Average Salary by Department

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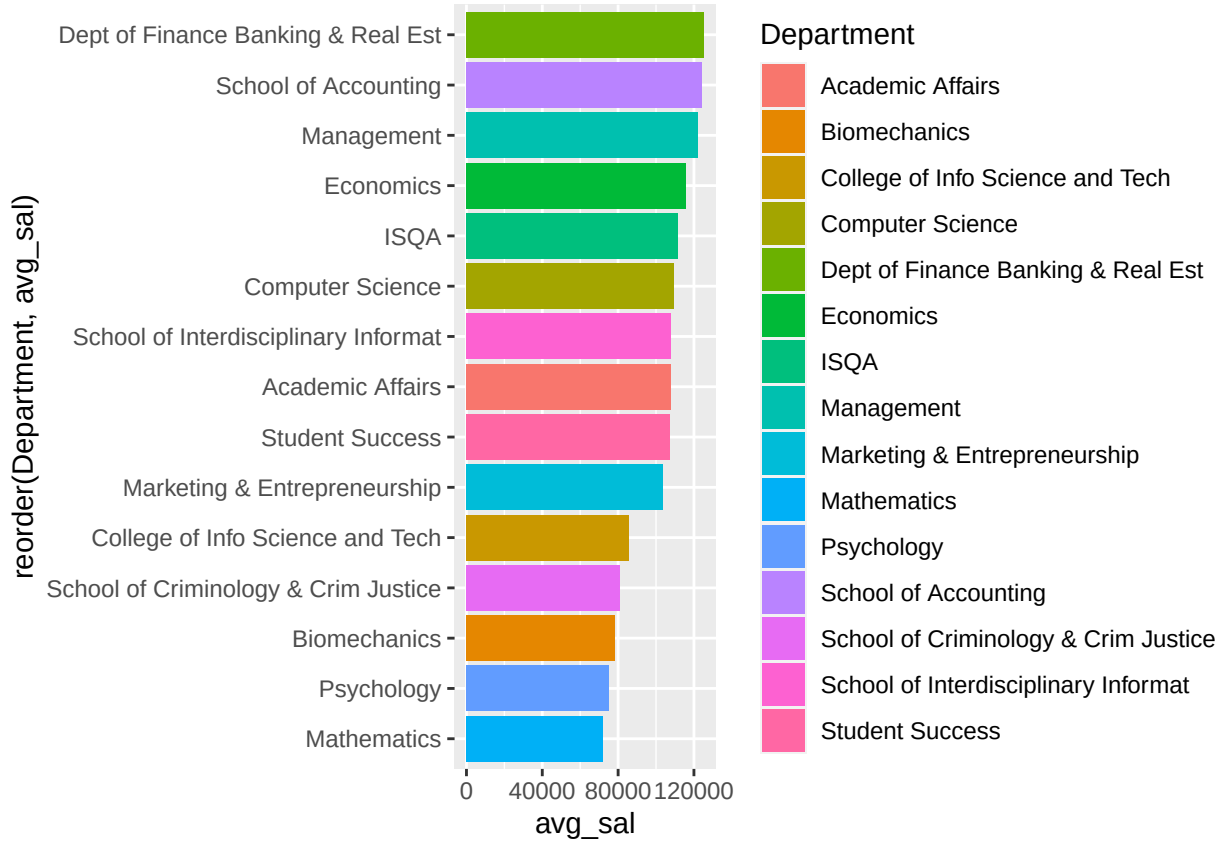
```
#My lovely scripts!
