

# Twee-Shirts

*Gathering Live Hashtags from Sporting Events*

by Jason Hortsch

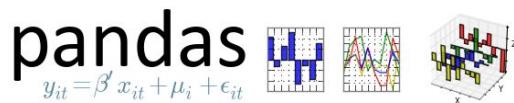
# Business Motivation

- Screen print t-shirts directly outside an arena after a sports game
- The idea is to capture trends that occurred during a specific game
- Portable screen printer:

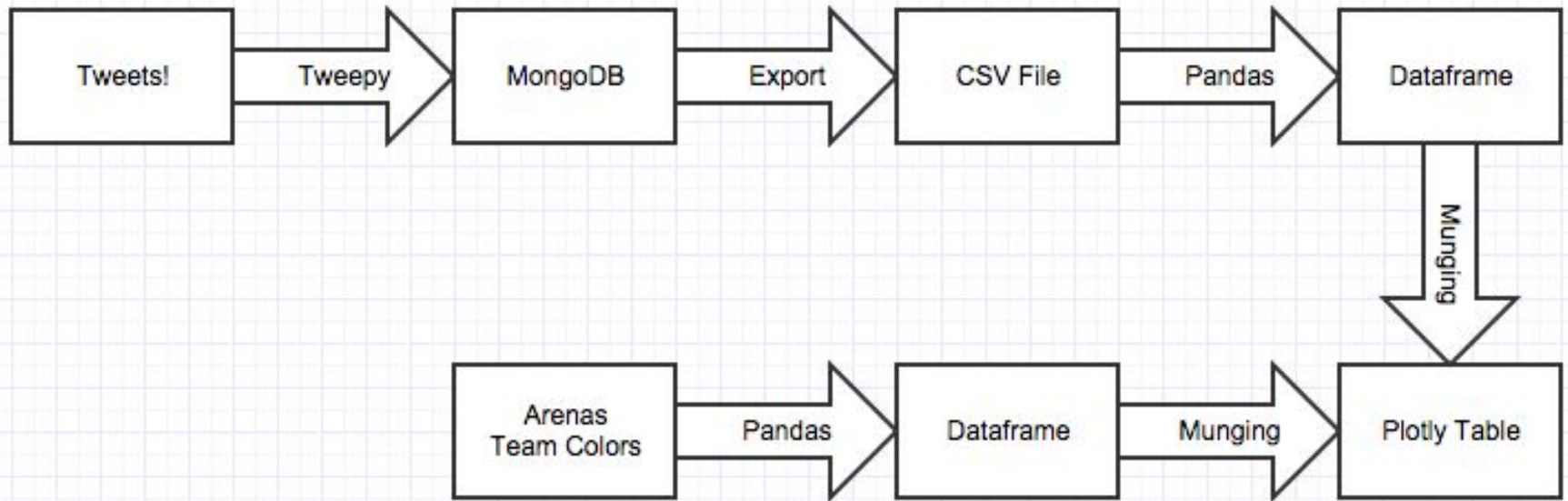


# System Rundown

1. Stream in tweets using Tweepy
2. Store tweets in a Mongo database
3. Export tweets to a csv file
4. Import the file into a Pandas dataframe
5. Match team color and arena with team
6. Manipulate dataframe to find most popular tweets
7. Print color-coded table of most popular tweets with Plotly



# Architectural Drawing



# Picture of Tweets Coming In

#Pistons

RT @Keith\_Langlois: FINAL: #Pistons 123 Portland 103. @Reggie\_Jackson brilliant with 30 & amp; 9. All 5 starters plus Bullock double figures. P...

RT @DETsports\_\_: PISTONS WINN!!!! 123-103. IMPROVE TO 32-31 ON THE SEASON #PLAYOFFPUSH

@ajamini Replace #Mavs with #Pistons and it's still true!

RT @DetroitPistons: #Pistons WIN! #DetroitBasketball <https://t.co/vZRuTdE3a5>

#optimistic... but I like 45. Projecting the Detroit #Pistons final record for 2015-2016 <https://t.co/YcA87Yi8rR> <https://t.co/ggYQMMAtZ>

Trail Blazers-Pistons Box #Worldnews <https://t.co/DfrqP1js95>

Reggie Jackson Pistons Bully Their Way Past Trail... <https://t.co/IKzRfjju10> #RipCity | <https://t.co/9CkWJtKE0s> <https://t.co/cZnfUQPqLt>

<https://t.co/R1lqI4S5fb> Jackson scores 30 to lift Pistons over Portland 123-103 (Yahoo Sports) #SportsTap

Jackson scores 30 to lift Pistons over Portland 123-103 #Worldnews <https://t.co/g99gBU9nuB>

Pistons hand Trail Blazers third straight loss #TrailBlazers <https://t.co/8m0Icy4Z3s> <https://t.co/gXRuvZ6Ukw>

RT @PistonsNetwork: A more than needed W!!! Pistons beat the Blazers 123-103!!! #DeetroitBasketballlll 🏀 <https://t.co/uuTf4mvqrB>

KHRIS MIDDLETON 2012 13 PANINI SELECT #302 PISTONS ROOKIE PRIZM JERSEY AUTO /199 <https://t.co/uuTf4mvqrB>

# Example Output

Team	Hashtag	Count	Rank
Celtics	#Celtics	1742	1
Celtics	#PORatBOS	563	2
Celtics	#NBA	421	3
Celtics	#Blazers	191	4
Celtics	#celtics	188	5
Celtics	#CelticsWin.	158	6
Celtics	#GreenRunsDeep	113	7
Celtics	#SCThrowback	109	8
Celtics	#CelticsNation	95	9
Celtics	#Blazzers	87	10
Celtics	#trailblazers	83	11
Celtics	#CelticsWin!!	80	12
Celtics	#Boston	80	13
Celtics	#Trailblazers	76	14

## Example Output 2

Team	Hashtag	Count	Rank
Raptors	#Raptors	1296	1
Raptors	#RTZ	1285	2
Raptors	#WeTheNorth	700	3
Raptors	#NBALeaguePass.	313	4
Raptors	#LeaguePassAlert	204	5
Raptors	#PORatTOR	204	6
Raptors	#NBA	149	7
Raptors	#Blazers	147	8
Raptors	#raptors	133	9
Raptors	#rtz	98	10
Raptors	#Toronto	73	11
Raptors	#TrailBlazers	66	12
Raptors	#...	58	13
Raptors	#wethenorth	38	14

Mockup:





# Lessons Learned

- Use pre-existing resources
- Read documentation
- Try / excepts are your friend
- Do things in small pieces
- Twitter data not as big as I thought



# Version 2.0



- Make things even more streamlined
- Remove the manual components
- Do all games automatically (using an NBA or ESPN api?)
- After Mongo, put tweets in a RDBMS and query with SQL
- Create a web app?
- Make my dashboard more 'live'