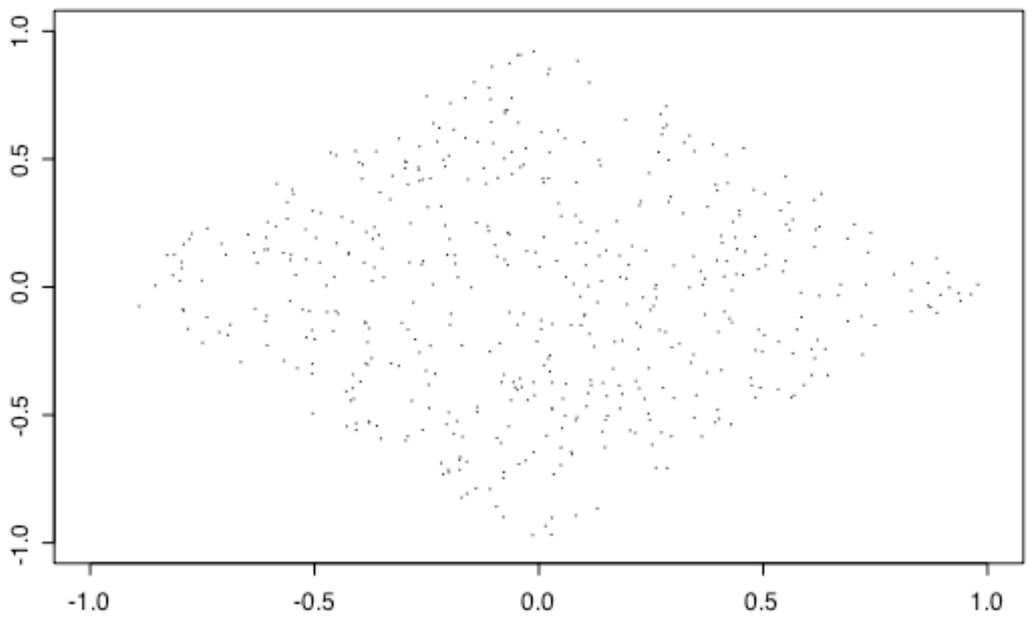
Quartz (2) – Active



diamond1.txt

```
## simulate randomly scattered pts in a diamond
## with vertices at (-1,0), (0,1), (1,0), (0,-1).

z = matrix(0,ncol=2,nrow=1200)
j=1
for(i in c(1:1200)){
    x = runif(1)*2-1
    y = runif(1)*2-1
    if(abs(x)+abs(y) < 1){
          z[j,] = c(x,y)
          j = j+1
          }
    }
j ## check that j > 500, so that you have kept at least 500 pts
z2 = z[1:500,]
plot(c(-1,0,1,0,-1),c(0,1,0,-1,0),type="n",xlab="",ylab="") ## sets axes
points(z2,pch=".")

## MAKE TEAMS:
name1 = c("a","b","c","d","e","f","g","h","i","j","k","l","m","n")

x = c("ChrisB", "SethB", "CoreyC", "AvinashC", "DavidC", "JeffC", "JesseC",
"AraD", "AmandaD", "MichaelD", "JasonG", "LiniG", "CoreyI","RafalJ",
"RyanK", "HoL", "LongL", "JamesL", "AnnaL", "ZiqiM", "ErikM",
"BenjaminN", "DaiN", "WooO", "ClaudiaP", "SamanthaS", "JiweiS", "SarahW",
"BrianY")

n = length(x)

teams = function(){
  y = x[sample(n)]
  for(i in 1:13){
    cat("\n", "team", name1[i], y[(2*i-1):(2*i)])
    }
  i = 14
  cat("\n", "team", name1[i], y[(2*i-1):(2*i+1)])
}

teams()
```

R Console

```
> runif(1)
[1] 0.2332241
> runif(5)
[1] 0.3188371 0.4050426 0.1720368 0.2629762 0.2697446
> sample(5)
[1] 4 3 2 1 5
> sample(5)
[1] 2 1 4 5 3
>
> z = matrix(0,ncol=2,nrow=1200)
> j=1
> for(i in c(1:1200)){
+     x = runif(1)*2-1
+     y = runif(1)*2-1
+     if(abs(x)+abs(y) < 1){
+           z[j,] = c(x,y)
+           j = j+1
+           }
+     }
> j ## check that j > 500, so that you have kept at least 500 pts
[1] 589
> z2 = z[1:500,]
> plot(c(-1,0,1,0,-1),c(0,1,0,-1,0),type="n",xlab="",ylab="") ## sets axes
> points(z2,pch=".")
>
> ## MAKE TEAMS:
> name1 = c("a","b","c","d","e","f","g","h","i","j","k","l","m","n")
>
> x = c("ChrisB", "SethB", "CoreyC", "AvinashC", "DavidC", "JeffC", "JesseC",
+ "AraD", "AmandaD", "MichaelD", "JasonG", "LiniG", "CoreyI","RafalJ",
+ "RyanK", "HoL", "LongL", "JamesL", "AnnaL", "ZiqiM", "ErikM",
+ "BenjaminN", "DaiN", "WooO", "ClaudiaP", "SamanthaS", "JiweiS", "SarahW",
+ "BrianY")
>
> n = length(x)
>
> teams = function(){
+   y = x[sample(n)]
+   for(i in 1:13){
+     cat("\n", "team", name1[i], y[(2*i-1):(2*i)])
+     }
+   i = 14
+   cat("\n", "team", name1[i], y[(2*i-1):(2*i+1)])
+ }
>
> teams()

 team a AraD SethB
 team b AnnaL AmandaD
 team c LiniG ErikM
 team d LongL CoreyC
 team e BenjaminN JamesL
 team f MichaelD ChrisB
 team g RafalJ JesseC
 team h DaiN DavidC
 team i JiweiS AvinashC
 team j SamanthaS ZiqiM
 team k WooO CoreyI
 team l RyanK JasonG
 team m BrianY HoL
 team n SarahW JeffC ClaudiaP
```

Macintosh HD

Firefox

Rick Paik Schoenberg's iPo

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