unoSalaryByDept <- unoSalary[,c(1:5)]
count_empl <- unoSalaryByDept %>% count(Department)
unoSalaryByDept <- unoSalaryByDept %>% group_by(Employee) %>% summarise(Budgeted..Annual.Salary = sum(Bu
```

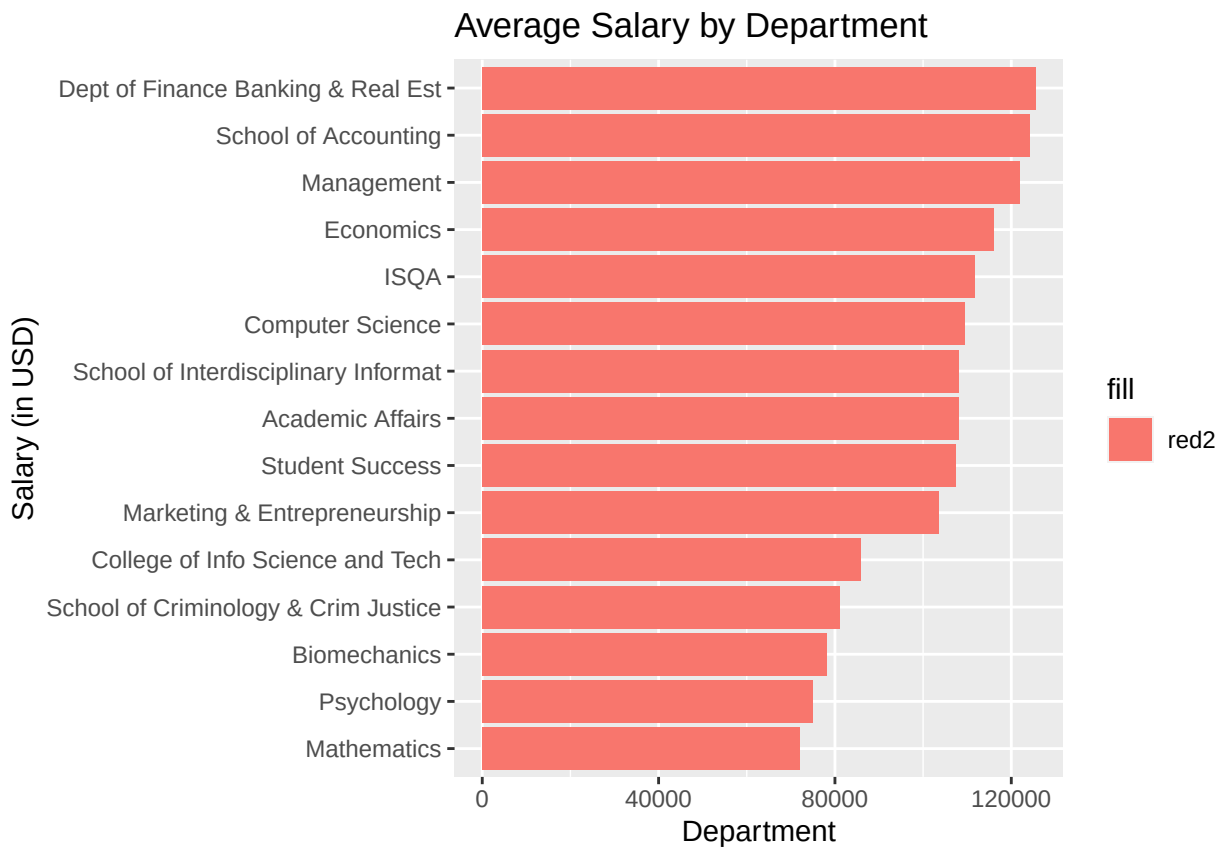
```
## `summarise()` has grouped output by 'Employee'. You can override using the `.groups` argument.
```

```
unoSalaryByDeptWithAvg <-unoSalaryByDept %>%
  group_by(Department) %>%
  summarise_at(vars(Budgeted..Annual.Salary), list(avg_sal = mean))
unoSalaryByDeptWithAvg$EmployeeCount <- count_empl[,2]

UNOdepartmentData <- unoSalaryByDeptWithAvg[order(unoSalaryByDeptWithAvg$avg_sal, decreasing = T),]

UNOdepartmentData <- UNOdepartmentData[which(UNOdepartmentData$EmployeeCount>=15),]

