



@maxhumber

useR!2017

2017-07-06

webscraping with rvest & purrr



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.

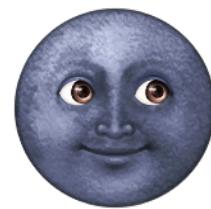
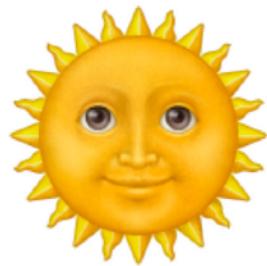


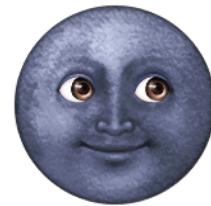
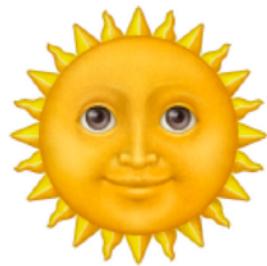
\*

\*probably not. and i'm not liable if you lose money. disclaimer. disclaimer. disclaimer.

whoami







Net Worth: **H\$41,011,328.63**







<https://github.com/hadley/rvest>



<https://github.com/tidyverse/purrr>

fake money

**STAR**  
THE LAST JEDI  
**WARS**





T E S L A

**STAR**  
THE LAST JEDI  
**WARS**





\$143.09

T E S L A

STAR  
THE LAST JEDI  
WARS

\$334.64





MY PORTFOLIO

ON THE EXCHANGE

NEWS & EVENTS

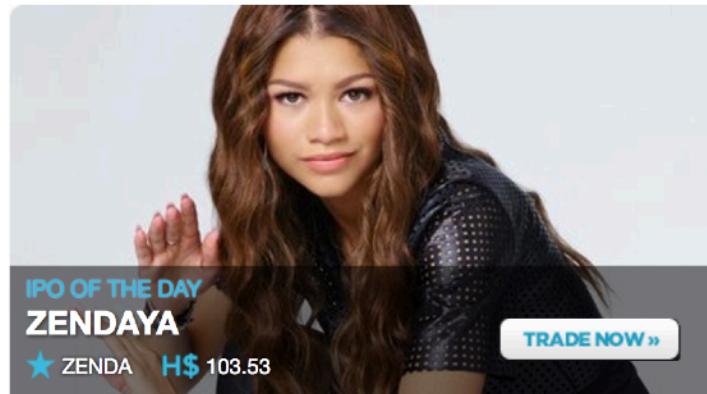
COMMUNITY

EARN H\$

advanced

Search Keyword(s)

GO



IPO OF THE DAY  
**ZENDAYA**  
★ ZENDA H\$ 103.53

TRADE NOW »

## 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...

[More »](#)

## OPENING THIS WEEK

[MORE »](#)

Friday, July 07



**Spider-Man: Homecoming**

Genre: Action / Adventure Rated: PG-13

H\$266.48 -0.17 [Trade »](#)



**A Ghost Story**

Genre: Drama Rated: R

H\$6.52 0.03 [Trade »](#)

## SPIN FACTOR® BLOG

[MORE »](#)



### 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

[MORE »](#)



**Minions 2**

Genre: Animated Rated: n/a

H\$162.15 -3.98 [Trade »](#)



**Despicable Me 3**

Genre: Animated Rated: PG

H\$224.54 2.87 [Trade »](#)



**She's Living My Life**

Genre: Drama Rated: n/a



\$143.09

T E S L A

**STAR**  
THE LAST JEDI  
**WARS**



\$334.64

H\$709.32

H\$59.91



H\$709.32



## Star Wars: The Last Jedi aka Episode VIII

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

### 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](#))

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Teaser Trailer for Star Wars:... [Read »](#)

Star Wars: The Last Jedi aka Epi (STAR8)

**H\$709.32**

▼ **H\$0.32 (0.05%)**

CURRENT VALUE

CHANGE TODAY

Shares Held Long on HSX: 459,831,976

1,779,855

Shares Held Short on HSX: 396,921

Trading Volume on HSX (Today): 396,921

You don't currently own any shares of STAR8

**TRADE STAR8**

[Advanced »](#)

[Quick Trader](#)

Qty

Buy

Sell

Short

Cover

Star Wars: The Last Jedi aka... (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.

