Section11

Exercises for section 11

Download example files

```
course.url <- "http://kingaa.github.io/R_Tutorial/"
download.file(paste0(course.url,"Intro1.R"),destfile="Intro1.R",mode="w")
download.file(paste0(course.url,"Intro2.R"),destfile="Intro2.R",mode="w")
download.file(paste0(course.url,"ChlorellaGrowth.csv"),destfile="ChlorellaGrowth.csv",mode="w")
X <- read.csv("ChlorellaGrowth.csv",comment.char='#')
Light <- X[,1]
rmax <- X[,2]
```

11.1.0.0.1

See Mdfd_Intro2.R

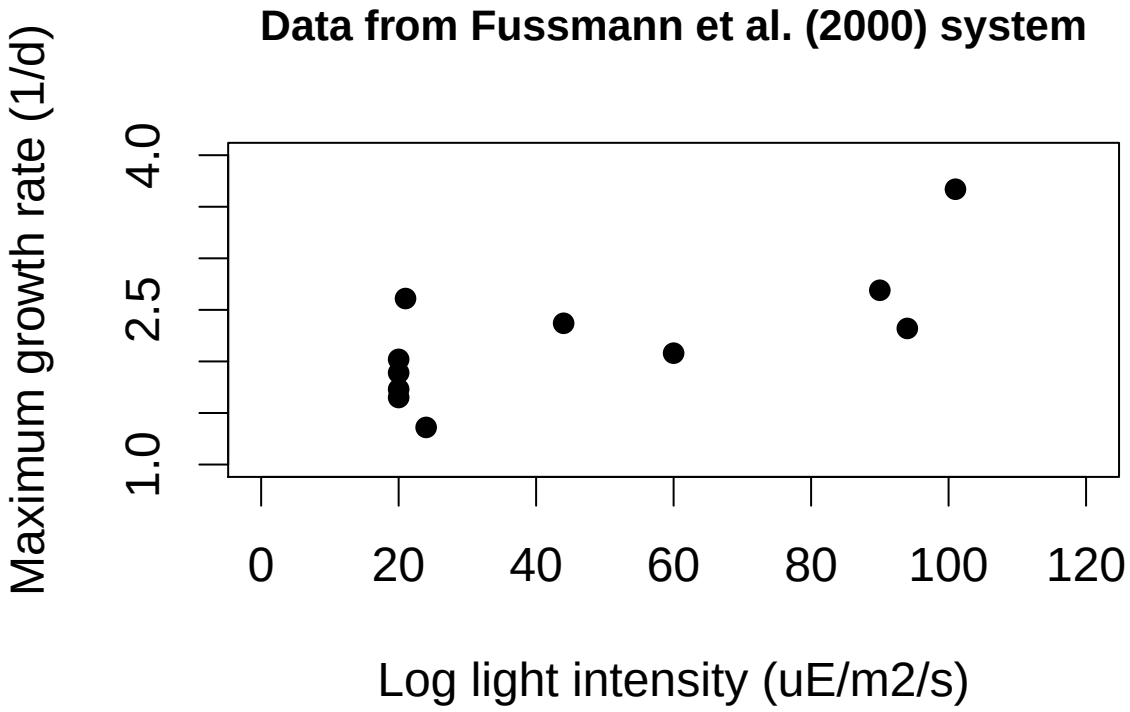
11.1.0.0.2

Entering plot(fit) returns a series of graphs showing the distribution of error or residuals showing how normally distributed the data is and how much they affect the data.

11.1.0.0.3

Code beow has been copied from Intro2.R with modification for aixs values

```
par(cex=1.5,cex.main=0.9)
plot(rmax~Light,data=X,xlab="Log light intensity (uE/m2/s)",ylab="Maximum growth rate (1/d)",pch=16,xli
title(main="Data from Fussmann et al. (2000) system")
```