top10_avgsal <- top_n(UNOdepartmentData, 15, UNOdepartmentData$avg_sal)

beans <- within(top10_avgsal,
                  avg_sal <- factor(avg_sal,
                                    levels=names(sort(table(avg_sal),
                                                      decreasing=TRUE))))
```

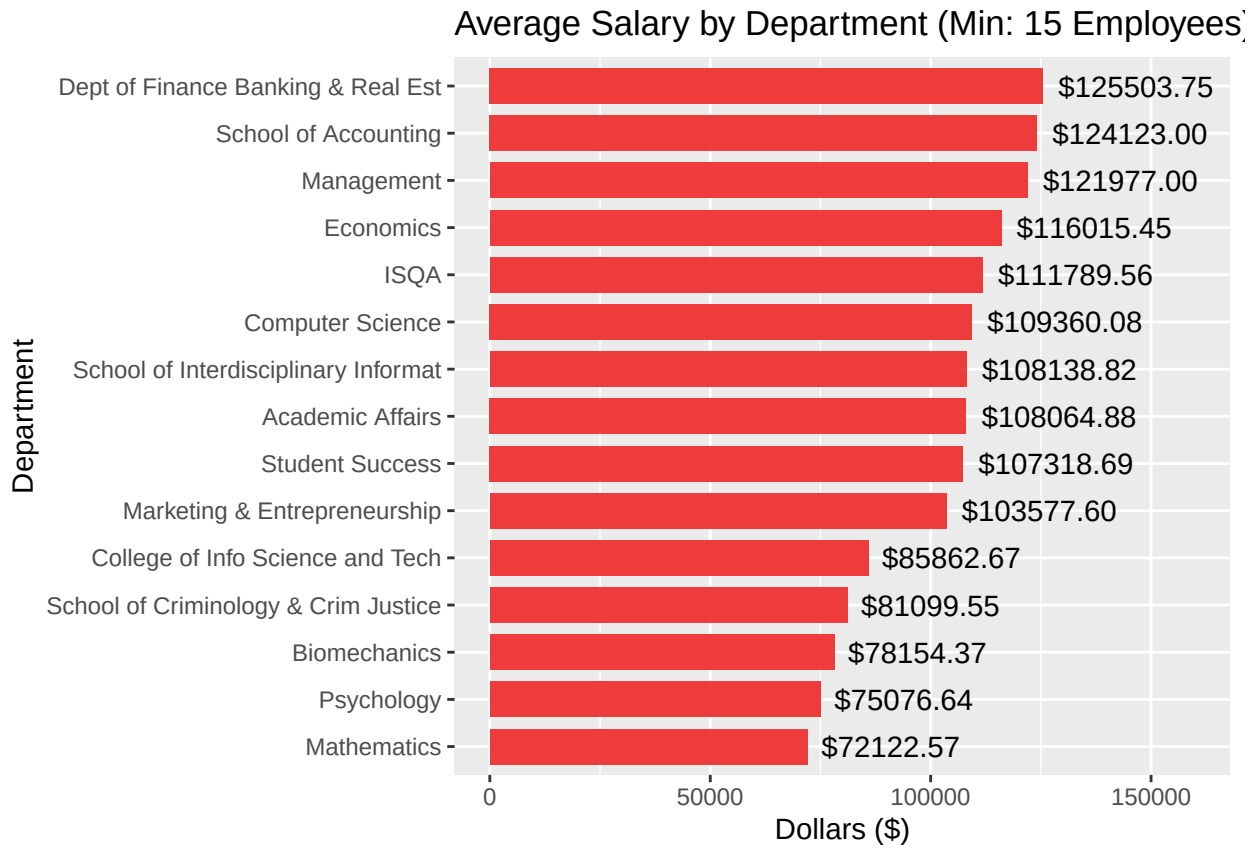
```
plot <- (ggplot(top10_avgsal, aes(x = reorder(Department, avg_sal), y = avg_sal, fill = Department)) + g
plot
```




```
plot <- (ggplot(top10_avgsal, aes(x = reorder(Department, avg_sal), y = avg_sal, fill = "red2")) + geom_

plot1 <- (ggplot(top10_avgsal, aes(x = reorder(Department, avg_sal), y = avg_sal)) + geom_bar(stat = "id

plot
```


Average Salary by Department
Dept of Finance Banking & Real Est
