NBA Dataset Project #1

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Abstract

test

Initiate Needed Packages

```
library(ggplot2)
library(reshape2)
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
##
## The following object is masked from 'package:stats':
##
##     filter
##
## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
library(scales)
library(gridExtra)
```

```
## Loading required package: grid
```
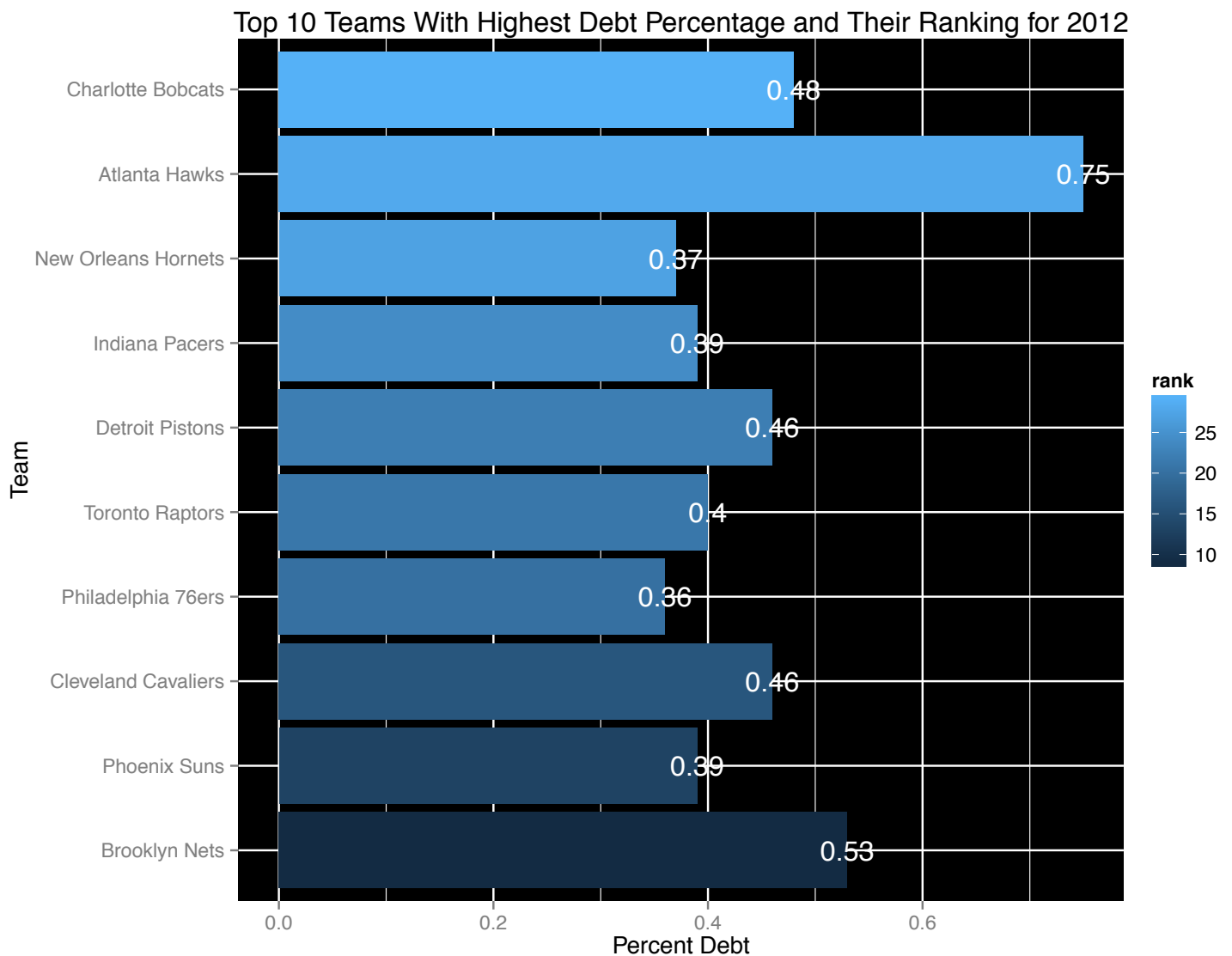
```
library(grid)
```

