

Replace with Main Title

Your Name

2017-02-23

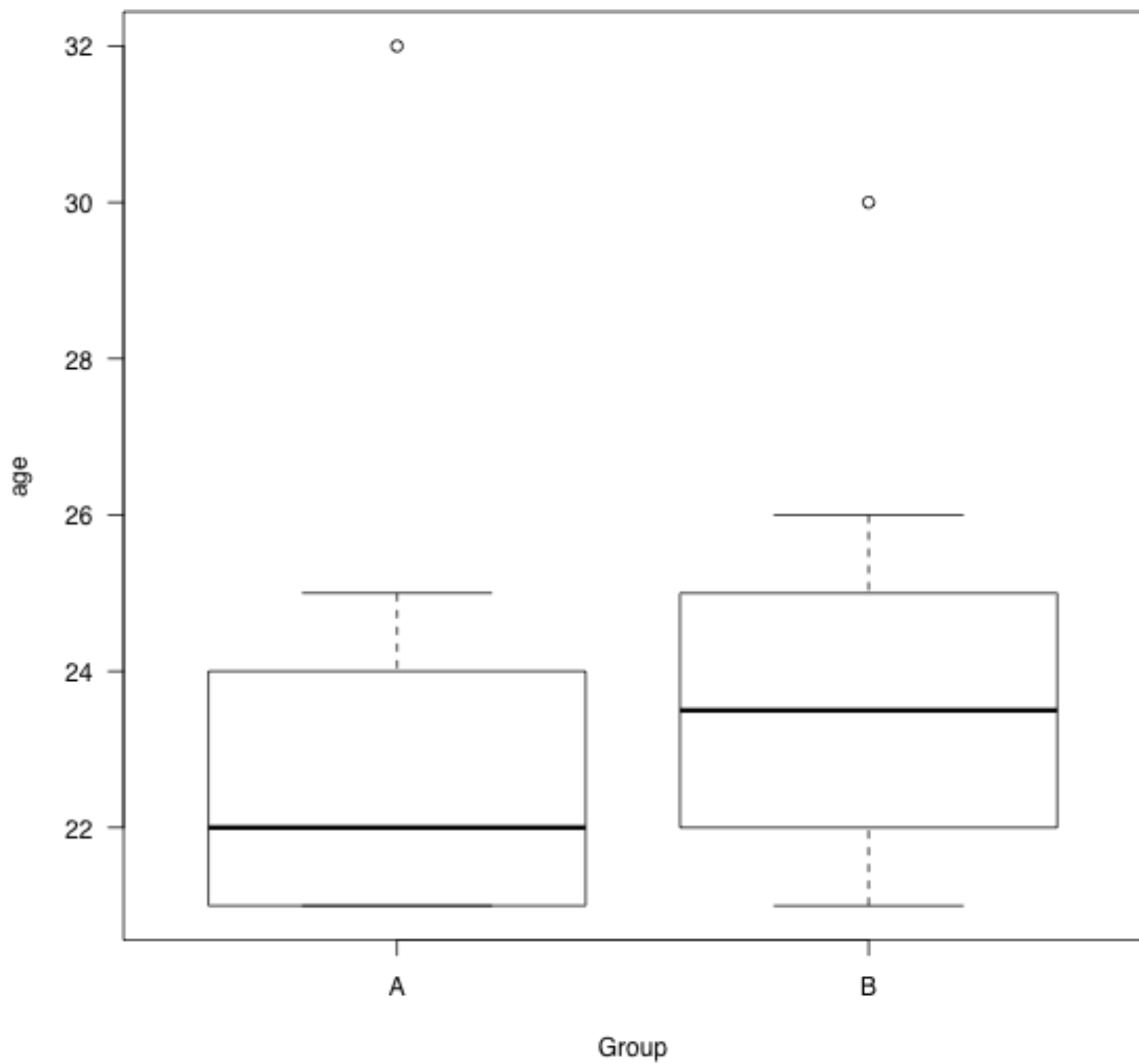
```
> #####Read Data From Text File#####  
> primary_data <- read.table("/Users/takakato222/Desktop/primary data.csv  
+ header=TRUE, sep="," , na.strings=c("", "NA"), dec=".", fill=TRUE,  
+ quote="\\"", strip.white=TRUE)  
> primary_data <- read.table("/Users/takakato222/Desktop/primary data.csv  
+ na.strings=c("", "NA"), dec=".", fill=TRUE, quote="\\"", strip.white=T
```

```
> #####Two-sample t-test#####  
> group.names <- NULL  
> group.means <- NULL  
> group.sds <- NULL  
> group.p <- NULL  
> res <- NULL  
> (res <- t.test(age~factor(Group), alternative='two.sided', conf.level=0  
+ data=primary_data))
```

welch Two Sample t-test

```
data: age by factor(Group)  
t = -0.85883, df = 24.518, p-value = 0.3988  
alternative hypothesis: true difference in means is not equal to 0  
95 percent confidence interval:  
 -2.914687  1.200401  
sample estimates:  
mean in group A mean in group B  
    22.92857    23.78571
```

```
> quartz(width=7, height=7); par(lwd=1, las=1, family="sans", cex=1, mgp=  
> boxplot(age~ factor(Group), ylab="age", xlab="Group", data=primary_data
```



```

> bar.means <- tapply(primary_data$age, factor(primary_data$Group), mean,
> bar.sds <- tapply(primary_data$age, factor(primary_data$Group), sd, na.
> group.names <- c(group.names, "Group=A")
> group.means <- c(group.means, bar.means[1])
> group.sds <- c(group.sds, bar.sds[1])
> group.p <- c(group.p, signif(res$p.value,digits=3))
> group.names <- c(group.names, "Group=B")
> group.means <- c(group.means, bar.means[2])
> group.sds <- c(group.sds, bar.sds[2])
> group.p <- c(group.p, "")
> summary.ttest <- NULL
> summary.ttest <- data.frame(mean=group.means, sd=group.sds, p.value=gro
> rownames(summary.ttest) <- group.names
> colnames(summary.ttest) <- gettext(domain="R-RcmdrPlugin.EZR",colnames(
> summary.ttest

```

	mean	sd	p.value
Group=A	22.92857	2.947340	0.399
Group=B	23.78571	2.293086	

```

> #####Two-sample t-test#####
> group.names <- NULL
> group.means <- NULL
> group.sds <- NULL
> group.p <- NULL
> res <- NULL
> (res <- t.test(BMI~factor(Group), alternative='two.sided', conf.level=0
+ data=primary_data))

```

Welch Two Sample t-test

```

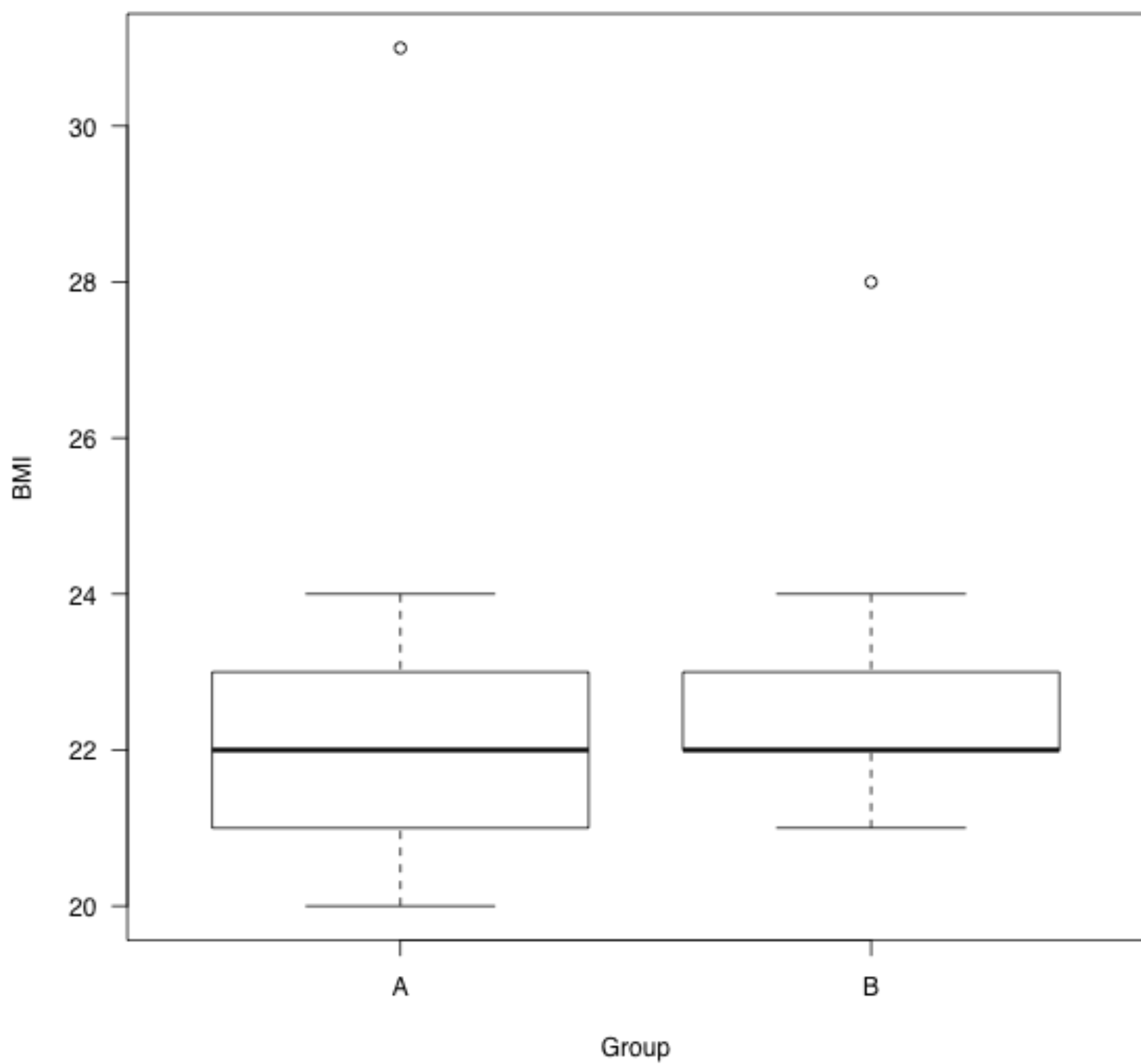
data: BMI by factor(Group)
t = -0.082608, df = 21.961, p-value = 0.9349
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 -1.864819  1.721962
sample estimates:
mean in group A mean in group B
      22.64286      22.71429

