

## Links

<https://www.basketball-reference.com/>

[Introducing RAPTOR, Our New Metric For The Modern NBA | FiveThirtyEight](#)  
[nba-player-advanced-metrics/nba-data-historical.csv at master · fivethirtyeight/nba-player-advanced-metrics · GitHub](#)

## Script

```
install.packages("wesanderson")
install.packages("plyr")
install.packages("tidyverse")
install.packages("rvest")
install.packages("ggrepel")
install.packages("readr")
install.packages("RCurl")
install.packages("jpeg")
library(plyr)
library(tidyverse)
library(rvest)
library(ggrepel)
library(readr)
library(RCurl)
library(jpeg)
Player <- "James Harden"
slug <- "hardeja01"
url <-
paste0("https://www.basketball-reference.com/players/", substr(slug, 1, 1), "/", slug, ".html")
image_url <-
paste0("https://www.basketball-reference.com/req/202106291/images/players/", slug, ".jpg")
ttl_stat <- url %>%
+   read_html %>%
+   html_node("#totals") %>%
+   html_table()
adv_stat <- url %>%
+   read_html %>%
+   html_node("#advanced") %>%
+   html_table()
total_stats <- merge(ttl_stat, adv_stat, by=c("Season", "Age", "Tm", "Lg", "Pos", "G", "MP"))
RAPTOR_hist <-
read.csv("https://github.com/fivethirtyeight/data/raw/master/nba-raptor/historical_RAPTOR_by_player.csv?raw=true")
RAPTOR_mod <-
read.csv("https://github.com/fivethirtyeight/data/raw/master/nba-raptor/modern_RAPTOR_by_player.csv")
```

```

RAPTOR <- rbind.fill(RAPTOR_hist, RAPTOR_mod)
RAPTOR <- unique(RAPTOR)
total_stats$player_name <- Player
df_stats <- df %>% gather(Stat_cat, Stat_val, 3:ncol(df))
df_stats <- dplyr::filter(df_stats, grepl('-', Season))
df_stats <- dplyr::filter(df_stats, !grepl('TOT', Team))
df_stats <- unique(df_stats)
df_stats <-
merge(df_stats, data.frame("Season"=total_stats$Season, "GP"=total_stats$G),
by="Season")
view(df_stats)
colnames(all_stats)
all_stats2 <- all_stats[,c(1,2,60,61,62)]
view(all_stats2)
p <- df_stats %>%
+   ggplot(aes(x = paste0(Season, " ", Team, "\n ", GP, " GP"),
+     y = Stat_val,
+     label=Stat_cat)) +
+   # Add points
+   geom_point(aes(fill = Stat_cat),
+     size = 2,
+     color = 'black',
+     shape = 21)
p
p <- p + geom_line(aes(group = Stat_cat), size=0.05)
p <- p + geom_text_repel(data = filter(df_stats, Season == last(Season)),
+   aes(label = Stat_cat),
+   size = 2.5,
+   box.padding = 0.2,
+   point.padding = 0.2,
+   force = 50,
+   segment.size = 0.2,
+   colour = "darkblue",
+   segment.color = "grey50")
p <- p + labs(title = paste0(player, " Career Stats"),
+   subtitle = paste0(min(df_stats$Season), " to
", max(df_stats$Season)),
+   x = "",
+   y = "",
+   caption = c("@Sweep_SportsAnalytics\nSweepSportsAnalytics.com",
"Source:\nbasketball-reference.com"))
p <- p + labs(title = paste0(Player, " Career Stats"),
+   subtitle = paste0(min(df_stats$Season), " to
", max(df_stats$Season)),
+   x = "",
+   y = "",

```

```

+           caption = c("@Sweep_SportsAnalytics\nSweepSportsAnalytics.com",
"Source:\nbasketball-reference.com"))
# Add theme that removes the legend, modifies title, subtitle, captions, and
x-axis
p <- p + theme(legend.position = 'none',
+           plot.title = element_text(size = 17, face="bold", hjust = .5),
+           plot.subtitle = element_text(face = 'italic', size = 13, hjust
= .5),
+           axis.text.x=element_text(angle=60, hjust=1, size=10),
+           plot.caption = element_text(color = 'gray40'),
+           plot.margin = margin(10, 10, 15, 10))
p

```