G+ 0 Tweet

**CREDITS**

Distributor  
Walt Disney  
Director  
Rian Johnson ([RJOHN](#))  
Cast  
**Adam Driver (ADRIV)**  
Andy Serkis ([ASERK](#))

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Antibody – May 24, 2017  
VF cover story [STAR8] [Read »](#)

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starbond

Star Wars: The Last Jedi aka Epi (STAR8)

**H\$709.32** ▼ H\$0.32 (0.05%)

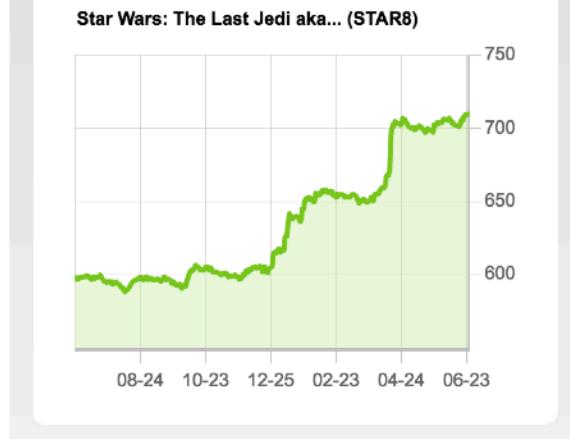
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You don't currently own any shares of STAR8

**TRADE STAR8** Advanced » Quick Trader ↗

Qty Buy Sell Short Cover





H\$812.73



H\$720.33

# EASY MONEY





## 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*.



0



### CREDITS

Filmography

--	<a href="#">Annette</a>
--	<a href="#">The Man Who Killed Don Quixote</a>
May 24, 2019	<a href="#">Star Wars: Episode IX</a>
Dec 15, 2017	<a href="#">Star Wars: The Last Jedi aka Epi</a>
Aug 18, 2017	<a href="#">Logan Lucky</a>
Jan 13, 2017	<a href="#">Silence</a>
Dec 28, 2016	<a href="#">Paterson</a>
Mar 18, 2016	<a href="#">Midnight Special</a>
Dec 18, 2015	<a href="#">Star Wars: The Force Awakens</a>
Apr 17, 2015	<a href="#">While We're Young</a>
Sep 19, 2014	<a href="#">This Is Where I Leave You</a>

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[First trailer for Star Wars:...](#) [Read »](#)
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StarBond Adjusts for 3/21/17 [Read »](#)

### Adam Driver (ADRIV)

**H\$58.41**

▼ **H\$0.40 (0.68%)**

CURRENT VALUE

CHANGE TODAY

Shares Held Long on HSX:

24,249,002

Shares Held Short on HSX:

975,117

Trading Volume on HSX (Today):

60,000

You own 20,000 of ADRIV share(s) long.

### TRADE ADRIV

[Advanced »](#)

Quick Trader

Qty

Buy

Sell

Short

Cover

### Adam Driver (ADRIV)



### HIGH AND LOW TRADING PRICES

This Week

H\$59.07

▼ H\$58.53

This Month

H\$60.23

▼ H\$58.25



# starbond ticker



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G+1 0 Tweet

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**TRADE ADRIV** Advanced Quick Trader

Qty Buy Sell Short Cover

**Adam Driver (ADRIV)**



08-24 10-23 12-25 02-23 04-24 06-23

**HIGH AND LOW TRADING PRICES**

This Week	<span style="color:green;">▲</span> H\$59.07	<span style="color:red;">▼</span> H\$58.53
This Month	<span style="color:green;">▲</span> H\$60.23	<span style="color:red;">▼</span> H\$58.25

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Antibody – Mar 21, 2017  
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Qty Buy Sell Short Cover

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08-24 10-23 12-25 02-23 04-24 06-23

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*arbitrage*



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<b>3</b>	<a href="#"><u>Midnight Special</u></a>
<b>4</b>	<a href="#"><u>Star Wars: The Force Awakens</u></a>
<b>5</b>	<a href="#"><u>While We're Young</u></a>
<b>Sep 19, 2014</b>	<a href="#"><u>This Is Where I Leave You</u></a>



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<b>Aug 18, 2017</b>	<a href="#"><u>Logan Lucky</u></a>	
<b>1</b>	<a href="#"><u>Silence</u></a>	<b>6.82</b>
<b>2</b>	<a href="#"><u>Paterson</u></a>	<b>1.98</b>
<b>3</b>	<a href="#"><u>Midnight Special</u></a>	<b>3.71</b>
<b>4</b>	<a href="#"><u>Star Wars: The Force Awakens</u></a>	<b>812.73</b>
<b>5</b>	<a href="#"><u>While We're Young</u></a>	<b>6.91</b>
<b>Sep 19, 2014</b>	<a href="#"><u>This Is Where I Leave You</u></a>	



