Game Of Thrones

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```
suppressPackageStartupMessages(library("jsonlite"))
suppressPackageStartupMessages(library("tidyverse"))
library(jsonlite)
library(tidyverse)
library(ggplot2)
url <- from JSON ("https://raw.githubusercontent.com/jeffreylancaster/game-of-thrones/master/data/charact
url <- as.data.frame(url)</pre>
url <- as.tibble(url)</pre>
## Warning: 'as.tibble()' was deprecated in tibble 2.0.0.
## i Please use 'as_tibble()' instead.
## i The signature and semantics have changed, see '?as_tibble'.
url <- url %>%
 rename(c(characterName = characters.characterName, houseName = characters.houseName, royal = characte
characters <- url %>%
 dplyr::select(-c("characters.characterLink", "characters.actorName", "characters.actorLink", "charact
characters %>%
 head(n=5)
## # A tibble: 5 x 10
    charact~1 house~2 royal parents sibli~3 kille~4 nickn~5 killed paren~6 marri~7
             ## 1 Addam Ma~ <NULL> NA
                           <NULL> <NULL> <NULL> <NA>
                                                         <NULL> <NULL> <NULL>
## 2 Aegon Ta~ <chr> TRUE <chr>
                                  <chr>
                                          <chr> <NA>
                                                         <NULL> <NULL>
## 3 Aeron Gr~ <chr> NA
                           <NULL> <chr>
                                          <NULL> Dampha~ <NULL> <NULL>
                                                                       <NULL>
## 4 Aerys II~ <chr> TRUE <NULL> <chr>
                                                  The Ma~ <chr> <chr>
                                          <chr>
                                                                        <chr>
## 5 Akho
              <NULL> NA
                           <NULL> <NULL> <chr>
                                                  <NA>
                                                         <NULL> <NULL> <NULL>
## # ... with abbreviated variable names 1: characterName, 2: houseName,
## # 3: siblings, 4: killedBy, 5: nickname, 6: parentOf, 7: marriedEngaged
```

#Filtering the dataset to only characters who have killed at least one other character

```
hasKilled <- characters %>% drop_na(killed)
```

head(hasKilled)

```
## # A tibble: 6 x 10
##
     charact~1 house~2 royal parents sibli~3 kille~4 nickn~5 killed paren~6 marri~7
              <list> <lgl> <list>
                                    <list> <list>
                                                   <chr>
                                                             t> <list>
                                                                            t>
## 1 Aerys II~ <chr>
                      TRUE <NULL>
                                     <chr>
                                             <chr>
                                                    The Ma~ <chr> <chr>
                                                                            <chr>>
## 2 Alliser ~ <NULL>
                                     <NULL>
                      NA
                             <NULL>
                                            <chr>>
                                                     <NA>
                                                             <chr>
                                                                   <NULL>
                                                                            <NULL>
## 3 Amory Lo~ <NULL> NA
                                     <NULL>
                                                                   <NULL>
                             <NULL>
                                             <chr>
                                                     < NA >
                                                             <chr>
                                                                            <NULL>
## 4 Arya Sta~ <chr>
                                             <NULL>
                                                    <NA>
                                                                   <NULL>
                      NA
                             <chr>
                                     <chr>
                                                             <chr>
                                                                            <NULL>
## 5 Black Wa~ <chr>
                      NA
                             <chr>
                                     <NULL>
                                            <chr>
                                                     < NA >
                                                             <chr> <NULL>
                                                                            <NULL>
                             <NULL> <NULL> <chr>
## 6 Bowen Ma~ <NULL> NA
                                                     < NA >
                                                             <chr> <NULL>
                                                                            <NULL>
## # ... with abbreviated variable names 1: characterName, 2: houseName,
## # 3: siblings, 4: killedBy, 5: nickname, 6: parentOf, 7: marriedEngaged
```

There are 80 characters who have killed at least 1 person.

nrow(hasKilled)

[1] 80

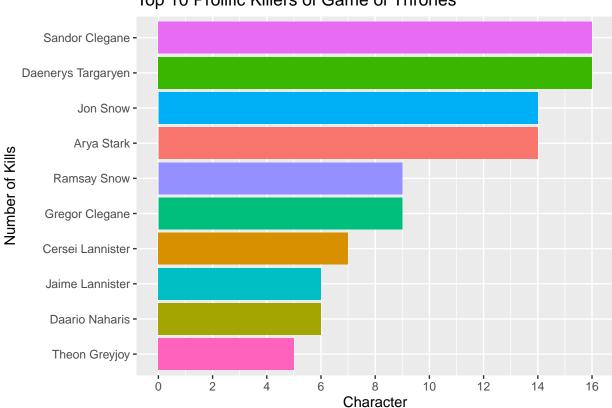
The most prolific killers are Daenerys Targaryen & Sandor Clegane both with 16, followed by Arya Stark & Jon Snow with 14 kills, Gregor Clegane with 9 kills, etc.

```
characters <- hasKilled %>%
  unnest(killed) %>%
  dplyr::select(characterName, killed) %>%
  group_by(characterName) %>%
  summarize(numkills = n(), killed = paste(killed, collapse = ", ")) %>%
  arrange(desc(numkills))
```

```
## # A tibble: 80 x 3
##
      characterName
                         numkills killed
##
      <chr>
                            <int> <chr>
                               16 Khal Drogo, Mirri Maz Duur, Doreah, Xaro Xhoan D~
##
  1 Daenerys Targaryen
## 2 Sandor Clegane
                               16 Mycah, Kings Landing Rioter #1, Kings Landing Ri~
## 3 Arya Stark
                               14 Red Keep Stableboy, Frey Soldier #1, Polliver, R~
## 4 Jon Snow
                               14 Othor, Qhorin Halfhand, Orell, Karl Tanner, Styr~
## 5 Gregor Clegane
                                9 Elia Martell, Rhaenys Targaryen, Aegon Targaryen~
                                9 Master Torturer, Medger Cerwyn, Lady Cerwyn, Uni~
## 6 Ramsay Snow
## 7 Cersei Lannister
                                7 Lancel Lannister, High Sparrow, Loras Tyrell, Ma~
## 8 Daario Naharis
                                6 Mero, Prendahl na Ghezn, Oznak zo Pahl, Mossador~
## 9 Jaime Lannister
                                6 Aerys II Targaryen, Jory Cassel, Alton Lannister~
## 10 Theon Greyjoy
                                5 Stiv, Rodrik Cassel, Myranda, Bolton Soldier, Ha~
## # ... with 70 more rows
```

```
characters %>%
  head(10) %>%
  ggplot(aes(x = numkills, y = reorder(characterName, numkills), fill = characterName)) +
  geom_bar(stat = "identity") +
  labs(title = "Top 10 Prolific Killers of Game of Thrones", x = "Character", y = "Number of Kills") +
  scale_x_continuous(breaks = seq(0, max(characters$numkills), by = 2)) +
  guides(fill = F)
```

Warning: The '<scale>' argument of 'guides()' cannot be 'FALSE'. Use "none" instead as
of ggplot2 3.3.4.



Top 10 Prolific Killers of Game of Thrones