Debt Percentage and Rank

Which franchises held the highest debt percentage in 2012 and in light of their debt, how did these franchises rank in comparison?

```
nbafran=read.csv("nba_franchise_values_1991_2012.csv")
```

```
debt_rank2012= nbafran %>%
    select(team, year, debt_percent, rank) %>%
    filter(year== "2012") %>%
    arrange(desc(debt_percent)) %>%
    head(10)
```

```
ggplot(debt_rank2012, aes(x=reorder(team,rank), y=debt_percent, fill=rank, label=debt_percent)) +geom_bar(sta
```
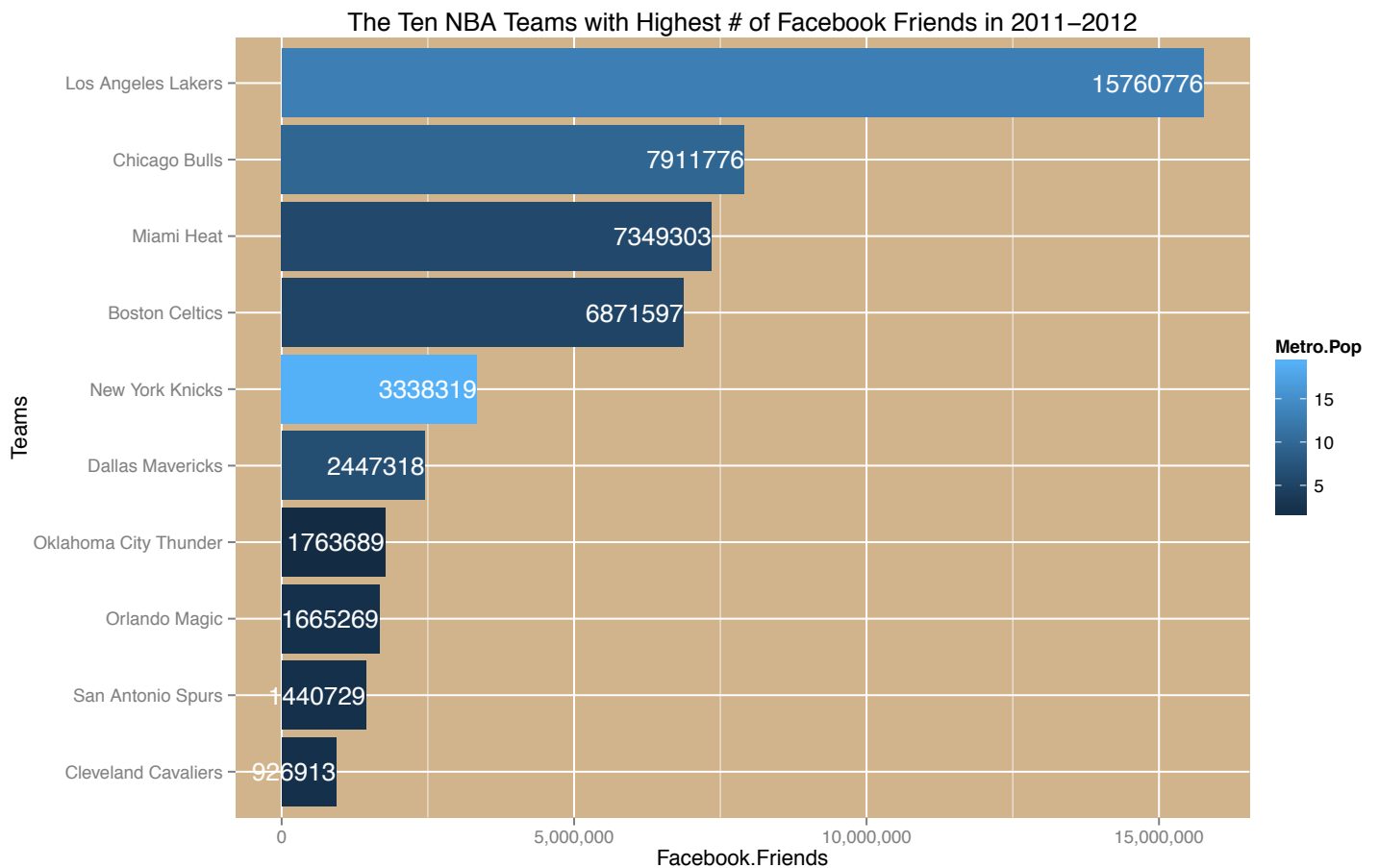
Facebook Friends and Metro Population