## Logan Lucky

Symbol:	LUCLO	Phase:	Wrap
Status:	Active	Release Date:	Aug 18, 2017
IPO Date:	Apr 2, 2016	Release Pattern:	wide
Genre:	Action / Adventure	Gross:	n/a
MPAA Rating:	PG-13	Theaters:	n/a

Logan Lucky (LUCLO)

H\$46.35	▼ H\$0.33 (0.71%)	CHANGE TODAY
CURRENT VALUE		
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

--	<a href="#">Annette</a>
--	<a href="#">The Man Who Killed Don Quixote</a>
May 24, 2019	<a href="#">Star Wars: Episode IX</a>
Dec 15, 2017	<a href="#">Star Wars: The Last Jedi aka Epi</a>
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	6.82
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[The Man Who Killed Don Quixote](#)

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[Star Wars: The Last Jedi aka Epi](#)

**Aug 18, 2017**

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**1**

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[Annette](#)

--

[The Man Who Killed Don Quixote](#)

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automate



## DESCRIPTION

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0



Tweet

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Sep 19, 2014	<a href="#">Tracks</a>
Aug 15, 2014	<a href="#">What If</a>

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You own 20,000 of ADRIV share(s) long.

## TRADE ADRIV

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### Adam Driver (ADRIV)



## HIGH AND LOW TRADING PRICES

This Week	H\$59.07	H\$58.48
This Month	H\$59.45	H\$58.25
This Season	H\$60.23	H\$58.25
This Year	H\$62.30	H\$52.81

imanji: Welcome to the Jungle UK trailer for Morrissey biopic

1.77 / 0.891 Antibody (ANNUAL) 100000 24.77 / 0.891

The Ho

credit a

Clear (15)

Toggle Position

XPath

?

X

chrome extension: <http://selectorgadget.com/>



```
library(tidyverse)
library(rvest)
library(stringr)

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

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

```
library(tidyverse)
library(rvest)
library(stringr)

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

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```

selector  
text value

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  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)]
```

selector  
text value

underlying link

ticker garbage

```
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)
```

selector

text value

underlying link

ticker garbage

