Relatório sobre os PRs

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Overview dos dados

PRs

Total de PRs

```
data %>% count()
```

```
##      n
## 1 1913
```

Quantidade de PRs por repositório

```
data %>%
    group_by(repo) %>%
    count()
```

```
## # A tibble: 3 x 2
## # Groups:   repo [3]
##   repo               n
##   <chr>          <int>
## 1 accumulo        1554
## 2 commons-io       194
## 3 maven-surefire   165
```

Commits

Total de commits

```
sum(data$qnt_commits)
```

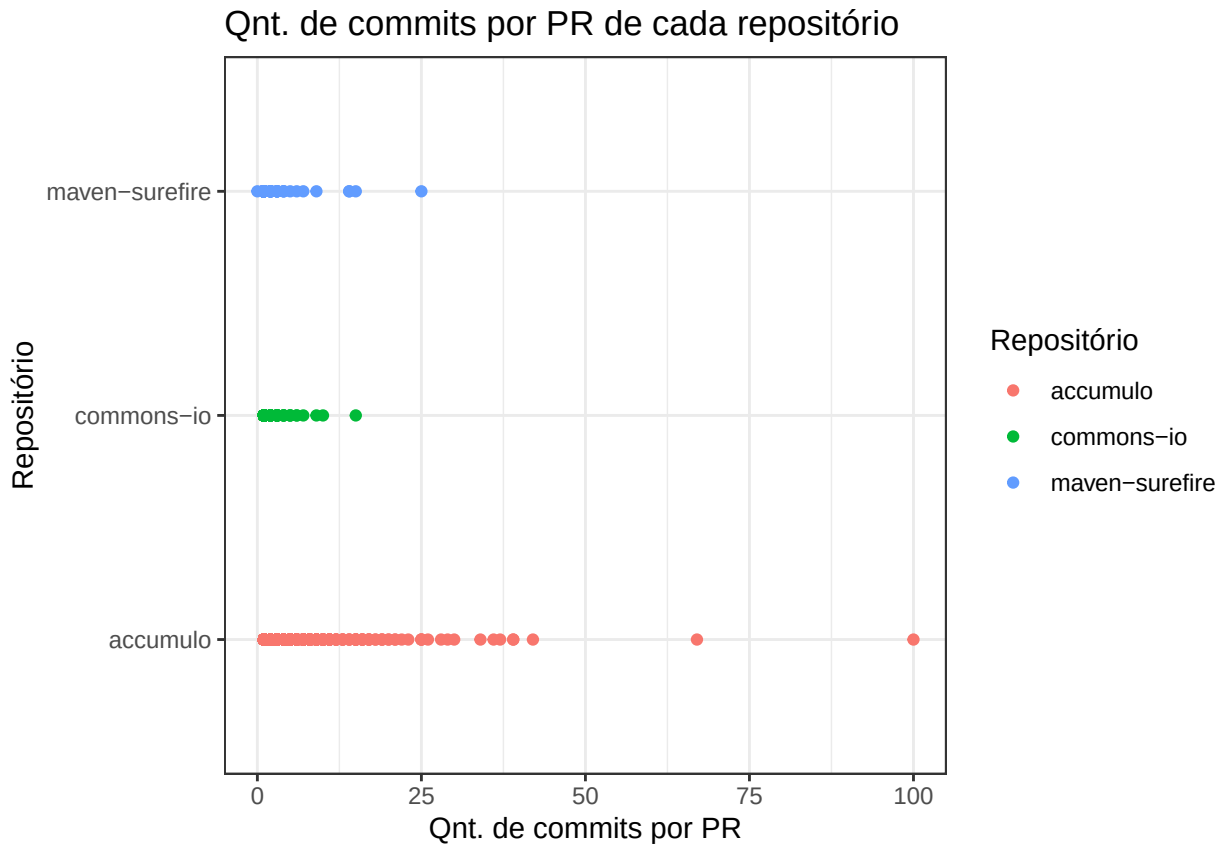
```
## [1] 5474
```

Total de commits por repo

```
data %>%
    group_by(repo) %>%
    summarize(total_commits = sum(qnt_commits))
```

