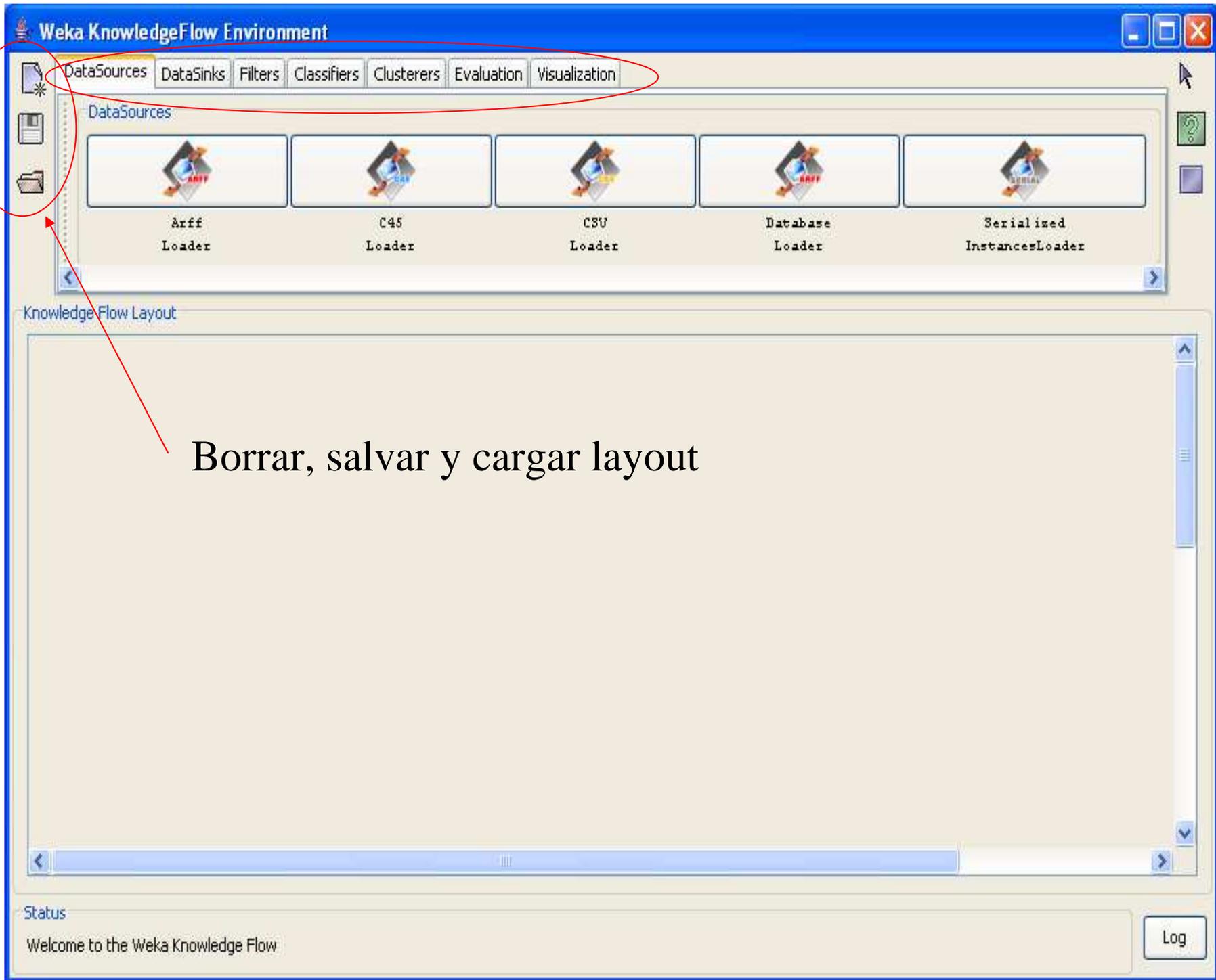
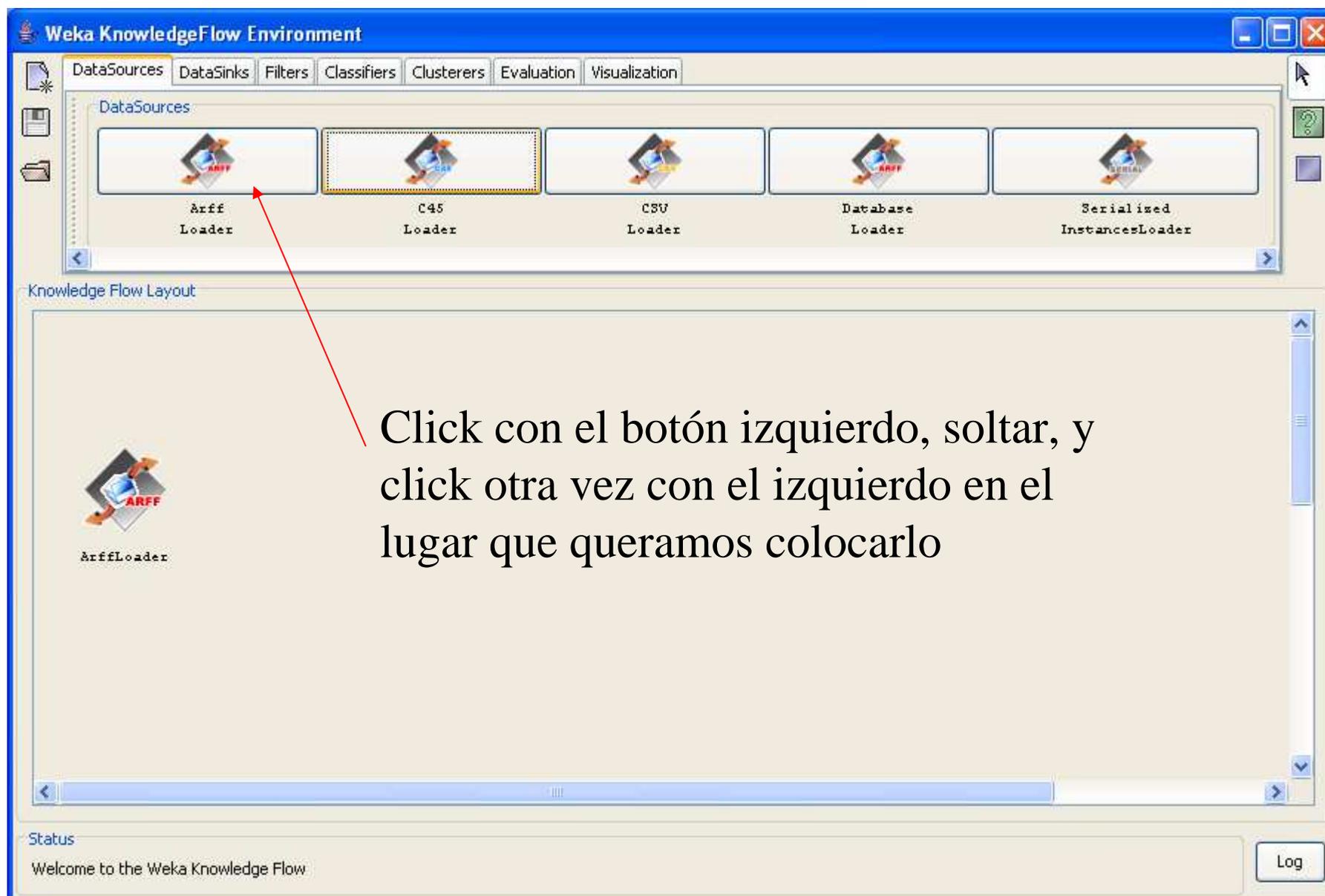


