Hardseeds 6CV

CT

Thursday, FEbruary 3, 2015

library (lubridate)

##   
## Attaching package: 'lubridate'

## The following object is masked from 'package:base':  
##   
## date

library(tidyr)  
library (dplyr)

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:lubridate':  
##   
## intersect, setdiff, union

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

library (ggplot2)  
library(agricolae)  
library(knitr)  
library(rgr)

## Warning: package 'rgr' was built under R version 3.3.2

## Loading required package: MASS

##   
## Attaching package: 'MASS'

## The following object is masked from 'package:dplyr':  
##   
## select

## Loading required package: fastICA

## Warning: package 'fastICA' was built under R version 3.3.2

setwd("C:\\Users\\EdCarmen\\Documents\\CarmenProjects2016\\Gitsubclover\\Hardseeds")  
getwd()

## [1] "C:/Users/EdCarmen/Documents/CarmenProjects2016/GitSubclover/Hardseeds"

#create file  
df\_seed <- read.table("HardseedsData.txt",header=TRUE)  
head(df\_seed)

## Block Cultivar SowTreat SowingD Plot Depth Date Round  
## 1 1 Antas S1 24/06/2015 1 surface 16/02/2016 1  
## 2 1 Monti S1 24/06/2015 2 surface 16/02/2016 1  
## 3 1 Denmark S1 24/06/2015 3 surface 16/02/2016 1  
## 4 1 Leura S1 24/06/2015 4 surface 16/02/2016 1  
## 5 1 Narrikup S1 24/06/2015 5 surface 16/02/2016 1  
## 6 1 Woogenellup S1 24/06/2015 6 surface 16/02/2016 1  
## InitialSeedlotR1Number SeedNumber Soft  
## 1 50 50 7  
## 2 50 50 6  
## 3 50 50 7  
## 4 50 50 2  
## 5 50 50 2  
## 6 50 50 9

summary(df\_seed)

## Block Cultivar SowTreat SowingD Plot   
## Min. :1 Antas :156 S1:216 15/03/2016: 36 Min. : 1.00   
## 1st Qu.:1 Denmark :156 S2:216 15/09/2015:216 1st Qu.: 20.00   
## Median :2 Leura :156 S3:216 17/02/2016: 36 Median : 39.50   
## Mean :2 Monti :156 S4:216 24/06/2015:216 Mean : 42.04   
## 3rd Qu.:3 Narrikup :156 S6: 36 28/07/2015:216 3rd Qu.: 59.00   
## Max. :3 Woogenellup:156 S7: 36 5/11/2015 :216 Max. :126.00   
##   
## Depth Date Round InitialSeedlotR1Number  
## buried :468 06/07/16 :180 Min. :1.000 Min. : 5.00   
## surface:468 25/06/2016: 72 1st Qu.:2.000 1st Qu.:50.00   
## 01/02/17 : 36 Median :3.000 Median :50.00   
## 09/03/16 : 36 Mean :3.308 Mean :49.49   
## 09/08/16 : 36 3rd Qu.:5.000 3rd Qu.:50.00   
## 1/09/2016 : 36 Max. :6.000 Max. :50.00   
## (Other) :540   
## SeedNumber Soft   
## Min. : 0.00 Min. : 0.000   
## 1st Qu.:29.00 1st Qu.: 1.000   
## Median :37.00 Median : 4.000   
## Mean :35.56 Mean : 8.861   
## 3rd Qu.:45.00 3rd Qu.:12.000   
## Max. :50.00 Max. :48.000   
##

df\_seed %>%  
 filter(Plot==1)

## Block Cultivar SowTreat SowingD Plot Depth Date Round  
## 1 1 Antas S1 24/06/2015 1 surface 16/02/2016 1  
## 2 1 Antas S1 24/06/2015 1 buried 16/02/2016 1  
## 3 1 Antas S1 24/06/2015 1 surface 09/03/16 2  
## 4 1 Antas S1 24/06/2015 1 buried 09/03/16 2  
## 5 1 Antas S1 24/06/2015 1 surface 13/05/2016 3  
## 6 1 Antas S1 24/06/2015 1 buried 13/05/2016 3  
## 7 1 Antas S1 24/06/2015 1 surface 3/06/2016 4  
## 8 1 Antas S1 24/06/2015 1 buried 3/06/2016 4  
## 9 1 Antas S1 24/06/2015 1 surface 25/06/2016 5  
## 10 1 Antas S1 24/06/2015 1 buried 25/06/2016 5  
## 11 1 Antas S1 24/06/2015 1 surface 16/08/2016 6  
## 12 1 Antas S1 24/06/2015 1 buried 16/08/2016 6  
## InitialSeedlotR1Number SeedNumber Soft  
## 1 50 50 7  
## 2 24 24 5  
## 3 50 43 7  
## 4 24 19 4  
## 5 50 36 2  
## 6 24 15 1  
## 7 50 34 2  
## 8 24 14 0  
## 9 50 32 3  
## 10 24 14 2  
## 11 50 29 29  
## 12 24 12 12

# Jeito 1 de trocar formato (usando base R)  
df\_seed$Date <- dmy(df\_seed$Date)  
  
# jeito 2 de trocar formato (usando dplyr)  
df\_seed <- df\_seed %>%  
 mutate(Plot = as.factor(Plot), Block = as.factor(Block)) %>%  
# mutate(Soft = as.numeric(Soft)) %>%  
 mutate(PropSoft = round(Soft/max(SeedNumber)\*100,digits=2))  
  
summary(df\_seed) # explore values

## Block Cultivar SowTreat SowingD Plot   
## 1:312 Antas :156 S1:216 15/03/2016: 36 1 : 12   
## 2:312 Denmark :156 S2:216 15/09/2015:216 2 : 12   
## 3:312 Leura :156 S3:216 17/02/2016: 36 3 : 12   
## Monti :156 S4:216 24/06/2015:216 4 : 12   
## Narrikup :156 S6: 36 28/07/2015:216 5 : 12   
## Woogenellup:156 S7: 36 5/11/2015 :216 6 : 12   
## (Other):864   
## Depth Date Round InitialSeedlotR1Number  
## buried :468 Min. :0016-03-09 Min. :1.000 Min. : 5.00   
## surface:468 1st Qu.:0016-07-17 1st Qu.:2.000 1st Qu.:50.00   
## Median :2016-04-14 Median :3.000 Median :50.00   
## Mean :1170-05-17 Mean :3.308 Mean :49.49   
## 3rd Qu.:2016-06-25 3rd Qu.:5.000 3rd Qu.:50.00   
## Max. :2016-09-25 Max. :6.000 Max. :50.00   
##   
## SeedNumber Soft PropSoft   
## Min. : 0.00 Min. : 0.000 Min. : 0.00   
## 1st Qu.:29.00 1st Qu.: 1.000 1st Qu.: 2.00   
## Median :37.00 Median : 4.000 Median : 8.00   
## Mean :35.56 Mean : 8.861 Mean :17.72   
## 3rd Qu.:45.00 3rd Qu.:12.000 3rd Qu.:24.00   
## Max. :50.00 Max. :48.000 Max. :96.00   
##

str(df\_seed) # check formats

## 'data.frame': 936 obs. of 12 variables:  
## $ Block : Factor w/ 3 levels "1","2","3": 1 1 1 1 1 1 2 2 2 2 ...  
## $ Cultivar : Factor w/ 6 levels "Antas","Denmark",..: 1 4 2 3 5 6 1 6 2 4 ...  
## $ SowTreat : Factor w/ 6 levels "S1","S2","S3",..: 1 1 1 1 1 1 1 1 1 1 ...  
## $ SowingD : Factor w/ 6 levels "15/03/2016","15/09/2015",..: 4 4 4 4 4 4 4 4 4 4 ...  
## $ Plot : Factor w/ 108 levels "1","2","3","4",..: 1 2 3 4 5 6 7 8 9 10 ...  
## $ Depth : Factor w/ 2 levels "buried","surface": 2 2 2 2 2 2 2 2 2 2 ...  
## $ Date : Date, format: "2016-02-16" "2016-02-16" ...  
## $ Round : int 1 1 1 1 1 1 1 1 1 1 ...  
## $ InitialSeedlotR1Number: int 50 50 50 50 50 50 50 50 50 50 ...  
## $ SeedNumber : int 50 50 50 50 50 50 50 50 50 50 ...  
## $ Soft : int 7 6 7 2 2 9 6 5 10 7 ...  
## $ PropSoft : num 14 12 14 4 4 18 12 10 20 14 ...

head(df\_seed) # see to rows

## Block Cultivar SowTreat SowingD Plot Depth Date Round  
## 1 1 Antas S1 24/06/2015 1 surface 2016-02-16 1  
## 2 1 Monti S1 24/06/2015 2 surface 2016-02-16 1  
## 3 1 Denmark S1 24/06/2015 3 surface 2016-02-16 1  
## 4 1 Leura S1 24/06/2015 4 surface 2016-02-16 1  
## 5 1 Narrikup S1 24/06/2015 5 surface 2016-02-16 1  
## 6 1 Woogenellup S1 24/06/2015 6 surface 2016-02-16 1  
## InitialSeedlotR1Number SeedNumber Soft PropSoft  
## 1 50 50 7 14  
## 2 50 50 6 12  
## 3 50 50 7 14  
## 4 50 50 2 4  
## 5 50 50 2 4  
## 6 50 50 9 18

tail(df\_seed)

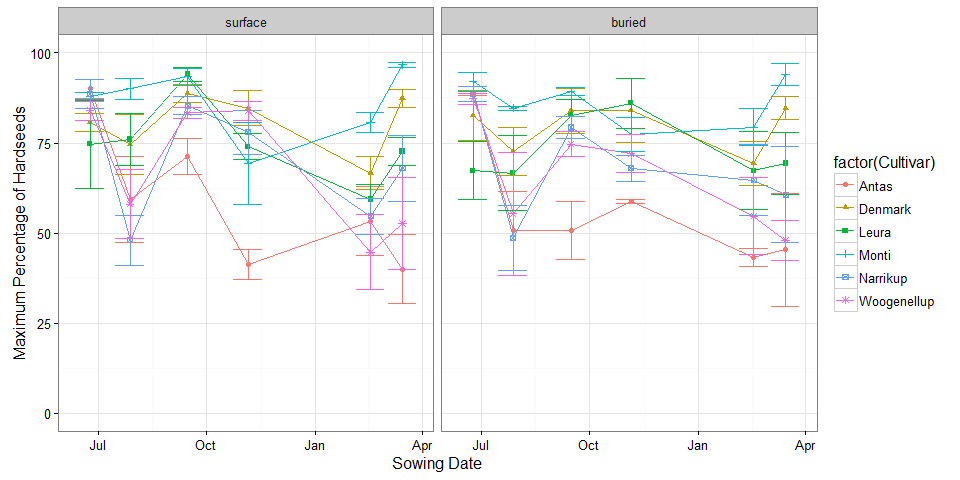
## Block Cultivar SowTreat SowingD Plot Depth Date Round  
## 931 3 Leura S7 15/03/2016 121 buried 0017-02-01 1  
## 932 3 Woogenellup S7 15/03/2016 122 buried 0017-02-01 1  
## 933 3 Antas S7 15/03/2016 123 buried 0017-02-01 1  
## 934 3 Monti S7 15/03/2016 124 buried 0017-02-01 1  
## 935 3 Narrikup S7 15/03/2016 125 buried 0017-02-01 1  
## 936 3 Denmark S7 15/03/2016 126 buried 0017-02-01 1  
## InitialSeedlotR1Number SeedNumber Soft PropSoft  
## 931 50 50 9 18  
## 932 50 50 21 42  
## 933 50 50 22 44  
## 934 50 50 0 0  
## 935 45 45 12 24  
## 936 28 28 4 8

df\_seed %>%  
 filter(Plot==1)

## Block Cultivar SowTreat SowingD Plot Depth Date Round  
## 1 1 Antas S1 24/06/2015 1 surface 2016-02-16 1  
## 2 1 Antas S1 24/06/2015 1 buried 2016-02-16 1  
## 3 1 Antas S1 24/06/2015 1 surface 0016-03-09 2  
## 4 1 Antas S1 24/06/2015 1 buried 0016-03-09 2  
## 5 1 Antas S1 24/06/2015 1 surface 2016-05-13 3  
## 6 1 Antas S1 24/06/2015 1 buried 2016-05-13 3  
## 7 1 Antas S1 24/06/2015 1 surface 2016-06-03 4  
## 8 1 Antas S1 24/06/2015 1 buried 2016-06-03 4  
## 9 1 Antas S1 24/06/2015 1 surface 2016-06-25 5  
## 10 1 Antas S1 24/06/2015 1 buried 2016-06-25 5  
## 11 1 Antas S1 24/06/2015 1 surface 2016-08-16 6  
## 12 1 Antas S1 24/06/2015 1 buried 2016-08-16 6  
## InitialSeedlotR1Number SeedNumber Soft PropSoft  
## 1 50 50 7 14  
## 2 24 24 5 10  
## 3 50 43 7 14  
## 4 24 19 4 8  
## 5 50 36 2 4  
## 6 24 15 1 2  
## 7 50 34 2 4  
## 8 24 14 0 0  
## 9 50 32 3 6  
## 10 24 14 2 4  
## 11 50 29 29 58  
## 12 24 12 12 24

Graph the potential Hardseededness

df\_seed %>%  
 mutate(hardSeed = 100-PropSoft) %>%  
 mutate(SowingD = dmy(SowingD)) %>%  
 filter(Round == 1) %>% #need to keep filter to get first and max hardseed percent  
 mutate(Depth = factor(Depth,levels=c( "surface","buried"))) %>%  
 group\_by(Cultivar,SowingD,Depth) %>%  
 dplyr::select(hardSeed) %>%  
 summarise\_each(funs(mean,sd)) %>%  
 ggplot(aes(x=SowingD, y=mean, colour=factor(Cultivar), shape=factor(Cultivar))) +  
 geom\_point() +  
 geom\_line() +  
 facet\_grid(.~Depth) +  
 labs(x="Sowing Date",y="Maximum Percentage of Hardseeds") +  
 theme(axis.text.x = element\_text(angle = 90, hjust = 1))+  
 geom\_errorbar(aes(ymin=mean-sd/2,  
 ymax=mean+sd/2))+  
 theme\_bw()+  
 ylim(0,100)



head(df\_seed)

## Block Cultivar SowTreat SowingD Plot Depth Date Round  
## 1 1 Antas S1 24/06/2015 1 surface 2016-02-16 1  
## 2 1 Monti S1 24/06/2015 2 surface 2016-02-16 1  
## 3 1 Denmark S1 24/06/2015 3 surface 2016-02-16 1  
## 4 1 Leura S1 24/06/2015 4 surface 2016-02-16 1  
## 5 1 Narrikup S1 24/06/2015 5 surface 2016-02-16 1  
## 6 1 Woogenellup S1 24/06/2015 6 surface 2016-02-16 1  
## InitialSeedlotR1Number SeedNumber Soft PropSoft  
## 1 50 50 7 14  
## 2 50 50 6 12  
## 3 50 50 7 14  
## 4 50 50 2 4  
## 5 50 50 2 4  
## 6 50 50 9 18

summary(df\_seed)

## Block Cultivar SowTreat SowingD Plot   
## 1:312 Antas :156 S1:216 15/03/2016: 36 1 : 12   
## 2:312 Denmark :156 S2:216 15/09/2015:216 2 : 12   
## 3:312 Leura :156 S3:216 17/02/2016: 36 3 : 12   
## Monti :156 S4:216 24/06/2015:216 4 : 12   
## Narrikup :156 S6: 36 28/07/2015:216 5 : 12   
## Woogenellup:156 S7: 36 5/11/2015 :216 6 : 12   
## (Other):864   
## Depth Date Round InitialSeedlotR1Number  
## buried :468 Min. :0016-03-09 Min. :1.000 Min. : 5.00   
## surface:468 1st Qu.:0016-07-17 1st Qu.:2.000 1st Qu.:50.00   
## Median :2016-04-14 Median :3.000 Median :50.00   
## Mean :1170-05-17 Mean :3.308 Mean :49.49   
## 3rd Qu.:2016-06-25 3rd Qu.:5.000 3rd Qu.:50.00   
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##   
## SeedNumber Soft PropSoft   
## Min. : 0.00 Min. : 0.000 Min. : 0.00   
## 1st Qu.:29.00 1st Qu.: 1.000 1st Qu.: 2.00   
## Median :37.00 Median : 4.000 Median : 8.00   
## Mean :35.56 Mean : 8.861 Mean :17.72   
## 3rd Qu.:45.00 3rd Qu.:12.000 3rd Qu.:24.00   
## Max. :50.00 Max. :48.000 Max. :96.00   
##

g1 <- df\_seed %>%  
 dplyr::select(-Date) %>% #  
 group\_by(SowTreat,Cultivar,Depth, Plot) %>% # need to keep level in which cumulation occurs  
 arrange(Round) %>% # need to tell which factor to accumulate within  
 mutate(Soft\_cum = cumsum(Soft)) %>%  
 mutate(PercSoftCum=Soft\_cum/max(SeedNumber))%>%  
 group\_by(SowTreat,Cultivar,Depth, Round) %>%  
 summarise\_each(funs(mean))

g1 <- df\_seed %>%  
 dplyr::select(-Date) %>% #  
 group\_by(SowTreat,Cultivar,Depth, Plot) %>% # need to keep level in which cumulation occurs  
 arrange(Round) %>% # need to tell which factor to accumulate within  
 mutate(Soft\_cum = cumsum(Soft)) %>%  
 mutate(PercSoftCum=Soft\_cum/max(SeedNumber))%>%  
 group\_by(SowTreat,Cultivar,Depth, Round) %>%  
 summarise\_each(funs(mean))