```

```

> quartz(width=7, height=7); par(lwd=1, las=1, family="sans", cex=1, mgp=
> boxplot(BMI~ factor(Group), ylab="BMI", xlab="Group", data=primary_data

```



```

> bar.means <- tapply(primary_data$BMI, factor(primary_data$Group), mean,
> bar.sds <- tapply(primary_data$BMI, factor(primary_data$Group), sd, na.
> group.names <- c(group.names, "Group=A")
> group.means <- c(group.means, bar.means[1])
> group.sds <- c(group.sds, bar.sds[1])
> group.p <- c(group.p, signif(res$p.value,digits=3))
> group.names <- c(group.names, "Group=B")
> group.means <- c(group.means, bar.means[2])
> group.sds <- c(group.sds, bar.sds[2])
> group.p <- c(group.p, "")
> summary.ttest <- NULL
> summary.ttest <- data.frame(mean=group.means, sd=group.sds, p.value=gro
> rownames(summary.ttest) <- group.names
> colnames(summary.ttest) <- gettext(domain="R-RcmdrPlugin.EZR",colnames(
> summary.ttest

```

	mean	sd	p.value
Group=A	22.64286	2.734597	0.935
Group=B	22.71429	1.728876	

```

> #####Two-sample t-test#####
> group.names <- NULL
> group.means <- NULL
> group.sds <- NULL
> group.p <- NULL
> res <- NULL
> (res <- t.test(LMR1~factor(Group), alternative='two.sided', conf.level=
+ data=primary_data))

```

Welch Two Sample t-test

```

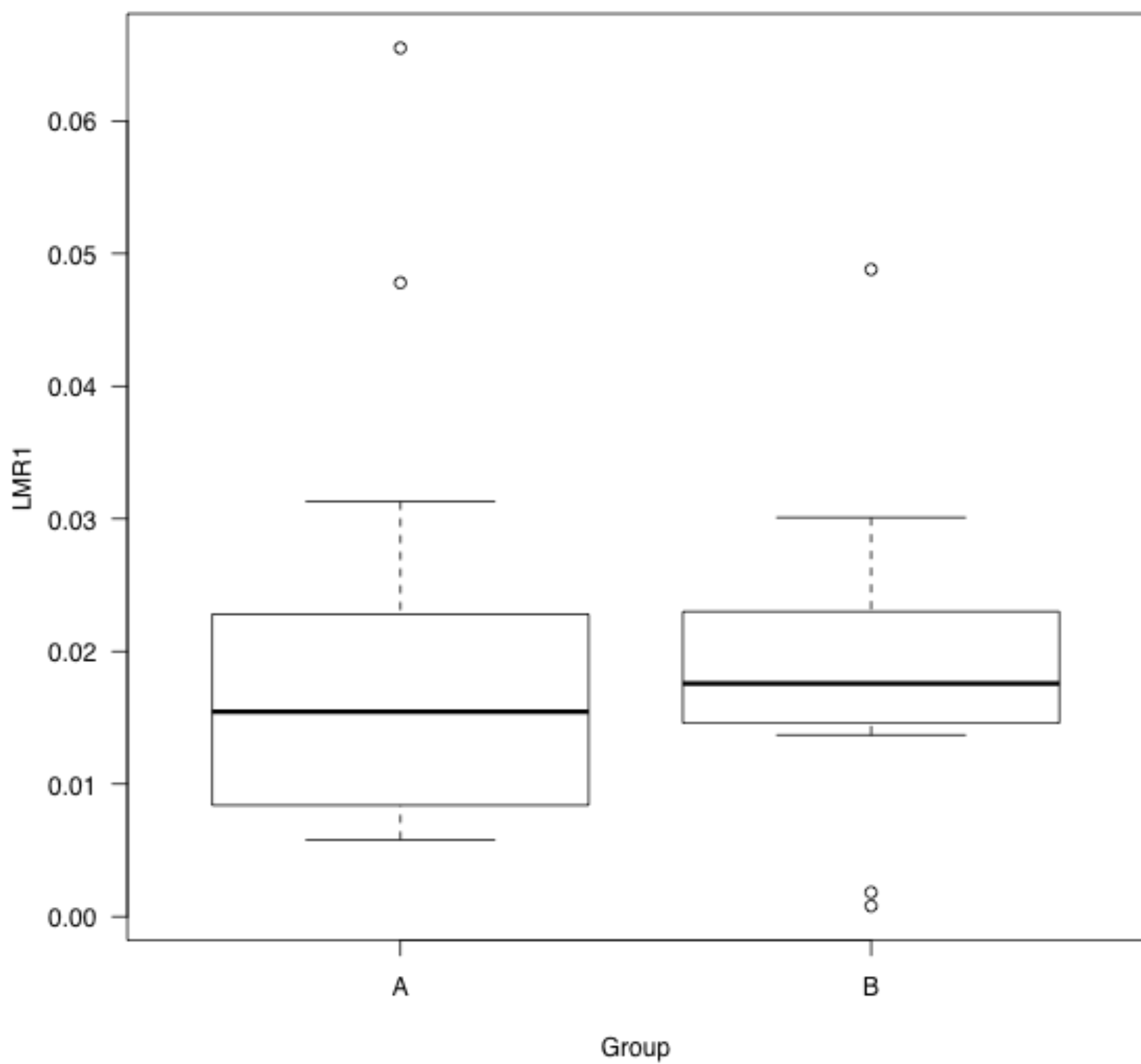
data: LMR1 by factor(Group)
t = 0.39457, df = 22.995, p-value = 0.6968
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 -0.009225657  0.013574431
sample estimates:
mean in group A mean in group B
 0.02079417      0.01861978

```

```

> quartz(width=7, height=7); par(lwd=1, las=1, family="sans", cex=1, mgp=
> boxplot(LMR1~ factor(Group), ylab="LMR1", xlab="Group", data=primary_da

```



```

> bar.means <- tapply(primary_data$LMR1, factor(primary_data$Group), mean)
> bar.sds <- tapply(primary_data$LMR1, factor(primary_data$Group), sd, na.rm=TRUE)
> group.names <- c(group.names, "Group=A")
> group.means <- c(group.means, bar.means[1])
> group.sds <- c(group.sds, bar.sds[1])
> group.p <- c(group.p, signif(res$p.value,digits=3))
> group.names <- c(group.names, "Group=B")
> group.means <- c(group.means, bar.means[2])
> group.sds <- c(group.sds, bar.sds[2])
> group.p <- c(group.p, "")
> summary.ttest <- NULL
> summary.ttest <- data.frame(mean=group.means, sd=group.sds, p.value=group.p)
> rownames(summary.ttest) <- group.names
> colnames(summary.ttest) <- gettext(domain="R-RcmdrPlugin.EZR",colnames(summary.ttest))
> summary.ttest

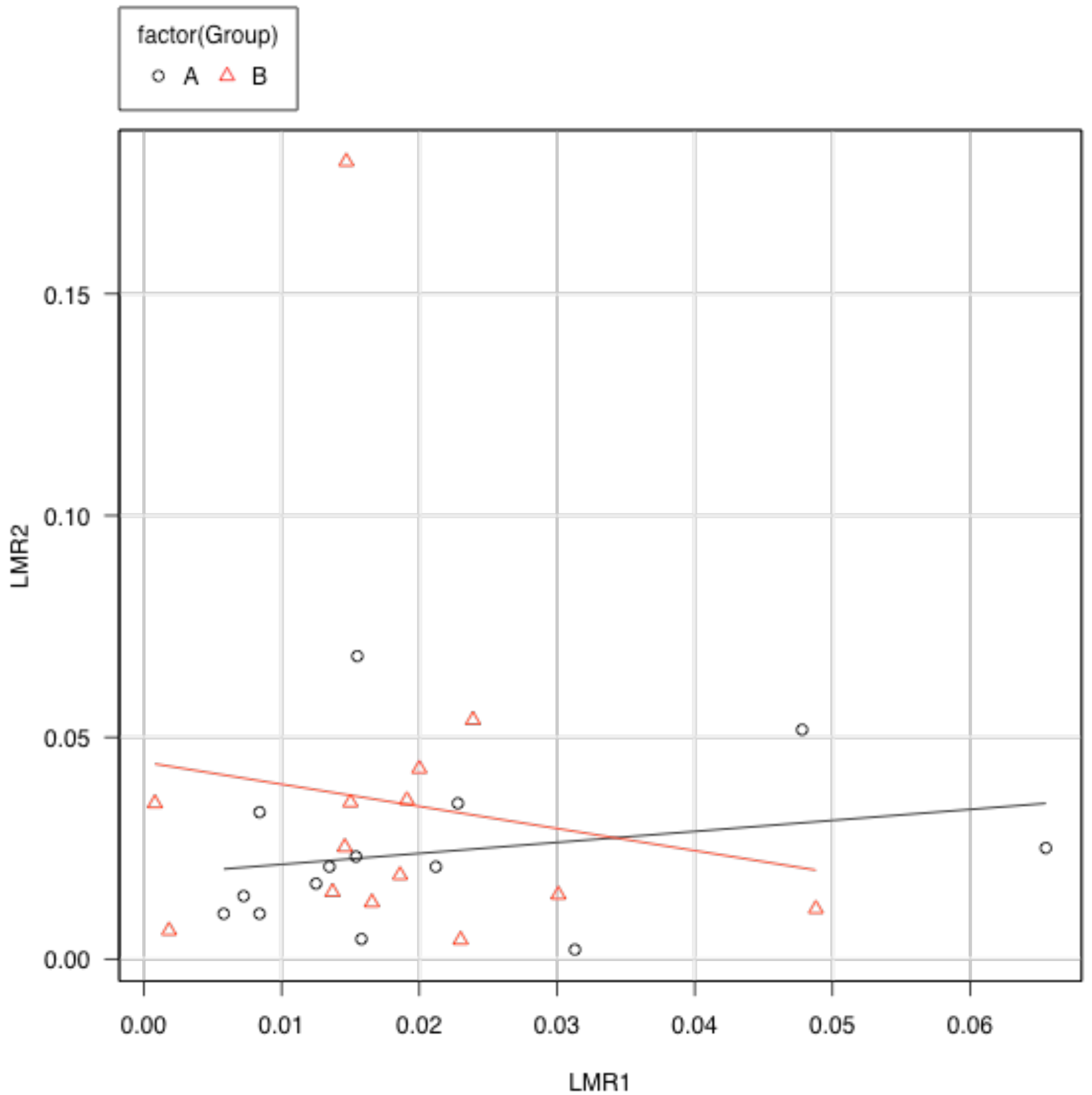
```