```
get_movies <- function(ticker) {  
  
wrap in function  
  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)
```

	<b>date</b>	<b>movie</b>	<b>link</b>
1	--	Annette	/security/view/ANNET
2	--	The Man Who Killed Don Quixote	/security/view/MWKDQ
3	May 24, 2019	Star Wars: Episode IX	/security/view/STAR9
4	Dec 15, 2017	Star Wars: The Last Jedi aka Epi	/security/view/STAR8
5	Aug 18, 2017	Logan Lucky	/security/view/LUCLO
6	Jan 13, 2017	Silence	/security/view/SILEN
7	Dec 28, 2016	Paterson	/security/view/PTRSN
8	Mar 18, 2016	Midnight Special	/security/view/MNSPL
9	Dec 18, 2015	Star Wars: The Force Awakens	/security/view/STAR7
10	Apr 17, 2015	While We're Young	/security/view/WWERY
11	Sep 19, 2014	This Is Where I Leave You	/security/view/TWILU
12	Sep 19, 2014	Tracks	/security/view/TRCKS
13	Aug 15, 2014	What If	/security/view/FWORD
14	Jan 10, 2014	Inside Llewyn Davis	/security/view/INSLD
15	May 17, 2013	Frances Ha	/security/view/FRNHA



	date	movie	link
1	--	Annette	/security/view/ANNET
2	--	The Man Who Killed Don Quixote	/security/view/MWKDQ
3	May 24, 2019	Star Wars: Episode IX	/security/view/STAR9
4	Dec 15, 2017	Star Wars: The Last Jedi aka Epi	/security/view/STAR8
5	Aug 18, 2017	Logan Lucky	/security/view/LUCLO
6	Jan 13, 2017	Silence	/security/view/SILEN
7	Dec 28, 2016	Paterson	/security/view/PTRSN
8	Mar 18, 2016	Midnight Special	/security/view/MNSPL
9	Dec 18, 2015	Star Wars: The Force Awakens	/security/view/STAR7
10	Apr 17, 2015	While We're Young	/security/view/WWERY
11	Sep 19, 2014	This Is Where I Leave You	/security/view/TWILU
12	Sep 19, 2014	Tracks	/security/view/TRCKS
13	Aug 15, 2014	What If	/security/view/FWORD
14	Jan 10, 2014	Inside Llewyn Davis	/security/view/INSLD
15	May 17, 2013	Frances Ha	/security/view/FRNHA



	date	movie	link
1	--	Annette	/security/view/ANNET
2	--	The Man Who Killed Don Quixote	/security/view/MWKDQ
3	May 24, 2019	Star Wars: Episode IX	/security/view/STAR9
4	Dec 15, 2017	Star Wars: The Last Jedi aka Epi	/security/view/STAR8
5	Aug 18, 2017	Logan Lucky	/security/view/LUCLO
6	Jan 13, 2017	Silence	/security/view/SILEN
7	Dec 28, 2016	Paterson	/security/view/PTRSN
8	Mar 18, 2016	Midnight Special	/security/view/MNSPL
9	Dec 18, 2015	Star Wars: The Force Awakens	/security/view/STAR7
10	Apr 17, 2015	While We're Young	/security/view/WWERY
11	Sep 19, 2014	This Is Where I Leave You	/security/view/TWILU
12	Sep 19, 2014	Tracks	/security/view/TRCKS
13	Aug 15, 2014	What If	/security/view/FWORD
14	Jan 10, 2014	Inside Llewyn Davis	/security/view/INSLD
15	May 17, 2013	Frances Ha	/security/view/FRNHA



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**Star Wars: The Last Jedi aka Episode VIII**

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



Star Wars: The Last Jedi aka Epi (STAR8)

**H\$720.33** ↑ H\$0.02 (0.00%)

div p

Shares Held Long on HSX: 460,318,598  
Shares Held Short on HSX: 1,781,700  
Trading Volume on HSX (Today): 224,702

You don't currently own any shares of STAR8

**TRADE STAR8** Advanced Quick Trader ▾

Qty

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



09-03 11-02 01-04 03-05 05-04 07-03

Clear (1) Toggle Position XPath ? X

```
df <- read_html(url) %>%
  html_nodes(".value") %>%
  html_text()
```

```
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))
```

Star Wars: The Last Jedi aka Epi (STAR8)

H\$709.77

 H\$1.03 (0.15%)

div p

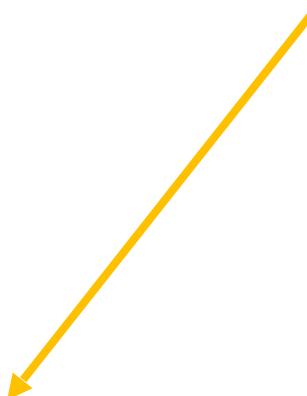
Shares Held Long on HSX: 460,045,860

Shares Held Short on HSX: 1,679,855

Trading Volume on HSX (Today): 302,374

You don't currently own any shares of STAR8

