webscraping with rvest & purrr

@maxhumber
useR!2017
2017-07-06

web scraping with rvest & purrrr
how to make money* with rvest & purrr**
how to make money* with rvest & purrr**
*probably not. and i’m not liable if you lose money. disclaimer. disclaimer. disclaimer.
*probably not. and i'm not liable if you lose money. disclaimer. disclaimer. disclaimer.
whoami
https://github.com/hadley/rvest

https://github.com/tidyverse/purrr
fake money
**Latest Tweets**

- International trailer for *Borg/McEnroe*
- Claudia Kim joins *Fantastic Beasts 2*
- Weekend Box Score: *Despicable Me 3* rules over...
- Joseph Kosinski to direct *Top Gun: Maverick*...

**Opening This Week**

- **Spider-Man: Homecoming**
  - Genre: Action / Adventure
  - Rated: PG-13
  - H$266.48  **-0.17**
  - More »

- **A Ghost Story**
  - Genre: Drama
  - Rated: R
  - H$6.52  **0.03**
  - More »

**Spin Factor® Blog**

- **Box Score: Despicable Me 3 rules the weekend**
  - Despite falling short of expectations, *Despicable Me 3*...
  - More »
  - 10:11 AM, Sunday Jul 02

- **Whisper Numbers: Despicable Me 3 readies fireworks**
  - One of the biggest animated franchise returns to theaters...
  - More »
  - 03:35 PM, Thursday Jun 29

**Hot Properties**

- **Minions 2**
  - Genre: Animated
  - Rated: n/a
  - H$162.15  **-3.98**

- **Despicable Me 3**
  - Genre: Animated
  - Rated: PG
  - H$224.54  **2.87**

- **She's Living My Life**
  - Genre: Drama
  - Rated: n/a
**Star Wars: The Last Jedi aka Episode VIII**

**Symbol:** STAR8  
**Status:** Active  
**IPO Date:** Dec 13, 2014  
**Genre:** Fantasy  
**MPAA Rating:** n/a  
**Phase:** Wrap  
**Release Date:** Dec 15, 2017  
**Release Pattern:** wide  
**Gross:** n/a  
**Theaters:** n/a

**DESCRIPTION**
The sequel to *The Force Awakens*, *Star Wars: Episode VIII* will be directed by Rian Johnson. Daisy Ridley and John Boyega lead the returning cast.

---

**CREDITS**
- **Distributor:**  
- **Walt Disney**  
- **Director:** Rian Johnson (RJOHN)  
- **Cast:**  
- **Adam Driver (ADRIY)**  
- **Andy Serkis (ASERIK)**

---

**RELATED POSTS**
- **Antibody – April 14, 2017**  
  First trailer for Star Wars:...  
  Read »

- **Forum Discussions**
- **Antibody – May 24, 2017**  
  VF cover story [STAR8]  
  Read »

- **Oleg Max – April 14, 2017**  
  Teaser Trailer for Star Wars:...  
  Read »

---

**Star Wars: The Last Jedi aka Epi (STAR8)**

<table>
<thead>
<tr>
<th>CURRENT VALUE</th>
<th>CHANGE TODAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>H$709.32</td>
<td>▼ H$0.32 (0.05%)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Shares Held Long on HSX:</th>
<th>Shares Held Short on HSX:</th>
</tr>
</thead>
<tbody>
<tr>
<td>466,831,976</td>
<td>1,779,855</td>
</tr>
</tbody>
</table>

Trading Volume on HSX (Today): 396,921

You don't currently own any shares of STAR8
moviestock ticker

price (in $m) that market thinks movie will make in first 4 weeks @ B/O

Star Wars: The Last Jedi aka Episode VIII
Symbol: STAR8
Status: Active
IPO Date: Dec 13, 2014
Genre: Fantasy
MPAA Rating: n/a
Phase: Wrap
Release Date: Dec 15, 2017
Release Pattern: wide
Gross: n/a
Theaters: n/a

DESCRIPTION
The sequel to The Force Awakens, Star Wars: Episode VIII will be directed by Rian Johnson. Daisy Ridley and John Boyega lead the returning cast.

CREDITS
Distributor
Walt Disney
Director
Rian Johnson (RJOHN)
Cast
Adam Driver (ADRIV)
Andy Serkis (ASERK)

RELATED POSTS
HSX Blog
Antibody – Apr 14, 2017
First trailer for Star Wars:... Read »
Antibody – May 24, 2017
VF cover story [STAR8] Read »
Oleg Max – Apr 14, 2017
Teaser Trailer for Star Wars:... Read »
DESCRIPTION
Adam Driver began acting in New York and is best known for his role on the HBO series 'Girls'. He has worked with indie filmmakers in Frances Ha, Inside Llewyn Davis and Tracks.

CREDITS
Filmography

<table>
<thead>
<tr>
<th>Date</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 24, 2019</td>
<td>Star Wars: Episode IX</td>
</tr>
<tr>
<td>Dec 15, 2017</td>
<td>Star Wars: The Last Jedi aka Epi</td>
</tr>
<tr>
<td>Aug 18, 2017</td>
<td>Logan Lucky</td>
</tr>
<tr>
<td>Jan 13, 2017</td>
<td>Silence</td>
</tr>
<tr>
<td>Dec 26, 2016</td>
<td>Paterson</td>
</tr>
<tr>
<td>Mar 16, 2016</td>
<td>Midnight Special</td>
</tr>
<tr>
<td>Dec 18, 2015</td>
<td>Star Wars: The Force Awakens</td>
</tr>
<tr>
<td>Apr 17, 2015</td>
<td>While We're Young</td>
</tr>
<tr>
<td>Sep 19, 2014</td>
<td>This Is Where I Leave You</td>
</tr>
</tbody>
</table>
Adam Driver

Symbol: ADRIV
Status: Active
IPO Date: Oct 29, 2013
TAG: $54,100,288

DESCRIPTION
Adam Driver began acting in New York and is best known for his role on the HBO series 'Girls'. He has worked with indie filmmakers in Frances Ha, Inside Llewyn Davis and Tracks.

