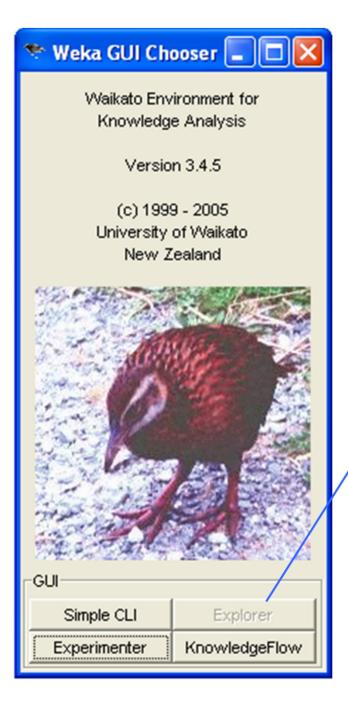
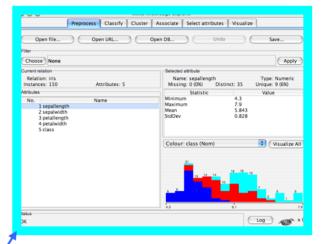
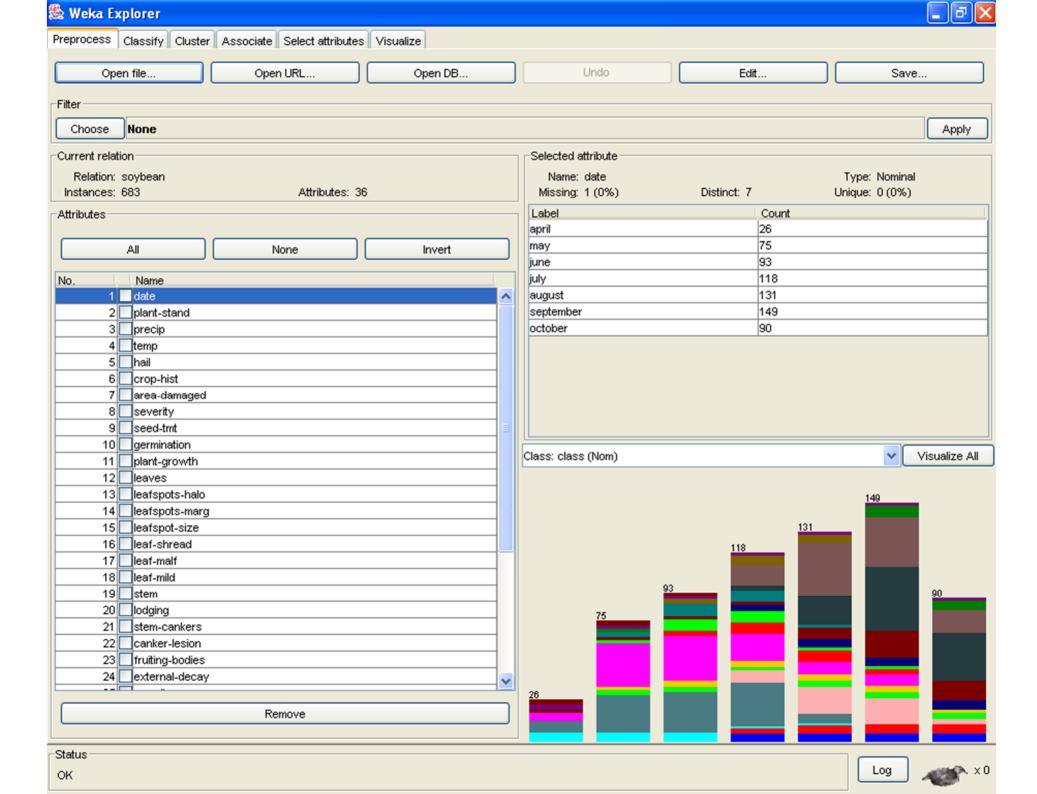
## Data Mining with WEKA (Mining Association Rules)

