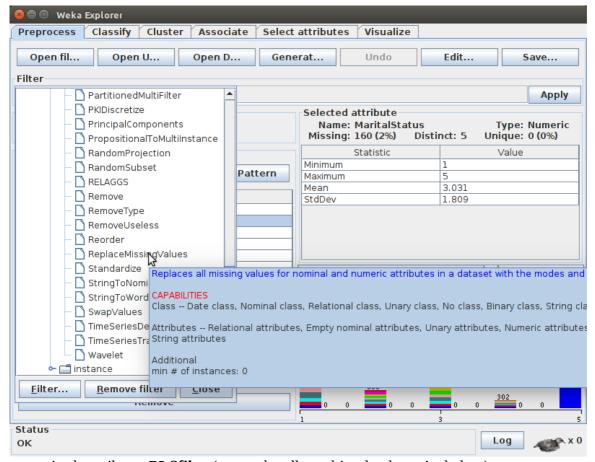
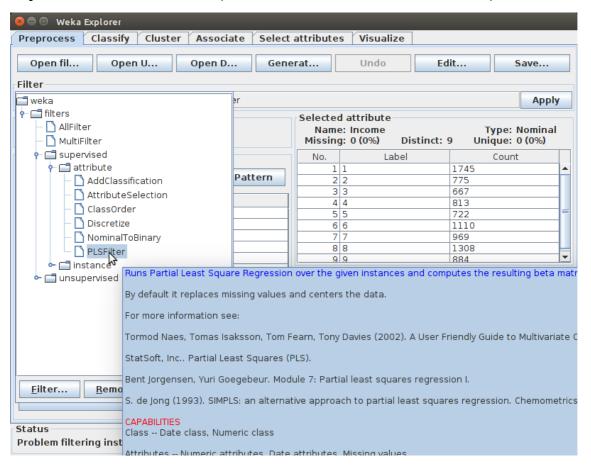
1.Pre-Process Missing Values

Preprocess(tab)

filter(choose)>unsupervised>attribute>ReplaceMissingValues



supervised>attribute>**PLSfilter**(cannot handle multi-valued nominal class)



2. Attribute Filter Option

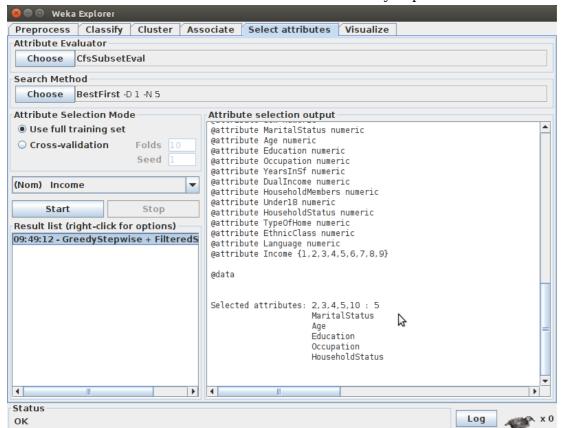
Select Attributes(tab)

Status

Attribute Evaluator:CfsSubsetEval Method:BestFirst 5 selected in 14 Preprocess Classify Cluster Associate Select attributes Visualize Attribute Evaluator Choose CfsSubsetEval Search Method Choose BestFirst -D 1 -N 5 **Attribute Selection Mode** Attribute selection output Use full training set Cross-validation Folds 10 Seed === Attribute Selection on all input data === Search Method: (Nom) Income Best first. Start set: no attributes **Ştart** Stop Search direction: forward Stale search after 5 node expansions Total number of subsets evaluated: 88 Result list (right-click for options) 09:39:04 - BestFirst + CfsSubsetEval Merit of best subset found: Attribute Subset Evaluator (supervised, Class (nominal): 14 Income): CFS Subset Evaluator Including locally predictive attributes Selected attributes: 2,3,4,5,10 : 5 MaritalStatus Education Occupation HouseholdStatus