	mean	sd	p.value
Group=A	0.02079417	0.01701260	0.697
Group=B	0.01861978	0.01165042	

```

> #####ANCOVA#####
> TempDF <- primary_data
> quartz(width=7, height=7); par(lwd=1, las=1, family="sans", cex=1, mgp=c(0,0,0))
> scatterplot(LMR2 ~ LMR1 | factor(Group), reg.line=lm, smooth=FALSE, spr=1,
+ by.groups=TRUE, data=TempDF)

```



```
> cat(gettext(domain="R-RcmdrPlugin.EZR",
+ "P value for interaction between grouping variable and covariate is")
+ ")")
```

P value for interaction between grouping variable and covariate is 0.464

```
> AnovaModel.1 <- AnovaModel.1 <- lm(LMR2 ~ 1 + factor(Group) + LMR1, dat
+ na.action=na.omit)
> Anova(AnovaModel.1, type="III")
```

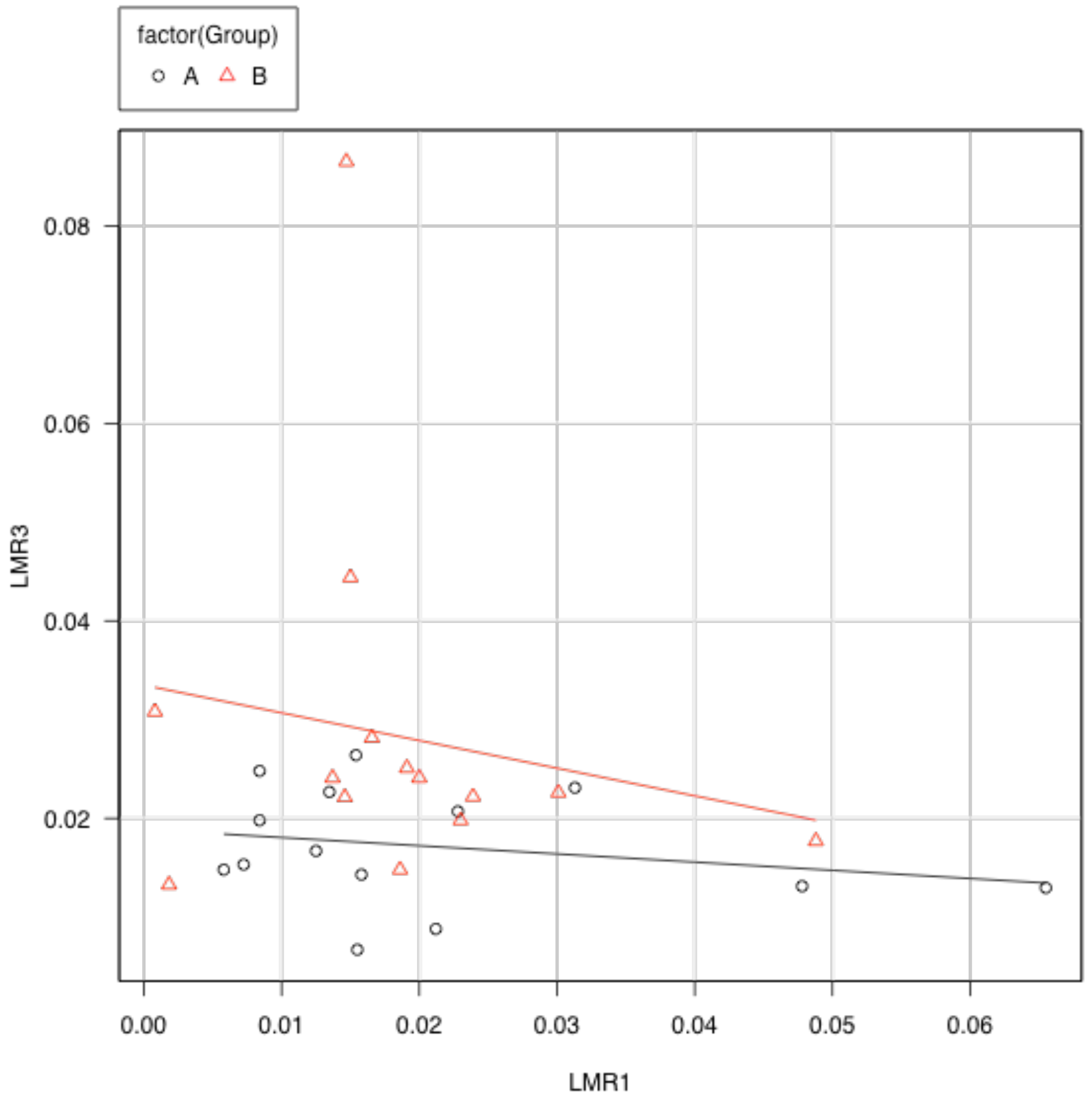

Anova Table (Type III tests)

Response: LMR2

	Sum Sq	Df	F value	Pr(>F)
(Intercept)	0.0037894	1	3.1877	0.08633 .
factor(Group)	0.0008577	1	0.7215	0.40372
LMR1	0.0000005	1	0.0004	0.98402
Residuals	0.0297189	25		

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```
> #####ANCOVA#####  
> TempDF <- primary_data  
> quartz(width=7, height=7); par(lwd=1, las=1, family="sans", cex=1, mgp=  
> scatterplot(LMR3 ~ LMR1 | factor(Group), reg.line=lm, smooth=FALSE, spr  
+ by.groups=TRUE, data=TempDF)
```



```
> cat(gettext(domain="R-RcmdrPlugin.EZR",
+ "P value for interaction between grouping variable and covariate is")
+ ")")
```

P value for interaction between grouping variable and covariate is 0.63

```
> AnovaModel.2 <- AnovaModel.2 <- lm(LMR3 ~ 1 + factor(Group) + LMR1, dat
+ na.action=na.omit)
> Anova(AnovaModel.2, type="III")
```

Anova Table (Type III tests)

Response: LMR3

	Sum Sq	Df	F value	Pr(>F)	
(Intercept)	0.0027262	1	14.3803	0.0008433	***
factor(Group)	0.0008098	1	4.2714	0.0492630	*
LMR1	0.0001184	1	0.6243	0.4368736	
Residuals	0.0047395	25			

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```
> #####Two-sample t-test#####
```

```
> group.names <- NULL
```

```
> group.means <- NULL
```

```
> group.sds <- NULL
```

```
> group.p <- NULL
```

```
> res <- NULL
```

```
> (res <- t.test(Lac.1~factor(Group), alternative='two.sided', conf.level=0.95,
+ var.equal=FALSE, data=primary_data))
```

welch Two Sample t-test

data: Lac.1 by factor(Group)

t = 0.069737, df = 24.149, p-value = 0.945

alternative hypothesis: true difference in means is not equal to 0

95 percent confidence interval:

