



Fantasy Baseball Player Visualization



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Overview

- 1) Context
- 2) Process
- 3) **DEMO**
- 4) Accomplishments
- 5) ToDo
- 6) Questions

Context

Motivation & Background

What is Fantasy Baseball?

- Users “own” Major League Baseball players.
- Players accrue **fantasy points** throughout a season.
- The user with the most FPs at the end of the season **wins**.
- You can check out our league [here](#)

Max's Team



Aren's Team



Standings		as of April 25, 2018
TEAM	POINTS	
<u>Llama's Mythical Bums</u>	3269.9	
<u>The Jabronis</u>	2980.5	
<u>Do you wanna build a Stroman?</u>	2802.5	
<u>Billy Knows Best</u>	2691.7	
<u>Sweet Crack of the Bat</u>	2513.8	
<u>Angels in the Troutfield</u>	2361.7	
<u>It's Bye Bye Baby</u>	2331.7	
<u>Hemington High Rollers</u>	2188.4	
<u>This Is My Team</u>	2173.4	
<u>Make Love, Not WAR</u>	2076.1	
<u>Blood and Thunder</u>	2054.1	
<u>Kate Upton's husband</u>	1589.2	

Motivation

- Players are acquired via auction.
- Auctions require fast decision making (time-constrained).
- Draft interface doesn't provide much information
- Our vis hopes to aid users with their draft

The screenshot displays a draft interface with several sections:

- Current Status:** LIVE, 14 seconds left, Troy Talon26k (TOR) SS \$19, High Bidder: The Silk Road Gang.
- Bid:** Bid Amount, Bid, +\$1, Nominate, Nominating Name will go here, Initial Bid, Start Auction.
- Last Auction:** Mark Tumblo (BAL) 1B/OF, Commissioner Megatron \$10.
- Chat:** A chat window with messages from users like WAR Horse, Catfish Hunters, and Griffey Forever.
- Find Players:** A search bar.
- Watchlist:** A table listing players and their status.
- Teams:** A table listing teams and their statistics.

Player	Pos	FA Nom.	Wc.
Yasiel Puig (LAD)	OF	FA Nom.	Wc.
Ian Kinsler (DET)	2B	FA Nom.	Wc.
Justin Upton (DET)	OF	FA Nom.	Wc.
Ben Zobrist (CHC)	2B/OF	FA Nom.	Wc.
Russell Martin (TOR)	C	FA Nom.	Wc.
Daniel Murphy (WSN)	1B/2B/OF	FA Nom.	Wc.
Jonathan Lucroy (MIL)	1B/C	FA Nom.	Wc.

Team	Order	Free Cap	Roster Spots	Online?
The Willich & Scratchy Show	1	\$330	27	YES
The Silk Road Gang	2	\$191	26	YES
\$5 Titi Infinity	3	\$81	17	YES
Catfish Hunters	4	\$151	14	YES
* FIPoodlamuss	5	\$230	26	YES
WAR Horse	6	\$253	28	YES
Grumble Grumble	7	\$108	14	YES
Tough Actin' TANAKA	8	\$52	10	YES
Commissioner Megatron	9	\$185	23	YES

Focus Shift

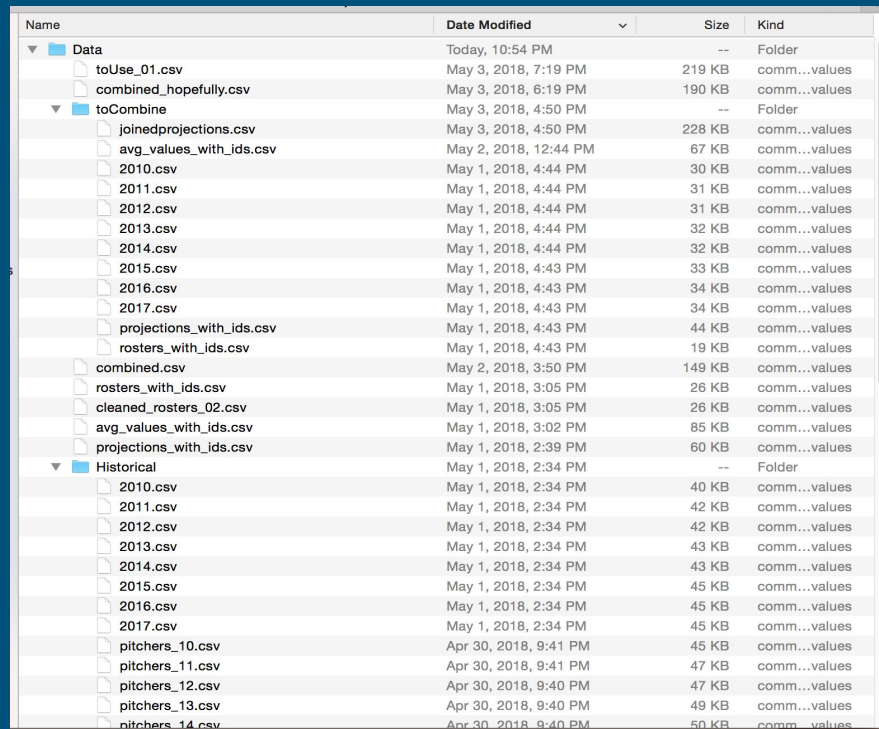
- More focus on Exploratory Data Analysis
-