El Knowledge Flow

- Permite hacer lo mismo que el Explorer, pero de manera gráfica



1. Arff loader

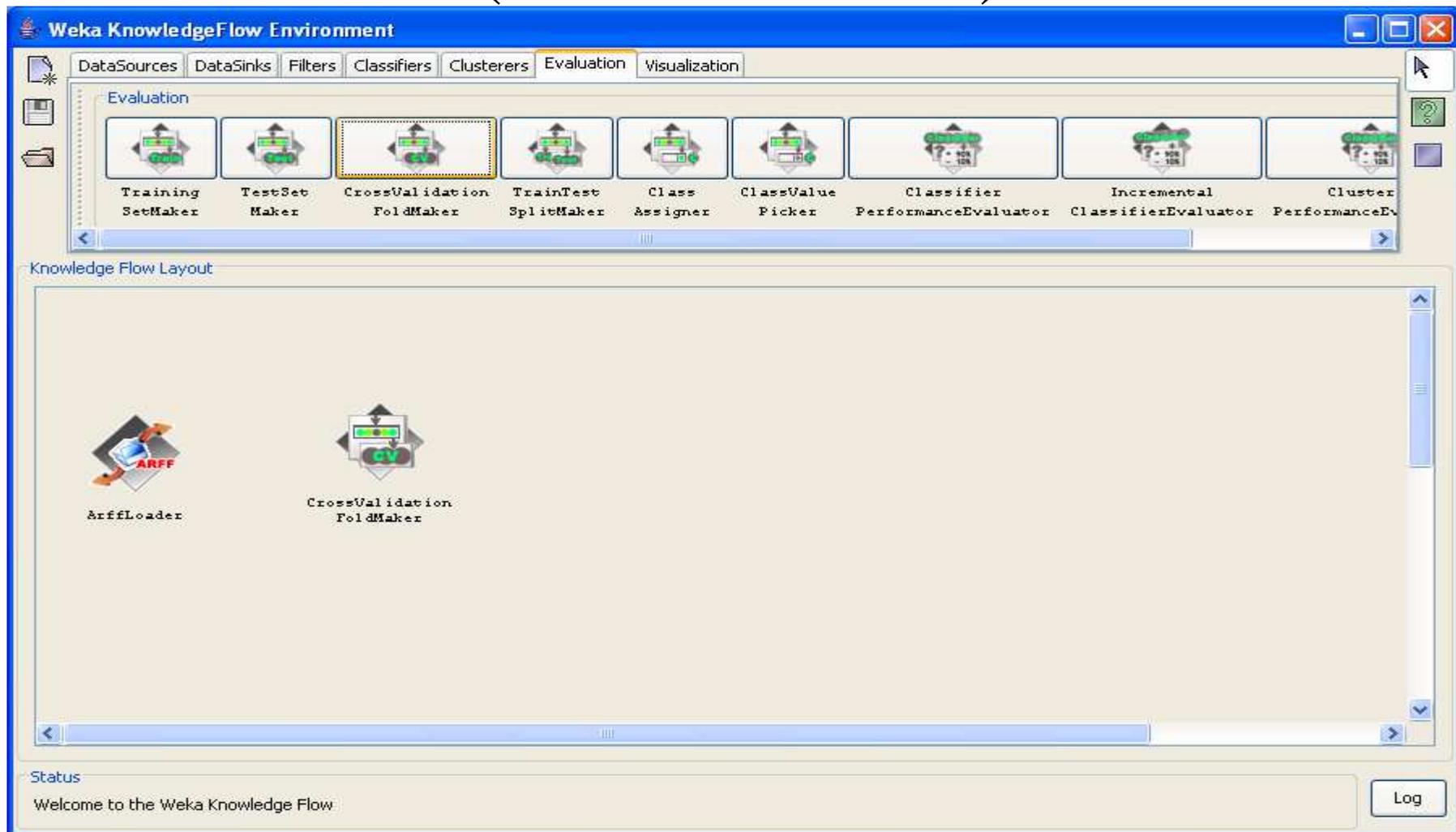


The screenshot displays the Weka KnowledgeFlow Environment interface. At the top, the title bar reads "Weka KnowledgeFlow Environment". Below it, a menu bar contains "DataSources", "DataSinks", "Filters", "Classifiers", "Clusterers", "Evaluation", and "Visualization". The "DataSources" palette is active, showing five loader icons: "Arff Loader", "C45 Loader", "CSV