School of Accounting
Management
Economics
ISQA
Computer Science
School of Interdisciplinary Informat
Academic Affairs
Student Success
Marketing & Entrepreneurship
College of Info Science and Tech
School of Criminology & Crim Justice
Biomechanics
Psychology
Mathematics
Salary (in USD)
0
40000
80000
120000
Department
fill
red2

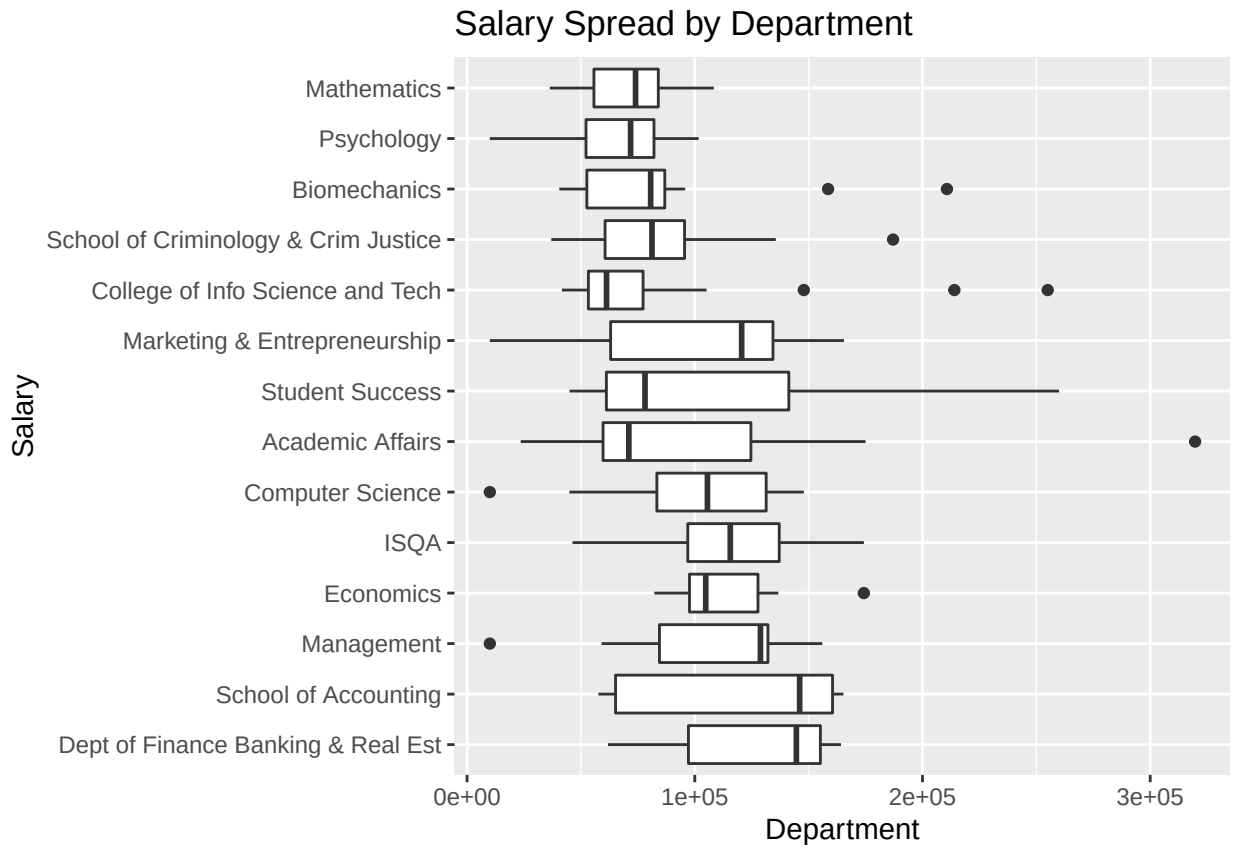
```
plot1
```



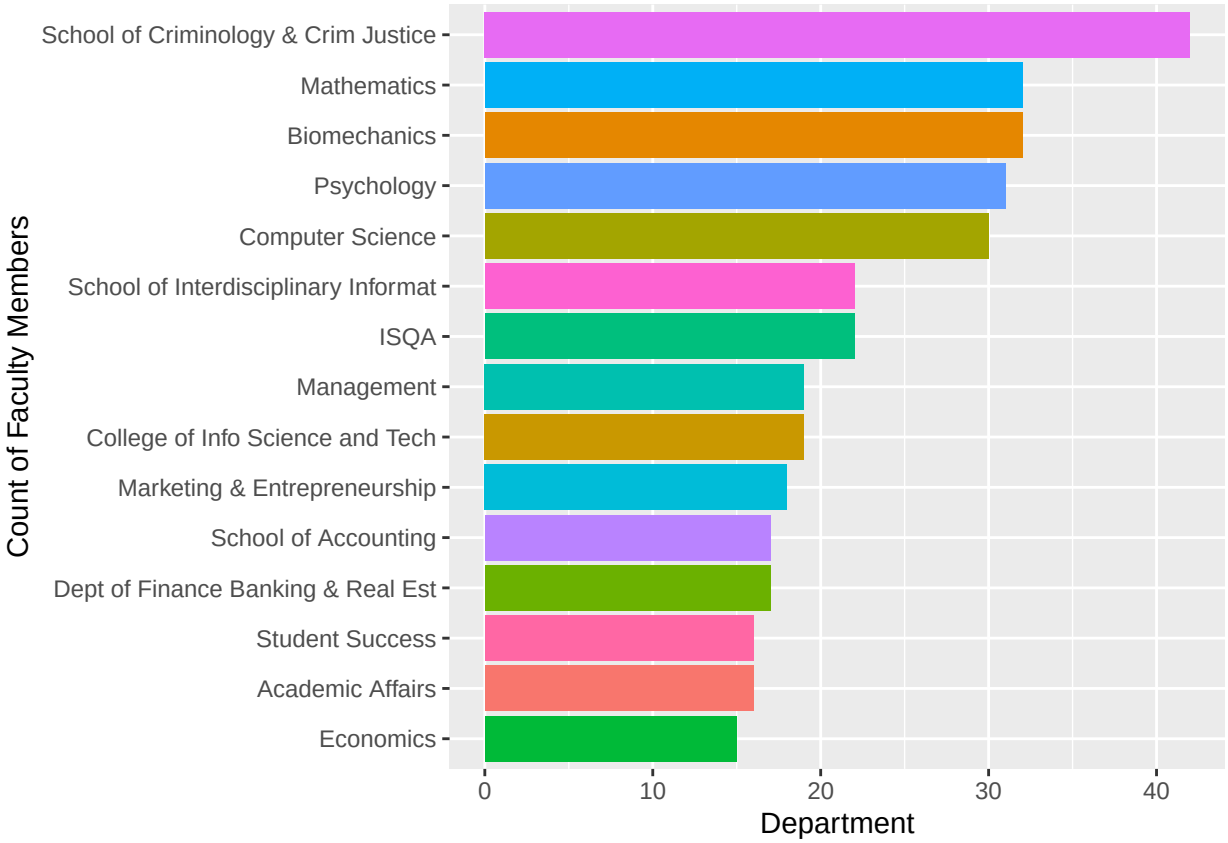

```
trimmedUNOData <- unoSalary[,c(1:5)]

boxSalaries = trimmedUNOData[which((unoSalary$Department == "Economics")|(unoSalary$Department == "Mathe
```

```
## `summarise()` has grouped output by 'Employee'. You can override using the `.groups` argument.
```

```
# Boxplots of mpg by number of gears
# observations (points) are overlayed and jittered


boxSalaries %>%
  ggplot(aes(y = Budgeted..Annual.Salary, x = factor(Department, levels=c("Dept of Finance Banking & Rea
  geom_boxplot() +
  labs(title = "Salary Spread by Department", x = "Salary", y = "Department") + coord_flip()
```




```
(ggplot(top10_avgsal, aes(x = reorder(Department, EmployeeCount), y = EmployeeCount, fill = Department)
```


School of Criminology & Crim Justice
Mathematics
Biomechanics
Psychology
Computer Science
School of Interdisciplinary Informat
ISQA
Management
College of Info Science and Tech
Marketing & Entrepreneurship
School of Accounting
Dept of Finance Banking & Real Est
Student Success
Academic Affairs
Economics
Count of Faculty Members
0
10
20
30
40
Department