## Warning in mean.default(structure(1:3, .Label = c("1", "2", "3"), class =  
## "factor")): argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(1:3, .Label = c("1", "2", "3"), class =  
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## Warning in mean.default(structure(c(4L, 4L, 4L), .Label = c("15/03/2016", :  
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## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 6L, 6L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(3L, 3L, 3L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 3L, 3L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 3L, 3L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 3L, 3L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 3L, 3L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 3L, 3L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 3L, 3L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 3L, 3L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 3L, 3L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 3L, 3L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 3L, 3L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 3L, 3L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(1L, 1L, 1L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 1L, 1L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 1L, 1L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 1L, 1L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 1L, 1L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 1L, 1L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 1L, 1L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 1L, 1L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 1L, 1L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 1L, 1L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 1L, 1L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 1L, 1L), .Label = c("15/03/2016", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(1L, 7L, 14L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 7L, 14L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 7L, 14L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 7L, 14L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 7L, 14L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 7L, 14L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 7L, 14L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 7L, 14L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 7L, 14L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 7L, 14L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 7L, 14L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(1L, 7L, 14L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(3L, 9L, 17L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 9L, 17L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 9L, 17L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 9L, 17L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 9L, 17L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 9L, 17L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 9L, 17L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 9L, 17L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 9L, 17L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 9L, 17L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 9L, 17L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(3L, 9L, 17L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(4L, 12L, 18L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(4L, 12L, 18L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(4L, 12L, 18L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(4L, 12L, 18L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(4L, 12L, 18L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(4L, 12L, 18L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(4L, 12L, 18L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(4L, 12L, 18L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(4L, 12L, 18L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(4L, 12L, 18L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(4L, 12L, 18L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(4L, 12L, 18L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(2L, 10L, 15L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(2L, 10L, 15L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(2L, 10L, 15L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(2L, 10L, 15L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(2L, 10L, 15L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(2L, 10L, 15L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(2L, 10L, 15L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(2L, 10L, 15L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(2L, 10L, 15L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(2L, 10L, 15L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(2L, 10L, 15L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(2L, 10L, 15L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(5L, 11L, 16L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(5L, 11L, 16L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(5L, 11L, 16L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(5L, 11L, 16L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(5L, 11L, 16L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(5L, 11L, 16L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(5L, 11L, 16L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(5L, 11L, 16L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(5L, 11L, 16L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(5L, 11L, 16L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(5L, 11L, 16L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(5L, 11L, 16L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(6L, 8L, 13L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 8L, 13L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 8L, 13L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 8L, 13L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 8L, 13L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 8L, 13L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 8L, 13L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 8L, 13L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 8L, 13L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 8L, 13L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 8L, 13L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(6L, 8L, 13L), .Label = c("1", "2",  
## "3", : argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(24L, 29L, 32L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(24L, 29L, 32L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(24L, 29L, 32L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(24L, 29L, 32L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(24L, 29L, 32L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(24L, 29L, 32L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(24L, 29L, 32L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(24L, 29L, 32L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(24L, 29L, 32L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(24L, 29L, 32L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(24L, 29L, 32L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(24L, 29L, 32L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(23L, 27L, 31L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(23L, 27L, 31L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(23L, 27L, 31L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(23L, 27L, 31L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(23L, 27L, 31L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(23L, 27L, 31L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(23L, 27L, 31L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(23L, 27L, 31L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(23L, 27L, 31L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(23L, 27L, 31L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(23L, 27L, 31L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(23L, 27L, 31L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(22L, 25L, 35L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(22L, 25L, 35L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(22L, 25L, 35L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(22L, 25L, 35L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(22L, 25L, 35L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(22L, 25L, 35L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(22L, 25L, 35L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(22L, 25L, 35L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(22L, 25L, 35L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(22L, 25L, 35L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(22L, 25L, 35L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(22L, 25L, 35L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(20L, 30L, 33L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(20L, 30L, 33L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(20L, 30L, 33L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(20L, 30L, 33L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(20L, 30L, 33L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(20L, 30L, 33L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(20L, 30L, 33L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(20L, 30L, 33L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(20L, 30L, 33L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(20L, 30L, 33L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(20L, 30L, 33L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(20L, 30L, 33L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(19L, 28L, 36L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(19L, 28L, 36L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(19L, 28L, 36L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(19L, 28L, 36L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(19L, 28L, 36L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(19L, 28L, 36L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(19L, 28L, 36L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(19L, 28L, 36L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(19L, 28L, 36L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(19L, 28L, 36L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(19L, 28L, 36L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(19L, 28L, 36L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(21L, 26L, 34L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(21L, 26L, 34L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(21L, 26L, 34L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(21L, 26L, 34L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(21L, 26L, 34L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(21L, 26L, 34L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(21L, 26L, 34L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(21L, 26L, 34L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(21L, 26L, 34L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(21L, 26L, 34L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(21L, 26L, 34L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(21L, 26L, 34L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(38L, 46L, 51L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(38L, 46L, 51L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(38L, 46L, 51L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(38L, 46L, 51L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(38L, 46L, 51L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(38L, 46L, 51L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(38L, 46L, 51L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(38L, 46L, 51L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(38L, 46L, 51L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(38L, 46L, 51L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(38L, 46L, 51L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(38L, 46L, 51L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(37L, 47L, 54L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(37L, 47L, 54L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(37L, 47L, 54L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(37L, 47L, 54L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(37L, 47L, 54L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(37L, 47L, 54L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(37L, 47L, 54L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(37L, 47L, 54L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(37L, 47L, 54L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(37L, 47L, 54L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(37L, 47L, 54L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(37L, 47L, 54L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(40L, 44L, 49L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(40L, 44L, 49L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(40L, 44L, 49L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(40L, 44L, 49L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(40L, 44L, 49L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(40L, 44L, 49L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(40L, 44L, 49L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(40L, 44L, 49L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(40L, 44L, 49L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(40L, 44L, 49L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(40L, 44L, 49L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(40L, 44L, 49L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(42L, 48L, 52L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(42L, 48L, 52L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(42L, 48L, 52L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(42L, 48L, 52L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(42L, 48L, 52L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(42L, 48L, 52L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(42L, 48L, 52L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(42L, 48L, 52L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(42L, 48L, 52L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(42L, 48L, 52L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(42L, 48L, 52L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(42L, 48L, 52L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(41L, 45L, 53L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(41L, 45L, 53L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(41L, 45L, 53L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(41L, 45L, 53L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(41L, 45L, 53L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(41L, 45L, 53L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(41L, 45L, 53L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(41L, 45L, 53L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(41L, 45L, 53L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(41L, 45L, 53L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(41L, 45L, 53L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(41L, 45L, 53L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(39L, 43L, 50L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(39L, 43L, 50L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(39L, 43L, 50L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(39L, 43L, 50L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(39L, 43L, 50L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(39L, 43L, 50L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(39L, 43L, 50L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(39L, 43L, 50L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(39L, 43L, 50L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(39L, 43L, 50L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(39L, 43L, 50L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(39L, 43L, 50L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(56L, 61L, 70L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(56L, 61L, 70L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(56L, 61L, 70L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(56L, 61L, 70L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(56L, 61L, 70L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(56L, 61L, 70L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(56L, 61L, 70L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(56L, 61L, 70L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(56L, 61L, 70L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(56L, 61L, 70L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(56L, 61L, 70L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(56L, 61L, 70L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(57L, 65L, 72L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(57L, 65L, 72L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(57L, 65L, 72L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(57L, 65L, 72L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(57L, 65L, 72L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(57L, 65L, 72L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(57L, 65L, 72L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(57L, 65L, 72L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(57L, 65L, 72L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(57L, 65L, 72L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(57L, 65L, 72L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(57L, 65L, 72L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(58L, 64L, 67L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(58L, 64L, 67L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(58L, 64L, 67L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(58L, 64L, 67L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(58L, 64L, 67L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(58L, 64L, 67L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(58L, 64L, 67L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(58L, 64L, 67L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(58L, 64L, 67L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(58L, 64L, 67L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(58L, 64L, 67L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(58L, 64L, 67L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(59L, 66L, 68L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(59L, 66L, 68L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(59L, 66L, 68L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(59L, 66L, 68L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(59L, 66L, 68L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(59L, 66L, 68L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(59L, 66L, 68L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(59L, 66L, 68L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(59L, 66L, 68L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(59L, 66L, 68L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(59L, 66L, 68L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(59L, 66L, 68L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(55L, 63L, 69L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(55L, 63L, 69L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(55L, 63L, 69L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(55L, 63L, 69L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(55L, 63L, 69L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(55L, 63L, 69L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(55L, 63L, 69L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(55L, 63L, 69L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(55L, 63L, 69L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(55L, 63L, 69L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(55L, 63L, 69L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(55L, 63L, 69L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(60L, 62L, 71L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(60L, 62L, 71L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(60L, 62L, 71L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(60L, 62L, 71L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(60L, 62L, 71L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(60L, 62L, 71L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(60L, 62L, 71L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(60L, 62L, 71L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(60L, 62L, 71L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(60L, 62L, 71L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(60L, 62L, 71L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(60L, 62L, 71L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(77L, 84L, 87L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(77L, 84L, 87L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(73L, 82L, 88L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(73L, 82L, 88L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(76L, 79L, 86L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(76L, 79L, 86L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(74L, 80L, 90L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(74L, 80L, 90L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(78L, 83L, 89L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(78L, 83L, 89L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(75L, 81L, 85L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(75L, 81L, 85L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(92L, 100L, 105L), .Label = c("1",  
## "2", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(92L, 100L, 105L), .Label = c("1",  
## "2", : argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(91L, 101L, 108L), .Label = c("1",  
## "2", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(91L, 101L, 108L), .Label = c("1",  
## "2", : argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(94L, 98L, 103L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(94L, 98L, 103L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

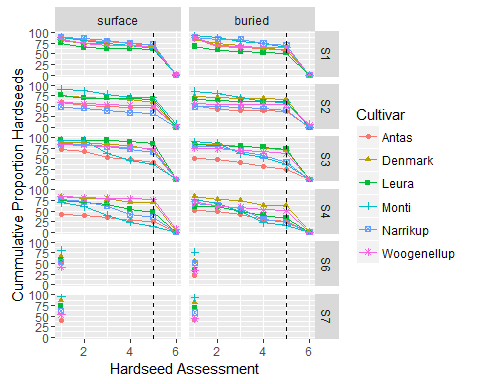
## Warning in mean.default(structure(c(96L, 102L, 106L), .Label = c("1",  
## "2", : argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(96L, 102L, 106L), .Label = c("1",  
## "2", : argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(95L, 99L, 107L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(95L, 99L, 107L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

## Warning in mean.default(structure(c(93L, 97L, 104L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA  
  
## Warning in mean.default(structure(c(93L, 97L, 104L), .Label = c("1", "2", :  
## argument is not numeric or logical: returning NA

# per round  
g1 %>%  
 ungroup() %>%  
mutate(Depth = factor(Depth,levels=c( "surface","buried"))) %>%  
ggplot(aes(x=Round, y=100\*(1-PercSoftCum), colour=Cultivar, shape=Cultivar)) +  
 geom\_point() +  
 geom\_line() +  
 facet\_grid(SowTreat~Depth) +  
 geom\_vline(xintercept = 5, linetype=2)+  
 labs(x="Hardseed Assessment",y="Cummulative Proportion Hardseeds")

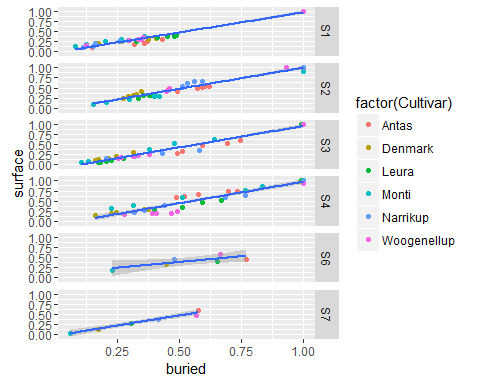
## geom\_path: Each group consists of only one observation. Do you need to  
## adjust the group aesthetic?  
## geom\_path: Each group consists of only one observation. Do you need to  
## adjust the group aesthetic?  
## geom\_path: Each group consists of only one observation. Do you need to  
## adjust the group aesthetic?  
## geom\_path: Each group consists of only one observation. Do you need to  
## adjust the group aesthetic?



summary(g1)

## SowTreat Cultivar Depth Round Block   
## S1:72 Antas :52 buried :156 Min. :1.000 Mode:logical   
## S2:72 Denmark :52 surface:156 1st Qu.:2.000 NA's:312   
## S3:72 Leura :52 Median :3.000   
## S4:72 Monti :52 Mean :3.308   
## S6:12 Narrikup :52 3rd Qu.:5.000   
## S7:12 Woogenellup:52 Max. :6.000   
## SowingD Plot InitialSeedlotR1Number SeedNumber   
## Mode:logical Mode:logical Min. :27.67 Min. : 7.333   
## NA's:312 NA's:312 1st Qu.:50.00 1st Qu.:27.917   
## Median :50.00 Median :36.000   
## Mean :49.49 Mean :35.558   
## 3rd Qu.:50.00 3rd Qu.:43.667   
## Max. :50.00 Max. :50.000   
## Soft PropSoft Soft\_cum PercSoftCum   
## Min. : 0.000 Min. : 0.000 Min. : 1.667 Min. :0.03333   
## 1st Qu.: 1.333 1st Qu.: 2.667 1st Qu.:12.333 1st Qu.:0.25333   
## Median : 4.000 Median : 8.000 Median :17.667 Median :0.38000   
## Mean : 8.861 Mean :17.722 Mean :22.162 Mean :0.45771   
## 3rd Qu.:12.750 3rd Qu.:25.500 3rd Qu.:28.750 3rd Qu.:0.59333   
## Max. :42.333 Max. :84.667 Max. :50.000 Max. :1.00000

#xy up down comparison  
g1 %>%  
 dplyr::select(Plot,PercSoftCum,Depth,Round) %>%  
 tidyr::spread(Depth, PercSoftCum) %>%  
 ggplot(aes(x=buried,y=surface))+  
 geom\_point(aes(colour=factor(Cultivar))) +  
 stat\_smooth(method = "lm") +  
 facet\_grid(SowTreat~.)



#Check for outliers \_Boxplot   
# df\_seed %>%  
# ggplot(aes(x=Cultivar, y=Soft, colour=factor(SowTreat)))+  
# geom\_boxplot() +  
# geom\_jitter() +  
# theme(axis.text.x=element\_text(angle = +90, hjust = 0))+  
# facet\_grid(SowTreat~Depth+Round)

#CumulativePercentage of Soft Seeds  
  
df\_soft\_plot <- df\_seed %>%  
 dplyr::select(-Date) %>%  
 group\_by(SowTreat,Cultivar,Depth, Plot) %>% # need to keep level in which cumulation occurs  
 arrange(Round) %>% # need to tell which factor to accumulate within  
 mutate(Soft\_cum = cumsum(Soft)) %>%  
 mutate(PercSoftCum=Soft\_cum/max(SeedNumber))  
  
summary(df\_soft\_plot)

## Block Cultivar SowTreat SowingD Plot   
## 1:312 Antas :156 S1:216 15/03/2016: 36 1 : 12   
## 2:312 Denmark :156 S2:216 15/09/2015:216 2 : 12   
## 3:312 Leura :156 S3:216 17/02/2016: 36 3 : 12   
## Monti :156 S4:216 24/06/2015:216 4 : 12   
## Narrikup :156 S6: 36 28/07/2015:216 5 : 12   
## Woogenellup:156 S7: 36 5/11/2015 :216 6 : 12   
## (Other):864   
## Depth Round InitialSeedlotR1Number SeedNumber   
## buried :468 Min. :1.000 Min. : 5.00 Min. : 0.00   
## surface:468 1st Qu.:2.000 1st Qu.:50.00 1st Qu.:29.00   
## Median :3.000 Median :50.00 Median :37.00   
## Mean :3.308 Mean :49.49 Mean :35.56   
## 3rd Qu.:5.000 3rd Qu.:50.00 3rd Qu.:45.00   
## Max. :6.000 Max. :50.00 Max. :50.00   
##   
## Soft PropSoft Soft\_cum PercSoftCum   
## Min. : 0.000 Min. : 0.00 Min. : 0.00 Min. :0.0000   
## 1st Qu.: 1.000 1st Qu.: 2.00 1st Qu.:11.00 1st Qu.:0.2200   
## Median : 4.000 Median : 8.00 Median :18.00 Median :0.3800   
## Mean : 8.861 Mean :17.72 Mean :22.16 Mean :0.4577   
## 3rd Qu.:12.000 3rd Qu.:24.00 3rd Qu.:30.00 3rd Qu.:0.6572   
## Max. :48.000 Max. :96.00 Max. :50.00 Max. :1.0000   
##

str(df\_soft\_plot)