Loader", "Database Loader", and "Serialized InstancesLoader". The "Arff Loader" icon is highlighted with a red dashed border. A red arrow points from this icon to the "Knowledge Flow Layout" area, where the "ArffLoader" icon has been placed. The "Status" bar at the bottom left displays "Welcome to the Weka Knowledge Flow", and a "Log" button is located at the bottom right.

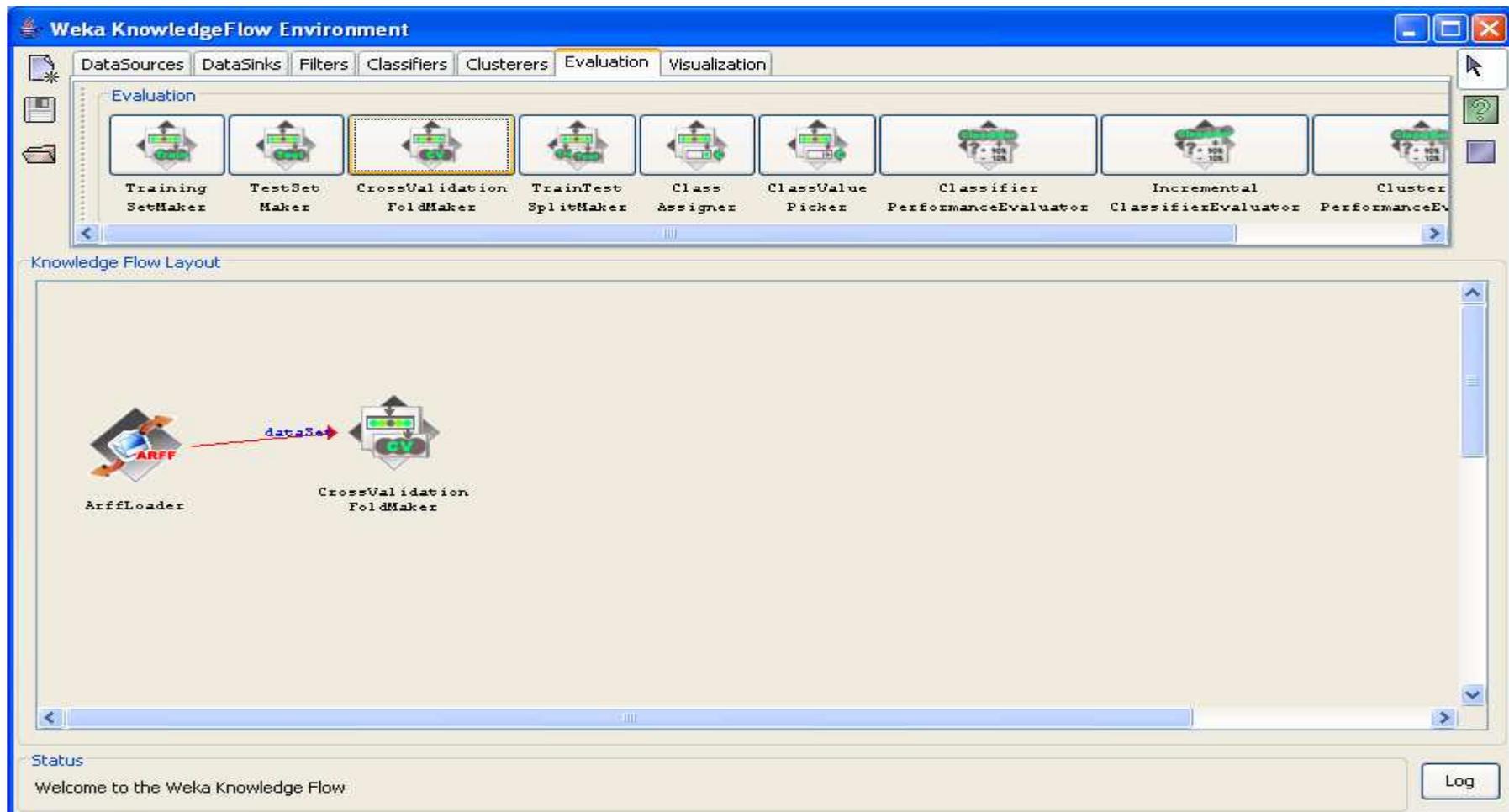
Click con el botón izquierdo, soltar, y click otra vez con el izquierdo en el lugar que queremos colocarlo