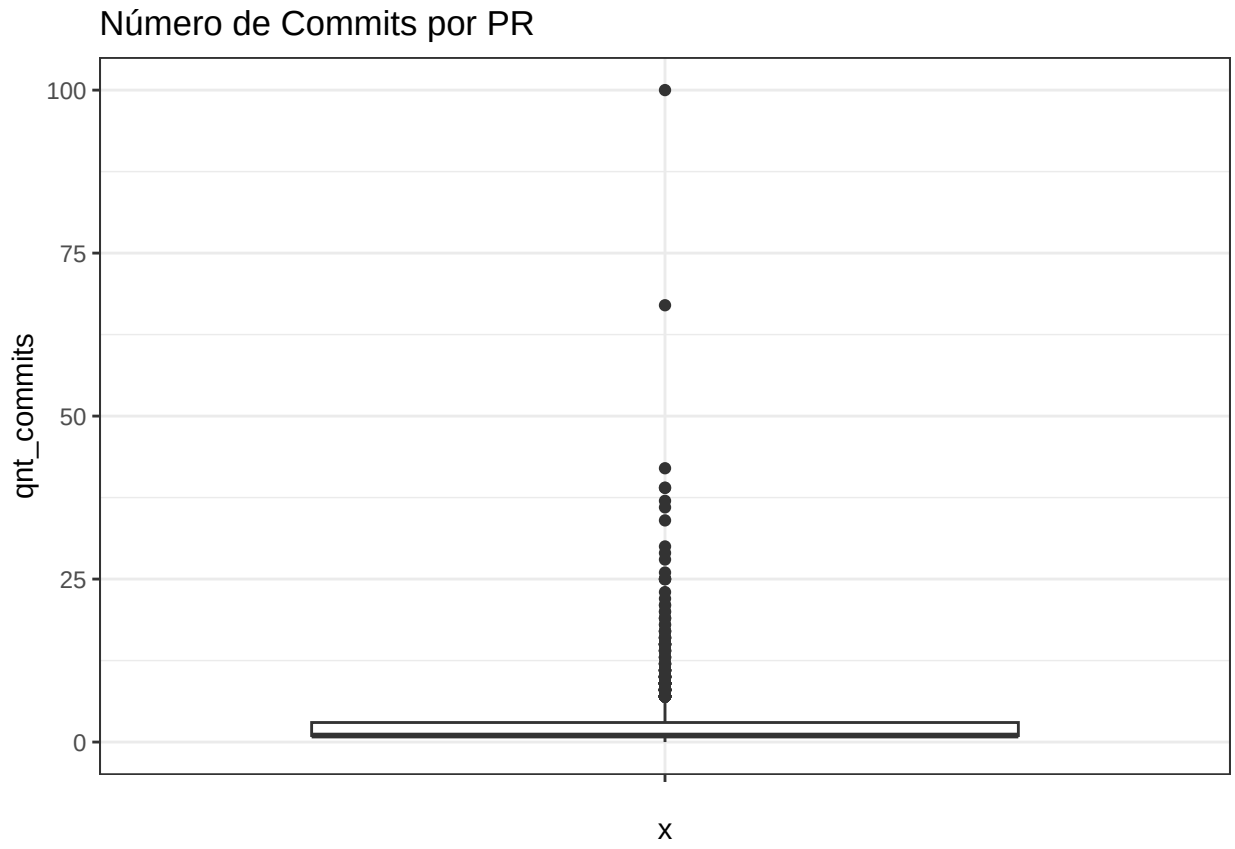
```
## # A tibble: 3 x 2
##   repo           total_commits
##   <chr>                  <int>
## 1 accumulo                4891
## 2 commons-io               300
## 3 maven-surefire           283
```

```
data %>%
    group_by(repo) %>%
    ggplot(aes(x=qnt_commits, y=repo)) +
    geom_point(aes(color = repo)) +
    labs(title ="Qnt. de commits por PR de cada repositório",
         color = "Repositório"
    ) +
    xlab("Qnt. de commits por PR") +
    ylab("Repositório")
```



Boxplot quantidade de commits por PR

```
ggplot(data, aes(x = "", y = qnt_commits)) +
  geom_boxplot() +
  labs(title = "Número de Commits por PR")
```



Sumário commits por PR

```
summary(data$qnt_commits)
```

```
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   0.000   1.000   1.000   2.861   3.000 100.000
```

Frequência da quantidade de commits distintas por PR em ordem decrescente

```
# Calcular a porcentagem da frequência do número de commits distintos por PR e mostrar em ordem decresc
data %>%
  count(qnt_commits) %>%
  mutate(porcentagem = prop.table(n) * 100) %>%
  arrange(desc(porcentagem))
```

```
##    qnt_commits    n porcentagem
## 1            1 1024 53.52848928
## 2            2  320 16.72765290
## 3            3  179  9.35703084
## 4            4  116  6.06377418
## 5            5   59  3.08416100
## 6            6   39  2.03868270
## 7            7   34  1.77731312
## 8            9   30  1.56821746
## 9            8   25  1.30684788
## 10          10   17  0.88865656
## 11          11   10  0.52273915
## 12          15    9  0.47046524
## 13          12    5  0.26136958
## 14          14    5  0.26136958
## 15          16    5  0.26136958
## 16          13    4  0.20909566
## 17          17    4  0.20909566
## 18          25    4  0.20909566
## 19          19    3  0.15682175
## 20          18    2  0.10454783
## 21          20    2  0.10454783
## 22          21    2  0.10454783
## 23          39    2  0.10454783
## 24           0    1  0.05227392
## 25          22    1  0.05227392
## 26          23    1  0.05227392
## 27          26    1  0.05227392
## 28          28    1  0.05227392
## 29          29    1  0.05227392
## 30          30    1  0.05227392
## 31          34    1  0.05227392
## 32          36    1  0.05227392
## 33          37    1  0.05227392
## 34          42    1  0.05227392
## 35          67    1  0.05227392
## 36         100    1  0.05227392
```