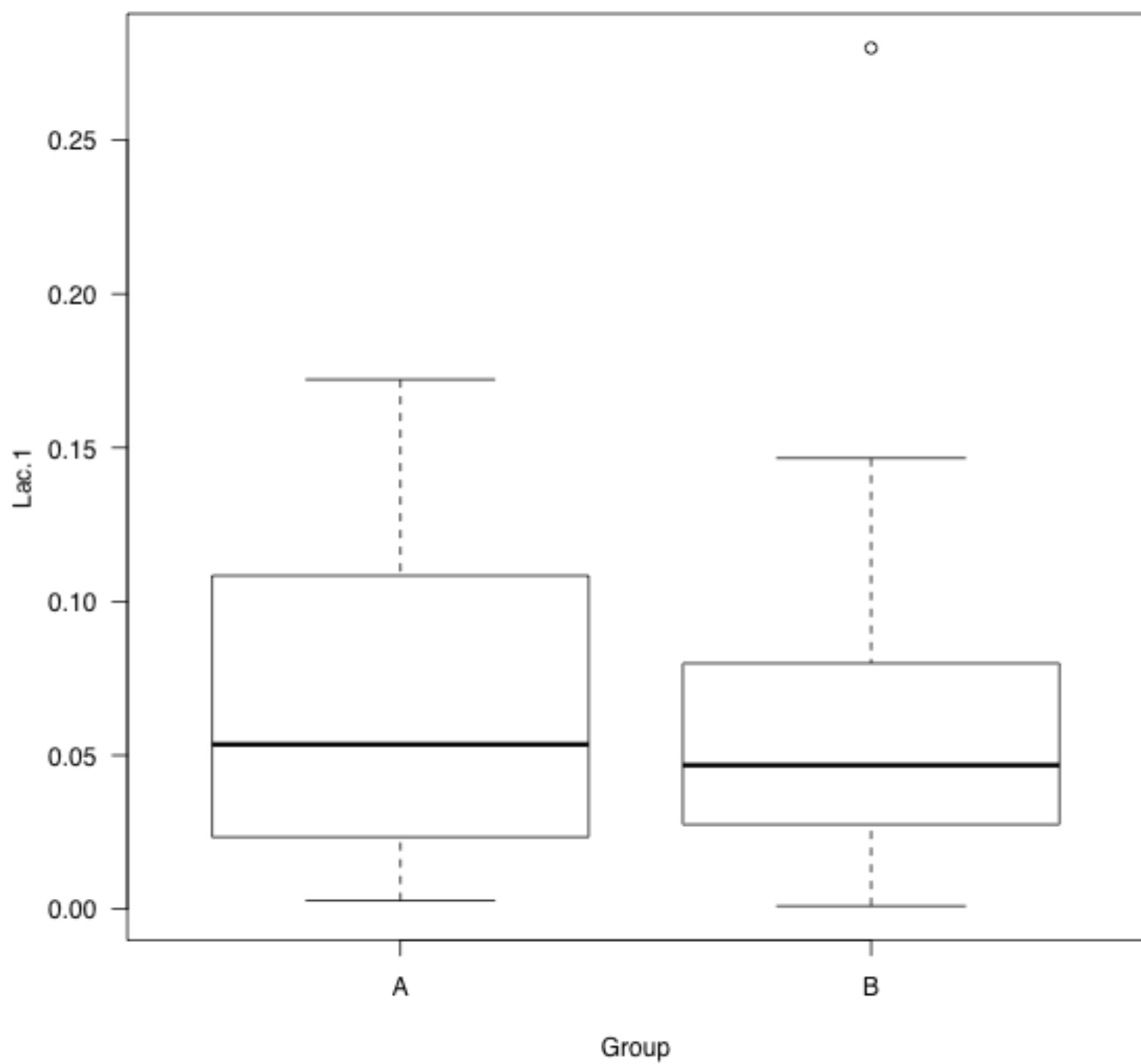
-0.04908311 0.05251720

sample estimates:

mean in group A mean in group B

0.07040250 0.06868545

```
> quartz(width=7, height=7); par(lwd=1, las=1, family="sans", cex=1, mgp=
> boxplot(Lac.1~ factor(Group), ylab="Lac.1", xlab="Group", data=primary_
```



```

> bar.means <- tapply(primary_data$Lac.1, factor(primary_data$Group), mea
> bar.sds <- tapply(primary_data$Lac.1, factor(primary_data$Group), sd, n
> group.names <- c(group.names, "Group=A")
> group.means <- c(group.means, bar.means[1])
> group.sds <- c(group.sds, bar.sds[1])
> group.p <- c(group.p, signif(res$p.value,digits=3))
> group.names <- c(group.names, "Group=B")
> group.means <- c(group.means, bar.means[2])
> group.sds <- c(group.sds, bar.sds[2])
> group.p <- c(group.p, "")
> summary.ttest <- NULL
> summary.ttest <- data.frame(mean=group.means, sd=group.sds, p.value=gro
> rownames(summary.ttest) <- group.names
> colnames(summary.ttest) <- gettext(domain="R-RcmdrPlugin.EZR",colnames(
> summary.ttest

```

	mean	sd	p.value
Group=A	0.07040250	0.05539498	0.945
Group=B	0.06868545	0.07361109	

```

> #####ANCOVA#####
+ TempDF <- primary_data
+ quartz(width=7, height=7); par(lwd=1, las=1, family="sans", cex=1, mgp=
+ scatterplot(Lac.2 ~ Lac.1 | factor(Group), reg.line=lm, smooth=FALSE, s
+ by.groups=TRUE, data=TempDF)
+ cat(gettext(domain="R-RcmdrPlugin.EZR",
+ "P value for interaction between grouping variable and covariate is")
+ ")
+ ANCOVA not performed due to significant interaction between grouping va

```

```

Error: <text>:9:8: unexpected symbol
8: ")
9: ANCOVA not
  ^

```

```

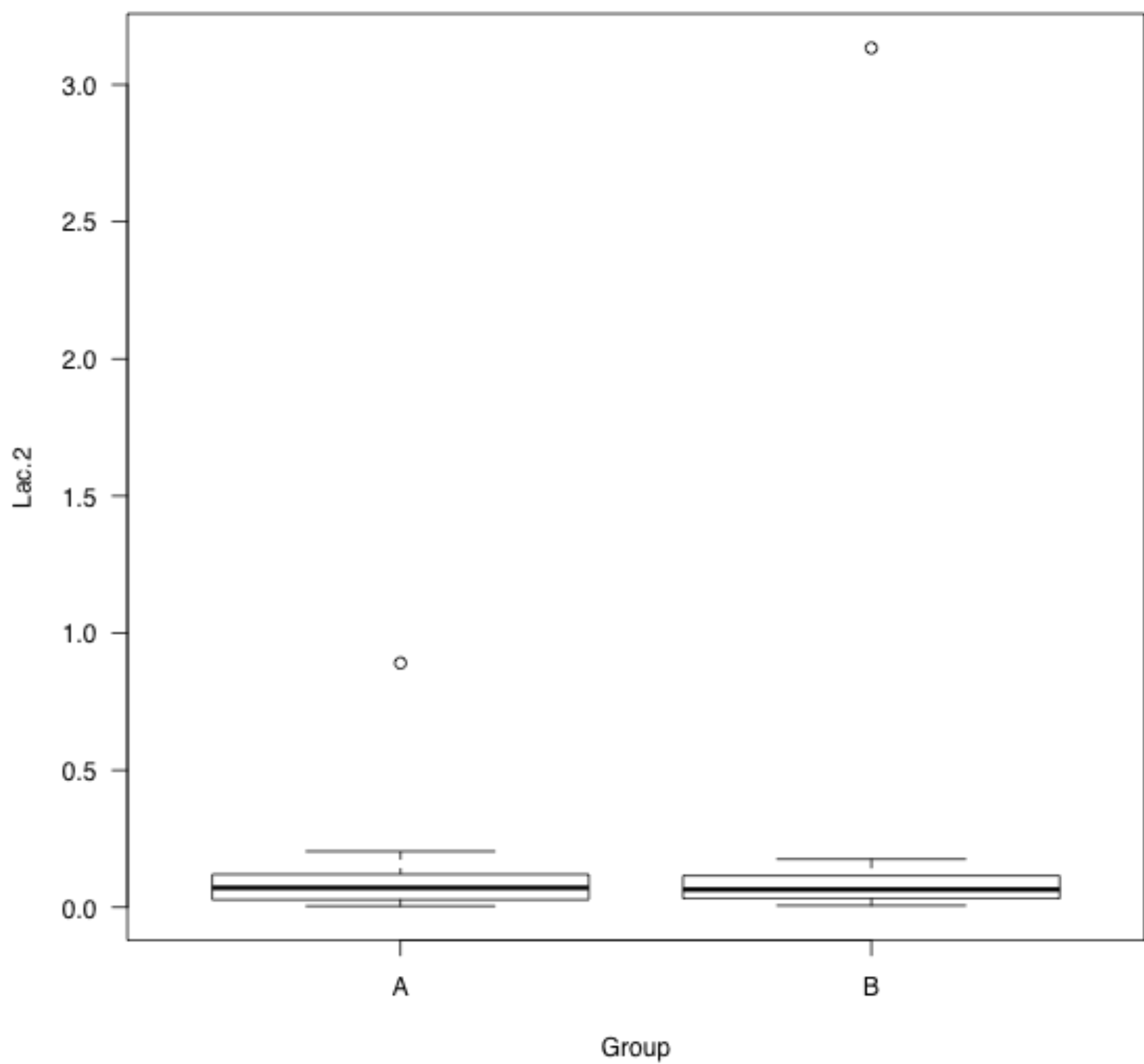
> #####Two-sample t-test#####
> group.names <- NULL
> group.means <- NULL
> group.sds <- NULL
> group.p <- NULL
> res <- NULL
> (res <- t.test(Lac.2~factor(Group), alternative='two.sided', conf.level=
+ var.equal=FALSE, data=primary_data))

```

welch Two Sample t-test

```
data: Lac.2 by factor(Group)
t = -0.67776, df = 14.961, p-value = 0.5083
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 -0.6391164  0.3307795
sample estimates:
mean in group A mean in group B
 0.1337660      0.2879345
```

```
> quartz(width=7, height=7); par(lwd=1, las=1, family="sans", cex=1, mgp=
> boxplot(Lac.2~ factor(Group), ylab="Lac.2", xlab="Group", data=primary_
```



```

> bar.means <- tapply(primary_data$Lac.2, factor(primary_data$Group), mea
> bar.sds <- tapply(primary_data$Lac.2, factor(primary_data$Group), sd, n
> group.names <- c(group.names, "Group=A")
> group.means <- c(group.means, bar.means[1])
> group.sds <- c(group.sds, bar.sds[1])
> group.p <- c(group.p, signif(res$p.value,digits=3))
> group.names <- c(group.names, "Group=B")
> group.means <- c(group.means, bar.means[2])
> group.sds <- c(group.sds, bar.sds[2])
> group.p <- c(group.p, "")
> summary.ttest <- NULL
> summary.ttest <- data.frame(mean=group.means, sd=group.sds, p.value=gro
> rownames(summary.ttest) <- group.names
> colnames(summary.ttest) <- gettext(domain="R-RcmdrPlugin.EZR",colnames(
> summary.ttest

```

	mean	sd	p.value
Group=A	0.1337660	0.2259942	0.508
Group=B	0.2879345	0.8205568	

```

> #####ANCOVA#####
+ TempDF <- primary_data
+ quartz(width=7, height=7); par(lwd=1, las=1, family="sans", cex=1, mgp=
+ scatterplot(Lac.3 ~ Lac.1 | factor(Group), reg.line=lm, smooth=FALSE, s
+ by.groups=TRUE, data=TempDF)
+ cat(gettext(domain="R-RcmdrPlugin.EZR",
+ "P value for interaction between grouping variable and covariate is")
+ ")
+ ANCOVA not performed due to significant interaction between grouping va