## Classes 'grouped\_df', 'tbl\_df', 'tbl' and 'data.frame': 936 obs. of 13 variables:  
## $ Block : Factor w/ 3 levels "1","2","3": 1 1 1 1 1 1 2 2 2 2 ...  
## $ Cultivar : Factor w/ 6 levels "Antas","Denmark",..: 1 1 1 1 1 1 1 1 1 1 ...  
## $ SowTreat : Factor w/ 6 levels "S1","S2","S3",..: 1 1 1 1 1 1 1 1 1 1 ...  
## $ SowingD : Factor w/ 6 levels "15/03/2016","15/09/2015",..: 4 4 4 4 4 4 4 4 4 4 ...  
## $ Plot : Factor w/ 108 levels "1","2","3","4",..: 1 1 1 1 1 1 7 7 7 7 ...  
## $ Depth : Factor w/ 2 levels "buried","surface": 1 1 1 1 1 1 1 1 1 1 ...  
## $ Round : int 1 2 3 4 5 6 1 2 3 4 ...  
## $ InitialSeedlotR1Number: int 24 24 24 24 24 24 50 50 50 50 ...  
## $ SeedNumber : int 24 19 15 14 14 12 50 44 37 36 ...  
## $ Soft : int 5 4 1 0 2 12 6 7 1 0 ...  
## $ PropSoft : num 10 8 2 0 4 24 12 14 2 0 ...  
## $ Soft\_cum : int 5 9 10 10 12 24 6 13 14 14 ...  
## $ PercSoftCum : num 0.208 0.375 0.417 0.417 0.5 ...  
## - attr(\*, "vars")=List of 4  
## ..$ : symbol SowTreat  
## ..$ : symbol Cultivar  
## ..$ : symbol Depth  
## ..$ : symbol Plot  
## - attr(\*, "labels")='data.frame': 216 obs. of 4 variables:  
## ..$ SowTreat: Factor w/ 6 levels "S1","S2","S3",..: 1 1 1 1 1 1 1 1 1 1 ...  
## ..$ Cultivar: Factor w/ 6 levels "Antas","Denmark",..: 1 1 1 1 1 1 2 2 2 2 ...  
## ..$ Depth : Factor w/ 2 levels "buried","surface": 1 1 1 2 2 2 1 1 1 2 ...  
## ..$ Plot : Factor w/ 108 levels "1","2","3","4",..: 1 7 14 1 7 14 3 9 17 3 ...  
## ..- attr(\*, "vars")=List of 4  
## .. ..$ : symbol SowTreat  
## .. ..$ : symbol Cultivar  
## .. ..$ : symbol Depth  
## .. ..$ : symbol Plot  
## ..- attr(\*, "labels")='data.frame': 216 obs. of 4 variables:  
## .. ..$ SowTreat: Factor w/ 6 levels "S1","S2","S3",..: 1 1 1 1 1 1 1 1 1 1 ...  
## .. ..$ Cultivar: Factor w/ 6 levels "Antas","Denmark",..: 1 1 1 1 1 1 2 2 2 2 ...  
## .. ..$ Depth : Factor w/ 2 levels "buried","surface": 1 1 1 2 2 2 1 1 1 2 ...  
## .. ..$ Plot : Factor w/ 108 levels "1","2","3","4",..: 1 7 14 1 7 14 3 9 17 3 ...  
## .. ..- attr(\*, "vars")=List of 4  
## .. .. ..$ : symbol SowTreat  
## .. .. ..$ : symbol Cultivar  
## .. .. ..$ : symbol Depth  
## .. .. ..$ : symbol Plot  
## .. ..- attr(\*, "drop")= logi TRUE  
## .. ..- attr(\*, "indices")=List of 216  
## .. .. ..$ : int 18 54 126 234 306 558  
## .. .. ..$ : int 24 60 132 240 312 564  
## .. .. ..$ : int 31 67 139 247 319 571  
## .. .. ..$ : int 0 36 108 216 288 540  
## .. .. ..$ : int 6 42 114 222 294 546  
## .. .. ..$ : int 13 49 121 229 301 553  
## .. .. ..$ : int 20 56 128 236 308 560  
## .. .. ..$ : int 26 62 134 242 314 566  
## .. .. ..$ : int 34 70 142 250 322 574  
## .. .. ..$ : int 2 38 110 218 290 542  
## .. .. ..$ : int 8 44 116 224 296 548  
## .. .. ..$ : int 16 52 124 232 304 556  
## .. .. ..$ : int 21 57 129 237 309 561  
## .. .. ..$ : int 29 65 137 245 317 569  
## .. .. ..$ : int 35 71 143 251 323 575  
## .. .. ..$ : int 3 39 111 219 291 543  
## .. .. ..$ : int 11 47 119 227 299 551  
## .. .. ..$ : int 17 53 125 233 305 557  
## .. .. ..$ : int 19 55 127 235 307 559  
## .. .. ..$ : int 27 63 135 243 315 567  
## .. .. ..$ : int 32 68 140 248 320 572  
## .. .. ..$ : int 1 37 109 217 289 541  
## .. .. ..$ : int 9 45 117 225 297 549  
## .. .. ..$ : int 14 50 122 230 302 554  
## .. .. ..$ : int 22 58 130 238 310 562  
## .. .. ..$ : int 28 64 136 244 316 568  
## .. .. ..$ : int 33 69 141 249 321 573  
## .. .. ..$ : int 4 40 112 220 292 544  
## .. .. ..$ : int 10 46 118 226 298 550  
## .. .. ..$ : int 15 51 123 231 303 555  
## .. .. ..$ : int 23 59 131 239 311 563  
## .. .. ..$ : int 25 61 133 241 313 565  
## .. .. ..$ : int 30 66 138 246 318 570  
## .. .. ..$ : int 5 41 113 221 293 545  
## .. .. ..$ : int 7 43 115 223 295 547  
## .. .. ..$ : int 12 48 120 228 300 552  
## .. .. ..$ : int 95 167 275 419 491 635  
## .. .. ..$ : int 100 172 280 424 496 640  
## .. .. ..$ : int 103 175 283 427 499 643  
## .. .. ..$ : int 77 149 257 401 473 617  
## .. .. ..$ : int 82 154 262 406 478 622  
## .. .. ..$ : int 85 157 265 409 481 625  
## .. .. ..$ : int 94 166 274 418 490 634  
## .. .. ..$ : int 98 170 278 422 494 638  
## .. .. ..$ : int 102 174 282 426 498 642  
## .. .. ..$ : int 76 148 256 400 472 616  
## .. .. ..$ : int 80 152 260 404 476 620  
## .. .. ..$ : int 84 156 264 408 480 624  
## .. .. ..$ : int 93 165 273 417 489 633  
## .. .. ..$ : int 96 168 276 420 492 636  
## .. .. ..$ : int 106 178 286 430 502 646  
## .. .. ..$ : int 75 147 255 399 471 615  
## .. .. ..$ : int 78 150 258 402 474 618  
## .. .. ..$ : int 88 160 268 412 484 628  
## .. .. ..$ : int 91 163 271 415 487 631  
## .. .. ..$ : int 101 173 281 425 497 641  
## .. .. ..$ : int 104 176 284 428 500 644  
## .. .. ..$ : int 73 145 253 397 469 613  
## .. .. ..$ : int 83 155 263 407 479 623  
## .. .. ..$ : int 86 158 266 410 482 626  
## .. .. ..$ : int 90 162 270 414 486 630  
## .. .. ..$ : int 99 171 279 423 495 639  
## .. .. ..$ : int 107 179 287 431 503 647  
## .. .. ..$ : int 72 144 252 396 468 612  
## .. .. ..$ : int 81 153 261 405 477 621  
## .. .. ..$ : int 89 161 269 413 485 629  
## .. .. ..$ : int 92 164 272 416 488 632  
## .. .. ..$ : int 97 169 277 421 493 637  
## .. .. ..$ : int 105 177 285 429 501 645  
## .. .. ..$ : int 74 146 254 398 470 614  
## .. .. ..$ : int 79 151 259 403 475 619  
## .. .. ..$ : int 87 159 267 411 483 627  
## .. .. ..$ : int 199 343 451 523 595 667  
## .. .. ..$ : int 207 351 459 531 603 675  
## .. .. ..$ : int 212 356 464 536 608 680  
## .. .. ..$ : int 181 325 433 505 577 649  
## .. .. ..$ : int 189 333 441 513 585 657  
## .. .. ..$ : int 194 338 446 518 590 662  
## .. .. ..$ : int 198 342 450 522 594 666  
## .. .. ..$ : int 208 352 460 532 604 676  
## .. .. ..$ : int 215 359 467 539 611 683  
## .. .. ..$ : int 180 324 432 504 576 648  
## .. .. ..$ : int 190 334 442 514 586 658  
## .. .. ..$ : int 197 341 449 521 593 665  
## .. .. ..$ : int 201 345 453 525 597 669  
## .. .. ..$ : int 205 349 457 529 601 673  
## .. .. ..$ : int 210 354 462 534 606 678  
## .. .. ..$ : int 183 327 435 507 579 651  
## .. .. ..$ : int 187 331 439 511 583 655  
## .. .. ..$ : int 192 336 444 516 588 660  
## .. .. ..$ : int 203 347 455 527 599 671  
## .. .. ..$ : int 209 353 461 533 605 677  
## .. .. ..$ : int 213 357 465 537 609 681  
## .. .. ..$ : int 185 329 437 509 581 653  
## .. .. ..$ : int 191 335 443 515 587 659  
## .. .. ..$ : int 195 339 447 519 591 663  
## .. .. ..$ : int 202 346 454 526 598 670  
## .. .. ..$ : int 206 350 458 530 602 674  
## .. .. ..$ : int 214 358 466 538 610 682  
## .. .. .. [list output truncated]  
## .. ..- attr(\*, "group\_sizes")= int 6 6 6 6 6 6 6 6 6 6 ...  
## .. ..- attr(\*, "biggest\_group\_size")= int 6  
## ..- attr(\*, "indices")=List of 216  
## .. ..$ : int 0 1 2 3 4 5  
## .. ..$ : int 6 7 8 9 10 11  
## .. ..$ : int 12 13 14 15 16 17  
## .. ..$ : int 18 19 20 21 22 23  
## .. ..$ : int 24 25 26 27 28 29  
## .. ..$ : int 30 31 32 33 34 35  
## .. ..$ : int 36 37 38 39 40 41  
## .. ..$ : int 42 43 44 45 46 47  
## .. ..$ : int 48 49 50 51 52 53  
## .. ..$ : int 54 55 56 57 58 59  
## .. ..$ : int 60 61 62 63 64 65  
## .. ..$ : int 66 67 68 69 70 71  
## .. ..$ : int 72 73 74 75 76 77  
## .. ..$ : int 78 79 80 81 82 83  
## .. ..$ : int 84 85 86 87 88 89  
## .. ..$ : int 90 91 92 93 94 95  
## .. ..$ : int 96 97 98 99 100 101  
## .. ..$ : int 102 103 104 105 106 107  
## .. ..$ : int 108 109 110 111 112 113  
## .. ..$ : int 114 115 116 117 118 119  
## .. ..$ : int 120 121 122 123 124 125  
## .. ..$ : int 126 127 128 129 130 131  
## .. ..$ : int 132 133 134 135 136 137  
## .. ..$ : int 138 139 140 141 142 143  
## .. ..$ : int 144 145 146 147 148 149  
## .. ..$ : int 150 151 152 153 154 155  
## .. ..$ : int 156 157 158 159 160 161  
## .. ..$ : int 162 163 164 165 166 167  
## .. ..$ : int 168 169 170 171 172 173  
## .. ..$ : int 174 175 176 177 178 179  
## .. ..$ : int 180 181 182 183 184 185  
## .. ..$ : int 186 187 188 189 190 191  
## .. ..$ : int 192 193 194 195 196 197  
## .. ..$ : int 198 199 200 201 202 203  
## .. ..$ : int 204 205 206 207 208 209  
## .. ..$ : int 210 211 212 213 214 215  
## .. ..$ : int 216 217 218 219 220 221  
## .. ..$ : int 222 223 224 225 226 227  
## .. ..$ : int 228 229 230 231 232 233  
## .. ..$ : int 234 235 236 237 238 239  
## .. ..$ : int 240 241 242 243 244 245  
## .. ..$ : int 246 247 248 249 250 251  
## .. ..$ : int 252 253 254 255 256 257  
## .. ..$ : int 258 259 260 261 262 263  
## .. ..$ : int 264 265 266 267 268 269  
## .. ..$ : int 270 271 272 273 274 275  
## .. ..$ : int 276 277 278 279 280 281  
## .. ..$ : int 282 283 284 285 286 287  
## .. ..$ : int 288 289 290 291 292 293  
## .. ..$ : int 294 295 296 297 298 299  
## .. ..$ : int 300 301 302 303 304 305  
## .. ..$ : int 306 307 308 309 310 311  
## .. ..$ : int 312 313 314 315 316 317  
## .. ..$ : int 318 319 320 321 322 323  
## .. ..$ : int 324 325 326 327 328 329  
## .. ..$ : int 330 331 332 333 334 335  
## .. ..$ : int 336 337 338 339 340 341  
## .. ..$ : int 342 343 344 345 346 347  
## .. ..$ : int 348 349 350 351 352 353  
## .. ..$ : int 354 355 356 357 358 359  
## .. ..$ : int 360 361 362 363 364 365  
## .. ..$ : int 366 367 368 369 370 371  
## .. ..$ : int 372 373 374 375 376 377  
## .. ..$ : int 378 379 380 381 382 383  
## .. ..$ : int 384 385 386 387 388 389  
## .. ..$ : int 390 391 392 393 394 395  
## .. ..$ : int 396 397 398 399 400 401  
## .. ..$ : int 402 403 404 405 406 407  
## .. ..$ : int 408 409 410 411 412 413  
## .. ..$ : int 414 415 416 417 418 419  
## .. ..$ : int 420 421 422 423 424 425  
## .. ..$ : int 426 427 428 429 430 431  
## .. ..$ : int 432 433 434 435 436 437  
## .. ..$ : int 438 439 440 441 442 443  
## .. ..$ : int 444 445 446 447 448 449  
## .. ..$ : int 450 451 452 453 454 455  
## .. ..$ : int 456 457 458 459 460 461  
## .. ..$ : int 462 463 464 465 466 467  
## .. ..$ : int 468 469 470 471 472 473  
## .. ..$ : int 474 475 476 477 478 479  
## .. ..$ : int 480 481 482 483 484 485  
## .. ..$ : int 486 487 488 489 490 491  
## .. ..$ : int 492 493 494 495 496 497  
## .. ..$ : int 498 499 500 501 502 503  
## .. ..$ : int 504 505 506 507 508 509  
## .. ..$ : int 510 511 512 513 514 515  
## .. ..$ : int 516 517 518 519 520 521  
## .. ..$ : int 522 523 524 525 526 527  
## .. ..$ : int 528 529 530 531 532 533  
## .. ..$ : int 534 535 536 537 538 539  
## .. ..$ : int 540 541 542 543 544 545  
## .. ..$ : int 546 547 548 549 550 551  
## .. ..$ : int 552 553 554 555 556 557  
## .. ..$ : int 558 559 560 561 562 563  
## .. ..$ : int 564 565 566 567 568 569  
## .. ..$ : int 570 571 572 573 574 575  
## .. ..$ : int 576 577 578 579 580 581  
## .. ..$ : int 582 583 584 585 586 587  
## .. ..$ : int 588 589 590 591 592 593  
## .. .. [list output truncated]  
## - attr(\*, "indices")=List of 216  
## ..$ : int 0 1 2 3 4 5  
## ..$ : int 6 7 8 9 10 11  
## ..$ : int 12 13 14 15 16 17  
## ..$ : int 18 19 20 21 22 23  
## ..$ : int 24 25 26 27 28 29  
## ..$ : int 30 31 32 33 34 35  
## ..$ : int 36 37 38 39 40 41  
## ..$ : int 42 43 44 45 46 47  
## ..$ : int 48 49 50 51 52 53  
## ..$ : int 54 55 56 57 58 59  
## ..$ : int 60 61 62 63 64 65  
## ..$ : int 66 67 68 69 70 71  
## ..$ : int 72 73 74 75 76 77  
## ..$ : int 78 79 80 81 82 83  
## ..$ : int 84 85 86 87 88 89  
## ..$ : int 90 91 92 93 94 95  
## ..$ : int 96 97 98 99 100 101  
## ..$ : int 102 103 104 105 106 107  
## ..$ : int 108 109 110 111 112 113  
## ..$ : int 114 115 116 117 118 119  
## ..$ : int 120 121 122 123 124 125  
## ..$ : int 126 127 128 129 130 131  
## ..$ : int 132 133 134 135 136 137  
## ..$ : int 138 139 140 141 142 143  
## ..$ : int 144 145 146 147 148 149  
## ..$ : int 150 151 152 153 154 155  
## ..$ : int 156 157 158 159 160 161  
## ..$ : int 162 163 164 165 166 167  
## ..$ : int 168 169 170 171 172 173  
## ..$ : int 174 175 176 177 178 179  
## ..$ : int 180 181 182 183 184 185  
## ..$ : int 186 187 188 189 190 191  
## ..$ : int 192 193 194 195 196 197  
## ..$ : int 198 199 200 201 202 203  
## ..$ : int 204 205 206 207 208 209  
## ..$ : int 210 211 212 213 214 215  
## ..$ : int 216 217 218 219 220 221  
## ..$ : int 222 223 224 225 226 227  
## ..$ : int 228 229 230 231 232 233  
## ..$ : int 234 235 236 237 238 239  
## ..$ : int 240 241 242 243 244 245  
## ..$ : int 246 247 248 249 250 251  
## ..$ : int 252 253 254 255 256 257  
## ..$ : int 258 259 260 261 262 263  
## ..$ : int 264 265 266 267 268 269  
## ..$ : int 270 271 272 273 274 275  
## ..$ : int 276 277 278 279 280 281  
## ..$ : int 282 283 284 285 286 287  
## ..$ : int 288 289 290 291 292 293  
## ..$ : int 294 295 296 297 298 299  
## ..$ : int 300 301 302 303 304 305  
## ..$ : int 306 307 308 309 310 311  
## ..$ : int 312 313 314 315 316 317  
## ..$ : int 318 319 320 321 322 323  
## ..$ : int 324 325 326 327 328 329  
## ..$ : int 330 331 332 333 334 335  
## ..$ : int 336 337 338 339 340 341  
## ..$ : int 342 343 344 345 346 347  
## ..$ : int 348 349 350 351 352 353  
## ..$ : int 354 355 356 357 358 359  
## ..$ : int 360 361 362 363 364 365  
## ..$ : int 366 367 368 369 370 371  
## ..$ : int 372 373 374 375 376 377  
## ..$ : int 378 379 380 381 382 383  
## ..$ : int 384 385 386 387 388 389  
## ..$ : int 390 391 392 393 394 395  
## ..$ : int 396 397 398 399 400 401  
## ..$ : int 402 403 404 405 406 407  
## ..$ : int 408 409 410 411 412 413  
## ..$ : int 414 415 416 417 418 419  
## ..$ : int 420 421 422 423 424 425  
## ..$ : int 426 427 428 429 430 431  
## ..$ : int 432 433 434 435 436 437  
## ..$ : int 438 439 440 441 442 443  
## ..$ : int 444 445 446 447 448 449  
## ..$ : int 450 451 452 453 454 455  
## ..$ : int 456 457 458 459 460 461  
## ..$ : int 462 463 464 465 466 467  
## ..$ : int 468 469 470 471 472 473  
## ..$ : int 474 475 476 477 478 479  
## ..$ : int 480 481 482 483 484 485  
## ..$ : int 486 487 488 489 490 491  
## ..$ : int 492 493 494 495 496 497  
## ..$ : int 498 499 500 501 502 503  
## ..$ : int 504 505 506 507 508 509  
## ..$ : int 510 511 512 513 514 515  
## ..$ : int 516 517 518 519 520 521  
## ..$ : int 522 523 524 525 526 527  
## ..$ : int 528 529 530 531 532 533  
## ..$ : int 534 535 536 537 538 539  
## ..$ : int 540 541 542 543 544 545  
## ..$ : int 546 547 548 549 550 551  
## ..$ : int 552 553 554 555 556 557  
## ..$ : int 558 559 560 561 562 563  
## ..$ : int 564 565 566 567 568 569  
## ..$ : int 570 571 572 573 574 575  
## ..$ : int 576 577 578 579 580 581  
## ..$ : int 582 583 584 585 586 587  
## ..$ : int 588 589 590 591 592 593  
## .. [list output truncated]

plots <- unique(df\_soft\_plot$Plot)  
depth <- unique(df\_soft\_plot$Depth)  
all.data <- NULL  
  
for(p in 1:length(plots)) {  
 for(d in 1:length(depth)) {  
   
 df\_sub <- subset(df\_soft\_plot, (df\_soft\_plot$Plot==plots[p] & Depth == depth[d]))  
   
 x <- df\_sub$Round  
 y <- 1-df\_sub$PercSoftCum  
   
 print(data.frame(x=x,y=y))  
   
   
 fit <- NULL  
 fit <- lm(y ~ x)  
   
 intercept <- round(fit$coefficients[[1]],2)  
 slope <- round(fit$coefficients[[2]],3)  
 r2 <- round(summary(fit)$r.squared \* 100,2)  
 # summary(fit)$adj.r.squared  
 block <- df\_sub$Block[1]  
 cv <- as.character(df\_sub$Cultivar[1])  
 sow <- as.character(df\_sub$SowTreat[1])  
 sd <- dmy(df\_sub$SowingD[1])  
   
   
 buf <- c(sow,cv,block, plots[p], depth[d], intercept, slope, r2, nrow(df\_sub))  
 print(buf)  
   
 if (p==1 & d==1) {   
 all.data <- data.frame(  
 Sow = sow,  
 Cv = cv,  
 Block = block,   
 Plot = plots[p],   
 Depth = depth[d],   
 Int = intercept,   
 Slope = slope,   
 R2 = r2,  
 n = nrow(df\_sub)  
 ) } else {  
 all.data <- rbind(all.data, buf) # FIXME: Logic is not working for df creation  
 }  
  
# Error:   
# Warning message:  
# In `[<-.factor`(`\*tmp\*`, ri, value = "2") :  
# invalid factor level, NA generated  
   
  
 }  
   
}

## x y  
## 1 1 0.7916667  
## 2 2 0.6250000  
## 3 3 0.5833333  
## 4 4 0.5833333  
## 5 5 0.5000000  
## 6 6 0.0000000  
## [1] "S1" "Antas" "1" "1" "1" "0.95" "-0.124" "73.81"   
## [9] "6"   
## x y  
## 1 1 0.86  
## 2 2 0.72  
## 3 3 0.68  
## 4 4 0.64  
## 5 5 0.58  
## 6 6 0.00  
## [1] "S1" "Antas" "1" "1" "2" "1.06" "-0.136" "72.25"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "2"): invalid factor level, NA  
## generated

## x y  
## 1 1 0.88  
## 2 2 0.74  
## 3 3 0.72  
## 4 4 0.72  
## 5 5 0.68  
## 6 6 0.00  
## [1] "S1" "Antas" "2" "7" "1" "1.08" "-0.131" "61.16"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "1"): invalid factor level, NA  
## generated

## x y  
## 1 1 0.88  
## 2 2 0.82  
## 3 3 0.80  
## 4 4 0.78  
## 5 5 0.72  
## 6 6 0.00  
## [1] "S1" "Antas" "2" "7" "2" "1.14" "-0.135" "58.19"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "2"): invalid factor level, NA  
## generated

## x y  
## 1 1 0.88  
## 2 2 0.68  
## 3 3 0.62  
## 4 4 0.58  
## 5 5 0.52  
## 6 6 0.00  
## [1] "S1" "Antas" "3" "14" "1" "1.04" "-0.141" "79.51"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "1"): invalid factor level, NA  
## generated

## x y  
## 1 1 0.96  
## 2 2 0.90  
## 3 3 0.88  
## 4 4 0.82  
## 5 5 0.80  
## 6 6 0.00  
## [1] "S1" "Antas" "3" "14" "2" "1.24" "-0.147" "58.51"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "2"): invalid factor level, NA  
## generated