2. Configurar (botón derecho y configure)

3. Añadir crossvalidationfoldmaker (en Evaluation)



4. Crear conexión *dataset* del primer elemento al segundo (botón derecho en *arffloader*)



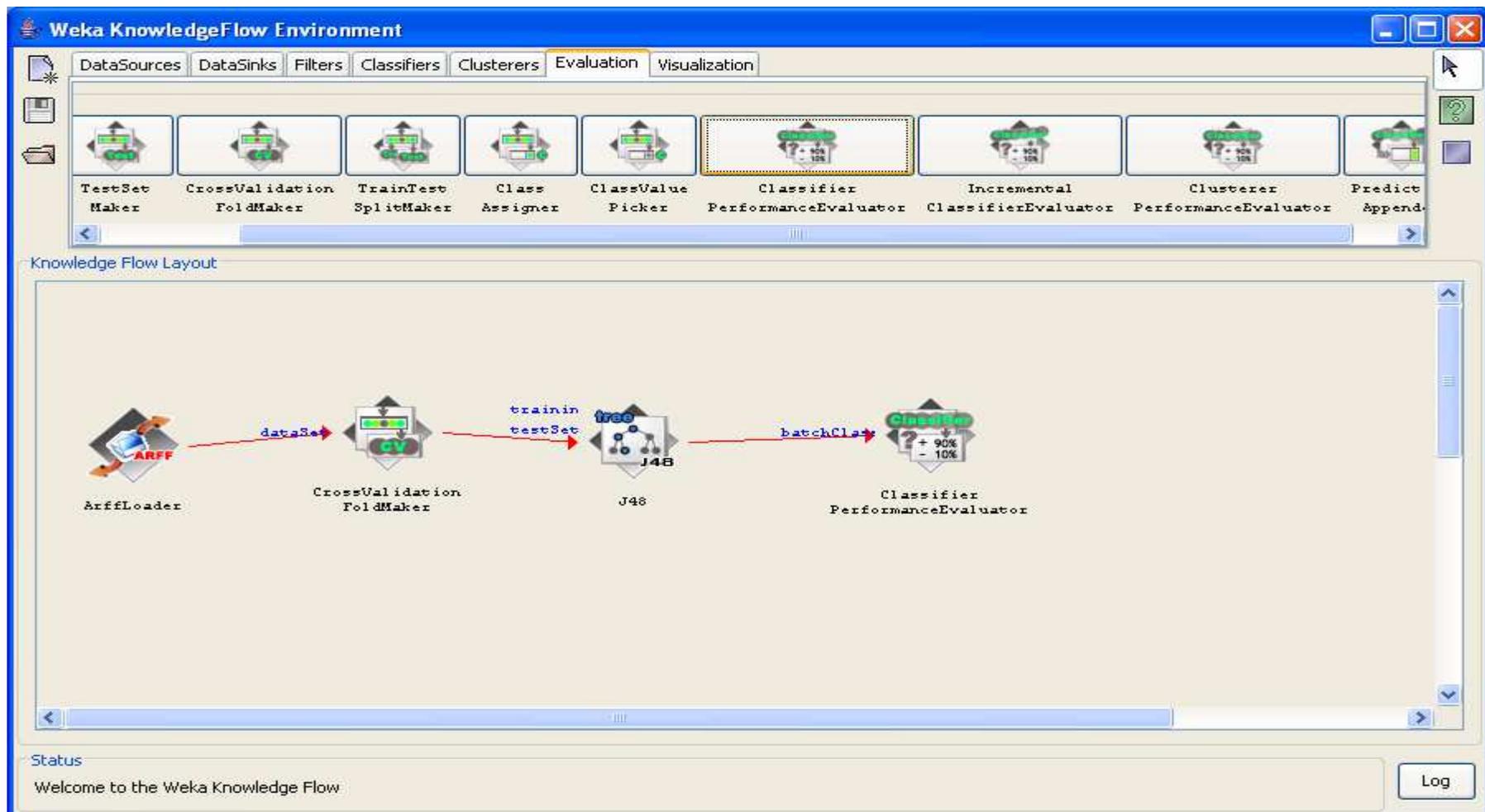
5. Añadir j48 de *classifiers*

The screenshot displays the Weka KnowledgeFlow Environment interface. At the top, there are tabs for DataSources, DataSinks, Filters, Classifiers, Clusterers, Evaluation, and Visualization. The 'Classifiers' tab is active, showing a palette of classifier icons. The 