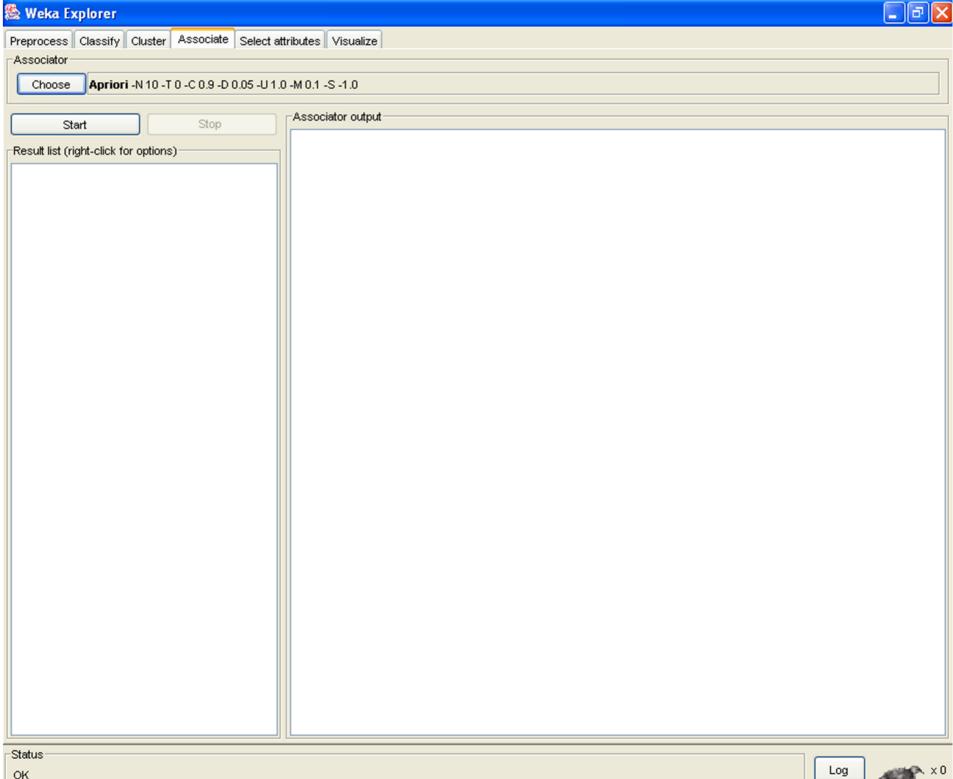
## Explorer: finding associations

- WEKA contains an implementation of the Apriori algorithm for learning association rules
  - Works only with discrete data
- Can identify statistical dependencies between groups of attributes:
  - milk, butter ⇒ bread, eggs (with confidence 0.9 and support 2000)
- Apriori can compute all rules that have a given minimum support and exceed a given confidence