## x y  
## 1 1 0.84  
## 2 2 0.68  
## 3 3 0.62  
## 4 4 0.50  
## 5 5 0.50  
## 6 6 0.00  
## [1] "S1" "Denmark" "1" "3" "1" "1.01" "-0.139"   
## [8] "82.47" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Denmark"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Denmark"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.86  
## 2 2 0.74  
## 3 3 0.72  
## 4 4 0.64  
## 5 5 0.62  
## 6 6 0.00  
## [1] "S1" "Denmark" "1" "3" "2" "1.07" "-0.135"   
## [8] "69.24" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Denmark"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Denmark"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.96  
## 2 2 0.84  
## 3 3 0.82  
## 4 4 0.76  
## 5 5 0.70  
## 6 6 0.00  
## [1] "S1" "Denmark" "2" "9" "1" "1.21" "-0.151"   
## [8] "67.18" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Denmark"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Denmark"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.80  
## 2 2 0.74  
## 3 3 0.74  
## 4 4 0.74  
## 5 5 0.68  
## 6 6 0.00  
## [1] "S1" "Denmark" "2" "9" "2" "1.03" "-0.119"   
## [8] "53.85" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Denmark"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Denmark"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.68  
## 2 2 0.68  
## 3 3 0.66  
## 4 4 0.62  
## 5 5 0.58  
## 6 6 0.00  
## [1] "S1" "Denmark" "3" "17" "1" "0.91" "-0.107"   
## [8] "56.59" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Denmark"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Denmark"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.76  
## 2 2 0.74  
## 3 3 0.74  
## 4 4 0.74  
## 5 5 0.70  
## 6 6 0.00  
## [1] "S1" "Denmark" "3" "17" "2" "1.01" "-0.112"   
## [8] "48.42" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Denmark"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Denmark"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.86  
## 2 2 0.60  
## 3 3 0.50  
## 4 4 0.46  
## 5 5 0.46  
## 6 6 0.00  
## [1] "S1" "Leura" "1" "4" "1" "0.96" "-0.136" "82.91"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Leura"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Leura"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.96  
## 2 2 0.80  
## 3 3 0.76  
## 4 4 0.74  
## 5 5 0.74  
## 6 6 0.00  
## [1] "S1" "Leura" "1" "4" "2" "1.17" "-0.143" "62.91"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Leura"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Leura"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.58  
## 2 2 0.58  
## 3 3 0.58  
## 4 4 0.56  
## 5 5 0.56  
## 6 6 0.00  
## [1] "S1" "Leura" "2" "12" "1" "0.77" "-0.085" "46.45"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Leura"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Leura"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.80  
## 2 2 0.70  
## 3 3 0.68  
## 4 4 0.66  
## 5 5 0.64  
## 6 6 0.00  
## [1] "S1" "Leura" "2" "12" "2" "1" "-0.12" "60.11" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Leura"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Leura"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.58  
## 2 2 0.58  
## 3 3 0.56  
## 4 4 0.54  
## 5 5 0.52  
## 6 6 0.00  
## [1] "S1" "Leura" "3" "18" "1" "0.77" "-0.089" "52.73"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Leura"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Leura"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.48  
## 2 2 0.44  
## 3 3 0.44  
## 4 4 0.44  
## 5 5 0.44  
## 6 6 0.00  
## [1] "S1" "Leura" "3" "18" "2" "0.61" "-0.069" "48.82"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Leura"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Leura"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.86  
## 2 2 0.80  
## 3 3 0.78  
## 4 4 0.74  
## 5 5 0.66  
## 6 6 0.00  
## [1] "S1" "Monti" "1" "2" "1" "1.12" "-0.136" "63.02"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Monti"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Monti"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.88  
## 2 2 0.78  
## 3 3 0.72  
## 4 4 0.68  
## 5 5 0.62  
## 6 6 0.00  
## [1] "S1" "Monti" "1" "2" "2" "1.11" "-0.141" "70.44"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Monti"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Monti"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.94  
## 2 2 0.90  
## 3 3 0.80  
## 4 4 0.70  
## 5 5 0.60  
## 6 6 0.00  
## [1] "S1" "Monti" "2" "10" "1" "1.23" "-0.163" "77.83"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Monti"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Monti"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.86  
## 2 2 0.84  
## 3 3 0.78  
## 4 4 0.74  
## 5 5 0.68  
## 6 6 0.00  
## [1] "S1" "Monti" "2" "10" "2" "1.13" "-0.138" "62.79"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Monti"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Monti"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.96  
## 2 2 0.92  
## 3 3 0.82  
## 4 4 0.76  
## 5 5 0.66  
## 6 6 0.00  
## [1] "S1" "Monti" "3" "15" "1" "1.25" "-0.161" "72.76"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Monti"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Monti"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.90  
## 2 2 0.84  
## 3 3 0.76  
## 4 4 0.70  
## 5 5 0.54  
## 6 6 0.00  
## [1] "S1" "Monti" "3" "15" "2" "1.17" "-0.156" "78.35"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Monti"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Monti"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.90  
## 2 2 0.84  
## 3 3 0.82  
## 4 4 0.72  
## 5 5 0.70  
## 6 6 0.00  
## [1] "S1" "Narrikup" "1" "5" "1" "1.17"   
## [7] "-0.143" "64.71" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Narrikup"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Narrikup"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.96  
## 2 2 0.92  
## 3 3 0.88  
## 4 4 0.80  
## 5 5 0.80  
## 6 6 0.00  
## [1] "S1" "Narrikup" "1" "5" "2" "1.25"   
## [7] "-0.15" "59.97" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Narrikup"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Narrikup"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.84  
## 2 2 0.80  
## 3 3 0.80  
## 4 4 0.68  
## 5 5 0.66  
## 6 6 0.00  
## [1] "S1" "Narrikup" "2" "11" "1" "1.1"   
## [7] "-0.135" "63.91" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Narrikup"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Narrikup"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.80  
## 2 2 0.76  
## 3 3 0.70  
## 4 4 0.64  
## 5 5 0.60  
## 6 6 0.00  
## [1] "S1" "Narrikup" "2" "11" "2" "1.04"   
## [7] "-0.13" "67.61" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Narrikup"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Narrikup"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.92  
## 2 2 0.90  
## 3 3 0.90  
## 4 4 0.82  
## 5 5 0.76  
## 6 6 0.00  
## [1] "S1" "Narrikup" "3" "16" "1" "1.23"   
## [7] "-0.146" "58.54" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Narrikup"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Narrikup"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.90  
## 2 2 0.90  
## 3 3 0.84  
## 4 4 0.82  
## 5 5 0.76  
## 6 6 0.00  
## [1] "S1" "Narrikup" "3" "16" "2" "1.2"   
## [7] "-0.141" "57.38" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Narrikup"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Narrikup"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.88  
## 2 2 0.66  
## 3 3 0.64  
## 4 4 0.62  
## 5 5 0.62  
## 6 6 0.00  
## [1] "S1" "Woogenellup" "1" "6" "1"   
## [6] "1.02" "-0.13" "67.07" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Woogenellup"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Woogenellup"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.82  
## 2 2 0.62  
## 3 3 0.60  
## 4 4 0.60  
## 5 5 0.58  
## 6 6 0.00  
## [1] "S1" "Woogenellup" "1" "6" "2"   
## [6] "0.96" "-0.121" "66.06" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Woogenellup"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Woogenellup"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.90  
## 2 2 0.76  
## 3 3 0.72  
## 4 4 0.70  
## 5 5 0.70  
## 6 6 0.00  
## [1] "S1" "Woogenellup" "2" "8" "1"   
## [6] "1.1" "-0.134" "62.54" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Woogenellup"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Woogenellup"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.90  
## 2 2 0.80  
## 3 3 0.76  
## 4 4 0.70  
## 5 5 0.68  
## 6 6 0.00  
## [1] "S1" "Woogenellup" "2" "8" "2"   
## [6] "1.13" "-0.141" "66.2" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Woogenellup"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Woogenellup"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.84  
## 2 2 0.68  
## 3 3 0.64  
## 4 4 0.64  
## 5 5 0.62  
## 6 6 0.00  
## [1] "S1" "Woogenellup" "3" "13" "1"   
## [6] "1.01" "-0.125" "64.91" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Woogenellup"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Woogenellup"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.80  
## 2 2 0.78  
## 3 3 0.76  
## 4 4 0.76  
## 5 5 0.70  
## 6 6 0.02  
## [1] "S1" "Woogenellup" "3" "13" "2"   
## [6] "1.05" "-0.118" "53.01" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Woogenellup"): invalid factor  
## level, NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "Woogenellup"): invalid factor  
## level, NA generated