CREDITS
Filmography
-- Anna
-- The Man Who Killed Don Quixote
May 24, 2019 Star Wars: Episode IX
Dec 15, 2017 Star Wars: The Last Jedi aka Epi
Aug 18, 2017 Logan Lucky
Jan 13, 2017 Silence
Dec 26, 2016 Paterson
Mar 18, 2016 Midnight Special
Dec 18, 2015 Star Wars: The Force Awakens
Apr 17, 2016 This Is Where I Leave You

RELATED POSTS
HSX Blog
More »
Antibody — May 29, 2017
First trailer for Logan Lucky Read »
Antibody — Nov 23, 2016
First trailer for Silence Read »
Antibody — Dec 4, 2014
First trailer for While We're... Read »
Antibody — Nov 28, 2014
First trailer for Star Wars:... Read »
Antibody — May 28, 2014
First trailer for This Is... Read »
Forum Discussions
More »
Antibody — Mar 21, 2017
StarBond Antidote for 3/21/17 Read »

HIGH AND LOW TRADING PRICES
This Week ↑ $59.07 ↓ $58.53
This Month ↑ $60.23 ↓ $58.25

TRADE ADRIV
Quick Trader

H$58.41 ↓ H$0.40 (0.68%)
arbitrage
<table>
<thead>
<tr>
<th>Credits</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Filmography</strong></td>
<td></td>
</tr>
<tr>
<td>--</td>
<td>Annette</td>
</tr>
<tr>
<td>--</td>
<td>The Man Who Killed Don Quixote</td>
</tr>
<tr>
<td>May 24, 2019</td>
<td>Star Wars: Episode IX</td>
</tr>
<tr>
<td>Dec 15, 2017</td>
<td>Star Wars: The Last Jedi aka Epi</td>
</tr>
<tr>
<td>Aug 18, 2017</td>
<td>Logan Lucky</td>
</tr>
<tr>
<td>Jan 13, 2017</td>
<td>Silence</td>
</tr>
<tr>
<td>Dec 28, 2016</td>
<td>Paterson</td>
</tr>
<tr>
<td>Mar 18, 2016</td>
<td>Midnight Special</td>
</tr>
<tr>
<td>Dec 18, 2015</td>
<td>Star Wars: The Force Awakens</td>
</tr>
<tr>
<td>Apr 17, 2015</td>
<td>While We’re Young</td>
</tr>
<tr>
<td>Sep 19, 2014</td>
<td>This Is Where I Leave You</td>
</tr>
</tbody>
</table>
# CREDITS

<table>
<thead>
<tr>
<th>Filmography</th>
</tr>
</thead>
<tbody>
<tr>
<td>--</td>
</tr>
<tr>
<td>--</td>
</tr>
<tr>
<td>May 24, 2019</td>
</tr>
<tr>
<td>Star Wars: Episode IX</td>
</tr>
<tr>
<td>Dec 15, 2017</td>
</tr>
<tr>
<td>Star Wars: The Last Jedi aka Epi</td>
</tr>
<tr>
<td>Aug 18, 2017</td>
</tr>
<tr>
<td>Logan Lucky</td>
</tr>
<tr>
<td>Jan 13, 2017</td>
</tr>
<tr>
<td>Silence</td>
</tr>
<tr>
<td>Dec 28, 2016</td>
</tr>
<tr>
<td>Paterson</td>
</tr>
<tr>
<td>Mar 18, 2016</td>
</tr>
<tr>
<td>Midnight Special</td>
</tr>
<tr>
<td>Dec 18, 2015</td>
</tr>
<tr>
<td>Star Wars: The Force Awakens</td>
</tr>
<tr>
<td>Apr 17, 2015</td>
</tr>
<tr>
<td>While We’re Young</td>
</tr>
<tr>
<td>Sep 19, 2014</td>
</tr>
<tr>
<td>This Is Where I Leave You</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rating</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.82</td>
<td>Annette</td>
</tr>
<tr>
<td>1.98</td>
<td>The Man Who Killed Don Quixote</td>
</tr>
<tr>
<td>3.71</td>
<td>Star Wars: Episode IX</td>
</tr>
<tr>
<td>812.73</td>
<td>Star Wars: The Last Jedi aka Epi</td>
</tr>
<tr>
<td>6.91</td>
<td>Logan Lucky</td>
</tr>
<tr>
<td>Year</td>
<td>Title</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>Aug 18, 2017</td>
<td>Logan Lucky</td>
</tr>
<tr>
<td>Mar 18, 2016</td>
<td>Midnight Special</td>
</tr>
<tr>
<td>Dec 18, 2015</td>
<td>Star Wars: The Force Awakens</td>
</tr>
<tr>
<td>Apr 17, 2015</td>
<td>While We’re Young</td>
</tr>
<tr>
<td>Sep 19, 2014</td>
<td>This Is Where I Leave You</td>
</tr>
<tr>
<td>May 24, 2019</td>
<td>Star Wars: Episode IX</td>
</tr>
<tr>
<td>Dec 15, 2017</td>
<td>Star Wars: The Last Jedi aka Epi</td>
</tr>
<tr>
<td>Jan 13, 2017</td>
<td>Silence</td>
</tr>
<tr>
<td>Dec 28, 2016</td>
<td>Paterson</td>
</tr>
</tbody>
</table>

**Logan Lucky (LUCL0)**

<table>
<thead>
<tr>
<th>Current Value</th>
<th>Change Today</th>
</tr>
</thead>
<tbody>
<tr>
<td>H$46.35</td>
<td>-H$0.33 (0.71%)</td>
</tr>
</tbody>
</table>