```

```

Error: <text>:9:8: unexpected symbol
8: ")
9: ANCOVA not
  ^

```

```

> #####Two-sample t-test#####
> group.names <- NULL
> group.means <- NULL
> group.sds <- NULL
> group.p <- NULL
> res <- NULL
> (res <- t.test(Lac.3~factor(Group), alternative='two.sided', conf.level=
+ var.equal=FALSE, data=primary_data))

```


Welch Two Sample t-test

data: Lac.3 by factor(Group)

t = -1.148, df = 17.098, p-value = 0.2668

alternative hypothesis: true difference in means is not equal to 0

95 percent confidence interval:

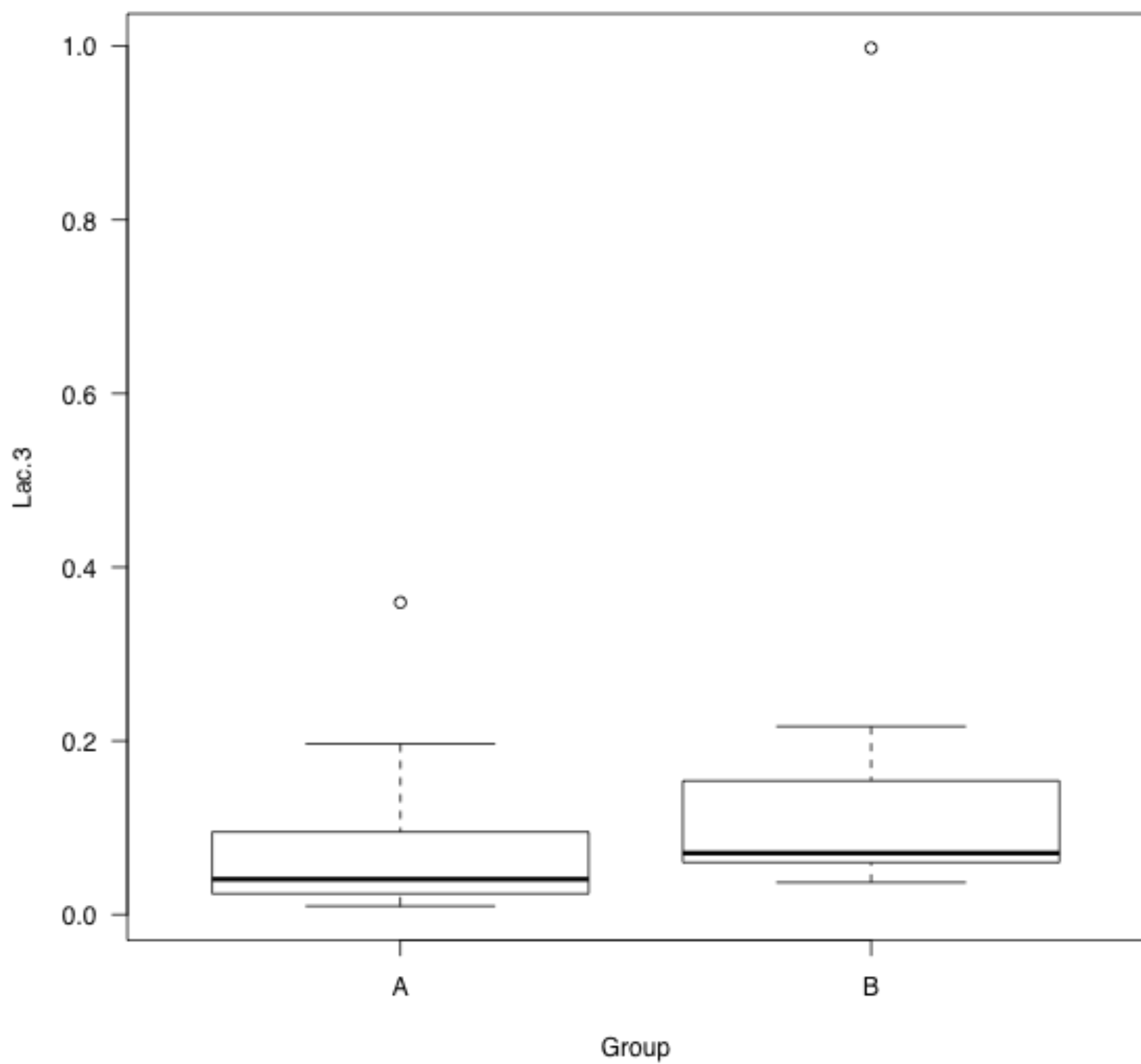
-0.23124066 0.06822562

sample estimates:

mean in group A mean in group B

0.08202325 0.16353077

```
> quartz(width=7, height=7); par(lwd=1, las=1, family="sans", cex=1, mgp=
> boxplot(Lac.3~ factor(Group), ylab="Lac.3", xlab="Group", data=primary_
```



```

> bar.means <- tapply(primary_data$Lac.3, factor(primary_data$Group), mea
> bar.sds <- tapply(primary_data$Lac.3, factor(primary_data$Group), sd, n
> group.names <- c(group.names, "Group=A")
> group.means <- c(group.means, bar.means[1])
> group.sds <- c(group.sds, bar.sds[1])
> group.p <- c(group.p, signif(res$p.value,digits=3))
> group.names <- c(group.names, "Group=B")
> group.means <- c(group.means, bar.means[2])
> group.sds <- c(group.sds, bar.sds[2])
> group.p <- c(group.p, "")
> summary.ttest <- NULL
> summary.ttest <- data.frame(mean=group.means, sd=group.sds, p.value=gro
> rownames(summary.ttest) <- group.names
> colnames(summary.ttest) <- gettext(domain="R-RcmdrPlugin.EZR",colnames(
> summary.ttest

```

	mean	sd	p.value
Group=A	0.08202325	0.09912205	0.267
Group=B	0.16353077	0.24647560	

```

> #####Two-sample t-test#####
> group.names <- NULL
> group.means <- NULL
> group.sds <- NULL
> group.p <- NULL
> res <- NULL
> (res <- t.test(Man.1~factor(Group), alternative='two.sided', conf.level
+ var.equal=FALSE, data=primary_data))

```

Welch Two Sample t-test

```

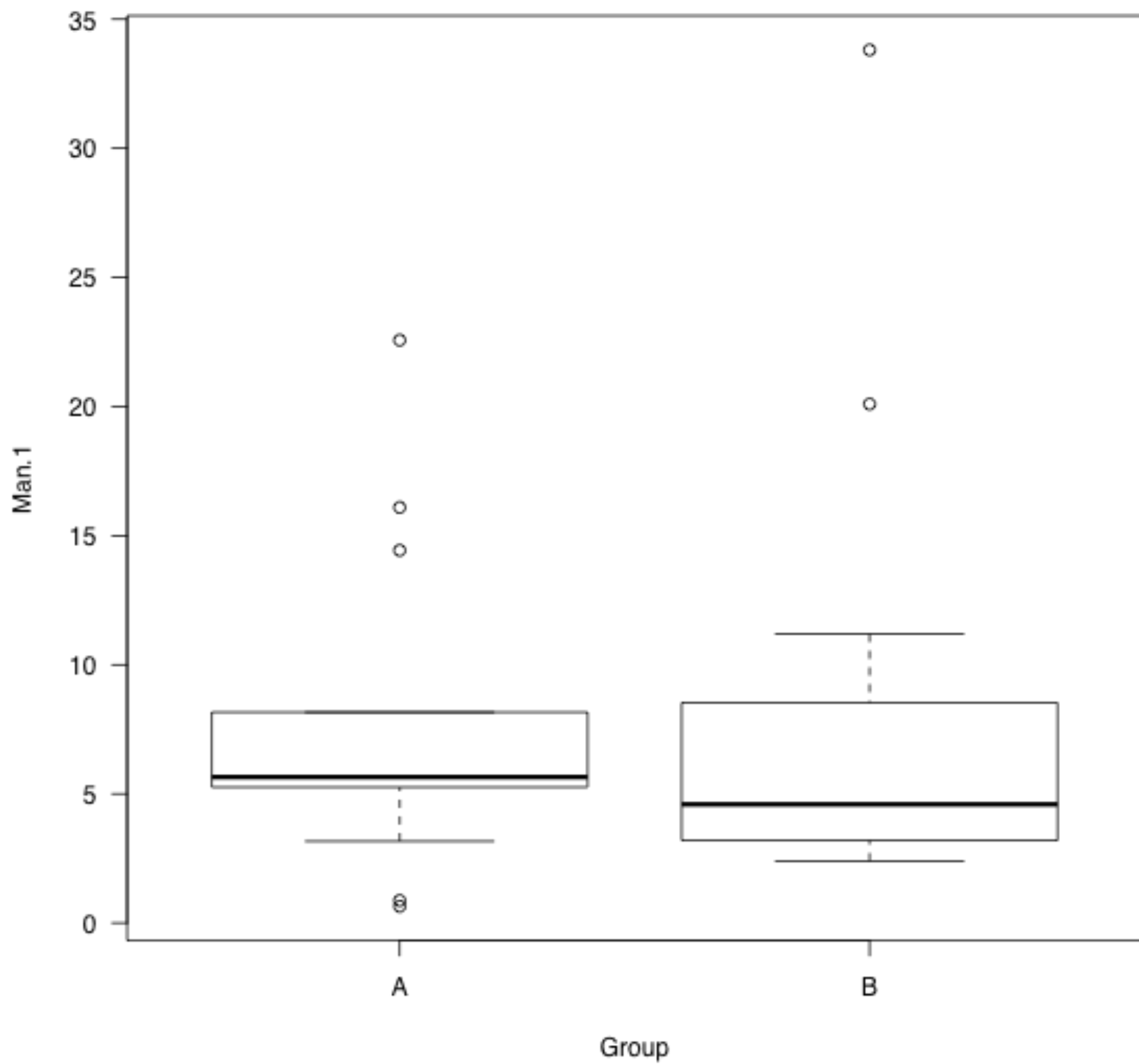
data: Man.1 by factor(Group)
t = -0.18537, df = 23.185, p-value = 0.8545
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 -6.417720  5.361695
sample estimates:
mean in group A mean in group B
      7.633565      8.161577