Attribute Evaluator:FilteredSubsetEval Method:GreedyStepWise 5 selected in 14

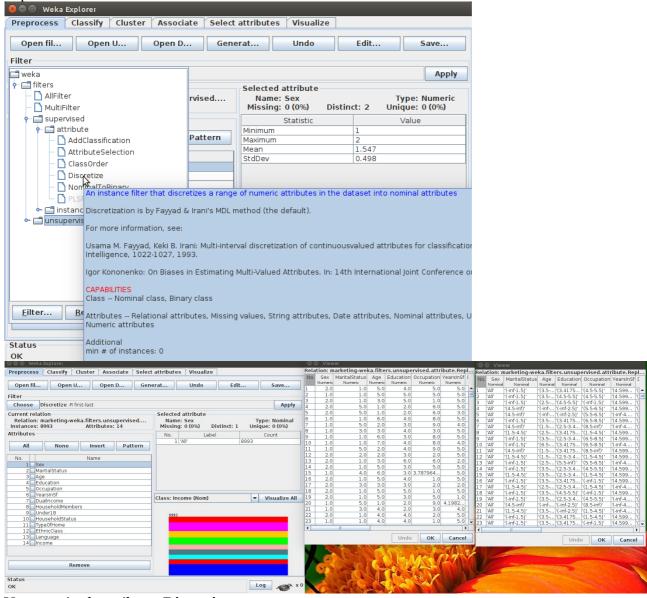
Log



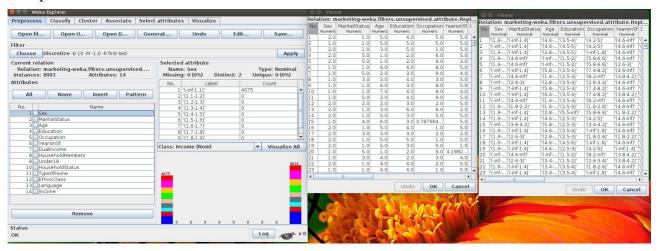
3. Discretization

Preprocess(tab)

Supervised>attribute>**Discretize**

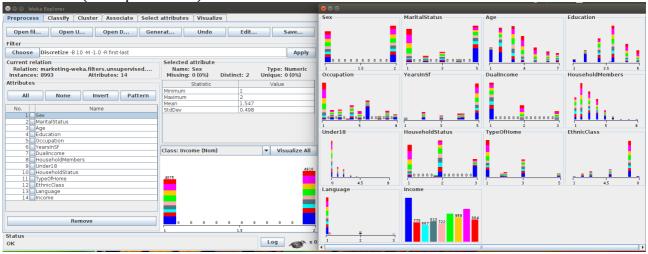


Unsupervised>attribute>**Discretize**

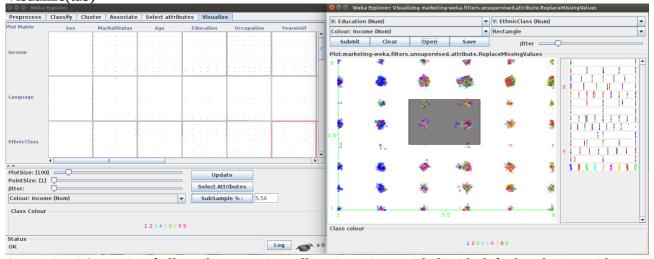


4. Visualize

Visualize all(in Preprocess tab)



Visualize(tab)

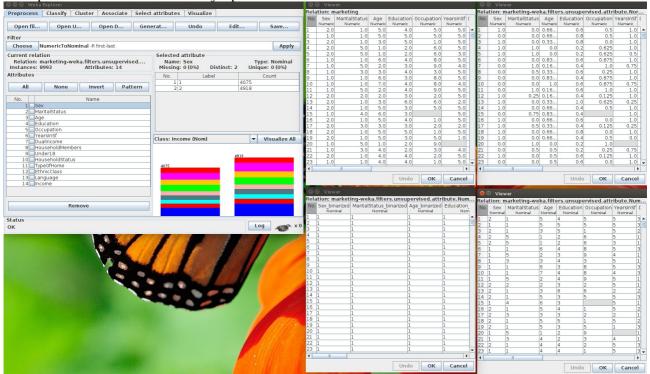


(LEFT img)A matrix of all attributes against alla ttriutes is provided(with default coloring with CLASS attribute), options to play with the visualization are provided at the bottom (RIGHT img)Selecting any section gives a closer look onto the data, with a flexible options, like hanging X, Y axes, selecting a region(from Select Instance-(here used Rectangle))

5. Data Transformation

Preprocess(tab)

Unsupervised>attribute has many options for data transformation



- 1.Original
- 2.Normalize
- 3.NumericToBinary
- 4.NumericToNominal

6. Attribute Selection

Preprocess(tab)

supervised.attribute.AttributeSelection

Default Evaluator:CfsSubsetEval method:BestFit