- Shares Held Long on HSX: 113,179,017
- Shares Held Short on HSX: 4,312,612
- Trading Volume on HSX (Today): 269,999

**Credits**

Filmography:

- Annette
- The Man Who Killed Don Quixote
**Logan Lucky**

- **Symbol:** LUCLO
- **Status:** Active
- **IPO Date:** Apr 2, 2016
- **Genre:** Action / Adventure
- **MPAA Rating:** PG-13

**Credits**

**Filmography**

- **May 24, 2019**
  - Star Wars: Episode IX
- **Dec 15, 2017**
  - Star Wars: The Last Jedi aka Epi
- **Aug 18, 2017**
  - Logan Lucky
- **Aug 18, 2017**
  - 46.35
- **Jan 13, 2017**
  - Silence
- **Nov 18, 2016**
  - Paterson
- **Dec 18, 2016**
  - Midnight Special
- **Dec 18, 2015**
  - Star Wars: The Force Awakens
- **Apr 17, 2015**
  - While We’re Young
- **Sep 19, 2014**
  - This Is Where I Leave You
Logan Lucky

Symbol: LUCLO  
Status: Active  
IPO Date: Apr 2, 2016  
Genre: Action / Adventure  
MPAA Rating: PG-13

Phase: Wrap  
Release Date: Aug 18, 2017  
Release Pattern: wide  
Gross: n/a  
Theaters: n/a

Logan Lucky (LUCLO)

H$46.35  
H$0.33 (0.71%)

Current Value  
Change Today

Shares Held Long on HSX: 113,179,017  
Shares Held Short on HSX: 4,312,012  
Trading Volume on HSX (Today): 259,999

CREDITS

Filmography

--  
Annette

--  
The Man Who Killed Don Quixote

May 24, 2019  
Star Wars: Episode IX

Dec 15, 2017  
Star Wars: The Last Jedi aka Epi

Aug 18, 2017  
Logan Lucky

Jan 13, 2017  
Silence

Dec 28, 2016  
Paterson

Mar 18, 2016  
Midnight Special

Dec 18, 2015  
Star Wars: The Force Awakens

Apr 17, 2015  
While We’re Young

Sep 19, 2014  
This Is Where I Leave You

46.35

6.82

1.98

3.71

812.73

0.91
automate
```r
library(tidyverse)
library(rvest)
library(stringr)

url <- "https://www.hsx.com/security/view/ADRIV"

movie <- read_html(url) %>%
  html_nodes(".credit a") %>%
  html_text()

link <- read_html(url) %>%
  html_nodes(".credit a") %>%
  html_attr("href")

date <- read_html(url) %>%
  html_nodes("strong") %>%
  html_text() %>%
  .[1:length(link)]

df <- tibble(date, movie, link)
```
library(tidyverse)
library(rvest)
library(stringr)

url <- "https://www.hsx.com/security/view/ADRIV"

movie <- read_html(url) %>%
  html_nodes(".credit a") %>%
  html_text()

link <- read_html(url) %>%
  html_nodes(".credit a") %>%
  html_attr("href")

date <- read_html(url) %>%
  html_nodes("strong") %>%
  html_text() %>%
  .[1:length(link)]

df <- tibble(date, movie, link)
library(tidyverse)
library(rvest)
library(stringr)

url <- "https://www.hsx.com/security/view/ADRIV"

movie <- read_html(url) %>%
  html_nodes(".credit a") %>%
  html_text()

link <- read_html(url) %>%
  html_nodes(".credit a") %>%
  html_attr("href")

date <- read_html(url) %>%
  html_nodes("strong") %>%
  html_text() %>%
  .[1:length(link)]
library(tidyverse)
library(rvest)
library(stringr)

ticker garbage

df <- tibble(date, movie, link)
get_movies <- function(ticker) {
    url <- str_c(
        "https://www.hsx.com/security/view/",
        toupper(ticker))

    movie <- read_html(url) %>%
        html_nodes(".credit a") %>%
        html_text()

    link <- read_html(url) %>%
        html_nodes(".credit a") %>%
        html_attr("href")

    date <- read_html(url) %>%
        html_nodes("strong") %>%
        html_text() %>%
        .[1:length(link)]

    return(df)
}
adam_driver <- get_movies('adriv')

View(adam_driver)