```

```

> quartz(width=7, height=7); par(lwd=1, las=1, family="sans", cex=1, mgp=
> boxplot(Man.1~ factor(Group), ylab="Man.1", xlab="Group", data=primary_

```



```

> bar.means <- tapply(primary_data$Man.1, factor(primary_data$Group), mea
> bar.sds <- tapply(primary_data$Man.1, factor(primary_data$Group), sd, n
> group.names <- c(group.names, "Group=A")
> group.means <- c(group.means, bar.means[1])
> group.sds <- c(group.sds, bar.sds[1])
> group.p <- c(group.p, signif(res$p.value,digits=3))
> group.names <- c(group.names, "Group=B")
> group.means <- c(group.means, bar.means[2])
> group.sds <- c(group.sds, bar.sds[2])
> group.p <- c(group.p, "")
> summary.ttest <- NULL
> summary.ttest <- data.frame(mean=group.means, sd=group.sds, p.value=gro
> rownames(summary.ttest) <- group.names
> colnames(summary.ttest) <- gettext(domain="R-RcmdrPlugin.EZR",colnames(
> summary.ttest

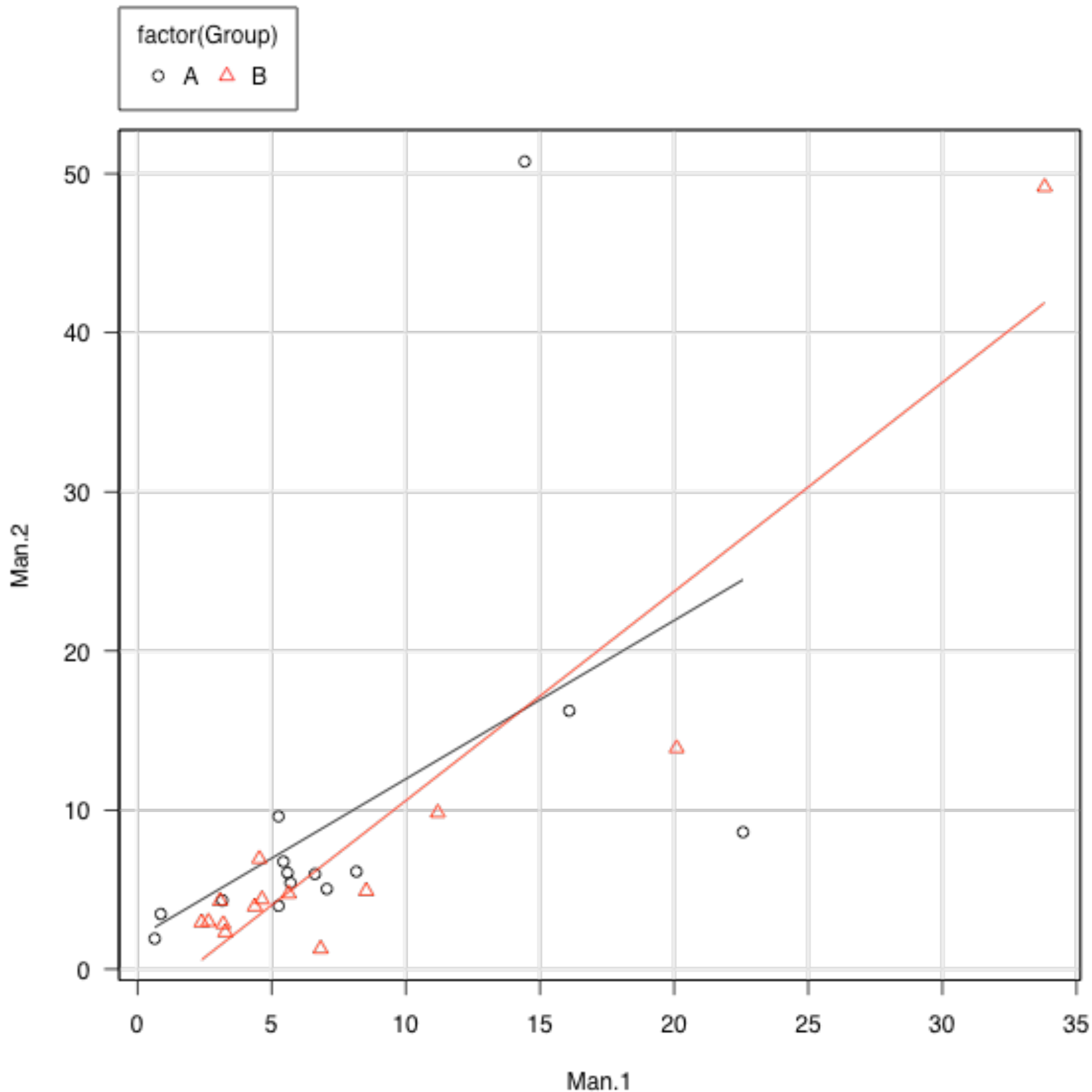
```

	mean	sd	p.value
Group=A	7.633565	6.082981	0.855
Group=B	8.161577	8.751138	

```

> #####ANCOVA#####
> TempDF <- primary_data
> quartz(width=7, height=7); par(lwd=1, las=1, family="sans", cex=1, mgp=
> scatterplot(Man.2 ~ Man.1 | factor(Group), reg.line=lm, smooth=FALSE, s
+   by.groups=TRUE, data=TempDF)

```



```
> cat(gettext(domain="R-RcmdrPlugin.EZR",
+ "P value for interaction between grouping variable and covariate is")
+ ")")
```

P value for interaction between grouping variable and covariate is 0.507

```
> AnovaModel.5 <- AnovaModel.5 <- lm(Man.2 ~ 1 + factor(Group) + Man.1, d
+ na.action=na.omit)
> Anova(AnovaModel.5, type="III")
```

Anova Table (Type III tests)

Response: Man.2

	Sum Sq	Df	F value	Pr(>F)
(Intercept)	1.09	1	0.0155	0.9020
factor(Group)	29.62	1	0.4194	0.5231
Man.1	2164.82	1	30.6517	9.367e-06 ***
Residuals	1765.67	25		

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```
> #####ANCOVA#####
+ TempDF <- primary_data
+ quartz(width=7, height=7); par(lwd=1, las=1, family="sans", cex=1, mgp=
+ scatterplot(Man.3 ~ Man.1 | factor(Group), reg.line=lm, smooth=FALSE, s
+ by.groups=TRUE, data=TempDF)
+ cat(gettext(domain="R-RcmdrPlugin.EZR",
+ "P value for interaction between grouping variable and covariate is")
+ ")
+ ANCOVA not performed due to significant interaction between grouping va
```

Error: <text>:9:8: unexpected symbol

8: ")

9: ANCOVA not

^

```
> #####Two-sample t-test#####
> group.names <- NULL
> group.means <- NULL
> group.sds <- NULL
> group.p <- NULL
> res <- NULL
> (res <- t.test(Man.3~factor(Group), alternative='two.sided', conf.level
+ var.equal=FALSE, data=primary_data))
```

welch Two Sample t-test

data: Man.3 by factor(Group)

t = 0.070068, df = 21.401, p-value = 0.9448

alternative hypothesis: true difference in means is not equal to 0

95 percent confidence interval:

-5.558782 5.946879

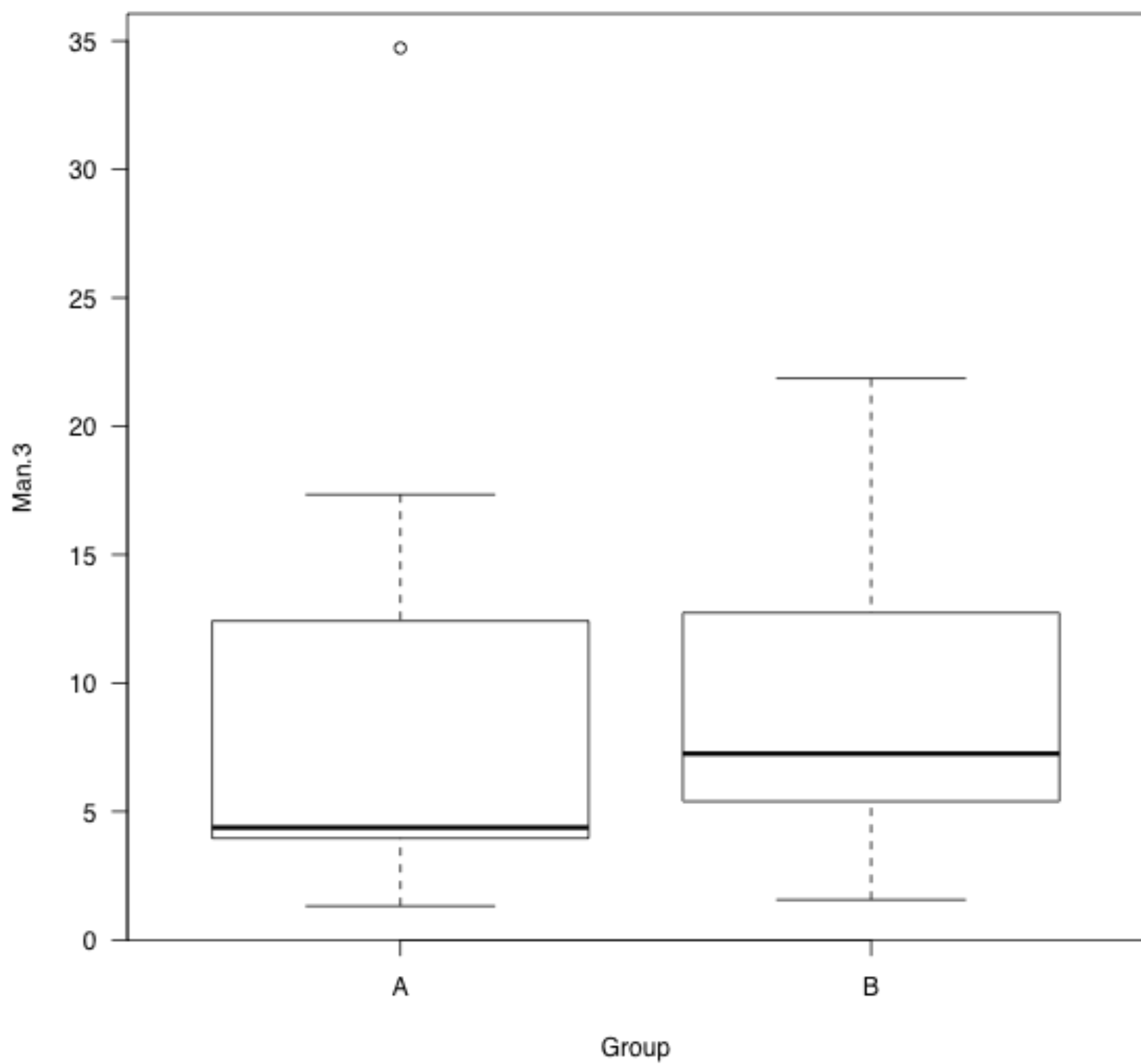
sample estimates:

mean in group A mean in group B

8.725672

8.531623