'trees' category is selected, and the 'J48' classifier icon is highlighted with a dashed border. Below the palette, the 'Knowledge Flow Layout' area shows a workflow with three nodes: 'ArffLoader', 'CrossValidation FoldMaker', and 'J48'. A red arrow labeled 'dataSink' points from 'ArffLoader' to 'CrossValidation FoldMaker'. The 'Status' bar at the bottom indicates 'Welcome to the Weka Knowledge Flow' and includes a 'Log' button.

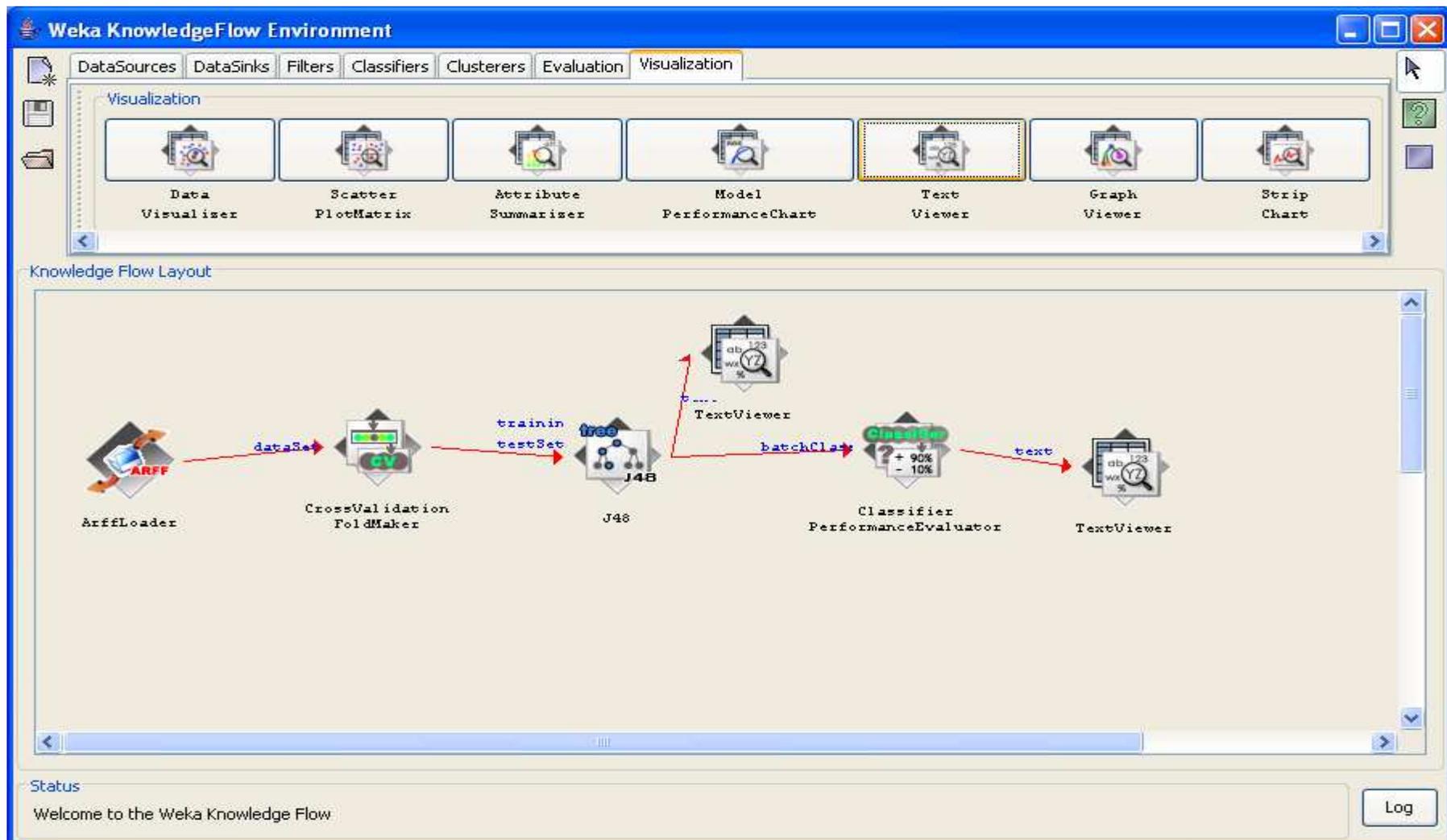
6. Crear conexiones training y test del segundo al tercer elemento