<table>
<thead>
<tr>
<th>date</th>
<th>movie</th>
<th>link</th>
</tr>
</thead>
<tbody>
<tr>
<td>--</td>
<td>Annette</td>
<td>/security/view/ANNET</td>
</tr>
<tr>
<td>--</td>
<td>The Man Who Killed Don Quixote</td>
<td>/security/view/MWQDQ</td>
</tr>
<tr>
<td>May 24, 2019</td>
<td>Star Wars: Episode IX</td>
<td>/security/view/STAR9</td>
</tr>
<tr>
<td>Dec 15, 2017</td>
<td>Star Wars: The Last Jedi aka Epi</td>
<td>/security/view/STAR8</td>
</tr>
<tr>
<td>Aug 18, 2017</td>
<td>Logan Lucky</td>
<td>/security/view/LUCLO</td>
</tr>
<tr>
<td>Jan 13, 2017</td>
<td>Silence</td>
<td>/security/view/SILEN</td>
</tr>
<tr>
<td>Dec 28, 2016</td>
<td>Paterson</td>
<td>/security/view/PATRNS</td>
</tr>
<tr>
<td>Mar 18, 2016</td>
<td>Midnight Special</td>
<td>/security/view/MNSPL</td>
</tr>
<tr>
<td>Dec 18, 2015</td>
<td>Star Wars: The Force Awakens</td>
<td>/security/view/STAR7</td>
</tr>
<tr>
<td>Apr 17, 2015</td>
<td>While We're Young</td>
<td>/security/view/WWERY</td>
</tr>
<tr>
<td>Sep 19, 2014</td>
<td>This Is Where I Leave You</td>
<td>/security/view/TWILU</td>
</tr>
<tr>
<td>Sep 19, 2014</td>
<td>Tracks</td>
<td>/security/view/TRCKS</td>
</tr>
<tr>
<td>Aug 15, 2014</td>
<td>What If</td>
<td>/security/view/FWORD</td>
</tr>
<tr>
<td>Jan 10, 2014</td>
<td>Inside Llewyn Davis</td>
<td>/security/view/INSLED</td>
</tr>
<tr>
<td>May 17, 2013</td>
<td>Frances Ha</td>
<td>/security/view/FRNHA</td>
</tr>
<tr>
<td>date</td>
<td>movie</td>
<td>link</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>--</td>
<td>Annette</td>
<td>/security/view/ANNET</td>
</tr>
<tr>
<td>--</td>
<td>The Man Who Killed Don Quixote</td>
<td>/security/view/MWKDQ</td>
</tr>
<tr>
<td>May 24, 2019</td>
<td>Star Wars: Episode IX</td>
<td>/security/view/STAR9</td>
</tr>
<tr>
<td>Dec 15, 2017</td>
<td>Star Wars: The Last Jedi aka Episode IX</td>
<td>/security/view/STAR8</td>
</tr>
<tr>
<td>Aug 18, 2017</td>
<td>Logan Lucky</td>
<td>/security/view/LUCLO</td>
</tr>
<tr>
<td>Jan 13, 2017</td>
<td>Silence</td>
<td>/security/view/SILEN</td>
</tr>
<tr>
<td>Dec 28, 2016</td>
<td>Paterson</td>
<td>/security/view/PTRSN</td>
</tr>
<tr>
<td>Mar 18, 2016</td>
<td>Midnight Special</td>
<td>/security/view/MNSPL</td>
</tr>
<tr>
<td>Dec 18, 2015</td>
<td>Star Wars: The Force Awakens</td>
<td>/security/view/STAR7</td>
</tr>
<tr>
<td>Apr 17, 2015</td>
<td>While We're Young</td>
<td>/security/view/WWERY</td>
</tr>
<tr>
<td>Sep 19, 2014</td>
<td>This Is Where I Leave You</td>
<td>/security/view/TWILU</td>
</tr>
<tr>
<td>Sep 19, 2014</td>
<td>Tracks</td>
<td>/security/view/TRCKS</td>
</tr>
<tr>
<td>Aug 15, 2014</td>
<td>What If</td>
<td>/security/view/FWORD</td>
</tr>
<tr>
<td>Jan 10, 2014</td>
<td>Inside Llewyn Davis</td>
<td>/security/view/INSVDV</td>
</tr>
<tr>
<td>May 17, 2013</td>
<td>Frances Ha</td>
<td>/security/view/FRNHA</td>
</tr>
<tr>
<td>date</td>
<td>movie</td>
<td>link</td>
</tr>
<tr>
<td>--------------</td>
<td>--------------------------------------------</td>
<td>---------------</td>
</tr>
<tr>
<td>--</td>
<td>Annette</td>
<td>/security/view/ANNET</td>
</tr>
<tr>
<td>--</td>
<td>The Man Who Killed Don Quixote</td>
<td>/security/view/MWKDQ</td>
</tr>
<tr>
<td>May 24, 2019</td>
<td>Star Wars: Episode IX</td>
<td>/security/view/STAR9</td>
</tr>
<tr>
<td>Dec 15, 2017</td>
<td>Star Wars: The Last Jedi aka Episode IX</td>
<td>/security/view/STAR8</td>
</tr>
<tr>
<td>Aug 18, 2017</td>
<td>Logan Lucky</td>
<td>/security/view/LUCLO</td>
</tr>
<tr>
<td>Jan 13, 2017</td>
<td>Silence</td>
<td>/security/view/SILEN</td>
</tr>
<tr>
<td>Dec 28, 2016</td>
<td>Paterson</td>
<td>/security/view/PTRSN</td>
</tr>
<tr>
<td>Mar 18, 2016</td>
<td>Midnight Special</td>
<td>/security/view/MNSPL</td>
</tr>
<tr>
<td>Dec 18, 2015</td>
<td>Star Wars: The Force Awakens</td>
<td>/security/view/STAR7</td>
</tr>
<tr>
<td>Apr 17, 2015</td>
<td>While We're Young</td>
<td>/security/view/WWERY</td>
</tr>
<tr>
<td>Sep 19, 2014</td>
<td>This Is Where I Leave You</td>
<td>/security/view/TWILU</td>
</tr>
<tr>
<td>Sep 19, 2014</td>
<td>Tracks</td>
<td>/security/view/TRCKS</td>
</tr>
<tr>
<td>Aug 15, 2014</td>
<td>What If</td>
<td>/security/view/FWORD</td>
</tr>
<tr>
<td>Jan 10, 2014</td>
<td>Inside Llewyn Davis</td>
<td>/security/view/INSLD</td>
</tr>
<tr>
<td>May 17, 2013</td>
<td>Frances Ha</td>
<td>/security/view/FRNHA</td>
</tr>
</tbody>
</table>
Star Wars: The Last Jedi aka Episode VIII

Symbol: STAR8
Status: Active
IPO Date: Dec 13, 2014
Genre: Fantasy
MPAA Rating: n/a
Phase: Wrap
Release Date: Dec 15, 2017
Release Pattern: wide
Gross: n/a
Theaters: n/a

DESCRIPTION
The sequel to The Force Awakens, Star Wars: Episode VIII will be directed by Rian Johnson. Daisy Ridley and John Boyega lead the returning cast.