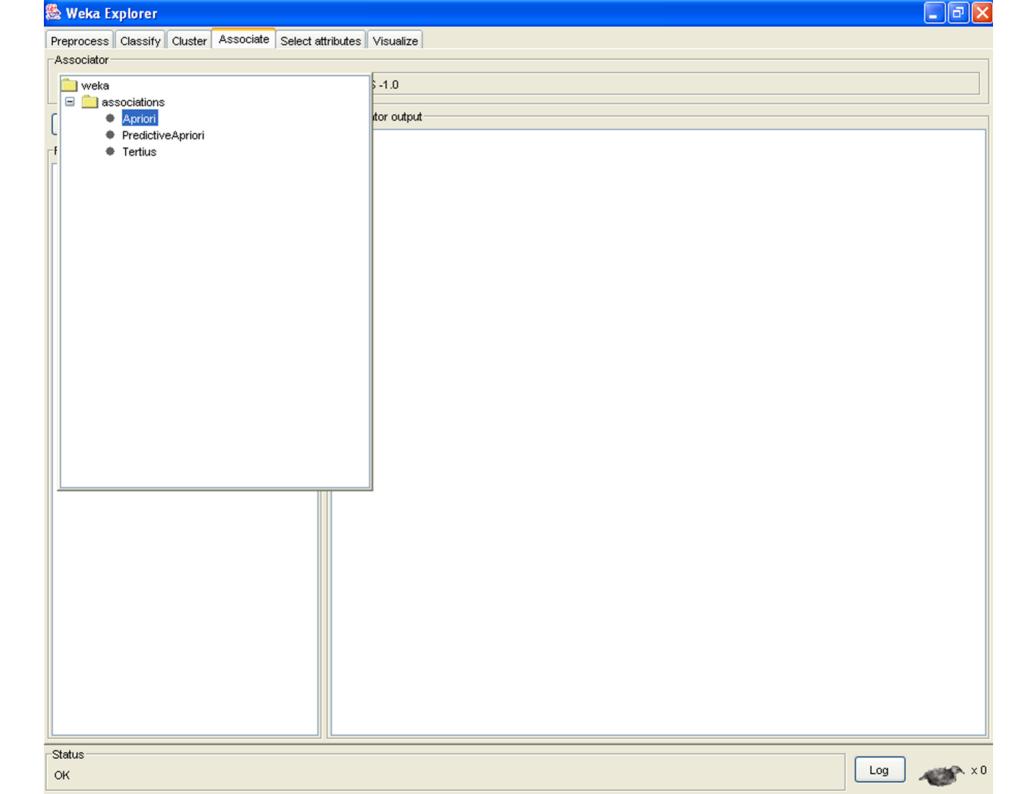


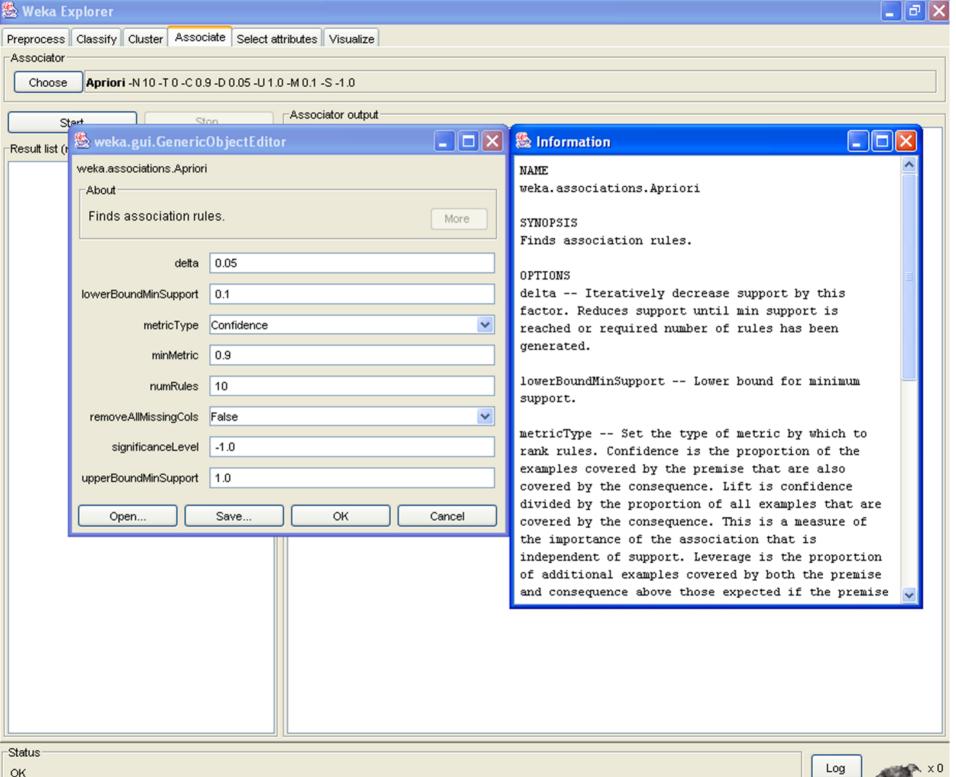


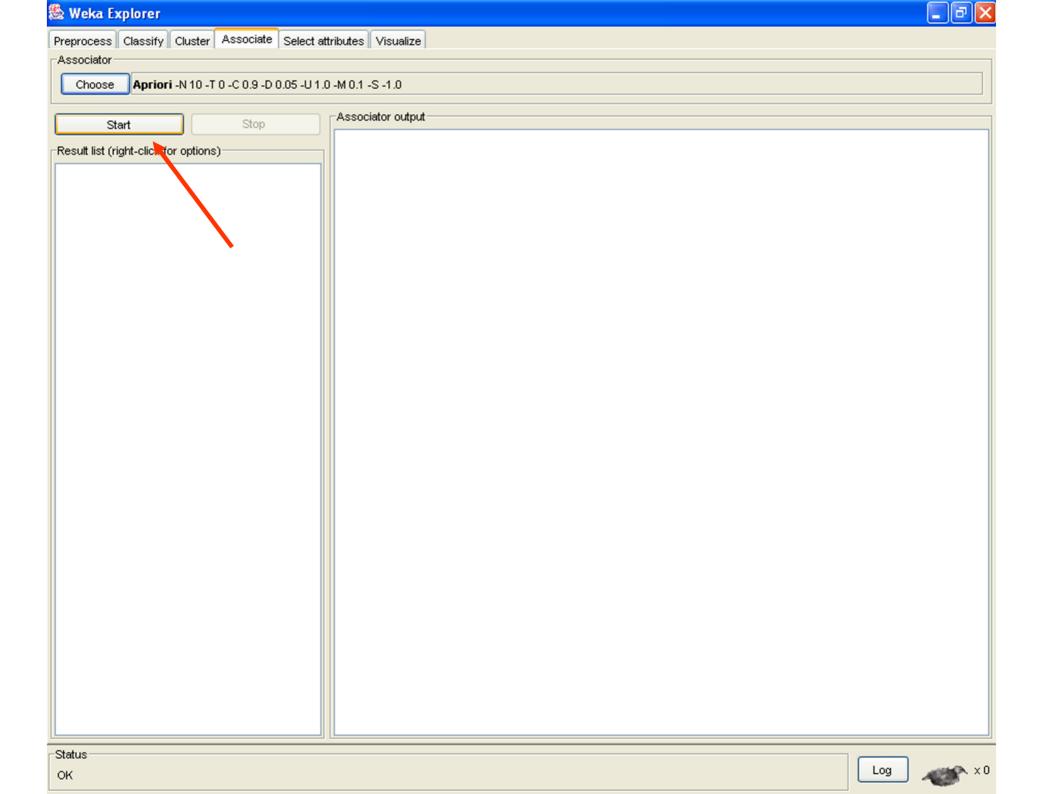