```
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')
```

```
> 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
```



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

link
/security/view/ANNET
/security/view/MWKDQ
/security/view/STAR9
/security/view/STAR8
/security/view/LUCLO
/security/view/SILEN
/security/view/PTRSN
/security/view/MNSPL
/security/view/STAR7
/security/view/WWERY
/security/view/TWILU
/security/view/TRCKS
/security/view/FWORD
/security/view/INSLD
/security/view/FRNHA

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

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

map2 {purrr}

R Documentation

## 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

catch the ball



hybrid



run the ball



catch the ball

throw the ball



— Line of Scrimmage —

+kick the ball

+entire defence

*data*

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

**By Name:**  **Go**    **Team:** All 

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[NEXT»](#)

PLAYERS		PASSING				RUSHING			RECEIVING			TOTAL
RNK	PLAYER, TEAM POS	C/A	YDS	TD	INT	RUSH	YDS	TD	REC	YDS	TD	PTS
1	<a href="#">Aaron Rodgers</a> , GB QB 	374.4/583.3	4287.9	34.4	8.8	54.5	287.3	1.7	0	0	0	326.4
2	<a href="#">Tom Brady</a> , NE QB	392.1/601.2	4727.7	33.5	9.1	37.3	151	1.9	0	0	0	329.2
3	<a href="#">Drew Brees</a> , NO QB	430.4/644	4889.3	34.1	13.9	21.7	32.1	1.1	0	0	0	311.8
4	<a href="#">Matt Ryan</a> , Atl QB 	370.5/557.7	4469.1	32.7	11.1	35	115.4	1	0	0	0	304
5	<a href="#">Andrew Luck</a> , Ind QB  	359.9/586.4	4249.8	30.8	15.5	65.1	309.2	1.8	0	0	0	299.5
6	<a href="#">Russell Wilson</a> , Sea QB 	330.6/514.7	4045.4	26.1	11.3	81.5	418.9	2.5	0	0	0	295.1
7	<a href="#">Cam Newton</a> , Car QB  	312.5/532.3	3943.9	24.1	13.1	83.8	388	4.4	0	0	0	292.3
8	<a href="#">Dak Prescott</a> , Dal QB	335.9/513	3880.7	24.5	8.9	54.5	250.1	3.2	0	0	0	273.2
9	<a href="#">Kirk Cousins</a> , Wsh QB 	397.4/612.6	4710.8	24.9	12.9	30.6	56.1	1.5	0	0	0	269.8
10	<a href="#">Derek Carr</a> , Oak QB 	362.6/590.4	4102.3	26.8	9.5	36.2	101.2	0.9	0	0	0	265.2
11	<a href="#">Ben Roethlisberger</a> , Pit QB	355.3/541.4	4214.6	27.3	13.8	25.6	60.8	0.7	0	0	0	259.7
12	<a href="#">Jameis Winston</a> , TB QB	358.1/580.7	4243.8	27.8	15.8	49.7	212.9	2	0	0	0	277.3

**Position:** ALL | QB | RB | WR | TE | D/ST | K | FLEX  
**By Name:**  Go **Team:** All   
[View Full Projections](#)

table#playertable\_0.playerTableTable.tableBody | 970x1101

PLAYERS		PASSING			
RNK	PLAYER, TEAM POS	C/A	YDS	TD	INT
1	Aaron Rodgers, GB QB 	374.4/583.3	4287.9	34.4	8.8
2	Tom Brady, NE QB	392.1/601.2	4727.7	33.5	9.1
3	Drew Brees, NO QB	430.4/644	4889.3	34.1	13.9
4	Matt Ryan, Atl QB 	370.5/557.7	4469.1	32.7	11.1
5	Andrew Luck, Ind QB 	359.9/586.4	4249.8	30.8	15.5
6	Russell Wilson, Sea QB 	330.6/514.7	4045.4	26.1	11.3
7	Cam Newton, Car QB 	312.5/532.3	3943.9	24.1	13.1
8	Dak Prescott, Dal QB	335.9/513	3880.7	24.5	8.9
9	Kirk Cousins, Wsh QB 	397.4/612.6	4710.8	24.9	12.9
10	Derek Carr, Oak QB 	362.6/590.4	4102.3	26.8	9.5

```

playerTableBgRow1">...</tr>
►<tr id="plyr2580" class="pncPlayerRow">...</tr>
playerTableBgRow0">...</tr>
►<tr id="plyr11237" class="pncPlayerRow">...</tr>
playerTableBgRow1">...</tr>
►<tr id="plyr14874" class="pncPlayerRow">...</tr>
playerTableBgRow0">...</tr>
▼<tr id="plyr14881" class="pncPlayerRow">...</tr>
playerTableBgRow1">
  <td class="playertableData">6</td>
  ►<td class="playertablePlayerName" id="playername_14881" style="...</td>
    <td class="playertableStat ">330.6/514.7</td>
    <td class="playertableStat ">4045.4</td>
    <td class="playertableStat ">26.1</td>
    <td class="playertableStat ">11.3</td>
...
  div  div  div  div  div  #playertable_0  tbody  #plyr14881  td.playertableStat
  Styles Event Listeners DOM Breakpoints Properties
  Filter :hov .cls +
  element.style {
  }
  div.gamesmain main?v=511311102711:999
  table.tableBody td,
  div.gamesmain table.tableBody th {
    vertical-align: middle;
  }
  tr.playerTableBgRow1 td, main?v=511311102711:2386
  tr.playerTableBgRow0 th {
    background: □#f8f8f2:
  }
  border - padding 5
  - 5 45 x 16 5 -
  5
  -

```

```
page <- read_html(url)

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

```
fetch_proj <- 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_proj(position = 0, offset = 0)
```

```
df <- fetch_proj(position = 0, offset = 0)
View(df)
```