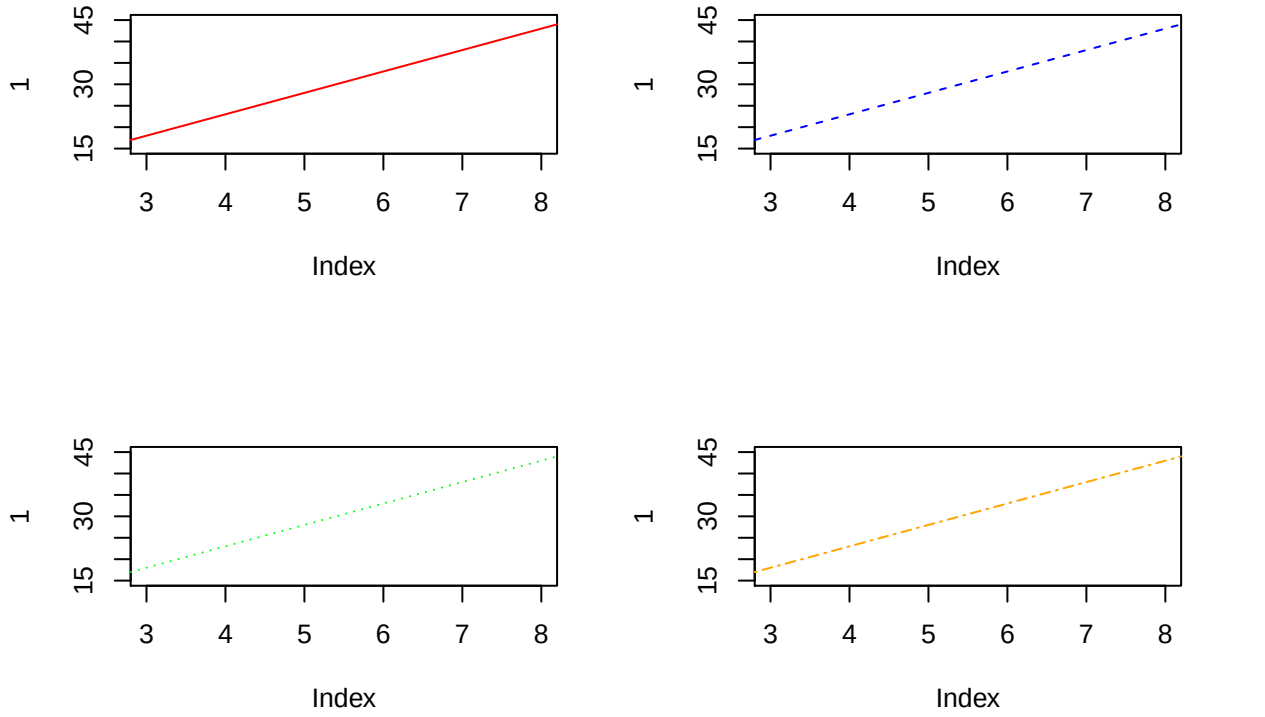


11.1.0.0.4

See Mdfd2_Intro2.R

11.1.0.0.5

```
par(mfrow=c(2,2))
par(lty=1)
plot(1, xlim=c(3,8),ylim=c(15,45)) ; abline(a=3,b=5,col="red")
par(lty=2)
plot(1, xlim=c(3,8),ylim=c(15,45)) ; abline(a=3,b=5,col="blue")
par(lty=3)
plot(1, xlim=c(3,8),ylim=c(15,45)) ; abline(a=3,b=5,col="green")
par(lty=6)
plot(1, xlim=c(3,8),ylim=c(15,45)) ; abline(a=3,b=5,col="orange")
```

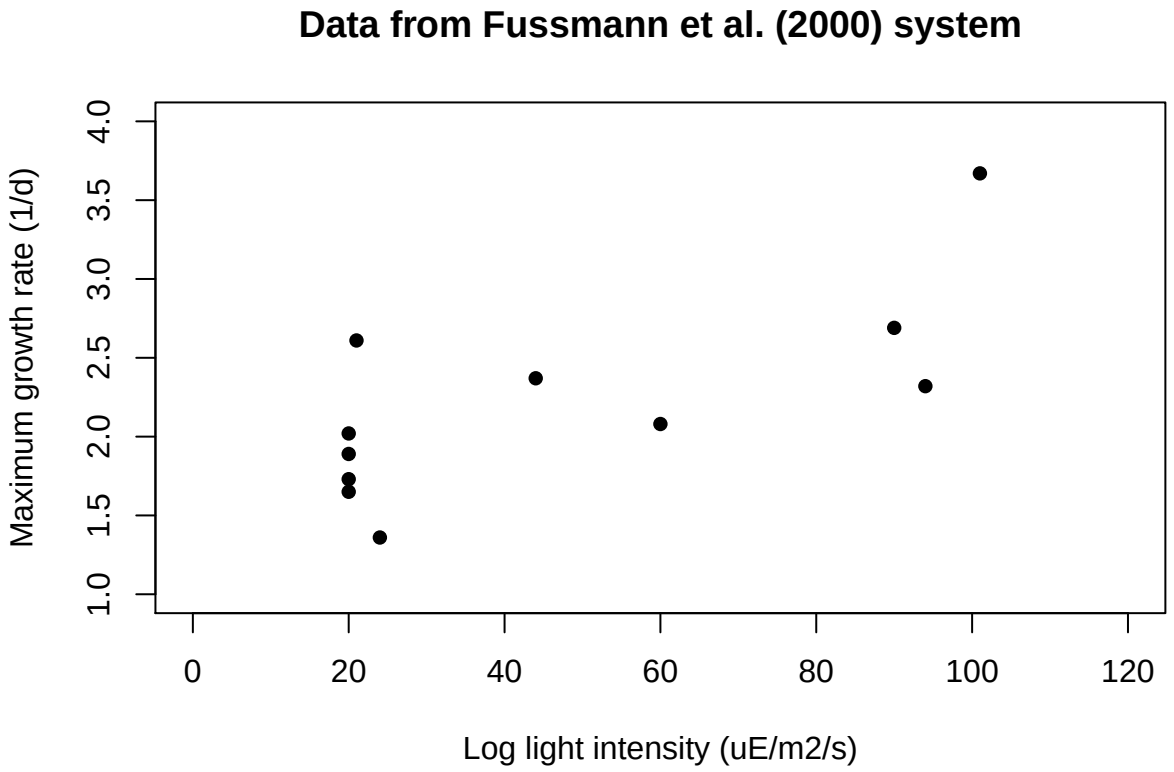



```
dev.off()
```

```
## null device
##           1
```

11.1.0.0.6

```
par(mfrow=c(1,1))
plot(rmax~Light,data=X,xlab="Log light intensity (uE/m2/s)",ylab="Maximum growth rate (1/d)",pch=16,xli
title(main="Data from Fussmann et al. (2000) system")
```




```
dev.print(pdf,"../Results/11.1.0.0.6.pdf")
```

```
## pdf
##   2
```