Analise TCC Milena

Code

Carregar primeiro: tidyverse lawstat car readxl (linux package cmake)

Fazendo um boxplot dos dados olhando parques, int vs ext, e el nino

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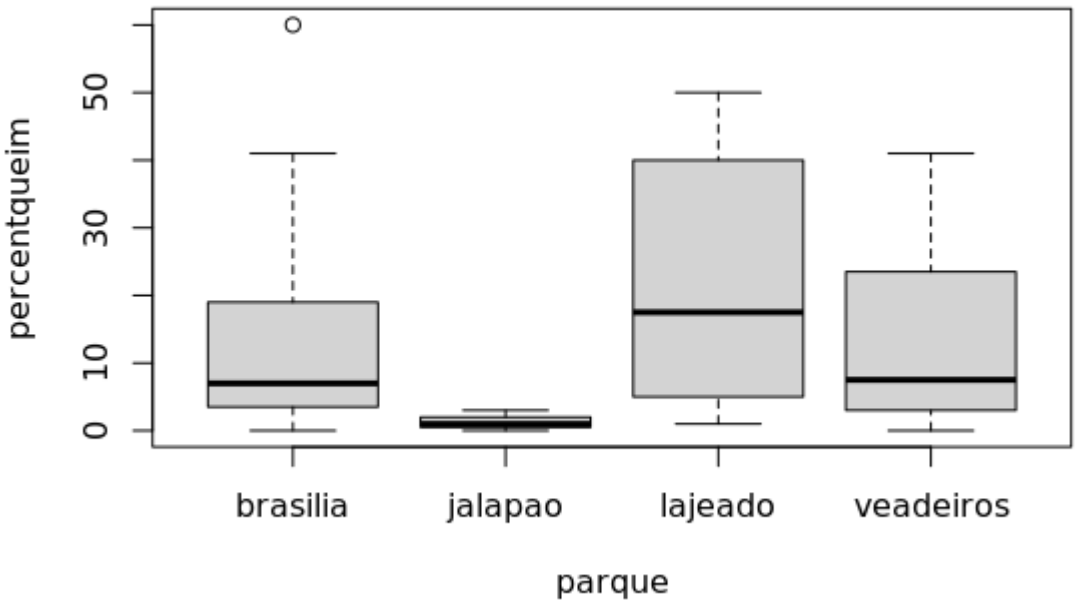
```
boxplot(percentqueim~parque, data=parqueim)
```



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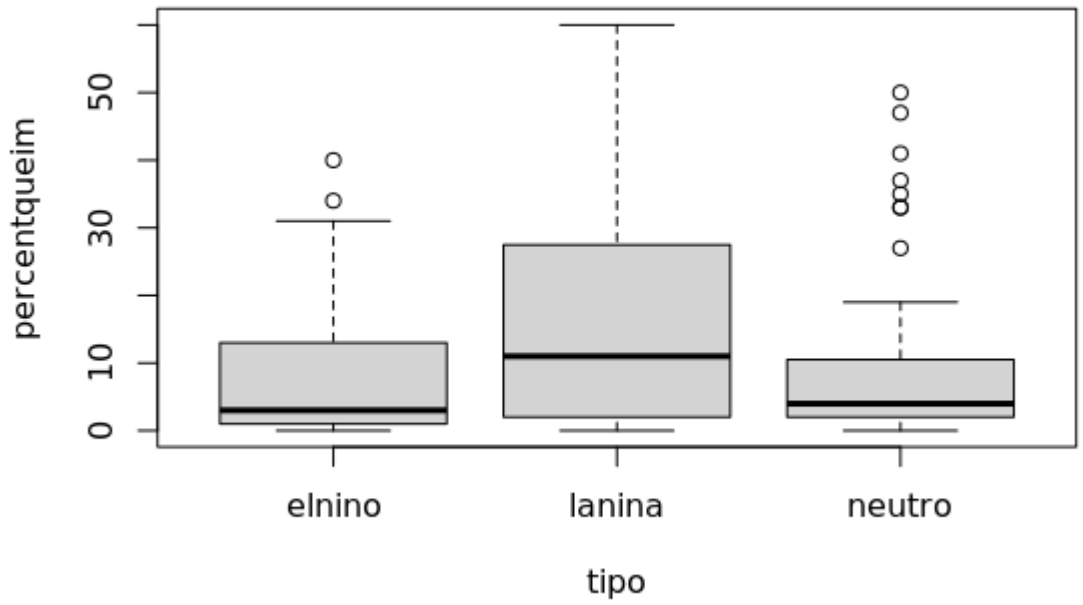
```
boxplot(percentqueim~tipo, data=parqueim)
```