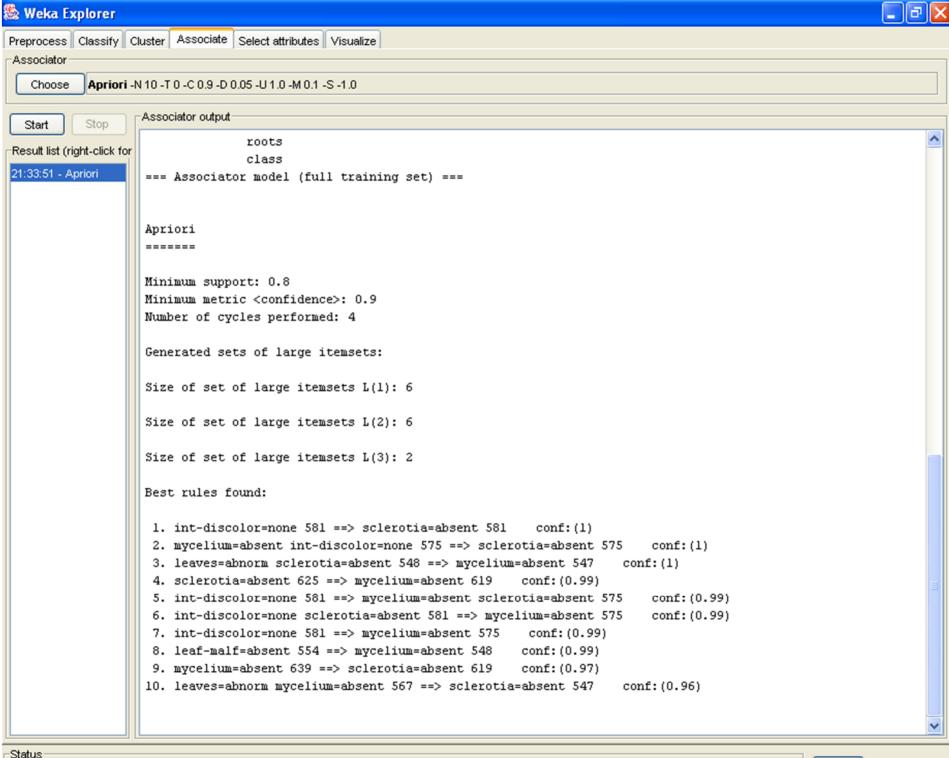








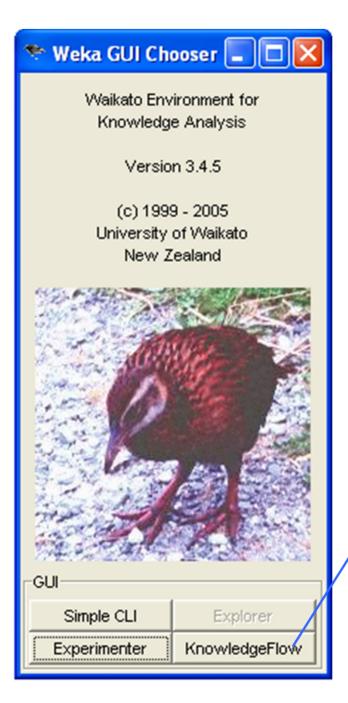


