

# Line Plots

Code ▾

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```
library(ggplot2)
library(Hmisc)

data<-read.delim('/home/atrides/Desktop/Applied-Statistics-with-R-master/statistics_with_R/04_Exploring_Data_with_Graphs/Hiccups.dat', header=TRUE)

data
```

Baseline <int>	Tongue <int>	Carotid <int>	Rectum <int>
15	9	7	2
13	18	7	4
9	17	5	4
7	15	10	5
11	18	7	4
14	8	10	3
20	3	7	3
9	16	12	3
17	10	9	4
19	10	8	4
1-10 of 15 rows		Previous	1 2 Next

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```
hiccups<-stack(data)
names(hiccups)<-c("Hiccups","Intervention")

is.factor(hiccups$Intervention)
```

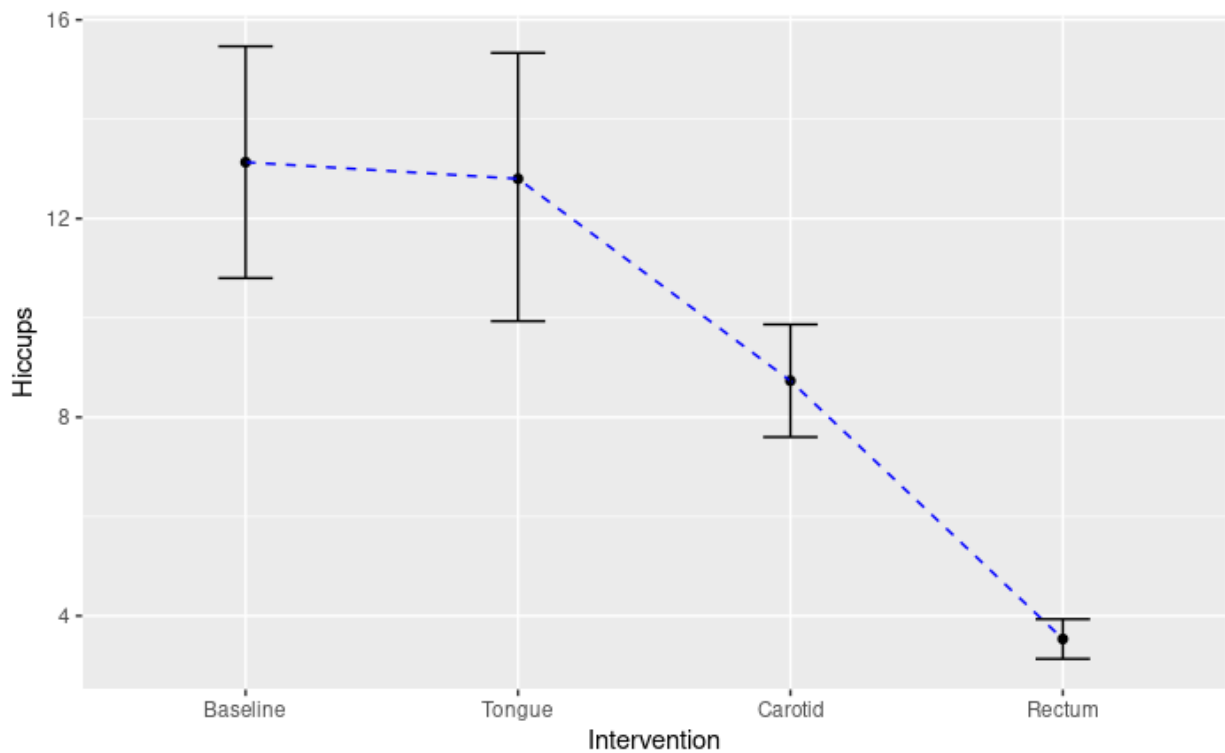
```
[1] TRUE
```

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```

line <- ggplot(hiccups, aes(Intervention, Hiccups))
line + stat_summary(fun = mean, geom = "point")+stat_summary(fun = mean, geom = "line", aes(group = 1), colour='Blue', linetype='dashed')+
  stat_summary(fun.data = mean_cl_boot, geom = "errorbar",width=0.2)

```


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```

# when there are several independent variables
data<-read.delim('/home/atrides/Desktop/Applied-Statistics-with-R-master/statistics_with_R/04_Exploring_Data_with_Graphs/TextMessages.dat',header=TRUE)

head(data,n=10)

```

	Group <chr>	Baseline <int>	Six_months <int>
1	Text Messagers	52	32
2	Text Messagers	68	48
3	Text Messagers	85	62
4	Text Messagers	47	16
5	Text Messagers	73	63
6	Text Messagers	57	53
7	Text Messagers	63	59

	<b>Group</b> <chr>	<b>Baseline</b> <int>	<b>Six_months</b> <int>
8	Text Messagers	50	58
9	Text Messagers	66	59
10	Text Messagers	60	57
1-10 of 10 rows			

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```
library(reshape)
```

```
newData<-melt(data, id = c("Group"), measured = c("Baseline","Six_months"))
head(newData, 10)
```

	<b>Group</b> <chr>	<b>variable</b> <fctr>	<b>value</b> <int>
1	Text Messagers	Baseline	52
2	Text Messagers	Baseline	68
3	Text Messagers	Baseline	85
4	Text Messagers	Baseline	47
5	Text Messagers	Baseline	73
6	Text Messagers	Baseline	57
7	Text Messagers	Baseline	63
8	Text Messagers	Baseline	50
9	Text Messagers	Baseline	66
10	Text Messagers	Baseline	60
1-10 of 10 rows			

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```
line <- ggplot(newData, aes(variable, value, colour = Group))

line + stat_summary(fun= mean, geom = "point") +
  stat_summary(fun= mean, geom = "line", aes(group = Group)) +
  stat_summary(fun.data = mean_cl_boot, geom = "errorbar", width = 0.2) +
  labs(x = "Time", y = "Mean Grammar Score", colour = "Group")+
  scale_y_continuous(limits = c(0, 80))
```

