

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(B
```

```
## '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)
```

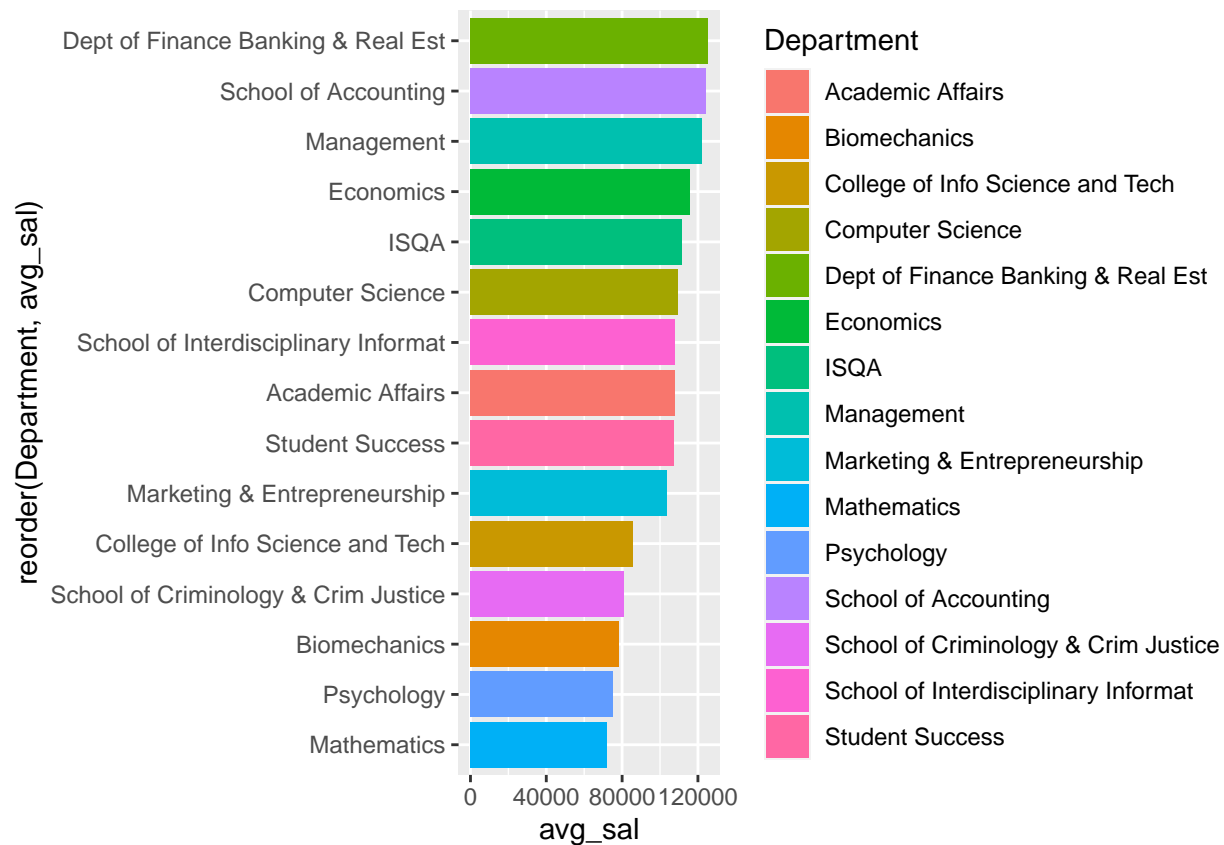
```
beans <- within(top10_avgsal,
```