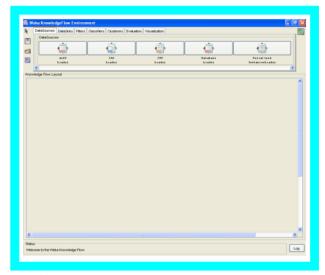


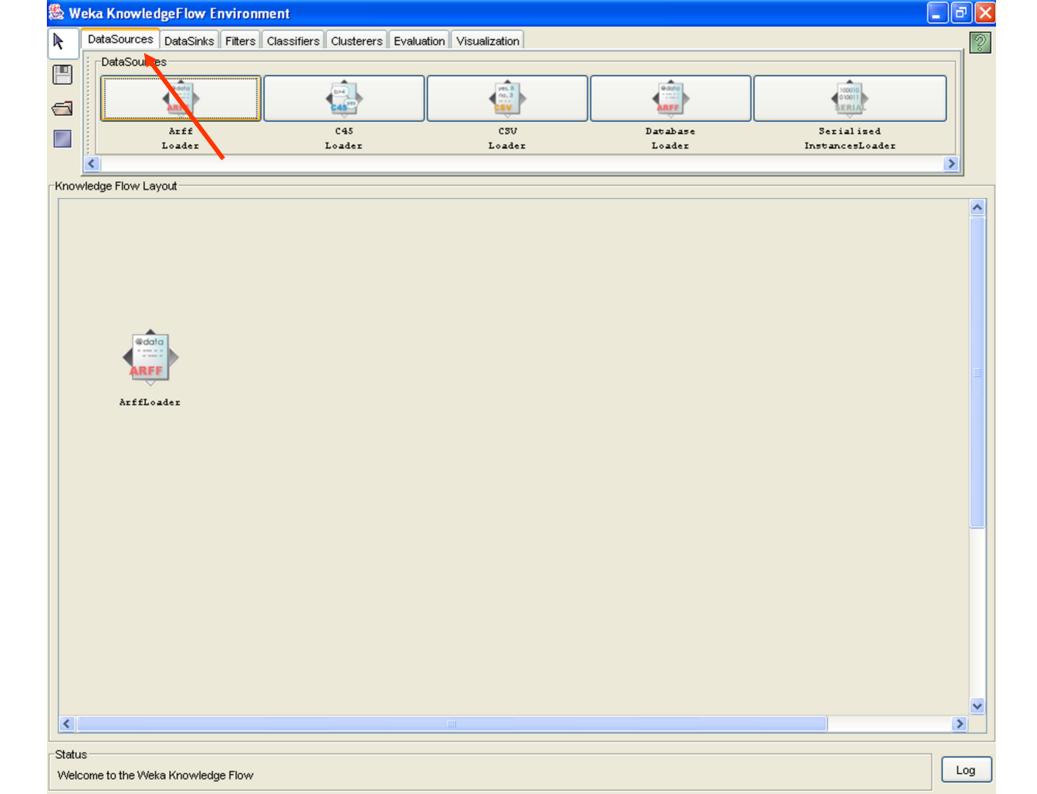
## Data Mining with WEKA (Knowledge Flow GUI)

