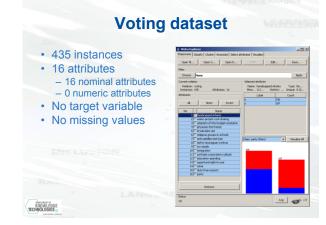
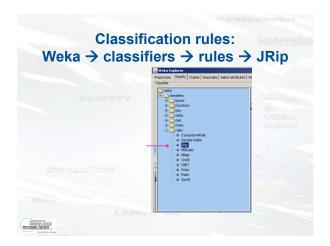
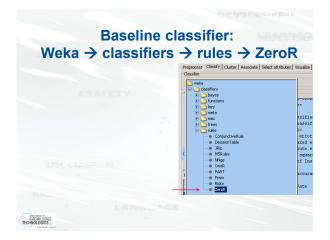
## Hands on Weka Classification and Association Rules















Comparison of classification and
association rules
<ul> <li>Purpose         <ul> <li>Classification rules: classification</li> <li>Association rules: exploratory data analysis, descriptive induction</li> </ul> </li> </ul>
<ul> <li>Format         <ul> <li>Both in the format X → Y</li> <li>Classification rules: Y is a pair "target variable=class"</li> </ul> </li> </ul>
<ul> <li>Association rules: both X and Y are itemsets = conjunctions of attribute- value pairs</li> <li>Quality measure</li> </ul>
Classification rules: classification accuracy of the ruleset, precision, rule accuracy, weighted relative accuracy     Association rules: support, confidence, lift, leverage, conviction
Ruleset / List of rules     Classification rules: can be both: unordered sets of rules or ordered list     of rules     Association rules: unordered set of rules
Exhaustiveness of algorithms     Classification rules: heuristic algorithms     Association rules: exhaustive algorithms, guarantee the optimal results