You don't currently own any shares of STAR8

SHARES HELD:
- Shares Held Long on HSX: 460,318,598
- Shares Held Short on HSX: 1,761,700
- Trading Volume on HSX (Today): 224,702

TRADE STAR8
get_price <- function(link) {
  if (substr(link, 0, 1) == '/') {
    url <- str_c('https://www.hsx.com', link)
  } else {
    url <- str_c('https://www.hsx.com/security/view/', toupper(link))
  }
  df <- read_html(url) %>%
    html_nodes(".value") %>%
    html_text() %>%
    as_tibble() %>%
    mutate(value = parse_number(str_extract(., "(?<=\$)[^\s]+"))) %>%
    rename(price = value) %>%
    bind_cols(link = tibble(link))
  return(df)
}

get_price('/security/view/STAR8')
get_price('adriv')
get_price <- function(link) {
  if (substr(link, 0, 1) == '/') {
    url <- str_c('https://www.hsx.com', link)
  } else {
    url <- str_c('https://www.hsx.com/security/view/', toupper(link))
  }
  df <- read_html(url) %>%
    html_nodes(".value") %>%
    html_text() %>%
    as_tibble() %>%
    mutate(value = parse_number(
      str_extract(., "(?<=>\$)[^\s]+"))) %>%
    rename(price = value) %>%
    bind_cols(link = tibble(link))
  return(df)
}

df <- read_html(url) %>%
  html_nodes(".value") %>%
  html_text() %>%
  as_tibble() %>%
  mutate(value = parse_number(
    str_extract(., "(?<=>\$)[^\s]+"))) %>%
  rename(price = value) %>%
  bind_cols(link = tibble(link))
get_price <- function(link) {
  if (substr(link, 0, 1) == '/') {
    url <- str_c('https://www.hsx.com', link)
  } else {
    url <- str_c('https://www.hsx.com/security/view/', toupper(link))
  }
  df <- read_html(url) %>%
    html_nodes(".value") %>%
    html_text() %>%
    as_tibble() %>%
    mutate(value = parse_number(
        str_extract(., "(?<=\$)[^\s]+"))) %>%
    rename(price = value) %>%
    bind_cols(link = tibble(link))
  return(df)
}

get_price('/security/view/STAR8')
get_price('adriv')

df <- read_html(url) %>%
  html_nodes(".value") %>%
  html_text() %>%
  as_tibble() %>%
  mutate(value = parse_number(
      str_extract(., "(?<=\$)[^\s]+"))) %>%
  rename(price = value) %>%
  bind_cols(link = tibble(link))
```r
get_price <- function(link) {
  if (substr(link, 0, 1) == '/') {
    url <- str_c('https://www.hsx.com', link)
  } else {
    url <- str_c('https://www.hsx.com/security/view/', toupper(link))
  }
  df <- read_html(url) %>%
    html_nodes(".value") %>%
    html_text() %>%
    as_tibble() %>%
    mutate(value = parse_number(
      str_extract(., "(?<=-\$)[^\s]+"))) %>%
    rename(price = value) %>%
    bind_cols(link = tibble(link))
  return(df)
}

get_price('/security/view/STAR8')
get_price('adriv')
```
> get_price(‘/security/view/STAR8’)

> get_price(‘adriv’)
> get_price('/security/view/STAR8')

# A tibble: 1 x 2
  price  link
     <dbl> <chr>
1 720.33 /security/view/STAR8

> get_price('adriv')

# A tibble: 1 x 2
  price  link
     <dbl> <chr>
1  59.91  adriv
purrr
get_prices <- function(df) {
  params <- df %>% select(link)
  prices <- pmap(params, get_price) %>% bind_rows()
  df <- prices %>% left_join(df, by = "link")
  return(df)
}

adam_driver <- get_movies('adriv') %>% get_prices(.)

params <- df %>% select(link)
```r
params <- df %>% select(link)

prices <- pmap(params, get_price) %>% bind_rows()
```

```r
map2 {purrr}
Map over multiple inputs simultaneously.

Description
These functions are variants of `map()` iterate over multiple arguments in parallel. `map2` is specialised for the two argument case; `pmap` allows you to provide any number of arguments in a list.

Usage
map2(.x, .y, .f, ...)
map2_lgl(.x, .y, .f, ...)
map2_int(.x, .y, .f, ...)
map2_dbl(.x, .y, .f, ...)
map2_chr(.x, .y, .f, ...)
map2_df(.x, .y, .f, ..., .id = NULL)
pmap(.l, .f, ...)
pmap_lgl(.l, .f, ...)
```
get_prices <- function(df) {

  params <- df %>% select(link)

  prices <- pmap(params, get_price) %>% bind_rows()

  df <- prices %>% left_join(df, by = "link")

  return(df)
}

adam_driver <- get_movies('adriv') %>% get_prices(.)
clean
forward_tag <- function(df) {

  tag <- df %>%
    mutate(date = as.Date(date, "%b %d, %Y")) %>%
    drop_na() %>%
    mutate(days = date - Sys.Date()) %>%
    mutate(future = ifelse(days >= 0, 'Yes', 'No')) %>%
    mutate(days = abs(days)) %>%
    group_by(future) %>%
    arrange(desc(future), days) %>%
    mutate(idx = row_number()) %>%
    ungroup() %>%
    filter((idx == 1 & future == 'Yes') | (future == "No" & idx <= 5))

  forward <- tag %>%
    filter(idx <= 4) %>%
    pull(price) %>%
    mean(.) %>%
    round(., 2)

  return(forward)
}

adam_driver <- get_movies('adriv') %>% get_prices(.)

get_price('adriv') %>% pull(price)

[1] 59.91
adam_driver <- get_movies('adriv') %>% get_prices(.)

get_price('adriv') %>% pull(price)
[1] 59.91

forward_tag(adam_driver)
[1] 173.89
real money**
C = Center
G = Guard
T = Tackle

QB = Quarterback
HB = Halfback
FB = Fullback
WR = Wide Receiver
TE = Tight End

Offense

run the ball
catch the ball
catch the ball
to the ball

hybrid

Line of Scrimmage

+kick the ball
+entire defence
data
Sortable 2017 Projections

The default order for player projections is based on ESPN.com's recommended draft rankings, which take into account projected total points as well as upside and risk.

