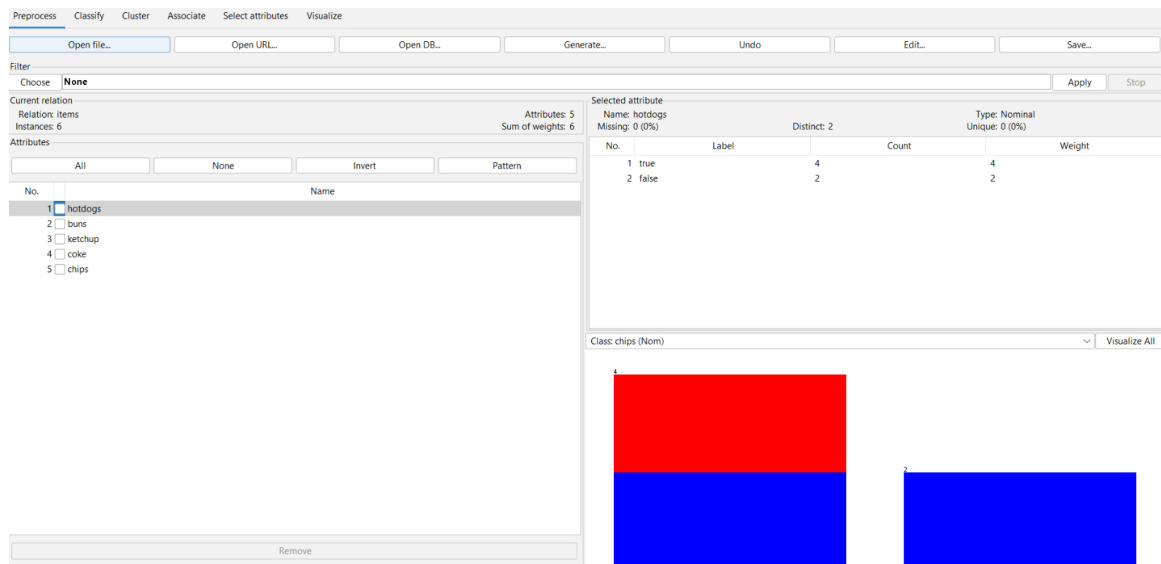
true false false true true

false false false true true

false false true false true

true false false true true

Output:



apriori

Preprocess Classify Cluster **Associate** Select attributes Visualize

Associator

Choose **Apriori** -N 10 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 0.1 -S -1.0 -c -1

Start Stop

result list (right-click for ...)

- 12:41:19 - Apriori
- 12:43:55 - FPGrowth
- 13:17:23 - Apriori**

Associator output

```
====
buns
ketchup
coke
chips
==== Associator model (full training set) ====

Apriori
=====

Minimum support: 0.55 (3 instances)
Minimum metric <confidence>: 0.9
Number of cycles performed: 9

Generated sets of large itemsets:

Size of set of large itemsets L(1): 6

Size of set of large itemsets L(2): 7

Size of set of large itemsets L(3): 4

Size of set of large itemsets L(4): 1

Best rules found:

1. chips=true 4 ==> buns=false 4    <conf:(1)> lift:(1.5) lev:(0.22) [1] conv:(1.33)
2. buns=false 4 ==> chips=true 4    <conf:(1)> lift:(1.5) lev:(0.22) [1] conv:(1.33)
3. coke=true 3 ==> buns=false 3    <conf:(1)> lift:(1.5) lev:(0.17) [1] conv:(1)
4. coke=true 3 ==> ketchup=false 3 <conf:(1)> lift:(1.5) lev:(0.17) [1] conv:(1)
5. coke=true 3 ==> chips=true 3    <conf:(1)> lift:(1.5) lev:(0.17) [1] conv:(1)
6. ketchup=false coke=true 3 ==> buns=false 3 <conf:(1)> lift:(1.5) lev:(0.17) [1] conv:(1)
7. buns=false coke=true 3 ==> ketchup=false 3 <conf:(1)> lift:(1.5) lev:(0.17) [1] conv:(1)
8. buns=false ketchup=false 3 ==> coke=true 3 <conf:(1)> lift:(2) lev:(0.25) [1] conv:(1.5)
9. coke=true 3 ==> buns=false ketchup=false 3 <conf:(1)> lift:(2) lev:(0.25) [1] conv:(1.5)
10. ketchup=false chips=true 3 ==> buns=false 3 <conf:(1)> lift:(1.5) lev:(0.17) [1] conv:(1)
```

Fpgrowth:

Preprocess Classify Cluster **Associate** Select attributes Visualize

Associator

Choose **FPGrowth** -P 2 -I -1 -N 10 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 0.1

Start Stop

result list (right-click for ...)

- 12:41:19 - Apriori
- 12:43:55 - FPGrowth
- 13:17:23 - Apriori
- 13:19:06 - FPGrowth**

Associator output

```
==== Run information ====

Scheme:      weka.associations.FPGrowth -P 2 -I -1 -N 10 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 0.1
Relation:    items
Instances:   6
Attributes:  5
             hotdogs
             buns
             ketchup
             coke
             chips

==== Associator model (full training set) ====

FPGrowth found 7 rules (displaying top 7)

1. [hotdogs=false]: 2 ==> [buns=false]: 2    <conf:(1)> lift:(1.5) lev:(0.11) conv:(0.67)
2. [chips=false]: 2 ==> [coke=false]: 2    <conf:(1)> lift:(2) lev:(0.17) conv:(1)
3. [ketchup=false, hotdogs=false]: 1 ==> [buns=false]: 1    <conf:(1)> lift:(1.5) lev:(0.06) conv:(0.33)
4. [ketchup=false, coke=false]: 1 ==> [chips=false]: 1    <conf:(1)> lift:(3) lev:(0.11) conv:(0.67)
5. [ketchup=false, chips=false]: 1 ==> [coke=false]: 1    <conf:(1)> lift:(2) lev:(0.08) conv:(0.5)
6. [buns=false, coke=false]: 1 ==> [hotdogs=false]: 1    <conf:(1)> lift:(3) lev:(0.11) conv:(0.67)
7. [coke=false, hotdogs=false]: 1 ==> [buns=false]: 1    <conf:(1)> lift:(1.5) lev:(0.06) conv:(0.33)
```