

# Example Run on Wine Dataset

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```
library(pracma)
library(igraph)

##
## Attaching package: 'igraph'
## The following objects are masked from 'package:stats':
##
##      decompose, spectrum
## The following object is masked from 'package:base':
##
##      union
source('functions.R')

X=read.csv('wine.csv',head=FALSE)
toss=X[,14]
X=X[,-14]

p=dim(X)[2]
for(i in 1:p){
  X[,i]=(X[,i]-mean(X[,i]))/sd(X[,i])
}

M=X[sample(178,3),] # Randomly initialize the centroids
l=t_wkmeans(X,M) # Example run

compare(toss,l[[1]],'nmi')

## [1] 0.8416799
compare(toss,l[[1]],'adjusted.rand')

## [1] 0.8536603
```