```
> quartz(width=7, height=7); par(lwd=1, las=1, family="sans", cex=1, mgp=
> boxplot(Man.3~ factor(Group), ylab="Man.3", xlab="Group", data=primary_
```

```

> bar.means <- tapply(primary_data$Man.3, factor(primary_data$Group), mea
> bar.sds <- tapply(primary_data$Man.3, factor(primary_data$Group), sd, n
> group.names <- c(group.names, "Group=A")
> group.means <- c(group.means, bar.means[1])
> group.sds <- c(group.sds, bar.sds[1])
> group.p <- c(group.p, signif(res$p.value,digits=3))
> group.names <- c(group.names, "Group=B")
> group.means <- c(group.means, bar.means[2])
> group.sds <- c(group.sds, bar.sds[2])
> group.p <- c(group.p, "")
> summary.ttest <- NULL
> summary.ttest <- data.frame(mean=group.means, sd=group.sds, p.value=gro
> rownames(summary.ttest) <- group.names
> colnames(summary.ttest) <- gettext(domain="R-RcmdrPlugin.EZR",colnames(
> summary.ttest

```

	mean	sd	p.value
Group=A	8.725672	8.864379	0.945
Group=B	8.531623	5.366668	

```

> #####Two-sample t-test#####
> group.names <- NULL
> group.means <- NULL
> group.sds <- NULL
> group.p <- NULL
> res <- NULL
> (res <- t.test(EAA1~factor(Group), alternative='two.sided', conf.level=
+ data=primary_data))

```

Welch Two Sample t-test

```

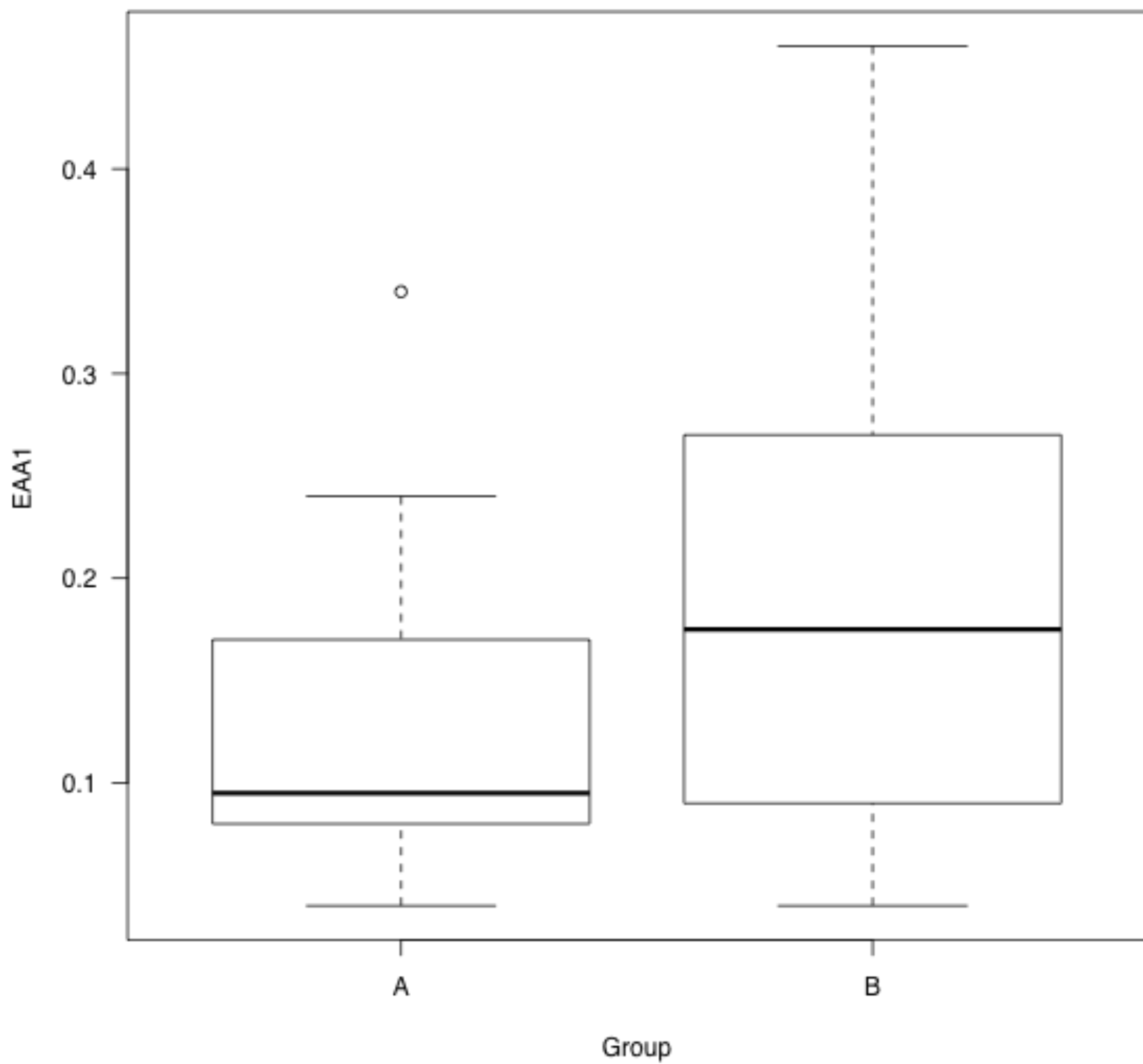
data: EAA1 by factor(Group)
t = -1.5893, df = 22.571, p-value = 0.1259
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 -0.14969488  0.01969488
sample estimates:
mean in group A mean in group B
      0.1307143      0.1957143

```

```

> quartz(width=7, height=7); par(lwd=1, las=1, family="sans", cex=1, mgp=
> boxplot(EAA1~ factor(Group), ylab="EAA1", xlab="Group", data=primary_da

```



```

> bar.means <- tapply(primary_data$EAA1, factor(primary_data$Group), mean)
> bar.sds <- tapply(primary_data$EAA1, factor(primary_data$Group), sd, na.rm=TRUE)
> group.names <- c(group.names, "Group=A")
> group.means <- c(group.means, bar.means[1])
> group.sds <- c(group.sds, bar.sds[1])
> group.p <- c(group.p, signif(res$p.value,digits=3))
> group.names <- c(group.names, "Group=B")
> group.means <- c(group.means, bar.means[2])
> group.sds <- c(group.sds, bar.sds[2])
> group.p <- c(group.p, "")
> summary.ttest <- NULL
> summary.ttest <- data.frame(mean=group.means, sd=group.sds, p.value=group.p)
> rownames(summary.ttest) <- group.names
> colnames(summary.ttest) <- gettext(domain="R-RcmdrPlugin.EZR",colnames(summary.ttest))
> summary.ttest