```
  avg_sal <- factor(avg_sal,
```

```
    levels=names(sort(table(avg_sal),
```

```
      decreasing=TRUE))))
```

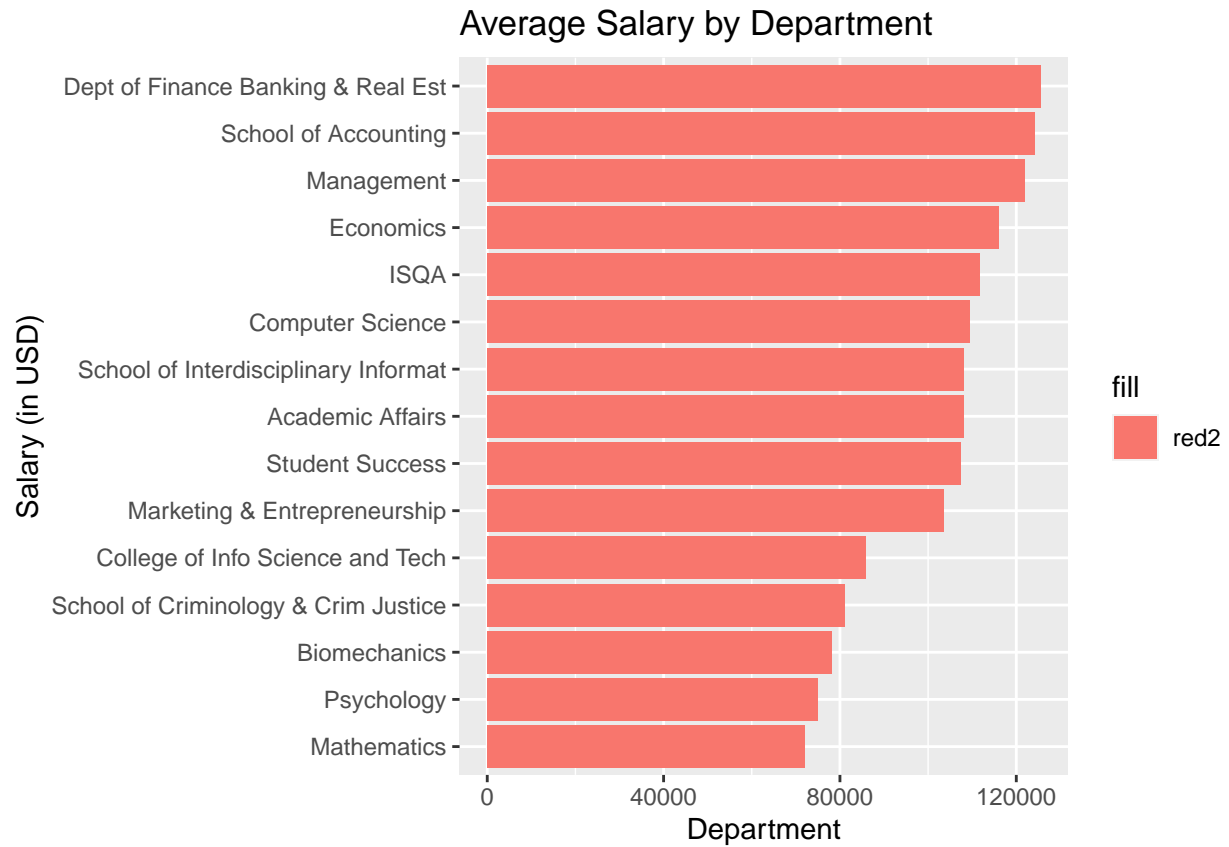
```
plot <- (ggplot(top10_avgsal, aes(x = reorder(Department, avg_sal), y = avg_sal, fill = Department)) +  
plot
```



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

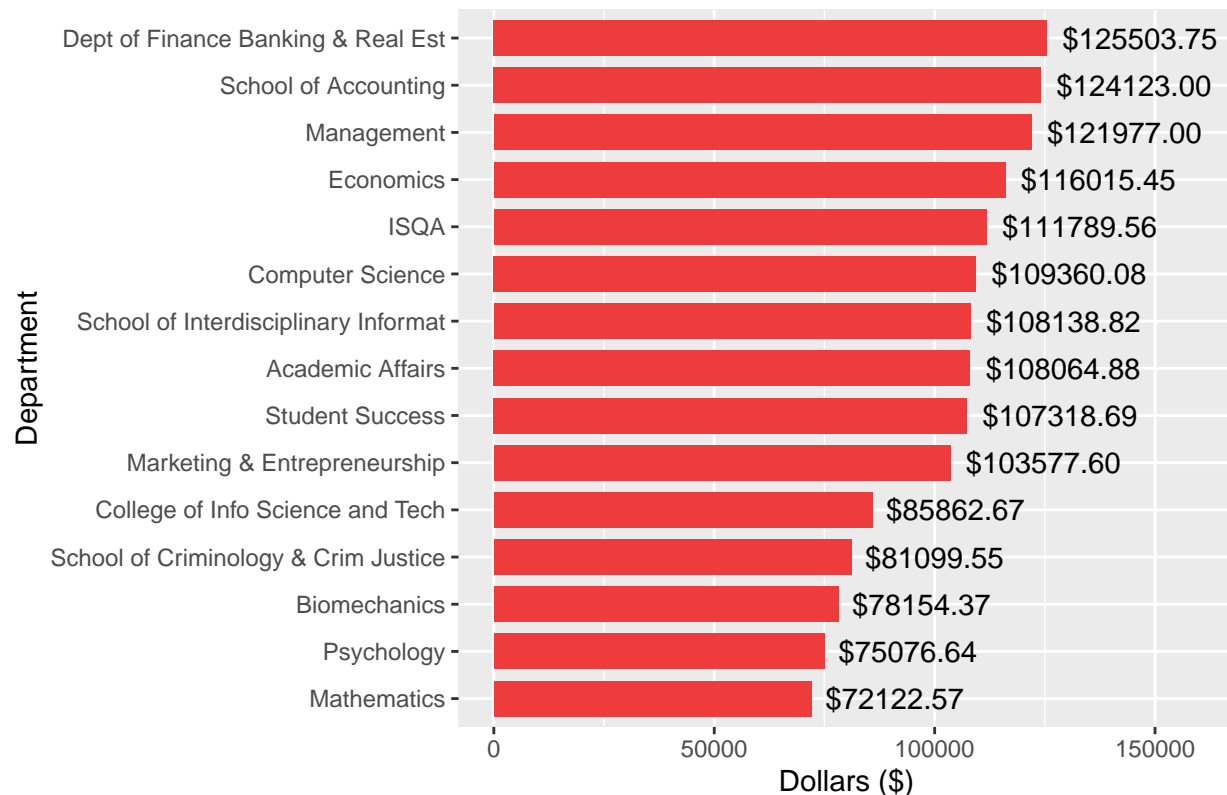
```
plot1 <- (ggplot(top10_avgsal, aes(x = reorder(Department, avg_sal), y = avg_sal)) + geom_bar(stat = "identity"))
```

```
plot
```



plot1

Average Salary by Department (Min: 15 Employees)



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

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

'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 & Real Est", "School of Accounting", "Management", "Economics", "ISQA", "Computer Science", "School of Interdisciplinary Informatics", "Academic Affairs", "Student Success", "Marketing & Entrepreneurship", "College of Info Science and Tech", "School of Criminology & Crim Justice", "Biomechanics", "Psychology", "Mathematics")))) +
```

```
  geom_boxplot() +
```

```
  labs(title = "Salary Spread by Department", x = "Salary", y = "Department") + coord_flip()
```

