# Download and Install

Download the weka package (stable version):

[http://www.cs.waikato.ac.nz/ml/weka/downloading.html](https://webmail.cdm.depaul.edu/owa/redir.aspx?C=Sji860xxtkypBRvTjdOxdl2v7VOip9EIyDW3M1BQ1CCP2blYx-CmxzbY7KhjAxq5gWsgVmCJgGc.&URL=http%3a%2f%2fwww.cs.waikato.ac.nz%2fml%2fweka%2fdownloading.html)

It's an easy to use GUI for doing machine learning. Follow the instructions for your OS.

# Getting Started

To launch: click on the .app icon for Mac, or in windows, click on the weka.jar file from the install directory. Then click on the “Explorer” button. You can load an arff file (their custom format) from the pre-process tab. Click on “Open file…”, pick the arff file, and you should see it load the file attributes in attributes pane. You can look at the distribution of the data for each attribute by clicking on it.

Before doing analysis of the data, it’s important you specify the “class” attribute using the right hand pane under “Preprocess”. This is the variable in the data that you are trying to predict. In a lot of the data files this will already be specified.

To use the different machine learning algorithms, you will need to use the “Classify” tab, even when doing regression (predicting a continuous attribute). To pick an algorithm, click on the “Choose” button. You’ll see a tree structure. The location of the different algorithms below are indicated with respect to this tree structure. To change any of the parameters for each algorithm, click on the text box to the right of the “Choose” button, that contains the name of the currently selected algorithm.

Please Do the Following Exercises in Weka:

Part 1: Introduction and Regression

<http://www.ibm.com/developerworks/opensource/library/os-weka1/index.html>

Part 2: Classification and Clustering

<http://www.ibm.com/developerworks/opensource/library/os-weka2/index.html>

Part 3: Nearest Neighbor. Please just do the first section and ignore the server side section.

<http://www.ibm.com/developerworks/opensource/library/os-weka3/index.html>