PLAYERS		PLAYERS	PASSING	PASSING	PASSING	PASSING	RUSHING	RUSHING	RUSHING	RECEIVING	RECEIVING	RECEIVING	TOTAL
RNK		C/A	YDS	TD	INT	RUSH	YDS	TD	REC	YDS	TD	PTS	
1	Aaron Rodgers, GB QB	374.4/583.3	4287.9	34.4	8.8	54.5	287.3	1.7	0	0	0	326.4	
2	Tom Brady, NE QB	392.1/601.2	4727.7	33.5	9.1	37.3	151	1.9	0	0	0	329.2	
3	Drew Brees, NO QB	430.4/644	4889.3	34.1	13.9	21.7	32.1	1.1	0	0	0	311.8	
4	Matt Ryan, Atl QB	370.5/557.7	4469.1	32.7	11.1	35	115.4	1	0	0	0	304	
5	Andrew Luck, Ind QB Q	359.9/586.4	4249.8	30.8	15.5	65.1	309.2	1.8	0	0	0	299.5	
6	Russell Wilson, Sea QB	330.6/514.7	4045.4	26.1	11.3	81.5	418.9	2.5	0	0	0	295.1	
7	Cam Newton, Car QB Q	312.5/532.3	3943.9	24.1	13.1	83.8	388	4.4	0	0	0	292.3	
8	Dak Prescott, Dal QB	335.9/513	3880.7	24.5	8.9	54.5	250.1	3.2	0	0	0	273.2	
9	Kirk Cousins, Wsh QB	397.4/612.6	4710.8	24.9	12.9	30.6	56.1	1.5	0	0	0	269.8	
10	Derek Carr, Oak QB Q	362.6/590.4	4102.3	26.8	9.5	36.2	101.2	0.9	0	0	0	265.2	
11	Ben Roethlisberger, Pit QB	355.3/541.4	4214.6	27.3	13.8	25.6	60.8	0.7	0	0	0	259.7	
12	Jameis Winston, TB QB	358.1/580.7	4243.8	27.8	15.8	49.7	212.9	2	0	0	0	277.3	
13	Matthew Stafford, Det QB	394.8/608.8	4377.5	28.1	12	35.6	132.3	1.5	0	0	0	283.7	
14	Philip Rivers, LAC QB	360.3/568.3	4167.8	29.3	15.7	18	46	0.4	0	0	0	253.4	
15	Tyrod Taylor, Buf QB	299.1/484.8	3465.7	20.9	7.7	92.8	542.4	4.2	0	0	0	283.4	
16	Marcus Mariota, Ten QB Q	304.8/492.5	3605.2	27.1	11.1	63.2	324.7	1.9	0	0	0	266.7	
17	Carson Wentz, Phi QB	377/598.6	4267.6	21.6	12.1	48.5	173.7	1.8	0	0	0	249.7	
18	Eli Manning, NYG QB	370.8/601.1	4272	28.1	15.6	18.4	28.1	0.2	0	0	0	251.1	
19	Carson Palmer, Ari QB	362.4/581.5	4343.7	24.6	15	18.7	33.6	0.8	0	0	0	241.9	
20	Andy Dalton, Cin QB	341.6/542.7	3939.4	22.6	12.2	51.9	196.6	2.5	0	0	0	253.2	

```
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))
```

	position	offset
1	0	0
2	2	0
3	4	0
4	6	0
5	16	0
6	17	0
7	0	40
8	2	40
9	4	40

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

	position	offset
1	0	0
2	2	0
3	4	0
4	6	0
5	16	0
6	17	0

fetch\_espn(position = \_\_, offset = \_\_ )

8	2	40
9	4	10



```
params <- expand.grid(  
  position = c(0, 2, 4, 6, 16, 17),  
  offset = seq(0, 320, 40))  
  
raw <- pmap(params, fetch_proj) %>% bind_rows()
```