**Position:** ALL | QB | RB | WR | TE | D/ST | K | FLEX

**By Name:**

View Full Projections

<table>
<thead>
<tr>
<th>RANK</th>
<th>PLAYER, TEAM POS</th>
<th>PASSING</th>
<th>RUSHING</th>
<th>RECEIVING</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>C/A</td>
<td>YDS</td>
<td>TD</td>
<td>INT</td>
</tr>
<tr>
<td>1</td>
<td>Aaron Rodgers, GB QB</td>
<td>374.4/383.3</td>
<td>4287.9</td>
<td>34.4</td>
<td>8.8</td>
</tr>
<tr>
<td>2</td>
<td>Tom Brady, NE QB</td>
<td>392.1/501.2</td>
<td>4727.7</td>
<td>33.5</td>
<td>9.1</td>
</tr>
<tr>
<td>3</td>
<td>Drew Brees, NO QB</td>
<td>430.4/644</td>
<td>4889.3</td>
<td>34.1</td>
<td>13.9</td>
</tr>
<tr>
<td>4</td>
<td>Matt Ryan, Atl QB</td>
<td>370.5/557.7</td>
<td>4469.1</td>
<td>32.7</td>
<td>11.1</td>
</tr>
<tr>
<td>5</td>
<td>Andrew Luck, Ind QB</td>
<td>359.9/386.4</td>
<td>4249.8</td>
<td>30.6</td>
<td>15.3</td>
</tr>
<tr>
<td>6</td>
<td>Russell Wilson, Sea QB</td>
<td>330.6/314.7</td>
<td>4045.4</td>
<td>26.1</td>
<td>11.3</td>
</tr>
<tr>
<td>7</td>
<td>Cam Newton, Car QB</td>
<td>312.5/322.3</td>
<td>3943.9</td>
<td>24.1</td>
<td>13.1</td>
</tr>
<tr>
<td>8</td>
<td>Dak Prescott, Dal QB</td>
<td>335.9/513</td>
<td>3880.7</td>
<td>24.5</td>
<td>8.9</td>
</tr>
<tr>
<td>9</td>
<td>Kirk Cousins, Wash QB</td>
<td>397.4/612.6</td>
<td>4710.8</td>
<td>24.9</td>
<td>12.9</td>
</tr>
<tr>
<td>10</td>
<td>Derek Carr, Oak QB</td>
<td>362.6/590.4</td>
<td>4102.3</td>
<td>26.8</td>
<td>9.5</td>
</tr>
<tr>
<td>11</td>
<td>Ben Roethlisberger, Pit QB</td>
<td>355.3/541.4</td>
<td>4214.6</td>
<td>27.3</td>
<td>13.8</td>
</tr>
<tr>
<td>12</td>
<td>Jameis Winston, TB QB</td>
<td>358.1/580.7</td>
<td>4243.8</td>
<td>27.6</td>
<td>15.8</td>
</tr>
</tbody>
</table>
## Sortable 2017 Projections

The default order for player projections is based on ESPN.com’s recommended draft rankings, which take into account points as well as upside and risk.

### Position

- **ALL**
- **QB**
- **RB**
- **WR**
- **TE**
- **D/ST**
- **K**
- **FLEX**

### By Name

- **View Full Projections**

---

### Table

<table>
<thead>
<tr>
<th>PLAYERS</th>
<th>PASSING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>C/A</td>
</tr>
<tr>
<td>RNK</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Aaron Rodgers, GB QB</td>
</tr>
<tr>
<td>2</td>
<td>Tom Brady, NE QB</td>
</tr>
<tr>
<td>3</td>
<td>Drew Brees, NO QB</td>
</tr>
<tr>
<td>4</td>
<td>Matt Ryan, Atl QB</td>
</tr>
<tr>
<td>5</td>
<td>Andrew Luck, Ind QB</td>
</tr>
<tr>
<td>6</td>
<td>Russell Wilson, Sea QB</td>
</tr>
<tr>
<td>7</td>
<td>Cam Newton, Car QB</td>
</tr>
<tr>
<td>8</td>
<td>Dak Prescott, Dai QB</td>
</tr>
<tr>
<td>9</td>
<td>Kirk Cousins, Was QB</td>
</tr>
<tr>
<td>10</td>
<td>Derek Carr, Oak QB</td>
</tr>
</tbody>
</table>
url <- "http://games.espn.com/ffl/tools/projections?&slotCategoryId=0&startIndex=0"

df <- fetch_espn(position = 16, offset = 0)

page <- read_html(url)

df <- page %>%
  html_node("#playertable_0") %>%
  html_table()
fetch_espn <- function(position = 0, offset = 0) {

    url <- str_c(sep = "",
        "http://games.espn.com/ffl/tools/projections?",
        "&slotCategoryId=", position,
        "&startIndex=", offset)

    page <- read_html(url)

    df <- page %>%
        html_node("#playertable_0") %>%
        html_table()