The screenshot displays the Weka KnowledgeFlow Environment interface. At the top, there is a menu bar with options: DataSources, DataSinks, Filters, Classifiers, Clusterers, Evaluation, and Visualization. Below the menu bar, there are two tabs: 'misc' and 'trees'. The 'trees' tab is active, showing a toolbar with various classifier icons: AD Tree, Decision Stump, Id3, J48 (highlighted with a dashed border), LMT, MSP, NB Tree, Random Forest, and Random Tree. Below the toolbar, the 'Knowledge Flow Layout' area shows a workflow diagram with three nodes: 'ArffLoader' (labeled 'ARFF'), 'CrossValidation FoldMaker' (labeled 'CV'), and 'J48' (labeled 'tree'). A red arrow labeled 'dataSet' connects 'ArffLoader' to 'CrossValidation FoldMaker', and another red arrow labeled 'trainin testSet' connects 'CrossValidation FoldMaker' to 'J48'. At the bottom, the 'Status' bar displays the message 'Welcome to the Weka Knowledge Flow' and a 'Log' button.

7. Añadir *classifier performance evaluator* (evaluation) y conectarlo con enlace *batchclassifier*

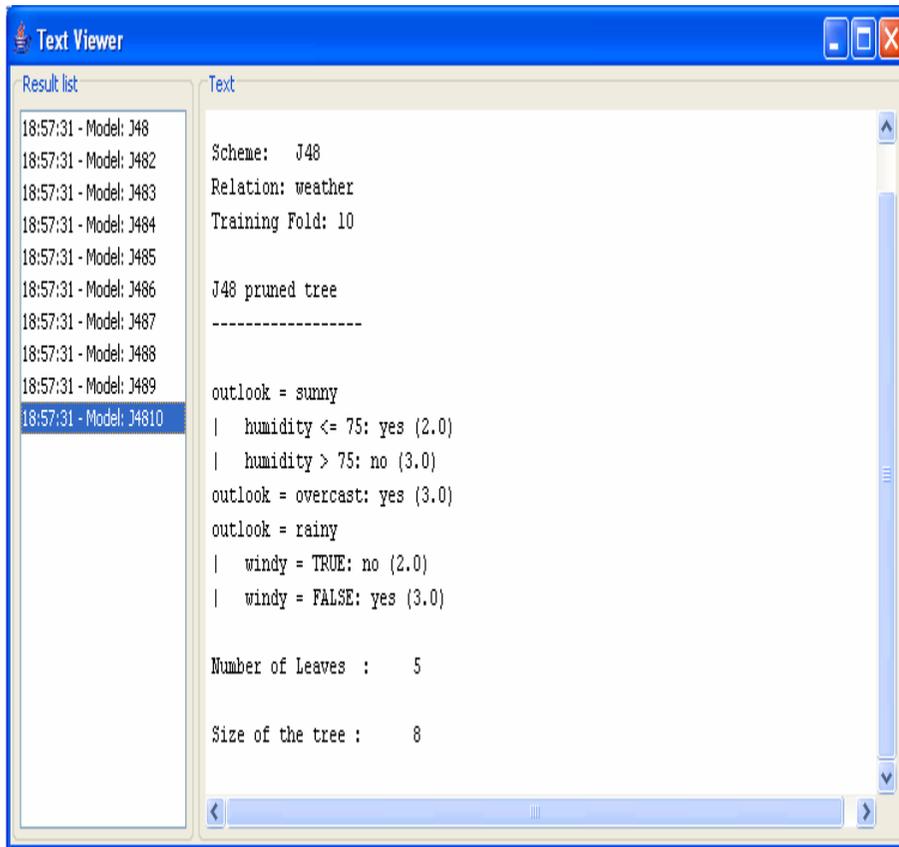


8. Añadir dos *textviewer* (de *visualizer*) y conectarlos con enlace *text*



9. Arrancar con *start loading* en *arffloader* (botón derecho)

10. Ver resultados en los dos visualizadores (*show results*)



Text Viewer

Result list

- 18:57:31 - Model: 348
- 18:57:31 - Model: 3482
- 18:57:31 - Model: 3483
- 18:57:31 - Model: 3484
- 18:57:31 - Model: 3485
- 18:57:31 - Model: 3486
- 18:57:31 - Model: 3487
- 18:57:31 - Model: 3488
- 18:57:31 - Model: 3489
- 18:57:31 - Model: 34810

