

Ttest_randomisation.R

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```
#####  
## Remember everything with a hash in front is a comment  
##  
## Example of Simple randomisation using R  
##  
## Our Experiment  
## We have two treatments (Variety A and Variety B)  
## and we have 10 plots of land on the research station  
##  
## in a completely randomised design with two treatments  
## It will be analysed as a two sample t test  
#####  
## The steps in this code:  
## set a random seed  
## specify the factor  
## specify the replications  
## sample the factor (fac) object ten times  
## set experimental units (eu) to 10  
## make a fieldplan of a randomisation  
## save the random treatment association to a csv.file  
## the fieldplan results are printed in the Console  
  
set.seed(7638)  
f <- as.factor( rep( c("VarietyA","VarietyB"), each = 5))  
fac <- sample(f, 10)  
eu <- 1:10  
fieldplan <- data.frame(plot=eu, variety=fac)  
write.csv(fieldplan, file= "fieldplan.csv", row.names =FALSE)  
  
## print the randomised plan to the console  
fieldplan
```

```
## plot variety  
## 1 1 VarietyB  
## 2 2 VarietyB  
## 3 3 VarietyA  
## 4 4 VarietyA  
## 5 5 VarietyB  
## 6 6 VarietyA  
## 7 7 VarietyA  
## 8 8 VarietyA  
## 9 9 VarietyB  
## 10 10 VarietyB
```

```
## make sure you understand the result:
```

```
## you will have three columns:  
## the firsts column is the row number  
## the second column is the Plot number  
## the third column is the randomised variety (A or B).
```

```
## Copy take into Excel  
## or read teh csv file into excel  
## and put the randomised varieties  
## onto your field plan (in the correct plots)
```

```
## If you change the seed number and run again  
## your randomisation will be different
```

```
#####End of code#####
```