## View(raw)

	PLAYERS	PASSING	RUSHING	RECEIVING	TOTAL	DEFENSIVE PLAYERS	DEFENSIVE	TD RETURNS	KICKERS	KICKING
335	Zay Jones, Buf WR Q	0	0	3.6	134.4	NA	NA	NA	NA	NA
417	Zach Zenner, Det RB	0	1.5	0.4	47.8	NA	NA	NA	NA	NA
142	Zach Miller, Chi TE Q	0	0	3.3	112.8	NA	NA	NA	NA	NA
694	Zach Line, Min RB	0	0	0	0	NA	NA	NA	NA	NA
133	Zach Ertz, Phi TE	0	0	4.2	166.6	NA	NA	NA	NA	NA
690	Zac Stacy, NYJ RB Q	0	0	0	0	NA	NA	NA	NA	NA
764	Zac Brooks, Sea RB	0	0	0	0	NA	NA	NA	NA	NA
891	Xavier Rush, Phi WR	0	0	0	0	NA	NA	NA	NA	NA
370	Xavier Grimble, Pit TE	0	0	1.7	47.7	NA	NA	NA	NA	NA
324	Willie Snead, NO WR	0	0	5.3	199.7	NA	NA	NA	NA	NA
397	Will Tye, NYG TE	0	0	0.2	5	NA	NA	NA	NA	NA
673	Will Johnson, NYG RB Q	0	0	0	0	NA	NA	NA	NA	NA
340	Will Fuller V, Hou WR	0	0	3.8	160.1	NA	NA	NA	NA	NA
801	Wes Welker, LAR WR	0	0	0	0	NA	NA	NA	NA	NA
300	Wendell Smallwood, Phi RB	0	1.6	0.1	39.9	NA	NA	NA	NA	NA
570	Wendall Williams, Hou WR	0	0	0.2	8.9	NA	NA	NA	NA	NA
418	Wayne Gallman, NYG RB	0	1.5	0.1	38.8	NA	NA	NA	NA	NA
776	Walter Powell, Buf WR SSPD	0	0	0	0	NA	NA	NA	NA	NA
373	Virgil Green, Den TE	0	0	1	36.7	NA	NA	NA	NA	NA

clean

```
proj <- 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\\ST\\sD\\ST|\\*$", "")) %>%
  mutate(metadata = str_replace(metadata, "^[^\\s]*\\s", "")) %>%
  mutate(metadata = str_replace(metadata, "IRIQT0ISSPDIID", "")) %>%
  mutate(metadata = str_trim(metadata)) %>%
  mutate(position = ifelse(is.na(metadata), "DEF", metadata)) %>%
  select(position, name, points)
```

View(proj)



	position	name	points
41	RB	Le'Veon Bell	374.6
42	RB	David Johnson	372.3
2	QB	Tom Brady	329.2
43	RB	Ezekiel Elliott	327.4
1	QB	Aaron Rodgers	326.4
3	QB	Drew Brees	311.8
4	QB	Matt Ryan	304.0
81	WR	Antonio Brown	302.2
5	QB	Andrew Luck	299.5
6	QB	Russell Wilson	295.1
7	QB	Cam Newton	292.3
82	WR	Julio Jones	284.6
13	QB	Matthew Stafford	283.7
15	QB	Tyrod Taylor	283.4
86	WR	Jordy Nelson	278.4
12	QB	Jameis Winston	277.3
83	WR	Odell Beckham Jr.	276.6
85	WR	A.J. Green	273.3
8	QB	Dak Prescott	273.2

```
bad <- proj %>%
  group_by(position) %>%
  mutate(avg = mean(points)) %>%
  mutate(vorp = points - avg) %>%
  select(position, name, points, vorp) %>%
  arrange(desc(vorp))
```

	position	name	points	vorp
1	RB	Le'Veon Bell	374.6	328.99114
2	RB	David Johnson	372.3	326.69114
3	RB	Ezekiel Elliott	327.4	281.79114
4	WR	Antonio Brown	302.2	251.11317
5	WR	Julio Jones	284.6	233.51317
6	WR	Jordy Nelson	278.4	227.31317
7	WR	Odell Beckham Jr.	276.6	225.51317
8	QB	Tom Brady	329.2	224.94875
9	RB	LeSean McCoy	269.5	223.89114
10	WR	A.J. Green	273.3	222.21317
11	QB	Aaron Rodgers	326.4	222.14875
12	RB	Devonta Freeman	260.5	214.89114
13	WR	Mike Evans	260.7	209.61317

