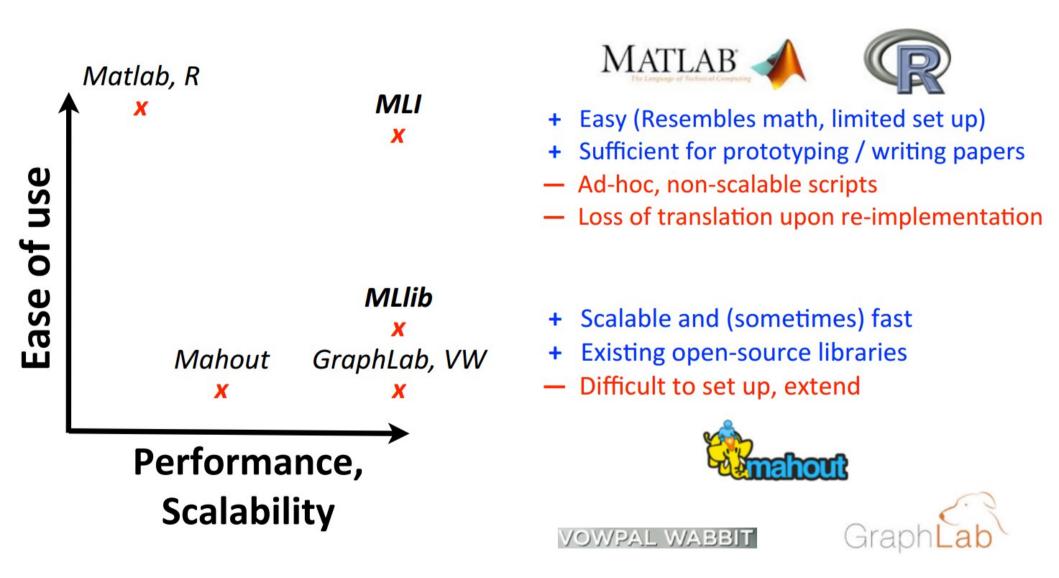
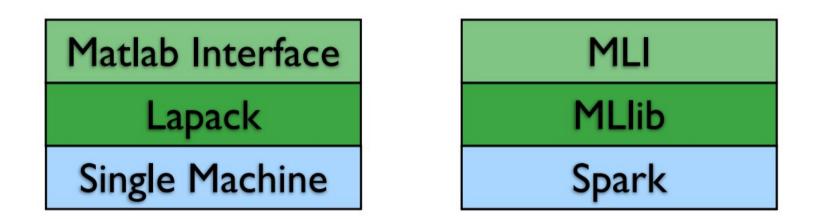


### Mlbase: distributed machine learning system Adapted slides from mlbase.org

# Lay of the Land



### **MLbase Stack**



Spark: cluster computing system designed for iterative computation

MLlib: low-level ML library in Spark

MLI: API / platform for feature extraction and algorithm development

Platform independent

## MLI Ease of Use

#### **Logistic Regression**

System	Lines of Code
Matlab	11
Vowpal Wabbit	721
MLI	55

#### **Alternating Least Squares**

System	Lines of Code
Matlab	20
Mahout	865
GraphLab	383
MLI	32

# **Typical Data Analysis Workflow**