Text

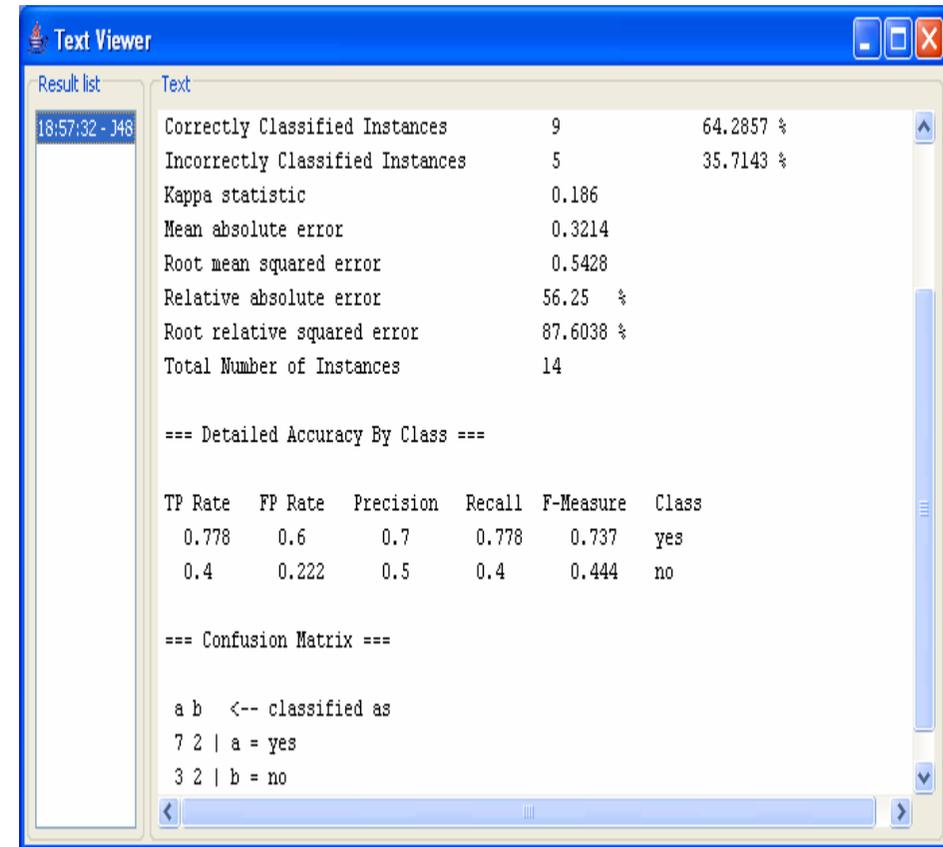
Scheme: J48
Relation: weather
Training Fold: 10

J48 pruned tree

outlook = sunny
| humidity <= 75: yes (2.0)
| humidity > 75: no (3.0)
outlook = overcast: yes (3.0)
outlook = rainy
| windy = TRUE: no (2.0)
| windy = FALSE: yes (3.0)

Number of Leaves : 5

Size of the tree : 8



Text Viewer

Result list

- 18:57:32 - 348

Text

Correctly Classified Instances 9 64.2857 %
Incorrectly Classified Instances 5 35.7143 %
Kappa statistic 0.186
Mean absolute error 0.3214
Root mean squared error 0.5428
Relative absolute error 56.25 %
Root relative squared error 87.6038 %
Total Number of Instances 14