How many Facebook friends did each NBA team have at the close of the 2011-2012 season, and were these numbers at all effected by the metro population of the area?

```
forbsdf= read.csv("Forbes NBA Financials 03-12.csv")

popularteams= forbsdf %>%
 select(Team, Metro.Pop, Facebook.Friends, Twitter.Followers) %>%
     arrange(desc(Facebook.Friends)) %>%
     head(10)

ggplot(popularteams, aes(reorder(x=Team,Facebook.Friends), y= Facebook.Friends, fill=Metro.Pop,
                         label=Facebook.Friends)) +geom_bar(stat="identity") + xlab("Teams") +ggtitle("The Te
```
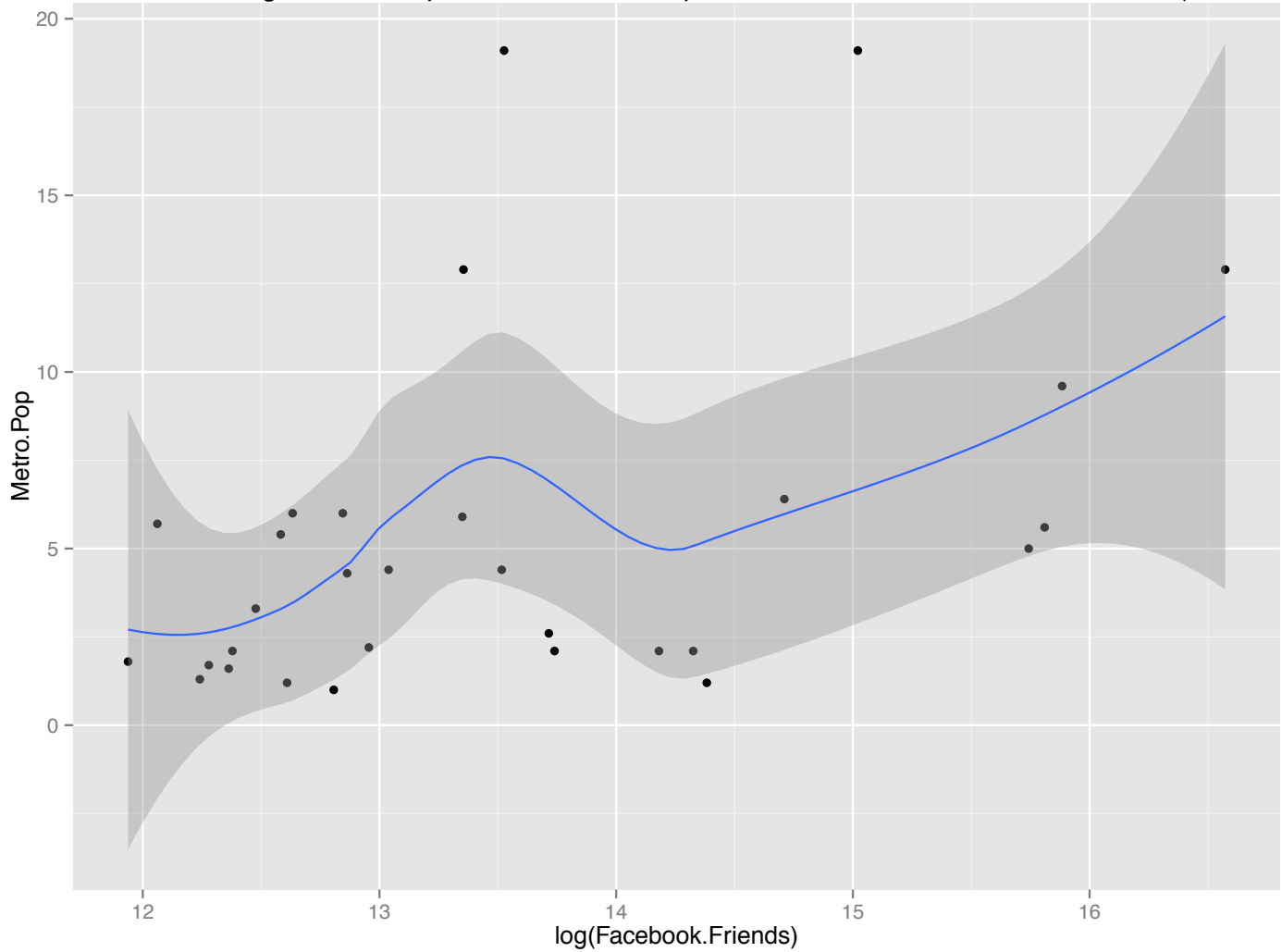
Scatter Plot

```
ggplot(forbsdf, aes(x=log(Facebook.Friends), y=Metro.Pop)) + geom_point() + scale_x_continuous(labels= comma)
```

```
## geom_smooth: method="auto" and size of largest group is <1000, so using loess. Use 'method = x' to change
```

Scatter Plot Showing Relationship Between Metro Population and FB Friends for ALL Teams(2011–201

Ticket Revenue for Arena's at Full Capacity

```
forbsdf$fullCapTixRev= (forbsdf$Capacity * forbsdf$Avg.Tix.Price)
```

```
ggplot(forbsdf, aes(x=Team, y=fullCapTixRev, fill=Playoff.Contender, label=fullCapTixRev)) + geom_bar(stat="i
```

Average Ticket Revenue Per Full–Capacity Game for Each Stadium: 2011–2012 Season