## x y  
## 1 1 0.58  
## 2 2 0.56  
## 3 3 0.54  
## 4 4 0.52  
## 5 5 0.52  
## 6 6 0.00  
## [1] "S2" "Antas" "1" "24" "1" "0.76" "-0.087" "52.95"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.72  
## 2 2 0.66  
## 3 3 0.64  
## 4 4 0.62  
## 5 5 0.62  
## 6 6 0.08  
## [1] "S2" "Antas" "1" "24" "2" "0.89" "-0.095" "57.01"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.26  
## 2 2 0.16  
## 3 3 0.16  
## 4 4 0.14  
## 5 5 0.12  
## 6 6 0.00  
## [1] "S2" "Antas" "2" "29" "1" "0.28" "-0.041" "84.16"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.32  
## 2 2 0.20  
## 3 3 0.18  
## 4 4 0.16  
## 5 5 0.16  
## 6 6 0.00  
## [1] "S2" "Antas" "2" "29" "2" "0.34" "-0.05" "82.23" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.68  
## 2 2 0.56  
## 3 3 0.52  
## 4 4 0.52  
## 5 5 0.50  
## 6 6 0.00  
## [1] "S2" "Antas" "3" "32" "1" "0.82" "-0.102" "65.69"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.74  
## 2 2 0.68  
## 3 3 0.64  
## 4 4 0.62  
## 5 5 0.60  
## 6 6 0.00  
## [1] "S2" "Antas" "3" "32" "2" "0.94" "-0.113" "60.39"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.64  
## 2 2 0.62  
## 3 3 0.60  
## 4 4 0.58  
## 5 5 0.58  
## 6 6 0.00  
## [1] "S2" "Denmark" "1" "23" "1" "0.84" "-0.095"   
## [8] "51.96" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.56  
## 2 2 0.54  
## 3 3 0.54  
## 4 4 0.54  
## 5 5 0.48  
## 6 6 0.00  
## [1] "S2" "Denmark" "1" "23" "2" "0.74" "-0.085"   
## [8] "52.96" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.66  
## 2 2 0.64  
## 3 3 0.62  
## 4 4 0.62  
## 5 5 0.58  
## 6 6 0.00  
## [1] "S2" "Denmark" "2" "27" "1" "0.87" "-0.099"   
## [8] "52.75" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.80  
## 2 2 0.76  
## 3 3 0.72  
## 4 4 0.66  
## 5 5 0.58  
## 6 6 0.00  
## [1] "S2" "Denmark" "2" "27" "2" "1.05" "-0.131"   
## [8] "68.25" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.88  
## 2 2 0.86  
## 3 3 0.84  
## 4 4 0.82  
## 5 5 0.80  
## 6 6 0.00  
## [1] "S2" "Denmark" "3" "31" "1" "1.16" "-0.131"   
## [8] "51.06" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.88  
## 2 2 0.84  
## 3 3 0.80  
## 4 4 0.78  
## 5 5 0.70  
## 6 6 0.00  
## [1] "S2" "Denmark" "3" "31" "2" "1.15" "-0.138"   
## [8] "60.65" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.88  
## 2 2 0.86  
## 3 3 0.84  
## 4 4 0.84  
## 5 5 0.84  
## 6 6 0.00  
## [1] "S2" "Leura" "1" "22" "1" "1.16" "-0.127" "46.88"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.88  
## 2 2 0.86  
## 3 3 0.86  
## 4 4 0.86  
## 5 5 0.84  
## 6 6 0.00  
## [1] "S2" "Leura" "1" "22" "2" "1.16" "-0.127" "46.05"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.46  
## 2 2 0.44  
## 3 3 0.42  
## 4 4 0.42  
## 5 5 0.40  
## 6 6 0.00  
## [1] "S2" "Leura" "2" "25" "1" "0.6" "-0.069" "54.07"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.6  
## 2 2 0.5  
## 3 3 0.5  
## 4 4 0.5  
## 5 5 0.5  
## 6 6 0.0  
## [1] "S2" "Leura" "2" "25" "2" "0.73" "-0.086" "55.1"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.66  
## 2 2 0.64  
## 3 3 0.60  
## 4 4 0.58  
## 5 5 0.56  
## 6 6 0.00  
## [1] "S2" "Leura" "3" "35" "1" "0.86" "-0.102" "57.49"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.80  
## 2 2 0.72  
## 3 3 0.72  
## 4 4 0.70  
## 5 5 0.66  
## 6 6 0.00  
## [1] "S2" "Leura" "3" "35" "2" "1.02" "-0.12" "56.96" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.84  
## 2 2 0.78  
## 3 3 0.72  
## 4 4 0.70  
## 5 5 0.66  
## 6 6 0.00  
## [1] "S2" "Monti" "1" "20" "1" "1.07" "-0.131" "62.91"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.96  
## 2 2 0.96  
## 3 3 0.88  
## 4 4 0.84  
## 5 5 0.82  
## 6 6 0.04  
## [1] "S2" "Monti" "1" "20" "2" "1.26" "-0.145" "58.79"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.86  
## 2 2 0.80  
## 3 3 0.68  
## 4 4 0.54  
## 5 5 0.52  
## 6 6 0.00  
## [1] "S2" "Monti" "2" "30" "1" "1.09" "-0.151" "83.43"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.90  
## 2 2 0.82  
## 3 3 0.70  
## 4 4 0.60  
## 5 5 0.60  
## 6 6 0.00  
## [1] "S2" "Monti" "2" "30" "2" "1.13" "-0.15" "77.75" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.84  
## 2 2 0.80  
## 3 3 0.70  
## 4 4 0.56  
## 5 5 0.56  
## 6 6 0.00  
## [1] "S2" "Monti" "3" "33" "1" "1.08" "-0.145" "78.23"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.84  
## 2 2 0.80  
## 3 3 0.78  
## 4 4 0.70  
## 5 5 0.68  
## 6 6 0.20  
## [1] "S2" "Monti" "3" "33" "2" "1.03" "-0.104" "67.66"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.62  
## 2 2 0.62  
## 3 3 0.60  
## 4 4 0.58  
## 5 5 0.56  
## 6 6 0.00  
## [1] "S2" "Narrikup" "1" "19" "1" "0.83"   
## [7] "-0.094" "52.08" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.54  
## 2 2 0.52  
## 3 3 0.50  
## 4 4 0.44  
## 5 5 0.44  
## 6 6 0.00  
## [1] "S2" "Narrikup" "1" "19" "2" "0.71"   
## [7] "-0.086" "62.13" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.56  
## 2 2 0.56  
## 3 3 0.54  
## 4 4 0.52  
## 5 5 0.44  
## 6 6 0.00  
## [1] "S2" "Narrikup" "2" "28" "1" "0.75"   
## [7] "-0.091" "60.51" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.58  
## 2 2 0.58  
## 3 3 0.46  
## 4 4 0.38  
## 5 5 0.36  
## 6 6 0.00  
## [1] "S2" "Narrikup" "2" "28" "2" "0.76"   
## [7] "-0.104" "82.25" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.28  
## 2 2 0.28  
## 3 3 0.26  
## 4 4 0.22  
## 5 5 0.22  
## 6 6 0.00  
## [1] "S2" "Narrikup" "3" "36" "1" "0.37"   
## [7] "-0.046" "66.24" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.32  
## 2 2 0.26  
## 3 3 0.22  
## 4 4 0.22  
## 5 5 0.22  
## 6 6 0.00  
## [1] "S2" "Narrikup" "3" "36" "2" "0.38"   
## [7] "-0.049" "71.71" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.78  
## 2 2 0.78  
## 3 3 0.76  
## 4 4 0.76  
## 5 5 0.76  
## 6 6 0.00  
## [1] "S2" "Woogenellup" "1" "21" "1"   
## [6] "1.04" "-0.113" "45.53" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.80  
## 2 2 0.78  
## 3 3 0.74  
## 4 4 0.72  
## 5 5 0.72  
## 6 6 0.00  
## [1] "S2" "Woogenellup" "1" "21" "2"   
## [6] "1.05" "-0.12" "52.88" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.72  
## 2 2 0.72  
## 3 3 0.72  
## 4 4 0.72  
## 5 5 0.72  
## 6 6 0.20  
## [1] "S2" "Woogenellup" "2" "26" "1"   
## [6] "0.89" "-0.074" "42.86" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.48  
## 2 2 0.48  
## 3 3 0.46  
## 4 4 0.46  
## 5 5 0.46  
## 6 6 0.00  
## [1] "S2" "Woogenellup" "2" "26" "2"   
## [6] "0.64" "-0.07" "47.24" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.16  
## 2 2 0.14  
## 3 3 0.14  
## 4 4 0.14  
## 5 5 0.14  
## 6 6 0.00  
## [1] "S2" "Woogenellup" "3" "34" "1"   
## [6] "0.2" "-0.023" "51.95" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.46  
## 2 2 0.40  
## 3 3 0.40  
## 4 4 0.40  
## 5 5 0.36  
## 6 6 0.00  
## [1] "S2" "Woogenellup" "3" "34" "2"   
## [6] "0.58" "-0.069" "59.28" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S2"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.32  
## 2 2 0.32  
## 3 3 0.32  
## 4 4 0.26  
## 5 5 0.18  
## 6 6 0.00  
## [1] "S3" "Antas" "1" "38" "1" "0.44" "-0.059" "76.75"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.60  
## 2 2 0.56  
## 3 3 0.52  
## 4 4 0.50  
## 5 5 0.44  
## 6 6 0.00  
## [1] "S3" "Antas" "1" "38" "2" "0.77" "-0.097" "67.02"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.60  
## 2 2 0.58  
## 3 3 0.46  
## 4 4 0.32  
## 5 5 0.30  
## 6 6 0.00  
## [1] "S3" "Antas" "2" "46" "1" "0.77" "-0.114" "90.83"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.78  
## 2 2 0.74  
## 3 3 0.52  
## 4 4 0.46  
## 5 5 0.34  
## 6 6 0.00  
## [1] "S3" "Antas" "2" "46" "2" "0.99" "-0.147" "92.92"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.60  
## 2 2 0.56  
## 3 3 0.44  
## 4 4 0.34  
## 5 5 0.28  
## 6 6 0.00  
## [1] "S3" "Antas" "3" "51" "1" "0.76" "-0.113" "92.48"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.76  
## 2 2 0.72  
## 3 3 0.54  
## 4 4 0.48  
## 5 5 0.44  
## 6 6 0.00  
## [1] "S3" "Antas" "3" "51" "2" "0.96" "-0.134" "85.06"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.74  
## 2 2 0.72  
## 3 3 0.68  
## 4 4 0.64  
## 5 5 0.62  
## 6 6 0.00  
## [1] "S3" "Denmark" "1" "37" "1" "0.97" "-0.115"   
## [8] "58.92" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.84  
## 2 2 0.82  
## 3 3 0.78  
## 4 4 0.78  
## 5 5 0.64  
## 6 6 0.00  
## [1] "S3" "Denmark" "1" "37" "2" "1.12" "-0.135"   
## [8] "61.59" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.80  
## 2 2 0.78  
## 3 3 0.78  
## 4 4 0.76  
## 5 5 0.64  
## 6 6 0.00  
## [1] "S3" "Denmark" "2" "47" "1" "1.07" "-0.127"   
## [8] "57.74" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.94  
## 2 2 0.94  
## 3 3 0.88  
## 4 4 0.82  
## 5 5 0.80  
## 6 6 0.00  
## [1] "S3" "Denmark" "2" "47" "2" "1.25" "-0.148"   
## [8] "58.38" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.98  
## 2 2 0.98  
## 3 3 0.90  
## 4 4 0.86  
## 5 5 0.80  
## 6 6 0.00  
## [1] "S3" "Denmark" "3" "54" "1" "1.3" "-0.157"   
## [8] "60.82" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.88  
## 2 2 0.86  
## 3 3 0.86  
## 4 4 0.80  
## 5 5 0.64  
## 6 6 0.00  
## [1] "S3" "Denmark" "3" "54" "2" "1.19" "-0.146"   
## [8] "64.24" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.82  
## 2 2 0.82  
## 3 3 0.82  
## 4 4 0.80  
## 5 5 0.74  
## 6 6 0.02  
## [1] "S3" "Leura" "1" "40" "1" "1.1" "-0.122" "50.65"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.98  
## 2 2 0.98  
## 3 3 0.98  
## 4 4 0.96  
## 5 5 0.96  
## 6 6 0.00  
## [1] "S3" "Leura" "1" "40" "2" "1.31" "-0.142" "44.97"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.74  
## 2 2 0.74  
## 3 3 0.72  
## 4 4 0.72  
## 5 5 0.68  
## 6 6 0.00  
## [1] "S3" "Leura" "2" "44" "1" "0.99" "-0.111" "49.51"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.90  
## 2 2 0.90  
## 3 3 0.90  
## 4 4 0.88  
## 5 5 0.80  
## 6 6 0.00  
## [1] "S3" "Leura" "2" "44" "2" "1.21" "-0.138" "51.3"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.92  
## 2 2 0.90  
## 3 3 0.84  
## 4 4 0.80  
## 5 5 0.76  
## 6 6 0.00  
## [1] "S3" "Leura" "3" "49" "1" "1.21" "-0.145" "59.81"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.94  
## 2 2 0.94  
## 3 3 0.90  
## 4 4 0.84  
## 5 5 0.78  
## 6 6 0.00  
## [1] "S3" "Leura" "3" "49" "2" "1.26" "-0.15" "59.03" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.88  
## 2 2 0.86  
## 3 3 0.70  
## 4 4 0.58  
## 5 5 0.42  
## 6 6 0.00  
## [1] "S3" "Monti" "1" "42" "1" "1.16" "-0.167" "89.48"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.96  
## 2 2 0.96  
## 3 3 0.56  
## 4 4 0.42  
## 5 5 0.32  
## 6 6 0.00  
## [1] "S3" "Monti" "1" "42" "2" "1.22" "-0.196" "95.02"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.92  
## 2 2 0.90  
## 3 3 0.56  
## 4 4 0.42  
## 5 5 0.26  
## 6 6 0.00  
## [1] "S3" "Monti" "2" "48" "1" "1.18" "-0.19" "96.98" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.88  
## 2 2 0.88  
## 3 3 0.60  
## 4 4 0.52  
## 5 5 0.38  
## 6 6 0.00  
## [1] "S3" "Monti" "2" "48" "2" "1.14" "-0.171" "92.49"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.88  
## 2 2 0.84  
## 3 3 0.60  
## 4 4 0.56  
## 5 5 0.40  
## 6 6 0.00  
## [1] "S3" "Monti" "3" "52" "1" "1.12" "-0.165" "91.05"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.96  
## 2 2 0.94  
## 3 3 0.72  
## 4 4 0.46  
## 5 5 0.40  
## 6 6 0.00  
## [1] "S3" "Monti" "3" "52" "2" "1.25" "-0.191" "94.19"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.86  
## 2 2 0.86  
## 3 3 0.72  
## 4 4 0.60  
## 5 5 0.42  
## 6 6 0.00  
## [1] "S3" "Narrikup" "1" "41" "1" "1.15"   
## [7] "-0.164" "87.37" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.80  
## 2 2 0.78  
## 3 3 0.78  
## 4 4 0.72  
## 5 5 0.64  
## 6 6 0.00  
## [1] "S3" "Narrikup" "1" "41" "2" "1.07"   
## [7] "-0.128" "59.93" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.74  
## 2 2 0.74  
## 3 3 0.64  
## 4 4 0.56  
## 5 5 0.48  
## 6 6 0.00  
## [1] "S3" "Narrikup" "2" "45" "1" "0.98"   
## [7] "-0.13" "77.25" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.90  
## 2 2 0.88  
## 3 3 0.82  
## 4 4 0.74  
## 5 5 0.68  
## 6 6 0.02  
## [1] "S3" "Narrikup" "2" "45" "2" "1.18"   
## [7] "-0.145" "67.41" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.78  
## 2 2 0.78  
## 3 3 0.68  
## 4 4 0.54  
## 5 5 0.36  
## 6 6 0.00  
## [1] "S3" "Narrikup" "3" "53" "1" "1.05"   
## [7] "-0.151" "87.78" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.86  
## 2 2 0.86  
## 3 3 0.76  
## 4 4 0.72  
## 5 5 0.64  
## 6 6 0.00  
## [1] "S3" "Narrikup" "3" "53" "2" "1.14"   
## [7] "-0.143" "67.74" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.68  
## 2 2 0.64  
## 3 3 0.60  
## 4 4 0.60  
## 5 5 0.58  
## 6 6 0.00  
## [1] "S3" "Woogenellup" "1" "39" "1"   
## [6] "0.87" "-0.102" "56.04" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.84  
## 2 2 0.82  
## 3 3 0.76  
## 4 4 0.74  
## 5 5 0.70  
## 6 6 0.00  
## [1] "S3" "Woogenellup" "1" "39" "2"   
## [6] "1.1" "-0.131" "58.77" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.74  
## 2 2 0.74  
## 3 3 0.72  
## 4 4 0.70  
## 5 5 0.64  
## 6 6 0.00  
## [1] "S3" "Woogenellup" "2" "43" "1"   
## [6] "0.99" "-0.115" "54.37" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.80  
## 2 2 0.80  
## 3 3 0.78  
## 4 4 0.78  
## 5 5 0.76  
## 6 6 0.00  
## [1] "S3" "Woogenellup" "2" "43" "2"   
## [6] "1.07" "-0.118" "47.24" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.82  
## 2 2 0.82  
## 3 3 0.74  
## 4 4 0.70  
## 5 5 0.64  
## 6 6 0.00  
## [1] "S3" "Woogenellup" "3" "50" "1"   
## [6] "1.09" "-0.134" "64.43" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.86  
## 2 2 0.84  
## 3 3 0.82  
## 4 4 0.78  
## 5 5 0.76  
## 6 6 0.00  
## [1] "S3" "Woogenellup" "3" "50" "2"   
## [6] "1.13" "-0.131" "53.86" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S3"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.37500  
## 2 2 0.34375  
## 3 3 0.31250  
## 4 4 0.31250  
## 5 5 0.31250  
## 6 6 0.00000  
## [1] "S4" "Antas" "1" "56" "1" "0.47" "-0.056" "58.55"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.44  
## 2 2 0.40  
## 3 3 0.38  
## 4 4 0.34  
## 5 5 0.30  
## 6 6 0.00  
## [1] "S4" "Antas" "1" "56" "2" "0.56" "-0.073" "72.57"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.58  
## 2 2 0.54  
## 3 3 0.42  
## 4 4 0.28  
## 5 5 0.24  
## 6 6 0.00  
## [1] "S4" "Antas" "2" "61" "1" "0.74" "-0.113" "95.12"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.32  
## 2 2 0.28  
## 3 3 0.18  
## 4 4 0.04  
## 5 5 0.04  
## 6 6 0.00  
## [1] "S4" "Antas" "2" "61" "2" "0.39" "-0.07" "92.83" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.58  
## 2 2 0.56  
## 3 3 0.54  
## 4 4 0.32  
## 5 5 0.24  
## 6 6 0.00  
## [1] "S4" "Antas" "3" "70" "1" "0.78" "-0.117" "89.63"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.48  
## 2 2 0.48  
## 3 3 0.48  
## 4 4 0.44  
## 5 5 0.44  
## 6 6 0.00  
## [1] "S4" "Antas" "3" "70" "2" "0.64" "-0.073" "51.63"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.90  
## 2 2 0.78  
## 3 3 0.74  
## 4 4 0.64  
## 5 5 0.64  
## 6 6 0.00  
## [1] "S4" "Denmark" "1" "57" "1" "1.12" "-0.143"   
## [8] "71.5" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.78  
## 2 2 0.70  
## 3 3 0.66  
## 4 4 0.60  
## 5 5 0.56  
## 6 6 0.02  
## [1] "S4" "Denmark" "1" "57" "2" "0.98" "-0.122"   
## [8] "70.55" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.98  
## 2 2 0.94  
## 3 3 0.94  
## 4 4 0.92  
## 5 5 0.92  
## 6 6 0.00  
## [1] "S4" "Denmark" "2" "65" "1" "1.28" "-0.142"   
## [8] "47.96" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.96  
## 2 2 0.92  
## 3 3 0.92  
## 4 4 0.88  
## 5 5 0.88  
## 6 6 0.00  
## [1] "S4" "Denmark" "2" "65" "2" "1.26" "-0.142"   
## [8] "50.38" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.64  
## 2 2 0.60  
## 3 3 0.58  
## 4 4 0.36  
## 5 5 0.32  
## 6 6 0.04  
## [1] "S4" "Denmark" "3" "72" "1" "0.83" "-0.116"   
## [8] "89.08" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.80  
## 2 2 0.78  
## 3 3 0.78  
## 4 4 0.66  
## 5 5 0.66  
## 6 6 0.04  
## [1] "S4" "Denmark" "3" "72" "2" "1.05" "-0.122"   
## [8] "61.84" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.7647059  
## 2 2 0.7647059  
## 3 3 0.7647059  
## 4 4 0.6470588  
## 5 5 0.4705882  
## 6 6 0.0000000  
## [1] "S4" "Leura" "1" "58" "1" "1.05" "-0.138" "73.14"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.82  
## 2 2 0.80  
## 3 3 0.74  
## 4 4 0.62  
## 5 5 0.52  
## 6 6 0.00  
## [1] "S4" "Leura" "1" "58" "2" "1.09" "-0.145" "77.31"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.3333333  
## 2 2 0.3333333  
## 3 3 0.0000000  
## 4 4 0.0000000  
## 5 5 0.0000000  
## 6 6 0.0000000  
## [1] "S4" "Leura" "2" "64" "1" "0.38" "-0.076" "68.57"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.72  
## 2 2 0.70  
## 3 3 0.66  
## 4 4 0.58  
## 5 5 0.52  
## 6 6 0.00  
## [1] "S4" "Leura" "2" "64" "2" "0.95" "-0.121" "69.62"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.70  
## 2 2 0.70  
## 3 3 0.70  
## 4 4 0.58  
## 5 5 0.52  
## 6 6 0.02  
## [1] "S4" "Leura" "3" "67" "1" "0.94" "-0.116" "67.45"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.68  
## 2 2 0.64  
## 3 3 0.60  
## 4 4 0.42  
## 5 5 0.38  
## 6 6 0.00  
## [1] "S4" "Leura" "3" "67" "2" "0.89" "-0.125" "84.94"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.88  
## 2 2 0.76  
## 3 3 0.50  
## 4 4 0.10  
## 5 5 0.00  
## 6 6 0.00  
## [1] "S4" "Monti" "1" "59" "1" "1.08" "-0.202" "92.31"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.88  
## 2 2 0.86  
## 3 3 0.68  
## 4 4 0.52  
## 5 5 0.40  
## 6 6 0.00  
## [1] "S4" "Monti" "1" "59" "2" "1.15" "-0.17" "92.06" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.74  
## 2 2 0.66  
## 3 3 0.46  
## 4 4 0.26  
## 5 5 0.22  
## 6 6 0.00  
## [1] "S4" "Monti" "2" "66" "1" "0.91" "-0.149" "97.76"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.76  
## 2 2 0.66  
## 3 3 0.36  
## 4 4 0.16  
## 5 5 0.04  
## 6 6 0.00  
## [1] "S4" "Monti" "2" "66" "2" "0.92" "-0.167" "94.96"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.70  
## 2 2 0.64  
## 3 3 0.50  
## 4 4 0.34  
## 5 5 0.28  
## 6 6 0.00  
## [1] "S4" "Monti" "3" "68" "1" "0.88" "-0.135" "95.81"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.44  
## 2 2 0.32  
## 3 3 0.16  
## 4 4 0.04  
## 5 5 0.00  
## 6 6 0.00  
## [1] "S4" "Monti" "3" "68" "2" "0.49" "-0.094" "90.62"   
## [9] "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.60  
## 2 2 0.58  
## 3 3 0.52  
## 4 4 0.30  
## 5 5 0.24  
## 6 6 0.00  
## [1] "S4" "Narrikup" "1" "55" "1" "0.8"   
## [7] "-0.121" "92.34" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.86  
## 2 2 0.76  
## 3 3 0.64  
## 4 4 0.40  
## 5 5 0.34  
## 6 6 0.02  
## [1] "S4" "Narrikup" "1" "55" "2" "1.07"   
## [7] "-0.163" "96.15" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.70  
## 2 2 0.64  
## 3 3 0.58  
## 4 4 0.28  
## 5 5 0.20  
## 6 6 0.00  
## [1] "S4" "Narrikup" "2" "63" "1" "0.91"   
## [7] "-0.146" "94.95" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.64  
## 2 2 0.60  
## 3 3 0.54  
## 4 4 0.34  
## 5 5 0.26  
## 6 6 0.00  
## [1] "S4" "Narrikup" "2" "63" "2" "0.84"   
## [7] "-0.126" "92.93" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.74  
## 2 2 0.70  
## 3 3 0.58  
## 4 4 0.36  
## 5 5 0.26  
## 6 6 0.00  
## [1] "S4" "Narrikup" "3" "69" "1" "0.96"   
## [7] "-0.15" "95.76" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.84  
## 2 2 0.80  
## 3 3 0.66  
## 4 4 0.52  
## 5 5 0.46  
## 6 6 0.00  
## [1] "S4" "Narrikup" "3" "69" "2" "1.08"   
## [7] "-0.153" "87.3" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.68  
## 2 2 0.52  
## 3 3 0.48  
## 4 4 0.38  
## 5 5 0.38  
## 6 6 0.00  
## [1] "S4" "Woogenellup" "1" "60" "1"   
## [6] "0.8" "-0.112" "84.52" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.78  
## 2 2 0.76  
## 3 3 0.72  
## 4 4 0.72  
## 5 5 0.72  
## 6 6 0.00  
## [1] "S4" "Woogenellup" "1" "60" "2"   
## [6] "1.02" "-0.115" "50.24" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.64  
## 2 2 0.52  
## 3 3 0.52  
## 4 4 0.48  
## 5 5 0.42  
## 6 6 0.00  
## [1] "S4" "Woogenellup" "2" "62" "1"   
## [6] "0.78" "-0.101" "72.24" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.88  
## 2 2 0.88  
## 3 3 0.88  
## 4 4 0.88  
## 5 5 0.86  
## 6 6 0.02  
## [1] "S4" "Woogenellup" "2" "62" "2"   
## [6] "1.17" "-0.125" "44.45" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.84  
## 2 2 0.78  
## 3 3 0.78  
## 4 4 0.74  
## 5 5 0.72  
## 6 6 0.00  
## [1] "S4" "Woogenellup" "3" "71" "1"   
## [6] "1.09" "-0.126" "55.25" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.86  
## 2 2 0.80  
## 3 3 0.80  
## 4 4 0.78  
## 5 5 0.72  
## 6 6 0.18  
## [1] "S4" "Woogenellup" "3" "71" "2"   
## [6] "1.06" "-0.105" "59.39" "6"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S4"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.2432432  
## [1] "S6" "Antas" "1" "77" "1" "0.24" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.5  
## [1] "S6" "Antas" "1" "77" "2" "0.5" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.38  
## [1] "S6" "Antas" "2" "84" "1" "0.38" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.74  
## [1] "S6" "Antas" "2" "84" "2" "0.74" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.07142857  
## [1] "S6" "Antas" "3" "87" "1" "0.07" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.36  
## [1] "S6" "Antas" "3" "87" "2" "0.36" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.58  
## [1] "S6" "Denmark" "1" "73" "1" "0.58" NA   
## [8] "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.66  
## [1] "S6" "Denmark" "1" "73" "2" "0.66" NA   
## [8] "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.68  
## [1] "S6" "Denmark" "2" "82" "1" "0.68" NA   
## [8] "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.58  
## [1] "S6" "Denmark" "2" "82" "2" "0.58" NA   
## [8] "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.4  
## [1] "S6" "Denmark" "3" "88" "1" "0.4" NA   
## [8] "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.76  
## [1] "S6" "Denmark" "3" "88" "2" "0.76" NA   
## [8] "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.3513514  
## [1] "S6" "Leura" "1" "76" "1" "0.35" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.5  
## [1] "S6" "Leura" "1" "76" "2" "0.5" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.4878049  
## [1] "S6" "Leura" "2" "79" "1" "0.49" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.66  
## [1] "S6" "Leura" "2" "79" "2" "0.66" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.2  
## [1] "S6" "Leura" "3" "86" "1" "0.2" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.5957447  
## [1] "S6" "Leura" "3" "86" "2" "0.6" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.8163265  
## [1] "S6" "Monti" "1" "74" "1" "0.82" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.84  
## [1] "S6" "Monti" "1" "74" "2" "0.84" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.8181818  
## [1] "S6" "Monti" "2" "80" "1" "0.82" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.74  
## [1] "S6" "Monti" "2" "80" "2" "0.74" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.68  
## [1] "S6" "Monti" "3" "90" "1" "0.68" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.84  
## [1] "S6" "Monti" "3" "90" "2" "0.84" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.5862069  
## [1] "S6" "Narrikup" "1" "78" "1" "0.59"   
## [7] NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.64  
## [1] "S6" "Narrikup" "1" "78" "2" "0.64"   
## [7] NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.2162162  
## [1] "S6" "Narrikup" "2" "83" "1" "0.22"   
## [7] NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.44  
## [1] "S6" "Narrikup" "2" "83" "2" "0.44"   
## [7] NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.76  
## [1] "S6" "Narrikup" "3" "89" "1" "0.76"   
## [7] NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.56  
## [1] "S6" "Narrikup" "3" "89" "2" "0.56"   
## [7] NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.3  
## [1] "S6" "Woogenellup" "1" "75" "1"   
## [6] "0.3" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.68  
## [1] "S6" "Woogenellup" "1" "75" "2"   
## [6] "0.68" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.2727273  
## [1] "S6" "Woogenellup" "2" "81" "1"   
## [6] "0.27" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.38  
## [1] "S6" "Woogenellup" "2" "81" "2"   
## [6] "0.38" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.4333333  
## [1] "S6" "Woogenellup" "3" "85" "1"   
## [6] "0.43" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.1818182  
## [1] "S6" "Woogenellup" "3" "85" "2"   
## [6] "0.18" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S6"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.1  
## [1] "S7" "Antas" "1" "92" "1" "0.1" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.26  
## [1] "S7" "Antas" "1" "92" "2" "0.26" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.6153846  
## [1] "S7" "Antas" "2" "100" "1" "0.62" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.32  
## [1] "S7" "Antas" "2" "100" "2" "0.32" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.56  
## [1] "S7" "Antas" "3" "105" "1" "0.56" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.62  
## [1] "S7" "Antas" "3" "105" "2" "0.62" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.8  
## [1] "S7" "Denmark" "1" "91" "1" "0.8" NA   
## [8] "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.92  
## [1] "S7" "Denmark" "1" "91" "2" "0.92" NA   
## [8] "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.82  
## [1] "S7" "Denmark" "2" "101" "1" "0.82" NA   
## [8] "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.82  
## [1] "S7" "Denmark" "2" "101" "2" "0.82" NA   
## [8] "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.8571429  
## [1] "S7" "Denmark" "3" "108" "1" "0.86" NA   
## [8] "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.88  
## [1] "S7" "Denmark" "3" "108" "2" "0.88" NA   
## [8] "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.5  
## [1] "S7" "Leura" "1" "94" "1" "0.5" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.64  
## [1] "S7" "Leura" "1" "94" "2" "0.64" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.76  
## [1] "S7" "Leura" "2" "98" "1" "0.76" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.76  
## [1] "S7" "Leura" "2" "98" "2" "0.76" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.82  
## [1] "S7" "Leura" "3" "103" "1" "0.82" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.78  
## [1] "S7" "Leura" "3" "103" "2" "0.78" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.88  
## [1] "S7" "Monti" "1" "96" "1" "0.88" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.96  
## [1] "S7" "Monti" "1" "96" "2" "0.96" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.94  
## [1] "S7" "Monti" "2" "102" "1" "0.94" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.96  
## [1] "S7" "Monti" "2" "102" "2" "0.96" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 1  
## [1] "S7" "Monti" "3" "106" "1" "1" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.98  
## [1] "S7" "Monti" "3" "106" "2" "0.98" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.2553191  
## [1] "S7" "Narrikup" "1" "95" "1" "0.26"   
## [7] NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.4583333  
## [1] "S7" "Narrikup" "1" "95" "2" "0.46"   
## [7] NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.76  
## [1] "S7" "Narrikup" "2" "99" "1" "0.76"   
## [7] NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.7647059  
## [1] "S7" "Narrikup" "2" "99" "2" "0.76"   
## [7] NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.7333333  
## [1] "S7" "Narrikup" "3" "107" "1" "0.73"   
## [7] NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.65  
## [1] "S7" "Narrikup" "3" "107" "2" "0.65"   
## [7] NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.2195122  
## [1] "S7" "Woogenellup" "1" "93" "1"   
## [6] "0.22" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.42  
## [1] "S7" "Woogenellup" "1" "93" "2"   
## [6] "0.42" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.5  
## [1] "S7" "Woogenellup" "2" "97" "1"   
## [6] "0.5" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.34  
## [1] "S7" "Woogenellup" "2" "97" "2"   
## [6] "0.34" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.58  
## [1] "S7" "Woogenellup" "3" "104" "1"   
## [6] "0.58" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

## x y  
## 1 1 0.82  
## [1] "S7" "Woogenellup" "3" "104" "2"   
## [6] "0.82" NA "0" "1"

## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated  
  
## Warning in `[<-.factor`(`\*tmp\*`, ri, value = "S7"): invalid factor level,  
## NA generated

summary(all.data)

## Sow Cv Block Plot Depth   
## S1 : 36 Antas: 36 1:72 1 : 2 buried : 1   
## NA's:180 NA's :180 2:72 2 : 2 surface: 0   
## 3:72 3 : 2 NA's :215   
## 4 : 2   
## 5 : 2   
## (Other):170   
## NA's : 36   
## Int Slope R2   
## Length:216 Length:216 Length:216   
## Class :character Class :character Class :character   
## Mode :character Mode :character Mode :character   
##   
##   
##   
##   
## n   
## Length:216   
## Class :character   
## Mode :character   
##   
##   
##   
##