=== Detailed Accuracy By Class ===

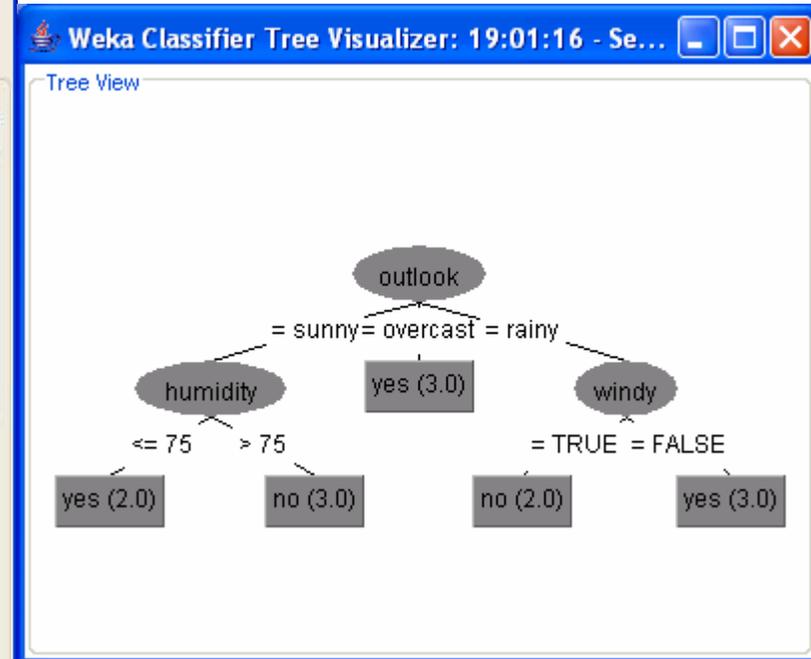
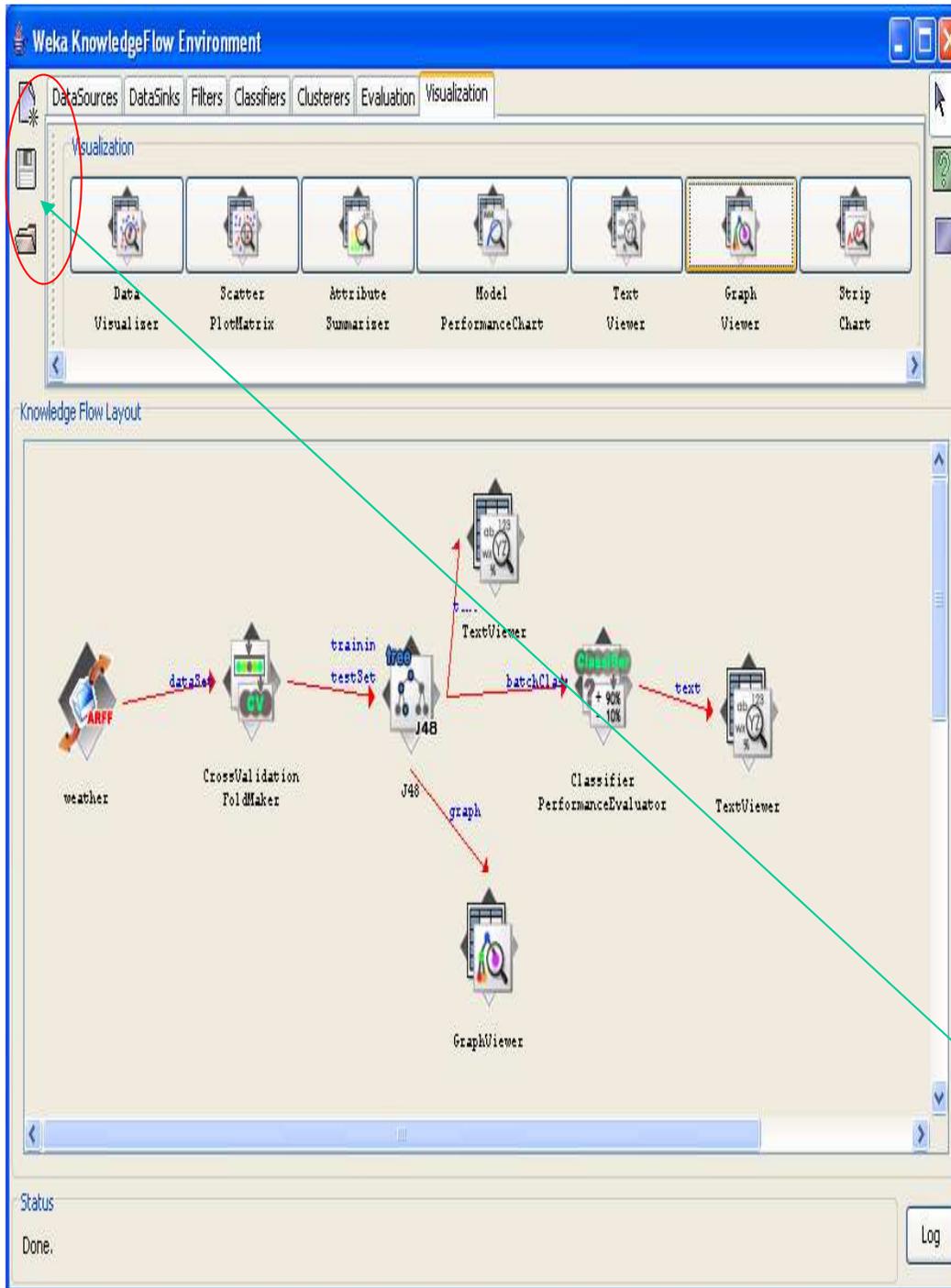
TP Rate	FP Rate	Precision	Recall	F-Measure	Class
0.778	0.6	0.7	0.778	0.737	yes
0.4	0.222	0.5	0.4	0.444	no

=== Confusion Matrix ===

a b <-- classified as

7 2 | a = yes
3 2 | b = no

Graphviewer



Borrar, salvar y cargar layout

Para construir un árbol con todos los datos