    return(df)
}

df <- fetch_espn(position = 0, offset = 0)
```
df <- fetch_espn(position = 0, offset = 0)
View(df)
```
<table>
<thead>
<tr>
<th>RANK</th>
<th>PLAYER, TEAM POS</th>
<th>PASSING</th>
<th>RUSHING</th>
<th>RECEIVING</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>C/A</td>
<td>YDS</td>
<td>TD</td>
<td>INT</td>
</tr>
<tr>
<td>41</td>
<td>Darren Sproles, Phi RB</td>
<td>0/0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>42</td>
<td>Jonathan Stewart, Car RB</td>
<td>0/0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>43</td>
<td>Kenneth Dixon, Bal RB SSPD</td>
<td>0/0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>44</td>
<td>Kareem Hunt, KC RB</td>
<td>0/0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>45</td>
<td>Latavius Murray, Min RB Q</td>
<td>0/0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>46</td>
<td>Samaje Perine, Wsh RB</td>
<td>0/0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>47</td>
<td>Derrick Henry, Ten RB</td>
<td>0/0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>48</td>
<td>Jamaal Charles, Den RB Q</td>
<td>0/0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
params <- expand.grid(
  position = c(0, 2, 4, 6, 16, 17),
  offset = seq(0, 320, 40))
params <- expand.grid(
  position = c(0, 2, 4, 6, 16, 17),
  offset = seq(0, 320, 40))
```r
params <- expand.grid(
    position = c(0, 2, 4, 6, 16, 17),
    offset = seq(0, 320, 40))
```

![Position and offset combinations](image)

```r
fetch_espn(position = __, offset = __)
```
purrr
params <- expand.grid(
    position = c(0, 2, 4, 6, 16, 17),
    offset = seq(0, 320, 40))

espn_raw <- pmap(params, fetch_espn) %>% bind_rows()
<table>
<thead>
<tr>
<th>PLAYERS</th>
<th>PASSING</th>
<th>RUSHING</th>
<th>RECEIVING</th>
<th>TOTAL</th>
<th>DEFENSIVE PLAYERS</th>
<th>DEFENSIVE</th>
<th>TD RETURNS</th>
<th>KICKERS</th>
<th>KICKING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zay Jones, Buf WR Q</td>
<td>0</td>
<td>0</td>
<td>3.6</td>
<td>134.4</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Zach Zenner, Det RB</td>
<td>0</td>
<td>1.5</td>
<td>0.4</td>
<td>47.8</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Zach Miller, Chi TE Q</td>
<td>0</td>
<td>0</td>
<td>3.3</td>
<td>112.8</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Zach Line, Min RB</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Zach Ertz, Phi TE</td>
<td>0</td>
<td>0</td>
<td>4.2</td>
<td>166.6</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Zac Stacy, NYJ RB Q</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Zac Brooks, Sea RB</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Xavier Rush, Phi WR</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Xavier Grimple, Pit TE</td>
<td>0</td>
<td>0</td>
<td>1.7</td>
<td>47.7</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Willie Snead, NO WR</td>
<td>0</td>
<td>0</td>
<td>5.3</td>
<td>199.7</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Will Tye, NYG TE</td>
<td>0</td>
<td>0</td>
<td>0.2</td>
<td>5</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Will Johnson, NYG RB Q</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Will Fuller V, Hou WR</td>
<td>0</td>
<td>0</td>
<td>3.8</td>
<td>160.1</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Wes Welker, LAR WR</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Wendell Smallwood, Phi RB</td>
<td>0</td>
<td>1.6</td>
<td>0.1</td>
<td>39.9</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Wendall Williams, Hou WR</td>
<td>0</td>
<td>0</td>
<td>0.2</td>
<td>8.9</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Wayne Gallman, NYC RB</td>
<td>0</td>
<td>1.5</td>
<td>0.1</td>
<td>38.8</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Walter Powell, Buf WR SSPD</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Virgil Green, Den TE</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>36.7</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>
clean
proj <- espn_raw %>%
mutate(PLAYERS = ifelse(is.na(PLAYERS), `DEFENSIVE PLAYERS`, PLAYERS)) %>%
select(name = PLAYERS, points = TOTAL) %>%
mutate(points = parse_number(points)) %>%
drop_na() %>%
separate(name, into = c("name", "metadata"), sep = ", ", fill = "right") %>%
mutate(name = str_replace(name, "D\sD\sD\sST\sST\sST\sST\s*$","")) %>%
mutate(metadata = str_replace(metadata, "^\[\s*\s*","")) %>%
mutate(metadata = str_replace(metadata, "IR\sQ\s10\sSSPD\sID","")) %>%
mutate(metadata = str_trim(metadata)) %>%
mutate(position = ifelse(is.na(metadata), "DEF", metadata)) %>%
select(position, name, points) %>%
mutate(source = "ESPN")
<table>
<thead>
<tr>
<th>position</th>
<th>name</th>
<th>points</th>
<th>source</th>
</tr>
</thead>
<tbody>
<tr>
<td>41 RB</td>
<td>Le'Veon Bell</td>
<td>374.6</td>
<td>ESPN</td>
</tr>
<tr>
<td>42 RB</td>
<td>David Johnson</td>
<td>372.3</td>
<td>ESPN</td>
</tr>
<tr>
<td>2 QB</td>
<td>Tom Brady</td>
<td>329.2</td>
<td>ESPN</td>
</tr>
<tr>
<td>43 RB</td>
<td>Ezekiel Elliott</td>
<td>327.4</td>
<td>ESPN</td>
</tr>
<tr>
<td>1 QB</td>
<td>Aaron Rodgers</td>
<td>326.4</td>
<td>ESPN</td>
</tr>
<tr>
<td>3 QB</td>
<td>Drew Brees</td>
<td>311.8</td>
<td>ESPN</td>
</tr>
<tr>
<td>4 QB</td>
<td>Matt Ryan</td>
<td>304.0</td>
<td>ESPN</td>
</tr>
<tr>
<td>81 WR</td>
<td>Antonio Brown</td>
<td>302.2</td>
<td>ESPN</td>
</tr>
<tr>
<td>5 QB</td>
<td>Andrew Luck</td>
<td>299.5</td>
<td>ESPN</td>
</tr>
<tr>
<td>6 QB</td>
<td>Russell Wilson</td>
<td>295.1</td>
<td>ESPN</td>
</tr>
<tr>
<td>7 QB</td>
<td>Cam Newton</td>
<td>292.3</td>
<td>ESPN</td>
</tr>
<tr>
<td>82 WR</td>
<td>Julio Jones</td>
<td>284.6</td>
<td>ESPN</td>
</tr>
<tr>
<td>13 QB</td>
<td>Matthew Stafford</td>
<td>283.7</td>
<td>ESPN</td>
</tr>
<tr>
<td>15 QB</td>
<td>Tyrod Taylor</td>
<td>283.4</td>
<td>ESPN</td>
</tr>
<tr>
<td>86 WR</td>
<td>Jordy Nelson</td>
<td>278.4</td>
<td>ESPN</td>
</tr>
<tr>
<td>12 QB</td>
<td>Jameis Winston</td>
<td>277.3</td>
<td>ESPN</td>
</tr>
<tr>
<td>83 WR</td>
<td>Odell Beckham Jr.</td>
<td>276.6</td>
<td>ESPN</td>
</tr>
<tr>
<td>85 WR</td>
<td>A.J. Green</td>
<td>273.3</td>
<td>ESPN</td>
</tr>
<tr>
<td>8 QB</td>
<td>Dak Prescott</td>
<td>273.2</td>
<td>ESPN</td>
</tr>
</tbody>
</table>
bad <- proj %>%
group_by(position) %>%
mutate(avg = mean(points)) %>%
mutate(vorp = points - avg) %>%
select(position, name, points, vorp) %>%
arrange(desc(vorp))
$C = \text{Center}$
$G = \text{Guard}$
$T = \text{Tackle}$