Graph date Propsoft

#   
# df\_seed %>%  
# select(SowTreat, Date,Block, Cultivar,PropSoft) %>%  
# ggplot (aes(x=SowTreat,y=PropSoft)) +  
# geom\_point(aes(colour = Block)) +  
# facet\_grid(Block ~ Cultivar)  
#   
# #Graph seedsoft for S1, rounds 1 2 and 3  
# head(df\_seed)  
# df\_seed %>%  
# select(SowTreat, Date,Block, Cultivar,Round, PropSoft)%>%  
# ggplot (aes(x=Round,y=PropSoft)) +  
# geom\_point(aes(colour = SowTreat)) +  
# facet\_grid(Block ~ Cultivar)

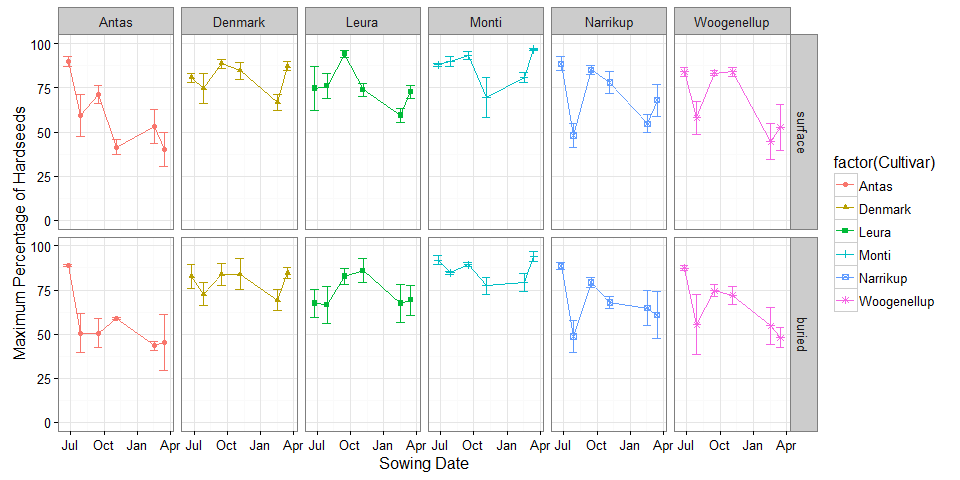
#Sum up the PropSoft starting form Round 1 (minimum soft) then round 2 and 3   
#Fix here   
  
head(df\_seed)

## Block Cultivar SowTreat SowingD Plot Depth Date Round  
## 1 1 Antas S1 24/06/2015 1 surface 2016-02-16 1  
## 2 1 Monti S1 24/06/2015 2 surface 2016-02-16 1  
## 3 1 Denmark S1 24/06/2015 3 surface 2016-02-16 1  
## 4 1 Leura S1 24/06/2015 4 surface 2016-02-16 1  
## 5 1 Narrikup S1 24/06/2015 5 surface 2016-02-16 1  
## 6 1 Woogenellup S1 24/06/2015 6 surface 2016-02-16 1  
## InitialSeedlotR1Number SeedNumber Soft PropSoft  
## 1 50 50 7 14  
## 2 50 50 6 12  
## 3 50 50 7 14  
## 4 50 50 2 4  
## 5 50 50 2 4  
## 6 50 50 9 18

df\_seed %>%  
 mutate(SumPropSoft = cumsum(PropSoft))