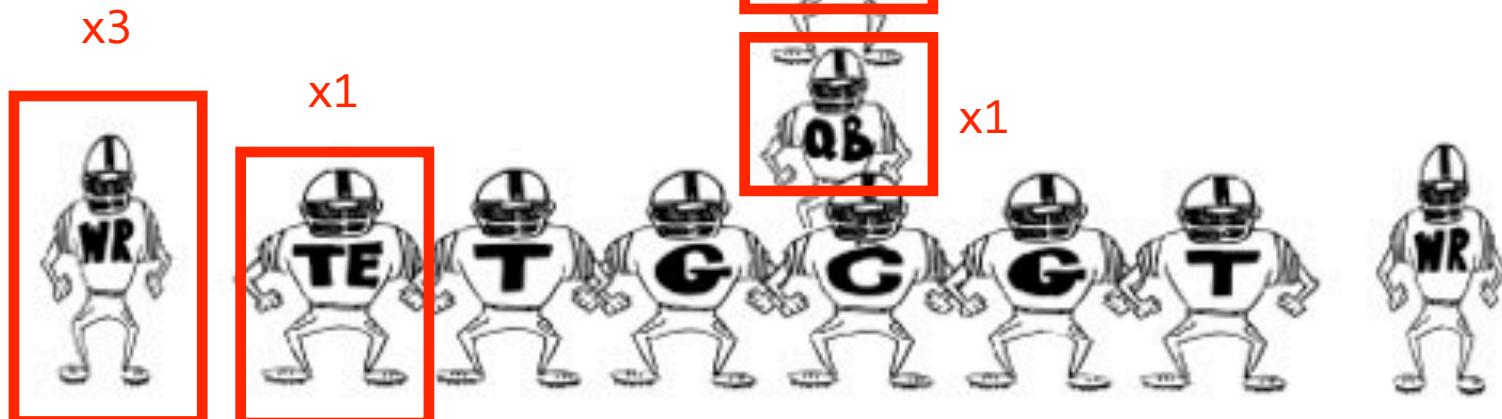
10 people

C = Center  
G = Guard  
T = Tackle

QB = Quarterback  
HB = Halfback  
FB = Fullback

WR = Wide Receiver  
TE = Tight End

## Offense



K x1    DEF x1

	pos	slots
1	QB	10
2	WR	30
3	RB	20
4	TE	10
5	K	10
6	DEF	10

```
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))

```

	position	name	points	vorp
1	RB	Le'Veon Bell	374.6	131.445000
2	RB	David Johnson	372.3	129.145000
3	RB	Ezekiel Elliott	327.4	84.245000
4	WR	Antonio Brown	302.2	68.886667
5	WR	Julio Jones	284.6	51.286667
6	WR	Jordy Nelson	278.4	45.086667
7	WR	Odell Beckham Jr.	276.6	43.286667
8	WR	A.J. Green	273.3	39.986667
9	TE	Greg Olsen	225.4	34.190000
10	TE	Rob Gronkowski	223.6	32.390000
11	TE	Jordan Reed	221.9	30.690000
12	QB	Tom Brady	329.2	28.930000
13	WR	Mike Evans	260.7	27.386667



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11	TE	Jordan Reed	221.9	30.690000
12	QB	Tom Brady	329.2	28.930000
13	WR	Mike Evans	260.7	27.386667
14	WR	T.Y. Hilton	260.0	26.686667
15	RB	LeSean McCoy	269.5	26.345000
16	QB	Aaron Rodgers	326.4	26.130000
17	WR	Michael Thomas	259.1	25.786667
18	TE	Travis Kelce	215.9	24.690000
19	RB	Devonta Freeman	260.5	17.345000
20	QB	Drew Brees	211.8	11.530000

	position	name	points
41	RB	Le'Veon Bell	374.6
42	RB	David Johnson	372.3
2	QB	Tom Brady	329.2
43	RB	Ezekiel Elliott	327.4
1	QB	Aaron Rodgers	326.4
3	QB	Drew Brees	311.8
4	QB	Matt Ryan	304.0
81	WR	Antonio Brown	302.2
5	QB	Andrew Luck	299.5
6	QB	Russell Wilson	295.1
7	QB	Cam Newton	292.3
82	WR	Julio Jones	284.6
13	QB	Matthew Stafford	283.7
15	QB	Tyrod Taylor	283.4
86	WR	Jordy Nelson	278.4
12	QB	Jameis Winston	277.3
83	WR	Odell Beckham Jr.	276.6
85	WR	A.J. Green	273.3
8	QB	Dak Prescott	273.2



\*

\*probably not. and i'm not liable if you lose money. disclaimer. disclaimer. disclaimer.



preferably with `rvest` & `purrr`

obey robots.txt

thanks!!



maxhumber