$QB = \text{Quarterback}$
$HB = \text{Halfback}$
$FB = \text{Fullback}$

$WR = \text{Wide Receiver}$
$TE = \text{Tight End}$

---

- Offense

- Line of Scrimmage

- 10 people

- $K \times 1$
- $DEF \times 1$
params <- tribble(
  ~pos, ~slots,
  "QB", 1,
  "WR", 3,
  "RB", 2,
  "TE", 1,
  "K", 1,
  "DEF", 1
) %>%
mutate(slots = slots * 10)

replacement_player <- function(pos, slots) {
  rp <- proj %>%
    filter(position == pos) %>%
    arrange(desc(points)) %>%
    filter(row_number() <= slots) %>%
    group_by(position) %>%
    summarise(rp = mean(points))

  return(rp)
}

rp <- pmap(params, replacement_player) %>% bind_rows()
rp <- pmap(params, replacement_player) %>% bind_rows()

proj_vorp <- proj %>%
  left_join(rp, by = "position") %>%
  mutate(vorp = points - rp) %>%
  select(position, name, points, vorp) %>%
  arrange(desc(vorp))
<table>
<thead>
<tr>
<th>position</th>
<th>name</th>
<th>points</th>
<th>vorp</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RB</td>
<td>Le'Veon Bell</td>
<td>374.6</td>
</tr>
<tr>
<td>2</td>
<td>RB</td>
<td>David Johnson</td>
<td>372.3</td>
</tr>
<tr>
<td>3</td>
<td>RB</td>
<td>Ezekiel Elliott</td>
<td>327.4</td>
</tr>
<tr>
<td>4</td>
<td>WR</td>
<td>Antonio Brown</td>
<td>302.2</td>
</tr>
<tr>
<td>5</td>
<td>WR</td>
<td>Julio Jones</td>
<td>284.6</td>
</tr>
<tr>
<td>6</td>
<td>WR</td>
<td>Jordy Nelson</td>
<td>278.4</td>
</tr>
<tr>
<td>7</td>
<td>WR</td>
<td>Odell Beckham Jr.</td>
<td>276.6</td>
</tr>
<tr>
<td>8</td>
<td>WR</td>
<td>A.J. Green</td>
<td>273.3</td>
</tr>
<tr>
<td>9</td>
<td>TE</td>
<td>Greg Olsen</td>
<td>225.4</td>
</tr>
<tr>
<td>10</td>
<td>TE</td>
<td>Rob Gronkowski</td>
<td>223.6</td>
</tr>
<tr>
<td>11</td>
<td>TE</td>
<td>Jordan Reed</td>
<td>221.9</td>
</tr>
<tr>
<td>12</td>
<td>QB</td>
<td>Tom Brady</td>
<td>329.2</td>
</tr>
<tr>
<td>13</td>
<td>WR</td>
<td>Mike Evans</td>
<td>260.7</td>
</tr>
<tr>
<td>14</td>
<td>WR</td>
<td>T.Y. Hilton</td>
<td>260.0</td>
</tr>
<tr>
<td>15</td>
<td>RB</td>
<td>LeSean McCoy</td>
<td>269.5</td>
</tr>
<tr>
<td>16</td>
<td>QB</td>
<td>Aaron Rodgers</td>
<td>326.4</td>
</tr>
<tr>
<td>17</td>
<td>WR</td>
<td>Michael Thomas</td>
<td>259.1</td>
</tr>
<tr>
<td>18</td>
<td>TE</td>
<td>Travis Kelce</td>
<td>215.9</td>
</tr>
<tr>
<td>19</td>
<td>RB</td>
<td>Devonta Freeman</td>
<td>260.5</td>
</tr>
<tr>
<td>20</td>
<td>QB</td>
<td>Drew Brees</td>
<td>311.8</td>
</tr>
</tbody>
</table>
*probably not. and i'm not liable if you lose money. disclaimer. disclaimer. disclaimer.
preferably with rvest & purrrr
obey robots.txt
thanks!!