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Subject: k-mean clustering idl

Posted by [smnadoum](#) on Sun, 12 Feb 2017 23:13:55 GMT

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I was wondering if I could get some help on clustering in IDL. I found a good example on Harris Geospatial that explains the method, however, I am confused on how to run the clustering on my own data (ASCII) to perform the K-mean analysis. How can I use my data instead of the 'random' function that generates random numbers

Below is the code I found on Harris:

```
n = 50
c1 = RANDOMN(seed, 3, n)
c1[0:1,*] -= 3
c2 = RANDOMN(seed, 3, n)
c2[0,*] += 3
c2[1,*] -= 3
c3 = RANDOMN(seed, 3, n)
c3[1:2,*] += 3
array = [[c1], [c2], [c3]]
; Compute cluster weights, using three clusters:
weights = CLUST_WTS(array, N_CLUSTERS = 3)
; Compute the classification of each sample:
result = CLUSTER(array, weights, N_CLUSTERS = 3)
```

My data is in ASCII format and I have already wrote a code that opens and read ascii (below) but not sure how to run the k-mean clustering analysis on my data. I can't find good IDL resources that explains the clustering.

```
pro read_text, file, dir
```

```
dir='path'
file= 'path*file'
```

```
n = file_lines(file)
gv= fltarr(n)
npv= fltarr(n)
soil= fltarr(n)
gv0= 0.0
npv0= 0.0
soil0=0.0
```

```
openr, iunit, file, /get_lun
for i= 0, n-1 do begin
```

```
readf, iunit, gv0, npv0, soil0
```

```
gv[i]= gv0
```

```
npv[i]= npv0
soil[i]=soil0

endfor

free_lun, iunit

for i = 0, n-1 do print, gv[i], npv[i], soil[i]

mwell=gv[0,*,*] ;this doesn't work
mwell=gv[1,*,*]
mwell=gv[2,*,*]

end
```

Thank you.

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