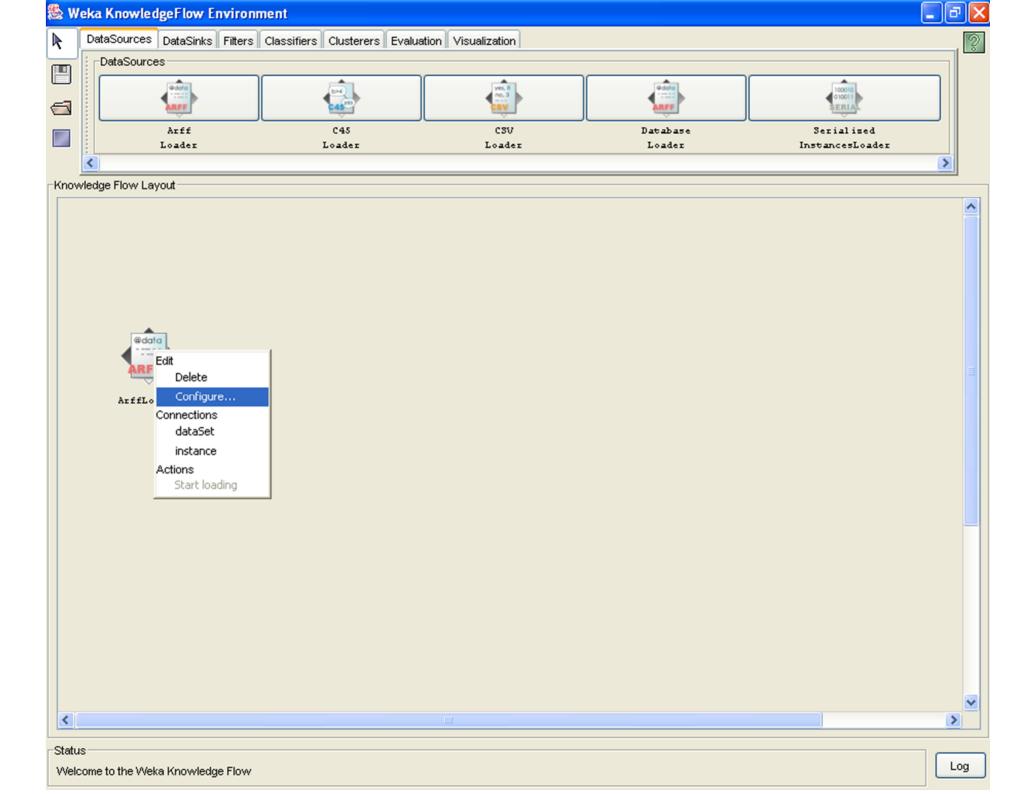
## The Knowledge Flow GUI

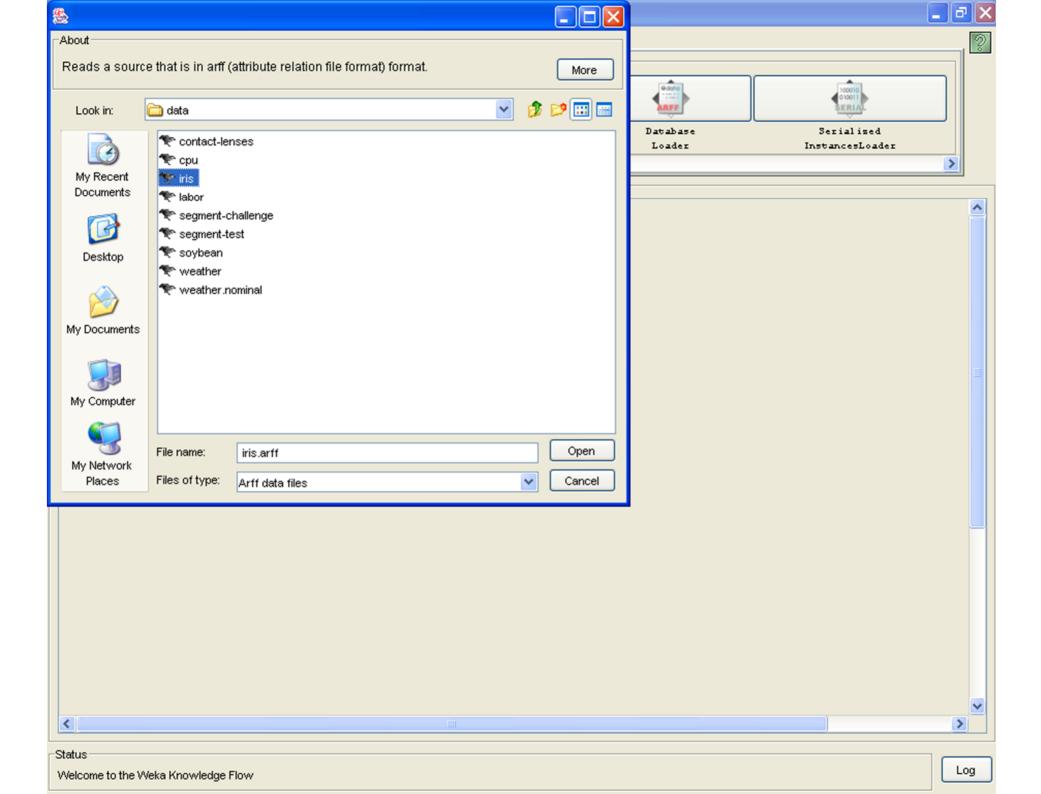
- Graphical user interface for WEKA
- Java-Beans-based interface for setting up and running machine learning experiments
- Data sources, classifiers, etc. are beans and can be connected graphically
- Data "flows" through components: e.g., "data source" -> "filter" -> "classifier" -> "evaluator"
- Layouts can be saved and loaded again later