## Block Cultivar SowTreat SowingD Plot Depth Date Round  
## 1 1 Antas S1 24/06/2015 1 surface 2016-02-16 1  
## 2 1 Monti S1 24/06/2015 2 surface 2016-02-16 1  
## 3 1 Denmark S1 24/06/2015 3 surface 2016-02-16 1  
## 4 1 Leura S1 24/06/2015 4 surface 2016-02-16 1  
## 5 1 Narrikup S1 24/06/2015 5 surface 2016-02-16 1  
## 6 1 Woogenellup S1 24/06/2015 6 surface 2016-02-16 1  
## 7 2 Antas S1 24/06/2015 7 surface 2016-02-16 1  
## 8 2 Woogenellup S1 24/06/2015 8 surface 2016-02-16 1  
## 9 2 Denmark S1 24/06/2015 9 surface 2016-02-16 1  
## 10 2 Monti S1 24/06/2015 10 surface 2016-02-16 1  
## 11 2 Narrikup S1 24/06/2015 11 surface 2016-02-16 1  
## 12 2 Leura S1 24/06/2015 12 surface 2016-02-16 1  
## 13 3 Woogenellup S1 24/06/2015 13 surface 2016-02-16 1  
## 14 3 Antas S1 24/06/2015 14 surface 2016-02-16 1  
## 15 3 Monti S1 24/06/2015 15 surface 2016-02-16 1  
## 16 3 Narrikup S1 24/06/2015 16 surface 2016-02-16 1  
## 17 3 Denmark S1 24/06/2015 17 surface 2016-02-16 1  
## 18 3 Leura S1 24/06/2015 18 surface 2016-02-16 1  
## 19 1 Antas S1 24/06/2015 1 buried 2016-02-16 1  
## 20 1 Monti S1 24/06/2015 2 buried 2016-02-16 1  
## 21 1 Denmark S1 24/06/2015 3 buried 2016-02-16 1  
## 22 1 Leura S1 24/06/2015 4 buried 2016-02-16 1  
## 23 1 Narrikup S1 24/06/2015 5 buried 2016-02-16 1  
## 24 1 Woogenellup S1 24/06/2015 6 buried 2016-02-16 1  
## 25 2 Antas S1 24/06/2015 7 buried 2016-02-16 1  
## 26 2 Woogenellup S1 24/06/2015 8 buried 2016-02-16 1  
## 27 2 Denmark S1 24/06/2015 9 buried 2016-02-16 1  
## 28 2 Monti S1 24/06/2015 10 buried 2016-02-16 1  
## 29 2 Narrikup S1 24/06/2015 11 buried 2016-02-16 1  
## 30 2 Leura S1 24/06/2015 12 buried 2016-02-16 1  
## 31 3 Woogenellup S1 24/06/2015 13 buried 2016-02-16 1  
## 32 3 Antas S1 24/06/2015 14 buried 2016-02-16 1  
## 33 3 Monti S1 24/06/2015 15 buried 2016-02-16 1  
## 34 3 Narrikup S1 24/06/2015 16 buried 2016-02-16 1  
## 35 3 Denmark S1 24/06/2015 17 buried 2016-02-16 1  
## 36 3 Leura S1 24/06/2015 18 buried 2016-02-16 1  
## 37 1 Antas S1 24/06/2015 1 surface 0016-03-09 2  
## 38 1 Monti S1 24/06/2015 2 surface 0016-03-09 2  
## 39 1 Denmark S1 24/06/2015 3 surface 0016-03-09 2  
## 40 1 Leura S1 24/06/2015 4 surface 0016-03-09 2  
## 41 1 Narrikup S1 24/06/2015 5 surface 0016-03-09 2  
## 42 1 Woogenellup S1 24/06/2015 6 surface 0016-03-09 2  
## 43 2 Antas S1 24/06/2015 7 surface 0016-03-09 2  
## 44 2 Woogenellup S1 24/06/2015 8 surface 0016-03-09 2  
## 45 2 Denmark S1 24/06/2015 9 surface 0016-03-09 2  
## 46 2 Monti S1 24/06/2015 10 surface 0016-03-09 2  
## 47 2 Narrikup S1 24/06/2015 11 surface 0016-03-09 2  
## 48 2 Leura S1 24/06/2015 12 surface 0016-03-09 2  
## 49 3 Woogenellup S1 24/06/2015 13 surface 0016-03-09 2  
## 50 3 Antas S1 24/06/2015 14 surface 0016-03-09 2  
## 51 3 Monti S1 24/06/2015 15 surface 0016-03-09 2  
## 52 3 Narrikup S1 24/06/2015 16 surface 0016-03-09 2  
## 53 3 Denmark S1 24/06/2015 17 surface 0016-03-09 2  
## 54 3 Leura S1 24/06/2015 18 surface 0016-03-09 2  
## 55 1 Antas S1 24/06/2015 1 buried 0016-03-09 2  
## 56 1 Monti S1 24/06/2015 2 buried 0016-03-09 2  
## 57 1 Denmark S1 24/06/2015 3 buried 0016-03-09 2  
## 58 1 Leura S1 24/06/2015 4 buried 0016-03-09 2  
## 59 1 Narrikup S1 24/06/2015 5 buried 0016-03-09 2  
## 60 1 Woogenellup S1 24/06/2015 6 buried 0016-03-09 2  
## 61 2 Antas S1 24/06/2015 7 buried 0016-03-09 2  
## 62 2 Woogenellup S1 24/06/2015 8 buried 0016-03-09 2  
## 63 2 Denmark S1 24/06/2015 9 buried 0016-03-09 2  
## 64 2 Monti S1 24/06/2015 10 buried 0016-03-09 2  
## 65 2 Narrikup S1 24/06/2015 11 buried 0016-03-09 2  
## 66 2 Leura S1 24/06/2015 12 buried 0016-03-09 2  
## 67 3 Woogenellup S1 24/06/2015 13 buried 0016-03-09 2  
## 68 3 Antas S1 24/06/2015 14 buried 0016-03-09 2  
## 69 3 Monti S1 24/06/2015 15 buried 0016-03-09 2  
## 70 3 Narrikup S1 24/06/2015 16 buried 0016-03-09 2  
## 71 3 Denmark S1 24/06/2015 17 buried 0016-03-09 2  
## 72 3 Leura S1 24/06/2015 18 buried 0016-03-09 2  
## 73 1 Narrikup S2 28/07/2015 19 surface 2016-03-16 1  
## 74 1 Monti S2 28/07/2015 20 surface 2016-03-16 1  
## 75 1 Woogenellup S2 28/07/2015 21 surface 2016-03-16 1  
## 76 1 Leura S2 28/07/2015 22 surface 2016-03-16 1  
## 77 1 Denmark S2 28/07/2015 23 surface 2016-03-16 1  
## 78 1 Antas S2 28/07/2015 24 surface 2016-03-16 1  
## 79 2 Leura S2 28/07/2015 25 surface 2016-03-16 1  
## 80 2 Woogenellup S2 28/07/2015 26 surface 2016-03-16 1  
## 81 2 Denmark S2 28/07/2015 27 surface 2016-03-16 1  
## 82 2 Narrikup S2 28/07/2015 28 surface 2016-03-16 1  
## 83 2 Antas S2 28/07/2015 29 surface 2016-03-16 1  
## 84 2 Monti S2 28/07/2015 30 surface 2016-03-16 1  
## 85 3 Denmark S2 28/07/2015 31 surface 2016-03-16 1  
## 86 3 Antas S2 28/07/2015 32 surface 2016-03-16 1  
## 87 3 Monti S2 28/07/2015 33 surface 2016-03-16 1  
## 88 3 Woogenellup S2 28/07/2015 34 surface 2016-03-16 1  
## 89 3 Leura S2 28/07/2015 35 surface 2016-03-16 1  
## 90 3 Narrikup S2 28/07/2015 36 surface 2016-03-16 1  
## 91 1 Narrikup S2 28/07/2015 19 buried 2016-03-16 1  
## 92 1 Monti S2 28/07/2015 20 buried 2016-03-16 1  
## 93 1 Woogenellup S2 28/07/2015 21 buried 2016-03-16 1  
## 94 1 Leura S2 28/07/2015 22 buried 2016-03-16 1  
## 95 1 Denmark S2 28/07/2015 23 buried 2016-03-16 1  
## 96 1 Antas S2 28/07/2015 24 buried 2016-03-16 1  
## 97 2 Leura S2 28/07/2015 25 buried 2016-03-16 1  
## 98 2 Woogenellup S2 28/07/2015 26 buried 2016-03-16 1  
## 99 2 Denmark S2 28/07/2015 27 buried 2016-03-16 1  
## 100 2 Narrikup S2 28/07/2015 28 buried 2016-03-16 1  
## 101 2 Antas S2 28/07/2015 29 buried 2016-03-16 1  
## 102 2 Monti S2 28/07/2015 30 buried 2016-03-16 1  
## 103 3 Denmark S2 28/07/2015 31 buried 2016-03-16 1  
## 104 3 Antas S2 28/07/2015 32 buried 2016-03-16 1  
## 105 3 Monti S2 28/07/2015 33 buried 2016-03-16 1  
## 106 3 Woogenellup S2 28/07/2015 34 buried 2016-03-16 1  
## 107 3 Leura S2 28/07/2015 35 buried 2016-03-16 1  
## 108 3 Narrikup S2 28/07/2015 36 buried 2016-03-16 1  
## 109 1 Antas S1 24/06/2015 1 surface 2016-05-13 3  
## 110 1 Monti S1 24/06/2015 2 surface 2016-05-13 3  
## 111 1 Denmark S1 24/06/2015 3 surface 2016-05-13 3  
## 112 1 Leura S1 24/06/2015 4 surface 2016-05-13 3  
## 113 1 Narrikup S1 24/06/2015 5 surface 2016-05-13 3  
## 114 1 Woogenellup S1 24/06/2015 6 surface 2016-05-13 3  
## 115 2 Antas S1 24/06/2015 7 surface 2016-05-13 3  
## 116 2 Woogenellup S1 24/06/2015 8 surface 2016-05-13 3  
## 117 2 Denmark S1 24/06/2015 9 surface 2016-05-13 3  
## 118 2 Monti S1 24/06/2015 10 surface 2016-05-13 3  
## 119 2 Narrikup S1 24/06/2015 11 surface 2016-05-13 3  
## 120 2 Leura S1 24/06/2015 12 surface 2016-05-13 3  
## 121 3 Woogenellup S1 24/06/2015 13 surface 2016-05-13 3  
## 122 3 Antas S1 24/06/2015 14 surface 2016-05-13 3  
## 123 3 Monti S1 24/06/2015 15 surface 2016-05-13 3  
## 124 3 Narrikup S1 24/06/2015 16 surface 2016-05-13 3  
## 125 3 Denmark S1 24/06/2015 17 surface 2016-05-13 3  
## 126 3 Leura S1 24/06/2015 18 surface 2016-05-13 3  
## 127 1 Antas S1 24/06/2015 1 buried 2016-05-13 3  
## 128 1 Monti S1 24/06/2015 2 buried 2016-05-13 3  
## 129 1 Denmark S1 24/06/2015 3 buried 2016-05-13 3  
## 130 1 Leura S1 24/06/2015 4 buried 2016-05-13 3  
## 131 1 Narrikup S1 24/06/2015 5 buried 2016-05-13 3  
## 132 1 Woogenellup S1 24/06/2015 6 buried 2016-05-13 3  
## 133 2 Antas S1 24/06/2015 7 buried 2016-05-13 3  
## 134 2 Woogenellup S1 24/06/2015 8 buried 2016-05-13 3  
## 135 2 Denmark S1 24/06/2015 9 buried 2016-05-13 3  
## 136 2 Monti S1 24/06/2015 10 buried 2016-05-13 3  
## 137 2 Narrikup S1 24/06/2015 11 buried 2016-05-13 3  
## 138 2 Leura S1 24/06/2015 12 buried 2016-05-13 3  
## 139 3 Woogenellup S1 24/06/2015 13 buried 2016-05-13 3  
## 140 3 Antas S1 24/06/2015 14 buried 2016-05-13 3  
## 141 3 Monti S1 24/06/2015 15 buried 2016-05-13 3  
## 142 3 Narrikup S1 24/06/2015 16 buried 2016-05-13 3  
## 143 3 Denmark S1 24/06/2015 17 buried 2016-05-13 3  
## 144 3 Leura S1 24/06/2015 18 buried 2016-05-13 3  
## 145 1 Narrikup S2 28/07/2015 19 surface 2016-05-27 2  
## 146 1 Monti S2 28/07/2015 20 surface 2016-05-27 2  
## 147 1 Woogenellup S2 28/07/2015 21 surface 2016-05-27 2  
## 148 1 Leura S2 28/07/2015 22 surface 2016-05-27 2  
## 149 1 Denmark S2 28/07/2015 23 surface 2016-05-27 2  
## 150 1 Antas S2 28/07/2015 24 surface 2016-05-27 2  
## 151 2 Leura S2 28/07/2015 25 surface 2016-05-27 2  
## 152 2 Woogenellup S2 28/07/2015 26 surface 2016-05-27 2  
## 153 2 Denmark S2 28/07/2015 27 surface 2016-05-27 2  
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## 156 2 Monti S2 28/07/2015 30 surface 2016-05-27 2  
## 157 3 Denmark S2 28/07/2015 31 surface 2016-05-27 2  
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## 159 3 Monti S2 28/07/2015 33 surface 2016-05-27 2  
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## 161 3 Leura S2 28/07/2015 35 surface 2016-05-27 2  
## 162 3 Narrikup S2 28/07/2015 36 surface 2016-05-27 2  
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## 164 1 Monti S2 28/07/2015 20 buried 2016-05-27 2  
## 165 1 Woogenellup S2 28/07/2015 21 buried 2016-05-27 2  
## 166 1 Leura S2 28/07/2015 22 buried 2016-05-27 2  
## 167 1 Denmark S2 28/07/2015 23 buried 2016-05-27 2  
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## 169 2 Leura S2 28/07/2015 25 buried 2016-05-27 2  
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## 177 3 Monti S2 28/07/2015 33 buried 2016-05-27 2  
## 178 3 Woogenellup S2 28/07/2015 34 buried 2016-05-27 2  
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## 180 3 Narrikup S2 28/07/2015 36 buried 2016-05-27 2  
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## 184 1 Leura S3 15/09/2015 40 surface 2016-05-20 1  
## 185 1 Narrikup S3 15/09/2015 41 surface 2016-05-20 1  
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## 187 2 Woogenellup S3 15/09/2015 43 surface 2016-05-20 1  
## 188 2 Leura S3 15/09/2015 44 surface 2016-05-20 1  
## 189 2 Narrikup S3 15/09/2015 45 surface 2016-05-20 1  
## 190 2 Antas S3 15/09/2015 46 surface 2016-05-20 1  
## 191 2 Denmark S3 15/09/2015 47 surface 2016-05-20 1  
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## 499 3 Denmark S2 28/07/2015 31 buried 2016-08-04 5  
## 500 3 Antas S2 28/07/2015 32 buried 2016-08-04 5  
## 501 3 Monti S2 28/07/2015 33 buried 2016-08-04 5  
## 502 3 Woogenellup S2 28/07/2015 34 buried 2016-08-04 5  
## 503 3 Leura S2 28/07/2015 35 buried 2016-08-04 5  
## 504 3 Narrikup S2 28/07/2015 36 buried 2016-08-04 5  
## 505 1 Denmark S3 15/09/2015 37 surface 0016-08-09 4  
## 506 1 Antas S3 15/09/2015 38 surface 0016-08-09 4  
## 507 1 Woogenellup S3 15/09/2015 39 surface 0016-08-09 4  
## 508 1 Leura S3 15/09/2015 40 surface 0016-08-09 4  
## 509 1 Narrikup S3 15/09/2015 41 surface 0016-08-09 4  
## 510 1 Monti S3 15/09/2015 42 surface 0016-08-09 4  
## 511 2 Woogenellup S3 15/09/2015 43 surface 0016-08-09 4  
## 512 2 Leura S3 15/09/2015 44 surface 0016-08-09 4  
## 513 2 Narrikup S3 15/09/2015 45 surface 0016-08-09 4  
## 514 2 Antas S3 15/09/2015 46 surface 0016-08-09 4  
## 515 2 Denmark S3 15/09/2015 47 surface 0016-08-09 4  
## 516 2 Monti S3 15/09/2015 48 surface 0016-08-09 4  
## 517 3 Leura S3 15/09/2015 49 surface 0016-08-09 4  
## 518 3 Woogenellup S3 15/09/2015 50 surface 0016-08-09 4  
## 519 3 Antas S3 15/09/2015 51 surface 0016-08-09 4  
## 520 3 Monti S3 15/09/2015 52 surface 0016-08-09 4  
## 521 3 Narrikup S3 15/09/2015 53 surface 0016-08-09 4  
## 522 3 Denmark S3 15/09/2015 54 surface 0016-08-09 4  
## 523 1 Denmark S3 15/09/2015 37 buried 0016-08-09 4  
## 524 1 Antas S3 15/09/2015 38 buried 0016-08-09 4  
## 525 1 Woogenellup S3 15/09/2015 39 buried 0016-08-09 4  
## 526 1 Leura S3 15/09/2015 40 buried 0016-08-09 4  
## 527 1 Narrikup S3 15/09/2015 41 buried 0016-08-09 4  
## 528 1 Monti S3 15/09/2015 42 buried 0016-08-09 4  
## 529 2 Woogenellup S3 15/09/2015 43 buried 0016-08-09 4  
## 530 2 Leura S3 15/09/2015 44 buried 0016-08-09 4  
## 531 2 Narrikup S3 15/09/2015 45 buried 0016-08-09 4  
## 532 2 Antas S3 15/09/2015 46 buried 0016-08-09 4  
## 533 2 Denmark S3 15/09/2015 47 buried 0016-08-09 4  
## 534 2 Monti S3 15/09/2015 48 buried 0016-08-09 4  
## 535 3 Leura S3 15/09/2015 49 buried 0016-08-09 4  
## 536 3 Woogenellup S3 15/09/2015 50 buried 0016-08-09 4  
## 537 3 Antas S3 15/09/2015 51 buried 0016-08-09 4  
## 538 3 Monti S3 15/09/2015 52 buried 0016-08-09 4  
## 539 3 Narrikup S3 15/09/2015 53 buried 0016-08-09 4  
## 540 3 Denmark S3 15/09/2015 54 buried 0016-08-09 4  
## 541 1 Antas S1 24/06/2015 1 surface 2016-08-16 6  
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## 543 1 Denmark S1 24/06/2015 3 surface 2016-08-16 6  
## 544 1 Leura S1 24/06/2015 4 surface 2016-08-16 6  
## 545 1 Narrikup S1 24/06/2015 5 surface 2016-08-16 6  
## 546 1 Woogenellup S1 24/06/2015 6 surface 2016-08-16 6  
## 547 2 Antas S1 24/06/2015 7 surface 2016-08-16 6  
## 548 2 Woogenellup S1 24/06/2015 8 surface 2016-08-16 6  
## 549 2 Denmark S1 24/06/2015 9 surface 2016-08-16 6  
## 550 2 Monti S1 24/06/2015 10 surface 2016-08-16 6  
## 551 2 Narrikup S1 24/06/2015 11 surface 2016-08-16 6  
## 552 2 Leura S1 24/06/2015 12 surface 2016-08-16 6  
## 553 3 Woogenellup S1 24/06/2015 13 surface 2016-08-16 6  
## 554 3 Antas S1 24/06/2015 14 surface 2016-08-16 6  
## 555 3 Monti S1 24/06/2015 15 surface 2016-08-16 6  
## 556 3 Narrikup S1 24/06/2015 16 surface 2016-08-16 6  
## 557 3 Denmark S1 24/06/2015 17 surface 2016-08-16 6  
## 558 3 Leura S1 24/06/2015 18 surface 2016-08-16 6  
## 559 1 Antas S1 24/06/2015 1 buried 2016-08-16 6  
## 560 1 Monti S1 24/06/2015 2 buried 2016-08-16 6  
## 561 1 Denmark S1 24/06/2015 3 buried 2016-08-16 6  
## 562 1 Leura S1 24/06/2015 4 buried 2016-08-16 6  
## 563 1 Narrikup S1 24/06/2015 5 buried 2016-08-16 6  
## 564 1 Woogenellup S1 24/06/2015 6 buried 2016-08-16 6  
## 565 2 Antas S1 24/06/2015 7 buried 2016-08-16 6  
## 566 2 Woogenellup S1 24/06/2015 8 buried 2016-08-16 6  
## 567 2 Denmark S1 24/06/2015 9 buried 2016-08-16 6  
## 568 2 Monti S1 24/06/2015 10 buried 2016-08-16 6  
## 569 2 Narrikup S1 24/06/2015 11 buried 2016-08-16 6  
## 570 2 Leura S1 24/06/2015 12 buried 2016-08-16 6  
## 571 3 Woogenellup S1 24/06/2015 13 buried 2016-08-16 6  
## 572 3 Antas S1 24/06/2015 14 buried 2016-08-16 6  
## 573 3 Monti S1 24/06/2015 15 buried 2016-08-16 6  
## 574 3 Narrikup S1 24/06/2015 16 buried 2016-08-16 6  
## 575 3 Denmark S1 24/06/2015 17 buried 2016-08-16 6  
## 576 3 Leura S1 24/06/2015 18 buried 2016-08-16 6  
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## 580 1 Leura S3 15/09/2015 40 surface 2016-09-01 5  
## 581 1 Narrikup S3 15/09/2015 41 surface 2016-09-01 5  
## 582 1 Monti S3 15/09/2015 42 surface 2016-09-01 5  
## 583 2 Woogenellup S3 15/09/2015 43 surface 2016-09-01 5  
## 584 2 Leura S3 15/09/2015 44 surface 2016-09-01 5  
## 585 2 Narrikup S3 15/09/2015 45 surface 2016-09-01 5  
## 586 2 Antas S3 15/09/2015 46 surface 2016-09-01 5  
## 587 2 Denmark S3 15/09/2015 47 surface 2016-09-01 5  
## 588 2 Monti S3 15/09/2015 48 surface 2016-09-01 5  
## 589 3 Leura S3 15/09/2015 49 surface 2016-09-01 5  
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## 592 3 Monti S3 15/09/2015 52 surface 2016-09-01 5  
## 593 3 Narrikup S3 15/09/2015 53 surface 2016-09-01 5  
## 594 3 Denmark S3 15/09/2015 54 surface 2016-09-01 5  
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## 596 1 Antas S3 15/09/2015 38 buried 2016-09-01 5  
## 597 1 Woogenellup S3 15/09/2015 39 buried 2016-09-01 5  
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## 599 1 Narrikup S3 15/09/2015 41 buried 2016-09-01 5  
## 600 1 Monti S3 15/09/2015 42 buried 2016-09-01 5  
## 601 2 Woogenellup S3 15/09/2015 43 buried 2016-09-01 5  
## 602 2 Leura S3 15/09/2015 44 buried 2016-09-01 5  
## 603 2 Narrikup S3 15/09/2015 45 buried 2016-09-01 5  
## 604 2 Antas S3 15/09/2015 46 buried 2016-09-01 5  
## 605 2 Denmark S3 15/09/2015 47 buried 2016-09-01 5  
## 606 2 Monti S3 15/09/2015 48 buried 2016-09-01 5  
## 607 3 Leura S3 15/09/2015 49 buried 2016-09-01 5  
## 608 3 Woogenellup S3 15/09/2015 50 buried 2016-09-01 5  
## 609 3 Antas S3 15/09/2015 51 buried 2016-09-01 5  
## 610 3 Monti S3 15/09/2015 52 buried 2016-09-01 5  
## 611 3 Narrikup S3 15/09/2015 53 buried 2016-09-01 5  
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## 614 1 Monti S2 28/07/2015 20 surface 0016-09-15 6  
## 615 1 Woogenellup S2 28/07/2015 21 surface 0016-09-15 6  
## 616 1 Leura S2 28/07/2015 22 surface 0016-09-15 6  
## 617 1 Denmark S2 28/07/2015 23 surface 0016-09-15 6  
## 618 1 Antas S2 28/07/2015 24 surface 0016-09-15 6  
## 619 2 Leura S2 28/07/2015 25 surface 0016-09-15 6  
## 620 2 Woogenellup S2 28/07/2015 26 surface 0016-09-15 6  
## 621 2 Denmark S2 28/07/2015 27 surface 0016-09-15 6  
## 622 2 Narrikup S2 28/07/2015 28 surface 0016-09-15 6  
## 623 2 Antas S2 28/07/2015 29 surface 0016-09-15 6  
## 624 2 Monti S2 28/07/2015 30 surface 0016-09-15 6  
## 625 3 Denmark S2 28/07/2015 31 surface 0016-09-15 6  
## 626 3 Antas S2 28/07/2015 32 surface 0016-09-15 6  
## 627 3 Monti S2 28/07/2015 33 surface 0016-09-15 6  
## 628 3 Woogenellup S2 28/07/2015 34 surface 0016-09-15 6  
## 629 3 Leura S2 28/07/2015 35 surface 0016-09-15 6  
## 630 3 Narrikup S2 28/07/2015 36 surface 0016-09-15 6  
## 631 1 Narrikup S2 28/07/2015 19 buried 0016-09-15 6  
## 632 1 Monti S2 28/07/2015 20 buried 0016-09-15 6  
## 633 1 Woogenellup S2 28/07/2015 21 buried 0016-09-15 6  
## 634 1 Leura S2 28/07/2015 22 buried 0016-09-15 6  
## 635 1 Denmark S2 28/07/2015 23 buried 0016-09-15 6  
## 636 1 Antas S2 28/07/2015 24 buried 0016-09-15 6  
## 637 2 Leura S2 28/07/2015 25 buried 0016-09-15 6  
## 638 2 Woogenellup S2 28/07/2015 26 buried 0016-09-15 6  
## 639 2 Denmark S2 28/07/2015 27 buried 0016-09-15 6  
## 640 2 Narrikup S2 28/07/2015 28 buried 0016-09-15 6  
## 641 2 Antas S2 28/07/2015 29 buried 0016-09-15 6  
## 642 2 Monti S2 28/07/2015 30 buried 0016-09-15 6  
## 643 3 Denmark S2 28/07/2015 31 buried 0016-09-15 6  
## 644 3 Antas S2 28/07/2015 32 buried 0016-09-15 6  
## 645 3 Monti S2 28/07/2015 33 buried 0016-09-15 6  
## 646 3 Woogenellup S2 28/07/2015 34 buried 0016-09-15 6  
## 647 3 Leura S2 28/07/2015 35 buried 0016-09-15 6  
## 648 3 Narrikup S2 28/07/2015 36 buried 0016-09-15 6  
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## 654 1 Monti S3 15/09/2015 42 surface 2016-09-25 6  
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## 656 2 Leura S3 15/09/2015 44 surface 2016-09-25 6  
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## 659 2 Denmark S3 15/09/2015 47 surface 2016-09-25 6  
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## 664 3 Monti S3 15/09/2015 52 surface 2016-09-25 6  
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## 669 1 Woogenellup S3 15/09/2015 39 buried 2016-09-25 6  
## 670 1 Leura S3 15/09/2015 40 buried 2016-09-25 6  
## 671 1 Narrikup S3 15/09/2015 41 buried 2016-09-25 6  
## 672 1 Monti S3 15/09/2015 42 buried 2016-09-25 6  
## 673 2 Woogenellup S3 15/09/2015 43 buried 2016-09-25 6  
## 674 2 Leura S3 15/09/2015 44 buried 2016-09-25 6  
## 675 2 Narrikup S3 15/09/2015 45 buried 2016-09-25 6  
## 676 2 Antas S3 15/09/2015 46 buried 2016-09-25 6  
## 677 2 Denmark S3 15/09/2015 47 buried 2016-09-25 6  
## 678 2 Monti S3 15/09/2015 48 buried 2016-09-25 6  
## 679 3 Leura S3 15/09/2015 49 buried 2016-09-25 6  
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## 681 3 Antas S3 15/09/2015 51 buried 2016-09-25 6  
## 682 3 Monti S3 15/09/2015 52 buried 2016-09-25 6  
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## 687 1 Denmark S4 5/11/2015 57 surface 0016-07-06 2  
## 688 1 Leura S4 5/11/2015 58 surface 0016-07-06 2  
## 689 1 Monti S4 5/11/2015 59 surface 0016-07-06 2  
## 690 1 Woogenellup S4 5/11/2015 60 surface 0016-07-06 2  
## 691 2 Antas S4 5/11/2015 61 surface 0016-07-06 2  
## 692 2 Woogenellup S4 5/11/2015 62 surface 0016-07-06 2  
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## 705 1 Denmark S4 5/11/2015 57 buried 0016-07-06 2  
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## 709 2 Antas S4 5/11/2015 61 buried 0016-07-06 2  
## 710 2 Woogenellup S4 5/11/2015 62 buried 0016-07-06 2  
## 711 2 Narrikup S4 5/11/2015 63 buried 0016-07-06 2  
## 712 2 Leura S4 5/11/2015 64 buried 0016-07-06 2  
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## 714 2 Monti S4 5/11/2015 66 buried 0016-07-06 2  
## 715 3 Leura S4 5/11/2015 67 buried 0016-07-06 2  
## 716 3 Monti S4 5/11/2015 68 buried 0016-07-06 2  
## 717 3 Narrikup S4 5/11/2015 69 buried 0016-07-06 2  
## 718 3 Antas S4 5/11/2015 70 buried 0016-07-06 2  
## 719 3 Woogenellup S4 5/11/2015 71 buried 0016-07-06 2  
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## 742 1 Leura S4 5/11/2015 58 buried 0016-07-06 3  
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## 746 2 Woogenellup S4 5/11/2015 62 buried 0016-07-06 3  
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## 762 1 Woogenellup S4 5/11/2015 60 surface 0016-07-06 4  
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## 778 1 Leura S4 5/11/2015 58 buried 0016-07-06 4  
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## 840 2 Monti S4 5/11/2015 66 surface 0016-07-06 6  
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## 845 3 Woogenellup S4 5/11/2015 71 surface 0016-07-06 6  
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## 868 1 Leura S6 17/02/2016 94 surface 0017-01-26 1  
## 869 1 Antas S6 17/02/2016 95 surface 0017-01-26 1  
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## 875 2 Narrikup S6 17/02/2016 101 surface 0017-01-26 1  
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## 930 2 Monti S7 15/03/2016 120 buried 0017-02-01 1  
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## 41 50 48 2 4 618  
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## 496 50 26 4 8 4976  
## 497 50 7 1 2 4978  
## 498 50 27 1 2 4980  
## 499 50 41 1 2 4982  
## 500 50 26 1 2 4984  
## 501 50 28 0 0 4984  
## 502 50 7 0 0 4984  
## 503 50 29 1 2 4986  
## 504 50 11 0 0 4986  
## 505 50 39 0 0 4986  
## 506 50 26 1 2 4988  
## 507 50 38 1 2 4990  
## 508 50 49 1 2 4992  
## 509 50 39 3 6 4998  
## 510 50 28 7 14 5012  
## 511 50 39 0 0 5012  
## 512 50 45 1 2 5014  
## 513 50 41 4 8 5022  
## 514 50 26 3 6 5028  
## 515 50 44 3 6 5034  
## 516 50 30 4 8 5042  
## 517 50 45 3 6 5048  
## 518 50 41 2 4 5052  
## 519 50 27 3 6 5058  
## 520 50 36 13 26 5084  
## 521 50 38 2 4 5088  
## 522 50 43 3 6 5094  
## 523 50 34 2 4 5098  
## 524 50 16 3 6 5104  
## 525 50 30 0 0 5104  
## 526 50 41 1 2 5106  
## 527 50 36 6 12 5118  
## 528 50 35 6 12 5130  
## 529 50 36 1 2 5132  
## 530 50 36 0 0 5132  
## 531 50 32 4 8 5140  
## 532 50 23 7 14 5154  
## 533 50 39 1 2 5156  
## 534 50 28 7 14 5170  
## 535 50 42 2 4 5174  
## 536 50 37 2 4 5178  
## 537 50 22 5 10 5188  
## 538 50 30 2 4 5192  
## 539 50 34 7 14 5206  
## 540 50 45 2 4 5210  
## 541 50 29 29 58 5268  
## 542 50 31 31 62 5330  
## 543 50 31 31 62 5392  
## 544 50 37 37 74 5466  
## 545 50 40 40 80 5546  
## 546 50 29 29 58 5604  
## 547 50 36 36 72 5676  
## 548 50 34 34 68 5744  
## 549 50 34 34 68 5812  
## 550 50 34 34 68 5880  
## 551 50 30 30 60 5940  
## 552 50 32 32 64 6004  
## 553 50 35 34 68 6072  
## 554 50 40 40 80 6152  
## 555 50 27 27 54 6206  
## 556 50 38 38 76 6282  
## 557 50 35 35 70 6352  
## 558 50 22 22 44 6396  
## 559 24 12 12 24 6420  
## 560 50 33 33 66 6486  
## 561 50 25 25 50 6536  
## 562 50 23 23 46 6582  
## 563 50 35 35 70 6652  
## 564 50 31 31 62 6714  
## 565 50 34 34 68 6782  
## 566 50 35 35 70 6852  
## 567 50 35 35 70 6922  
## 568 50 30 30 60 6982  
## 569 50 33 33 66 7048  
## 570 50 28 28 56 7104  
## 571 50 31 31 62 7166  
## 572 50 26 26 52 7218  
## 573 50 33 33 66 7284  
## 574 50 38 38 76 7360  
## 575 50 29 29 58 7418  
## 576 50 26 26 52 7470  
## 577 50 39 7 14 7484  
## 578 50 25 3 6 7490  
## 579 50 37 2 4 7494  
## 580 50 48 0 0 7494  
## 581 50 36 4 8 7502  
## 582 50 21 5 10 7512  
## 583 50 39 1 2 7514  
## 584 50 44 4 8 7522  
## 585 50 37 3 6 7528  
## 586 50 23 6 12 7540  
## 587 50 41 1 2 7542  
## 588 50 26 7 14 7556  
## 589 50 42 3 6 7562  
## 590 50 39 1 2 7564  
## 591 50 24 2 4 7568  
## 592 50 23 3 6 7574  
## 593 50 36 4 8 7582  
## 594 50 40 8 16 7598  
## 595 50 32 1 2 7600  
## 596 50 13 4 8 7608  
## 597 50 30 1 2 7610  
## 598 50 40 3 6 7616  
## 599 50 30 9 18 7634  
## 600 50 29 8 16 7650  
## 601 50 35 3 6 7656  
## 602 50 36 2 4 7660  
## 603 50 28 4 8 7668  
## 604 50 16 1 2 7670  
## 605 50 38 6 12 7682  
## 606 50 21 8 16 7698  
## 607 50 40 2 4 7702  
## 608 50 35 3 6 7708  
## 609 50 17 3 6 7714  
## 610 50 28 8 16 7730  
## 611 50 27 9 18 7748  
## 612 50 43 3 6 7754  
## 613 50 22 22 44 7798  
## 614 50 41 39 78 7876  
## 615 50 36 36 72 7948  
## 616 50 42 42 84 8032  
## 617 50 24 24 48 8080  
## 618 50 31 27 54 8134  
## 619 50 25 25 50 8184  
## 620 50 23 23 46 8230  
## 621 50 29 29 58 8288  
## 622 50 18 18 36 8324  
## 623 50 8 8 16 8340  
## 624 50 30 30 60 8400  
## 625 50 35 35 70 8470  
## 626 50 30 30 60 8530  
## 627 50 34 24 48 8578  
## 628 50 18 18 36 8614  
## 629 50 33 33 66 8680  
## 630 50 11 11 22 8702  
## 631 50 28 28 56 8758  
## 632 50 33 33 66 8824  
## 633 50 38 38 76 8900  
## 634 50 42 42 84 8984  
## 635 50 29 29 58 9042  
## 636 50 26 26 52 9094  
## 637 50 20 20 40 9134  
## 638 50 36 26 52 9186  
## 639 50 29 29 58 9244  
## 640 50 22 22 44 9288  
## 641 50 6 6 12 9300  
## 642 50 26 26 52 9352  
## 643 50 40 40 80 9432  
## 644 50 25 25 50 9482  
## 645 50 28 28 56 9538  
## 646 50 7 7 14 9552  
## 647 50 28 28 56 9608  
## 648 50 11 11 22 9630  
## 649 50 32 32 64 9694  
## 650 50 22 22 44 9738  
## 651 50 35 35 70 9808  
## 652 50 48 48 96 9904  
## 653 50 32 32 64 9968  
## 654 50 16 16 32 10000  
## 655 50 38 38 76 10076  
## 656 50 40 40 80 10156  
## 657 50 34 33 66 10222  
## 658 50 17 17 34 10256  
## 659 50 40 40 80 10336  
## 660 50 19 19 38 10374  
## 661 50 39 39 78 10452  
## 662 50 38 38 76 10528  
## 663 50 22 22 44 10572  
## 664 50 20 20 40 10612  
## 665 50 32 32 64 10676  
## 666 50 32 32 64 10740  
## 667 50 31 31 62 10802  
## 668 50 9 9 18 10820  
## 669 50 29 29 58 10878  
## 670 50 37 36 72 10950  
## 671 50 21 21 42 10992  
## 672 50 21 21 42 11034  
## 673 50 32 32 64 11098  
## 674 50 34 34 68 11166  
## 675 50 24 24 48 11214  
## 676 50 15 15 30 11244  
## 677 50 32 32 64 11308  
## 678 50 13 13 26 11334  
## 679 50 38 38 76 11410  
## 680 50 32 32 64 11474  
## 681 50 14 14 28 11502  
## 682 50 20 20 40 11542  
## 683 50 18 18 36 11578  
## 684 50 40 40 80 11658  
## 685 50 43 5 10 11668  
## 686 50 22 2 4 11672  
## 687 50 39 4 8 11680  
## 688 50 41 1 2 11682  
## 689 50 44 1 2 11684  
## 690 50 39 1 2 11686  
## 691 50 16 2 4 11690  
## 692 50 44 0 0 11690  
## 693 50 32 2 4 11694  
## 694 50 36 1 2 11696  
## 695 50 48 2 4 11700  
## 696 50 38 5 10 11710  
## 697 50 34 2 4 11714  
## 698 50 22 6 12 11726  
## 699 50 42 2 4 11730  
## 700 50 24 0 0 11730  
## 701 50 43 3 6 11736  
## 702 50 40 1 2 11738  
## 703 50 30 1 2 11740  
## 704 50 12 1 2 11742  
## 705 50 45 6 12 11754  
## 706 50 13 0 0 11754  
## 707 50 44 6 12 11766  
## 708 50 34 8 16 11782  
## 709 50 29 2 4 11786  
## 710 50 32 6 12 11798  
## 711 50 35 3 6 11804  
## 712 50 1 0 0 11804  
## 713 50 49 2 4 11808  
## 714 50 37 4 8 11816  
## 715 50 35 0 0 11816  
## 716 50 35 3 6 11822  
## 717 50 37 2 4 11826  
## 718 50 29 1 2 11828  
## 719 50 42 3 6 11834  
## 720 50 32 2 4 11838  
## 721 50 38 6 12 11850  
## 722 50 20 1 2 11852  
## 723 50 35 2 4 11856  
## 724 50 40 3 6 11862  
## 725 50 43 9 18 11880  
## 726 50 38 2 4 11884  
## 727 50 14 5 10 11894  
## 728 50 44 0 0 11894  
## 729 50 30 3 6 11900  
## 730 50 35 2 4 11904  
## 731 50 46 0 0 11904  
## 732 50 33 15 30 11934  
## 733 50 32 2 4 11938  
## 734 50 16 8 16 11954  
## 735 50 40 7 14 11968  
## 736 50 24 0 0 11968  
## 737 50 40 0 0 11968  
## 738 50 39 0 0 11968  
## 739 50 29 3 6 11974  
## 740 50 11 1 2 11976  
## 741 50 39 2 4 11980  
## 742 50 13 0 0 11980  
## 743 50 38 13 26 12006  
## 744 50 26 2 4 12010  
## 745 50 27 6 12 12022  
## 746 50 26 0 0 12022  
## 747 50 32 3 6 12028  
## 748 50 1 1 2 12030  
## 749 50 47 0 0 12030  
## 750 50 33 10 20 12050  
## 751 50 35 0 0 12050  
## 752 50 32 7 14 12064  
## 753 50 35 6 12 12076  
## 754 50 28 1 2 12078  
## 755 50 39 0 0 12078  
## 756 50 30 1 2 12080  
## 757 50 32 12 24 12104  
## 758 50 19 2 4 12108  
## 759 50 33 3 6 12114  
## 760 50 37 6 12 12126  
## 761 50 34 8 16 12142  
## 762 50 36 0 0 12142  
## 763 50 9 7 14 12156  
## 764 50 44 0 0 12156  
## 765 50 27 10 20 12176  
## 766 50 33 4 8 12184  
## 767 50 46 2 4 12188  
## 768 50 18 10 20 12208  
## 769 50 30 9 18 12226  
## 770 50 8 6 12 12238  
## 771 50 33 7 14 12252  
## 772 50 24 2 4 12256  
## 773 50 40 1 2 12258  
## 774 50 39 6 12 12270  
## 775 50 26 11 22 12292  
## 776 50 10 0 0 12292  
## 777 50 37 5 10 12302  
## 778 50 13 2 4 12306  
## 779 50 25 20 40 12346  
## 780 50 24 5 10 12356  
## 781 50 21 7 14 12370  
## 782 50 26 2 4 12374  
## 783 50 29 15 30 12404  
## 784 50 0 0 0 12404  
## 785 50 47 1 2 12406  
## 786 50 23 10 20 12426  
## 787 50 35 6 12 12438  
## 788 50 25 8 16 12454  
## 789 50 29 11 22 12476  
## 790 50 27 11 22 12498  
## 791 50 39 2 4 12502  
## 792 50 29 11 22 12524  
## 793 50 20 3 6 12530  
## 794 50 17 2 4 12534  
## 795 50 30 2 4 12538  
## 796 50 31 5 10 12548  
## 797 50 26 6 12 12560  
## 798 50 36 0 0 12560  
## 799 50 2 0 0 12560  
## 800 50 44 1 2 12562  
## 801 50 17 4 8 12570  
## 802 50 29 3 6 12576  
## 803 50 44 0 0 12576  
## 804 50 8 6 12 12588  
## 805 50 21 2 4 12592  
## 806 50 2 2 4 12596  
## 807 50 26 3 6 12602  
## 808 50 22 0 0 12602  
## 809 50 39 3 6 12608  
## 810 50 33 0 0 12608  
## 811 50 15 3 6 12614  
## 812 50 10 0 0 12614  
## 813 50 32 0 0 12614  
## 814 50 11 3 6 12620  
## 815 50 5 5 10 12630  
## 816 50 19 0 0 12630  
## 817 50 14 2 4 12634  
## 818 50 24 3 6 12640  
## 819 50 14 4 8 12648  
## 820 50 0 0 0 12648  
## 821 50 46 0 0 12648  
## 822 50 13 2 4 12652  
## 823 50 29 3 6 12658  
## 824 50 17 3 6 12664  
## 825 50 18 5 10 12674  
## 826 50 16 4 8 12682  
## 827 50 37 1 2 12684  
## 828 50 18 2 4 12688  
## 829 50 17 16 32 12720  
## 830 50 15 15 30 12750  
## 831 50 28 27 54 12804  
## 832 50 26 26 52 12856  
## 833 50 20 20 40 12896  
## 834 50 36 36 72 12968  
## 835 50 2 2 4 12972  
## 836 50 43 42 84 13056  
## 837 50 13 13 26 13082  
## 838 50 26 26 52 13134  
## 839 50 44 44 88 13222  
## 840 50 2 2 4 13226  
## 841 50 19 19 38 13264  
## 842 50 0 0 0 13264  
## 843 50 23 23 46 13310  
## 844 50 22 22 44 13354  
## 845 50 36 27 54 13408  
## 846 50 33 31 62 13470  
## 847 50 12 12 24 13494  
## 848 50 10 10 20 13514  
## 849 50 32 32 64 13578  
## 850 50 8 8 16 13594  
## 851 50 0 0 0 13594  
## 852 50 19 19 38 13632  
## 853 50 12 12 24 13656  
## 854 50 21 21 42 13698  
## 855 50 10 10 20 13718  
## 856 50 0 0 0 13718  
## 857 50 46 46 92 13810  
## 858 50 11 11 22 13832  
## 859 50 26 25 50 13882  
## 860 50 14 14 28 13910  
## 861 50 13 13 26 13936  
## 862 50 12 12 24 13960  
## 863 50 36 36 72 14032  
## 864 50 16 14 28 14060  
## 865 50 50 17 34 14094  
## 866 50 50 8 16 14110  
## 867 50 50 16 32 14142  
## 868 50 50 25 50 14192  
## 869 50 50 25 50 14242  
## 870 50 50 18 36 14278  
## 871 50 50 17 34 14312  
## 872 50 50 13 26 14338  
## 873 50 50 31 62 14400  
## 874 50 50 21 42 14442  
## 875 50 50 28 56 14498  
## 876 50 50 13 26 14524  
## 877 44 44 36 72 14596  
## 878 47 47 19 38 14634  
## 879 50 50 32 64 14698  
## 880 50 50 12 24 14722  
## 881 50 50 22 44 14766  
## 882 50 50 8 16 14782  
## 883 50 50 21 42 14824  
## 884 49 49 9 18 14842  
## 885 50 50 35 70 14912  
## 886 37 37 24 48 14960  
## 887 37 37 28 56 15016  
## 888 29 29 12 24 15040  
## 889 41 41 21 42 15082  
## 890 33 33 6 12 15094  
## 891 22 22 16 32 15126  
## 892 50 50 16 32 15158  
## 893 37 37 29 58 15216  
## 894 50 50 31 62 15278  
## 895 30 30 17 34 15312  
## 896 5 5 4 8 15320  
## 897 28 28 26 52 15372  
## 898 15 15 9 18 15390  
## 899 50 50 12 24 15414  
## 900 50 50 16 32 15446  
## 901 50 50 4 8 15454  
## 902 50 50 37 74 15528  
## 903 50 50 29 58 15586  
## 904 50 50 18 36 15622  
## 905 48 48 26 52 15674  
## 906 50 50 2 4 15678  
## 907 50 50 33 66 15744  
## 908 50 50 12 24 15768  
## 909 34 34 8 16 15784  
## 910 50 50 34 68 15852  
## 911 50 50 9 18 15870  
## 912 50 50 2 4 15874  
## 913 50 50 11 22 15896  
## 914 50 50 9 18 15914  
## 915 50 50 19 38 15952  
## 916 50 50 1 2 15954  
## 917 40 40 14 28 15982  
## 918 50 50 6 12 15994  
## 919 50 50 10 20 16014  
## 920 50 50 45 90 16104  
## 921 41 41 32 64 16168  
## 922 50 50 25 50 16218  
## 923 47 47 35 70 16288  
## 924 50 50 6 12 16300  
## 925 50 50 25 50 16350  
## 926 50 50 12 24 16374  
## 927 50 50 12 24 16398  
## 928 39 39 15 30 16428  
## 929 50 50 9 18 16446  
## 930 50 50 3 6 16452  
## 931 50 50 9 18 16470  
## 932 50 50 21 42 16512  
## 933 50 50 22 44 16556  
## 934 50 50 0 0 16556  
## 935 45 45 12 24 16580  
## 936 28 28 4 8 16588