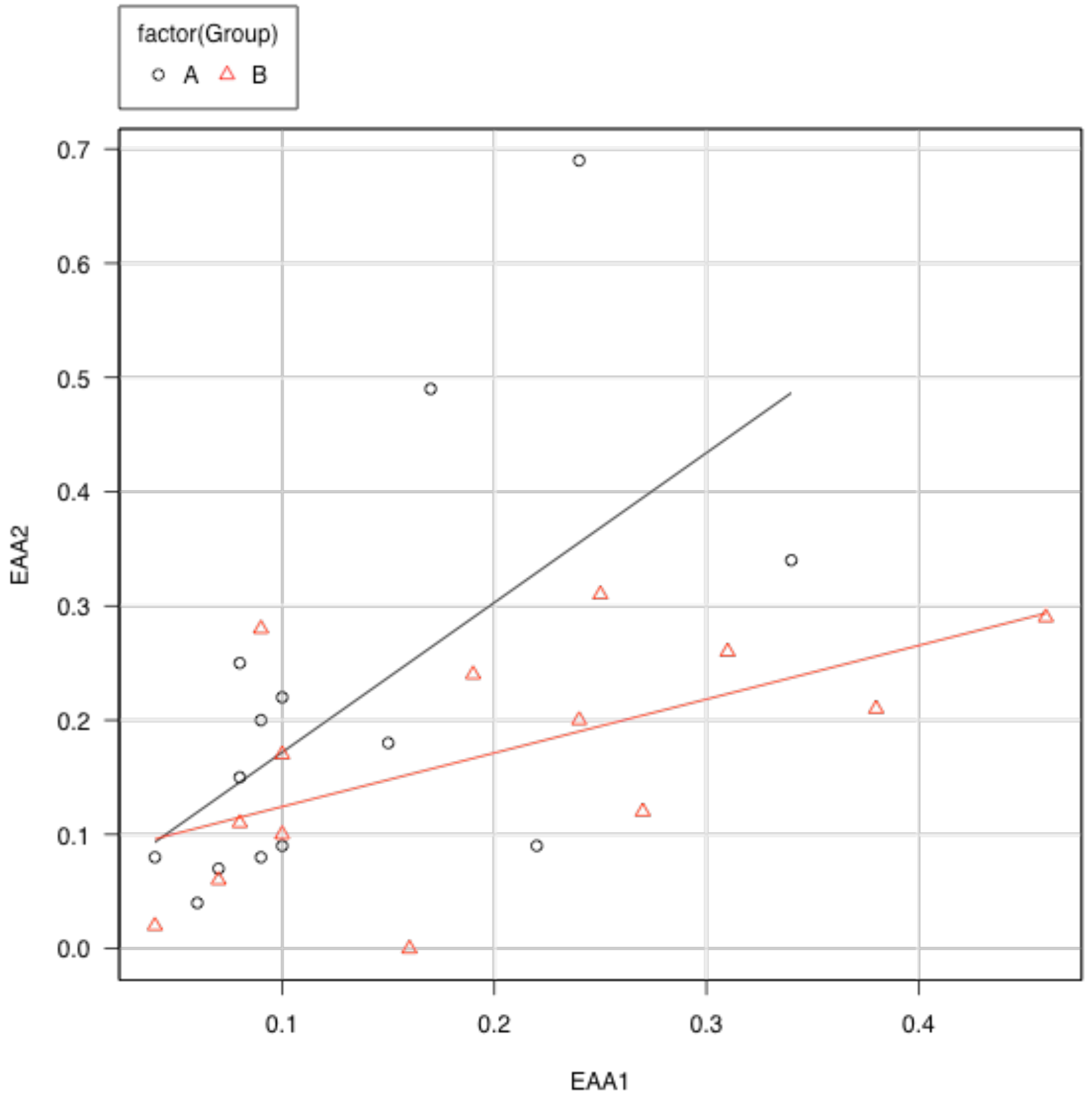
```

	mean	sd	p.value
Group=A	0.1307143	0.08453168	0.126
Group=B	0.1957143	0.12756382	

```

> #####ANCOVA#####
> TempDF <- primary_data
> quartz(width=7, height=7); par(lwd=1, las=1, family="sans", cex=1, mgp=c(0,0,0))
> scatterplot(EAA2 ~ EAA1 | factor(Group), reg.line=lm, smooth=FALSE, spr=1,
+ by.groups=TRUE, data=TempDF)

```



```
> cat(gettext(domain="R-RcmdrPlugin.EZR",
+ "P value for interaction between grouping variable and covariate is")
+ ")")
```

P value for interaction between grouping variable and covariate is 0.0994

```
> AnovaModel.7 <- AnovaModel.7 <- lm(EAA2 ~ 1 + factor(Group) + EAA1, dat
+ na.action=na.omit)
> Anova(AnovaModel.7, type="III")
```

Anova Table (Type III tests)

Response: EAA2

	Sum Sq	Df	F value	Pr(>F)	
(Intercept)	0.10760	1	6.4299	0.017848	*
factor(Group)	0.05179	1	3.0947	0.090785	.
EAA1	0.16077	1	9.6075	0.004747	**
Residuals	0.41835	25			

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

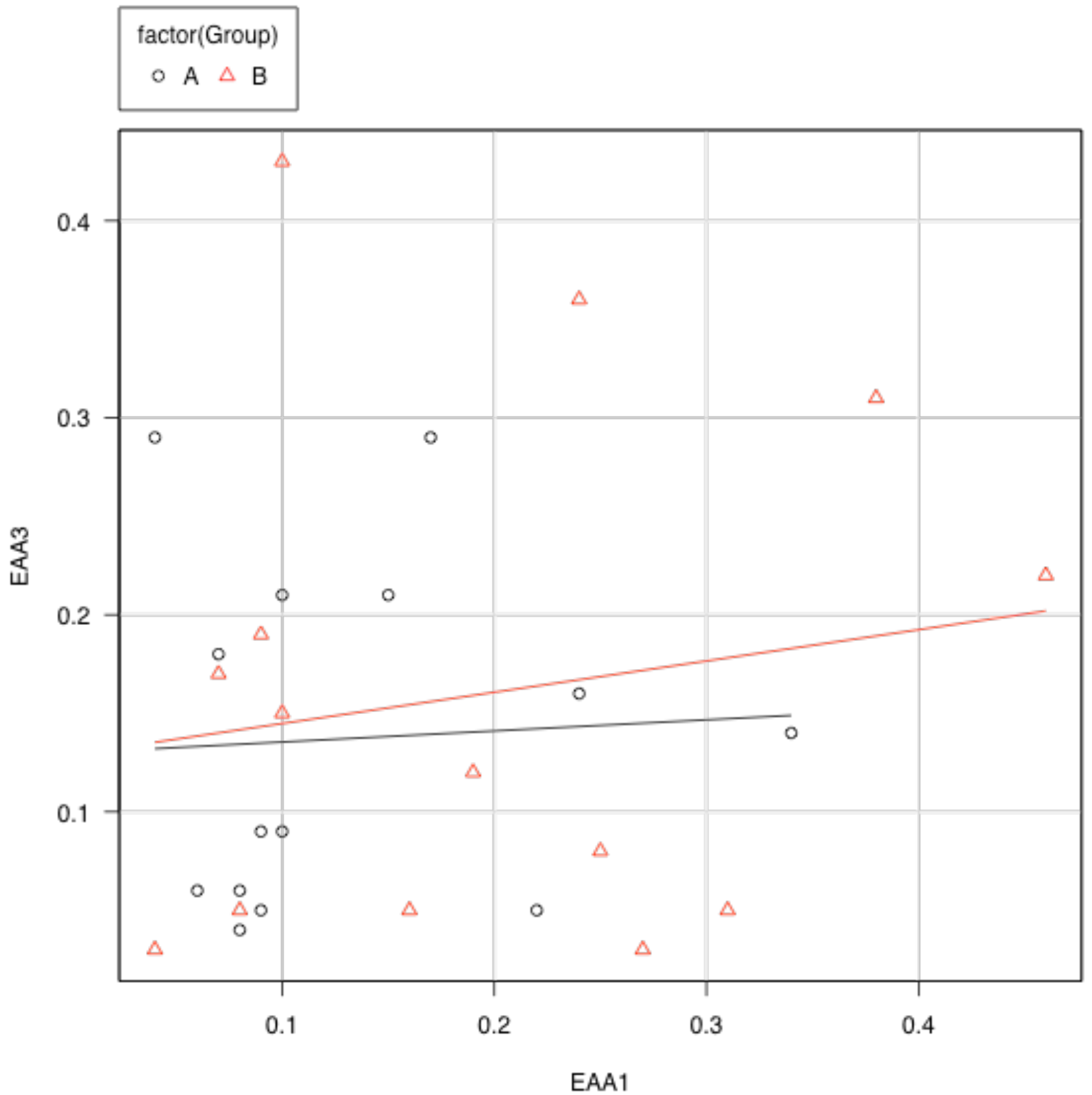
```
> #####ANCOVA#####
```

```
> TempDF <- primary_data
```

```
> quartz(width=7, height=7); par(lwd=1, las=1, family="sans", cex=1, mgp=
```

```
> scatterplot(EAA3 ~ EAA1 | factor(Group), reg.line=lm, smooth=FALSE, spr
```

```
+ by.groups=TRUE, data=TempDF)
```



```
> cat(gettext(domain="R-RcmdrPlugin.EZR",
+ "P value for interaction between grouping variable and covariate is")
+ ")
```

P value for interaction between grouping variable and covariate is 0.822

```
> AnovaModel.8 <- AnovaModel.8 <- lm(EAA3 ~ 1 + factor(Group) + EAA1, dat
+ na.action=na.omit)
> Anova(AnovaModel.8, type="III")
```

Anova Table (Type III tests)

Response: EAA3

	Sum Sq	Df	F value	Pr(>F)	
(Intercept)	0.113783	1	9.0611	0.005893	**
factor(Group)	0.001354	1	0.1078	0.745383	
EAA1	0.004952	1	0.3944	0.535704	
Residuals	0.313933	25			

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

```
> #####Read Data From Text File#####
```

```
> AE <- read.table("/Users/takakato222/Desktop/lubiprostone adverse event  
+ sep=",", na.strings=c("", "NA"), dec=".", fill=TRUE, quote="\\"", stri  
> AE <- read.table("/Users/takakato222/Desktop/lubiprostone adverse event  
+ sep=",", na.strings=c("", "NA"), dec=".", fill=TRUE, quote="\\"", stri
```

```
> library(abind, pos=16)
```

```
> #####Create two-way table and compare two proportions (Fisher's exact t
```

```
> Fisher.summary.table <- NULL  
> .Table <- NULL  
> .Table <- xtabs(~AE+Group, data=AE)  
> .Table
```

	Group	
AE	A	B
0	11	15
1	4	0

```
> rowPercents(.Table) # Row Percentages
```

	Group		Total	Count
AE	A	B		
0	42.3	57.7	100	26
1	100.0	0.0	100	4

```
> fisher.test(.Table)
```


Fisher's Exact Test for Count Data

```
data: .Table
p-value = 0.09962
alternative hypothesis: true odds ratio is not equal to 1
95 percent confidence interval:
 0.000000 1.379265
sample estimates:
odds ratio
      0
```

```
> res <- NULL
> res <- fisher.test(.Table)
> Fisher.summary.table <- rbind(Fisher.summary.table,
+ summary.table.twoway(table=.Table, res=res))
> colnames(Fisher.summary.table)[length(Fisher.summary.table)] <-
+ gettext(domain="R-RcmdrPlugin.EZR",
+ colnames(Fisher.summary.table)[length(Fisher.summary.table)])
> Fisher.summary.table
```

	Group=A	Group=B	Fisher.p.value
AE=0	11	15	0.0996
AE=1	4	0	