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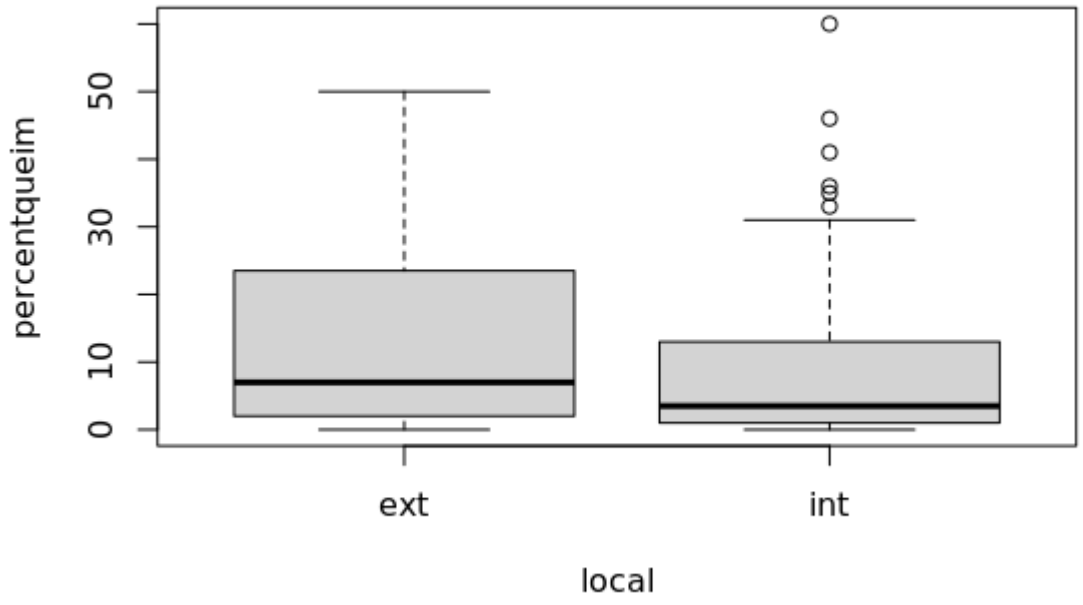
```
boxplot(percentqueim~local, data=parqueim)
```