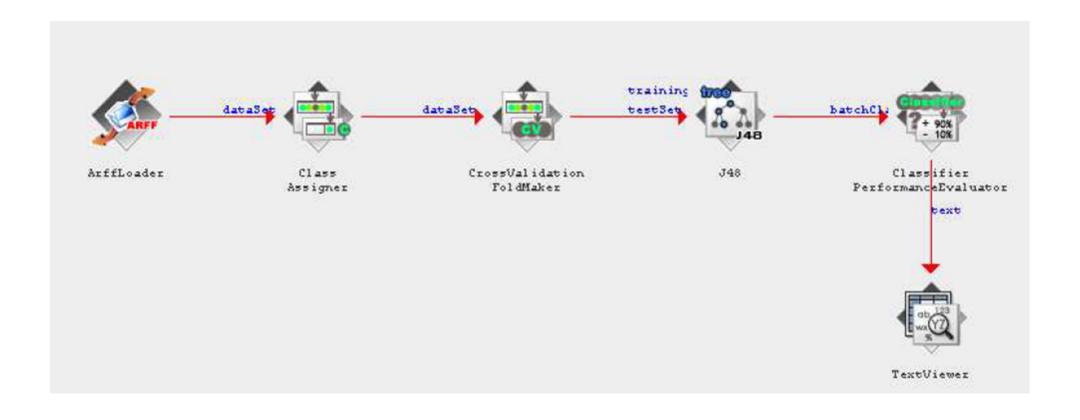


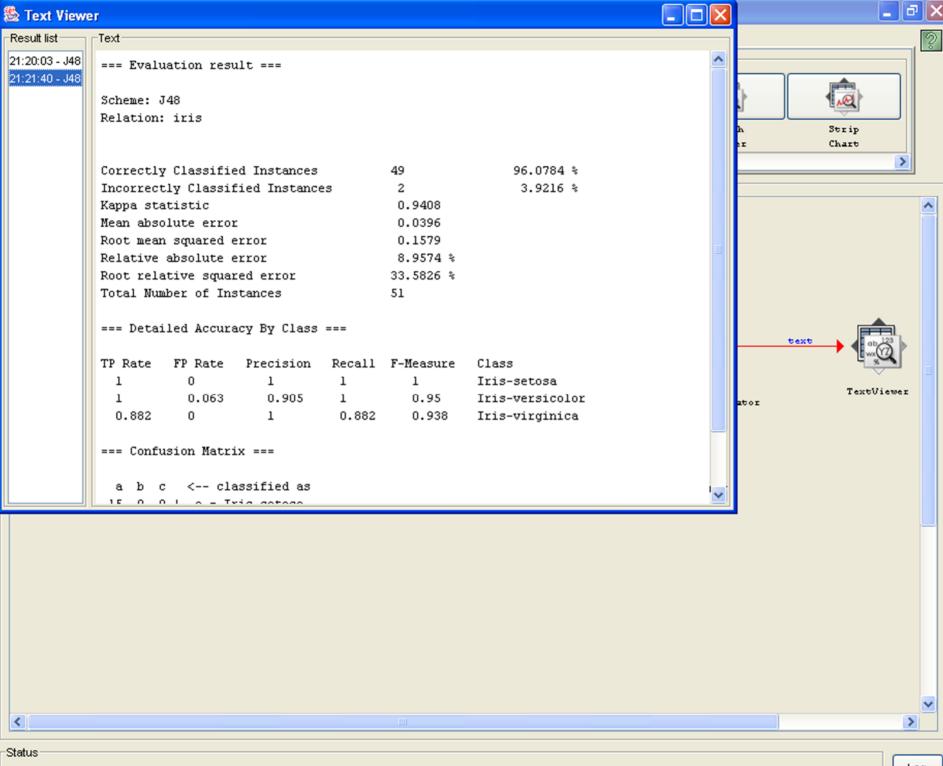












Done.

Log