df\_seed %>%  
 mutate(hardSeed = 100-PropSoft) %>%  
 mutate(SowingD = dmy(SowingD)) %>%  
 filter(Round == 1) %>% #need to keep filter to get first and max hardseed percent  
 mutate(Depth = factor(Depth,levels=c( "surface","buried"))) %>%  
 group\_by(Cultivar,SowingD,Depth) %>%  
 dplyr::select(hardSeed) %>%  
 summarise\_each(funs(mean,sd)) %>%  
 ggplot(aes(x=SowingD, y=mean, colour=factor(Cultivar), shape=factor(Cultivar))) +  
 geom\_point() +  
 geom\_line() +  
 facet\_grid(Depth ~ Cultivar) +  
 labs(x="Sowing Date",y="Maximum Percentage of Hardseeds") +  
 theme(axis.text.x = element\_text(angle = 90, hjust = 1))+  
 geom\_errorbar(aes(ymin=mean-sd/2,  
 ymax=mean+sd/2))+  
 theme\_bw()+  
 ylim(0,100)



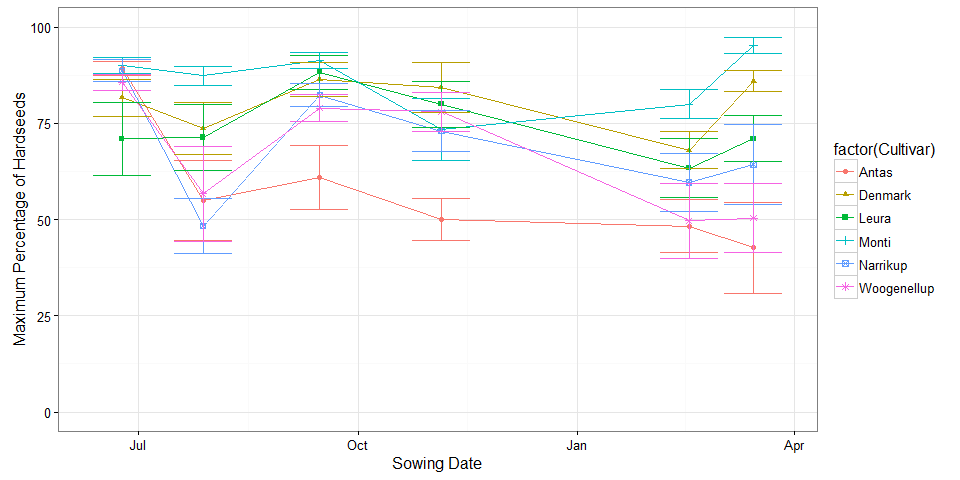
head(df\_seed)

## Block Cultivar SowTreat SowingD Plot Depth Date Round  
## 1 1 Antas S1 24/06/2015 1 surface 2016-02-16 1  
## 2 1 Monti S1 24/06/2015 2 surface 2016-02-16 1  
## 3 1 Denmark S1 24/06/2015 3 surface 2016-02-16 1  
## 4 1 Leura S1 24/06/2015 4 surface 2016-02-16 1  
## 5 1 Narrikup S1 24/06/2015 5 surface 2016-02-16 1  
## 6 1 Woogenellup S1 24/06/2015 6 surface 2016-02-16 1  
## InitialSeedlotR1Number SeedNumber Soft PropSoft  
## 1 50 50 7 14  
## 2 50 50 6 12  
## 3 50 50 7 14  
## 4 50 50 2 4  
## 5 50 50 2 4  
## 6 50 50 9 18

summary(df\_seed)

## Block Cultivar SowTreat SowingD Plot   
## 1:312 Antas :156 S1:216 15/03/2016: 36 1 : 12   
## 2:312 Denmark :156 S2:216 15/09/2015:216 2 : 12   
## 3:312 Leura :156 S3:216 17/02/2016: 36 3 : 12   
## Monti :156 S4:216 24/06/2015:216 4 : 12   
## Narrikup :156 S6: 36 28/07/2015:216 5 : 12   
## Woogenellup:156 S7: 36 5/11/2015 :216 6 : 12   
## (Other):864   
## Depth Date Round InitialSeedlotR1Number  
## buried :468 Min. :0016-03-09 Min. :1.000 Min. : 5.00   
## surface:468 1st Qu.:0016-07-17 1st Qu.:2.000 1st Qu.:50.00   
## Median :2016-04-14 Median :3.000 Median :50.00   
## Mean :1170-05-17 Mean :3.308 Mean :49.49   
## 3rd Qu.:2016-06-25 3rd Qu.:5.000 3rd Qu.:50.00   
## Max. :2016-09-25 Max. :6.000 Max. :50.00   
##   
## SeedNumber Soft PropSoft   
## Min. : 0.00 Min. : 0.000 Min. : 0.00   
## 1st Qu.:29.00 1st Qu.: 1.000 1st Qu.: 2.00   
## Median :37.00 Median : 4.000 Median : 8.00   
## Mean :35.56 Mean : 8.861 Mean :17.72   
## 3rd Qu.:45.00 3rd Qu.:12.000 3rd Qu.:24.00   
## Max. :50.00 Max. :48.000 Max. :96.00   
##

#graph effect of sowing date only   
df\_seed %>%  
 mutate(hardSeed = 100-PropSoft) %>%  
 mutate(SowingD = dmy(SowingD)) %>%  
 filter(Round == 1) %>% #need to keep filter to get first and max hardseed percent  
 #mutate(Depth = factor(Depth,levels=c( "surface","buried"))) %>%  
 group\_by(Cultivar,SowingD) %>%  
 dplyr::select(hardSeed) %>%  
 summarise\_each(funs(mean,sd)) %>%  
 ggplot(aes(x=SowingD, y=mean, colour=factor(Cultivar), shape=factor(Cultivar))) +  
 geom\_point() +  
 geom\_line() +  
 #facet\_grid(.~ Cultivar) +  
 labs(x="Sowing Date",y="Maximum Percentage of Hardseeds") +  
 theme(axis.text.x = element\_text(angle = 90, hjust = 1))+  
 geom\_errorbar(aes(ymin=mean-sd/2,  
 ymax=mean+sd/2))+  
 theme\_bw()+  
 ylim(0,100)



#write a summary table   
dftable <- df\_seed %>%  
 mutate(hardSeed = 100-PropSoft) %>%  
 mutate(SowingD = dmy(SowingD)) %>%  
 filter(Round == 1) %>% #need to keep filter to get first and max hardseed percent  
 #mutate(Depth = factor(Depth,levels=c( "surface","buried"))) %>%  
 group\_by(Cultivar,SowingD) %>%  
 dplyr::select(hardSeed) %>%  
 summarise\_each(funs(mean,sd))   
  
summary (dftable)

## Cultivar SowingD mean sd   
## Antas :6 Min. :2015-06-24 Min. :42.67 Min. : 3.502   
## Denmark :6 1st Qu.:2015-07-28 1st Qu.:60.67 1st Qu.: 6.584   
## Leura :6 Median :2015-10-10 Median :73.50 Median :11.399   
## Monti :6 Mean :2015-10-27 Mean :72.34 Mean :11.924   
## Narrikup :6 3rd Qu.:2016-02-17 3rd Qu.:85.75 3rd Qu.:16.257   
## Woogenellup:6 Max. :2016-03-15 Max. :95.33 Max. :24.809

write.table(dftable, "dftablehardseeds.txt", row.names=FALSE)

#write a table with all data to do stats  
  
dftable1 <- df\_seed %>%  
 mutate(hardSeed = 100-PropSoft) %>%  
 mutate(SowingD = dmy(SowingD)) %>%  
 filter(Round == 1) %>% #need to keep filter to get first and max hardseed percent  
 #mutate(Depth = factor(Depth,levels=c( "surface","buried"))) %>%  
 group\_by(Cultivar,SowingD, Block, Depth) %>%  
 dplyr::select(hardSeed)   
 #summarise\_each(funs(mean,sd))   
  
summary (dftable1)

## Cultivar SowingD Block Depth   
## Antas :36 Min. :2015-06-24 1:72 buried :108   
## Denmark :36 1st Qu.:2015-07-28 2:72 surface:108   
## Leura :36 Median :2015-10-10 3:72   
## Monti :36 Mean :2015-10-27   
## Narrikup :36 3rd Qu.:2016-02-17   
## Woogenellup:36 Max. :2016-03-15   
## hardSeed   
## Min. : 10.00   
## 1st Qu.: 60.00   
## Median : 78.00   
## Mean : 72.34   
## 3rd Qu.: 88.00   
## Max. :100.00

write.table(dftable1, "dftablehardseeds1.txt", row.names=FALSE)

Calculate the mean and stdev

#just get the means and stdv of Hardseeds for cultivars in 4 SowD  
  
df\_Hard <-df\_seed %>%  
 mutate(hardSeed = 100-PropSoft) %>%  
 mutate(SowingD = dmy(SowingD)) %>%  
 filter(Round == 1) %>%  
 group\_by(Cultivar,SowingD) %>%  
 dplyr::select(hardSeed) %>%  
 summarise\_each(funs(mean,sd))  
head(df\_Hard)

## Source: local data frame [6 x 4]  
## Groups: Cultivar [1]  
##   
## Cultivar SowingD mean sd  
## (fctr) (date) (dbl) (dbl)  
## 1 Antas 2015-06-24 89.33333 3.50238  
## 2 Antas 2015-07-28 55.00000 20.96664  
## 3 Antas 2015-09-15 61.00000 16.48029  
## 4 Antas 2015-11-05 50.00000 10.88118  
## 5 Antas 2016-02-17 48.33333 13.70645  
## 6 Antas 2016-03-15 42.66667 23.48333