Removendo o parque do Jalapao da analise

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```
parquenj <- parqueim %>%  filter(parque!='jalapao')
```

Fazendo transformacao logit da proporcao de area queimada cada parque cada ano e fazendo anova parque vs el nino com interacao e var dependente logit

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```
parquenj3 <- parquenj %>%
  mutate(logitquei = logit(propqueim))
anova3wtudo<-aov(logitquei ~ parque+tipo+parque:tipo, parquenj3)
summary(anova3wtudo)
```

```
            Df Sum Sq Mean Sq F value  Pr(>F)
parque       2   9.65   4.825   2.539 0.08592 .
tipo         2  20.84  10.422   5.484 0.00604 **
parque:tipo  4   1.08   0.271   0.143 0.96570
Residuals   73 138.73   1.900
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

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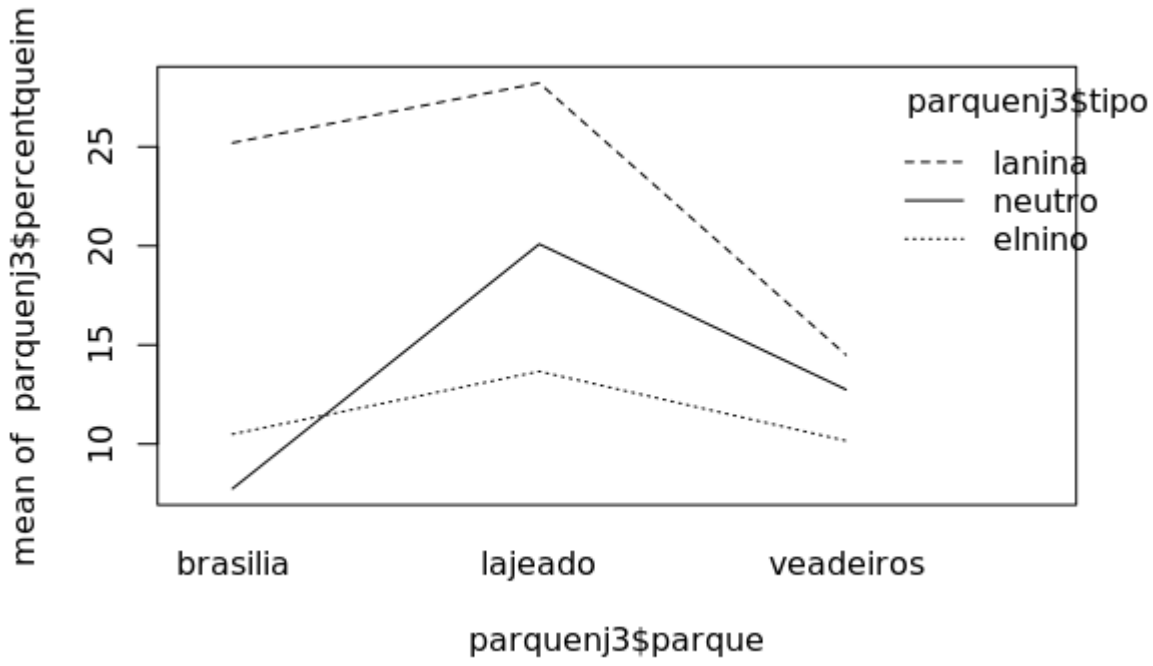
```
interaction.plot(parquenj3$parque, parquenj3$tipo, parquenj3$percentqueim)
```



Testando a premissa de normalidade (shapiro) e homoscedascidade (levene) dos residuos

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```
shapiro.test(resid(anova3wtudo))
```

```

    Shapiro-Wilk normality test

data:  resid(anova3wtudo)
W = 0.98029, p-value = 0.2394
```

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```
leveneTest(parquenj3$logitquei, parquenj3$parque)
```

```
Warning: parquenj3$parque coerced to factor.
```

```
Levene's Test for Homogeneity of Variance (center = median)
      Df F value Pr(>F)
group  2  0.1911 0.8264
      79
```

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```
leveneTest(parquenj3$logitquei, parquenj3$tipo)
```

```
Warning: parquenj3$tipo coerced to factor.
```

```
Levene's Test for Homogeneity of Variance (center = median)
      Df F value Pr(>F)
group  2  1.4405  0.243
      79
```

Verificar se ha efeitos significativos interno vs externo

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```
anova2wlocal<-aov(logitquei ~ parque+local+parque:local, parquenj3)
summary(anova2wlocal)
```

```
             Df Sum Sq Mean Sq F value Pr(>F)
parque        2   9.65   4.825   2.467 0.0916 .
local         1   4.31   4.310   2.203 0.1418
parque:local  2   7.70   3.852   1.970 0.1466
Residuals    76 148.64   1.956
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```

When you save the notebook, an HTML file containing the code and output will be saved alongside it (click the *Preview* button or press *Ctrl+Shift+K* to preview the HTML file).

The preview shows you a rendered HTML copy of the contents of the editor. Consequently, unlike *Knit*, *Preview* does not run any R code chunks. Instead, the output of the chunk when it was last run in the editor is displayed.