Process

Data Cleaning & Design Stages

Data (Part 1)

- Via Fangraphs.com
- Data cleaning (R & Excel)
- Combining (SQL)



The screenshot shows a file explorer window with a tree view on the left and a detailed list on the right. The tree view shows a folder named 'Data' which contains subfolders 'toUse_01.csv', 'combined_hopefully.csv', and 'toCombine'. The 'toCombine' folder contains a subfolder 'joinedprojections.csv' and several CSV files. The 'Historical' folder contains a series of CSV files from 2010 to 2017, and a series of CSV files for pitchers from 2010 to 2017.

Name	Date Modified	Size	Kind
Data	Today, 10:54 PM	--	Folder
toUse_01.csv	May 3, 2018, 7:19 PM	219 KB	comm...values
combined_hopefully.csv	May 3, 2018, 6:19 PM	190 KB	comm...values
toCombine	May 3, 2018, 4:50 PM	--	Folder
joinedprojections.csv	May 3, 2018, 4:50 PM	228 KB	comm...values
avg_values_with_ids.csv	May 2, 2018, 12:44 PM	67 KB	comm...values
2010.csv	May 1, 2018, 4:44 PM	30 KB	comm...values
2011.csv	May 1, 2018, 4:44 PM	31 KB	comm...values
2012.csv	May 1, 2018, 4:44 PM	31 KB	comm...values
2013.csv	May 1, 2018, 4:44 PM	32 KB	comm...values
2014.csv	May 1, 2018, 4:44 PM	32 KB	comm...values
2015.csv	May 1, 2018, 4:43 PM	33 KB	comm...values
2016.csv	May 1, 2018, 4:43 PM	34 KB	comm...values
2017.csv	May 1, 2018, 4:43 PM	34 KB	comm...values
projections_with_ids.csv	May 1, 2018, 4:43 PM	44 KB	comm...values
rosters_with_ids.csv	May 1, 2018, 4:43 PM	19 KB	comm...values
combined.csv	May 2, 2018, 3:50 PM	149 KB	comm...values
rosters_with_ids.csv	May 1, 2018, 3:05 PM	26 KB	comm...values
cleaned_rosters_02.csv	May 1, 2018, 3:05 PM	26 KB	comm...values
avg_values_with_ids.csv	May 1, 2018, 3:02 PM	85 KB	comm...values
projections_with_ids.csv	May 1, 2018, 2:39 PM	60 KB	comm...values
Historical	May 1, 2018, 2:34 PM	--	Folder
2010.csv	May 1, 2018, 2:34 PM	40 KB	comm...values
2011.csv	May 1, 2018, 2:34 PM	42 KB	comm...values
2012.csv	May 1, 2018, 2:34 PM	42 KB	comm...values
2013.csv	May 1, 2018, 2:34 PM	43 KB	comm...values
2014.csv	May 1, 2018, 2:34 PM	43 KB	comm...values
2015.csv	May 1, 2018, 2:34 PM	45 KB	comm...values
2016.csv	May 1, 2018, 2:34 PM	45 KB	comm...values
2017.csv	May 1, 2018, 2:34 PM	45 KB	comm...values
pitchers_10.csv	Apr 30, 2018, 9:41 PM	45 KB	comm...values
pitchers_11.csv	Apr 30, 2018, 9:41 PM	47 KB	comm...values
pitchers_12.csv	Apr 30, 2018, 9:40 PM	47 KB	comm...values
pitchers_13.csv	Apr 30, 2018, 9:40 PM	49 KB	comm...values
pitchers_14.csv	Apr 30, 2018, 9:40 PM	50 KB	comm...values

Our lovely data

Data (Part 2)

League Info



Historical
Performance

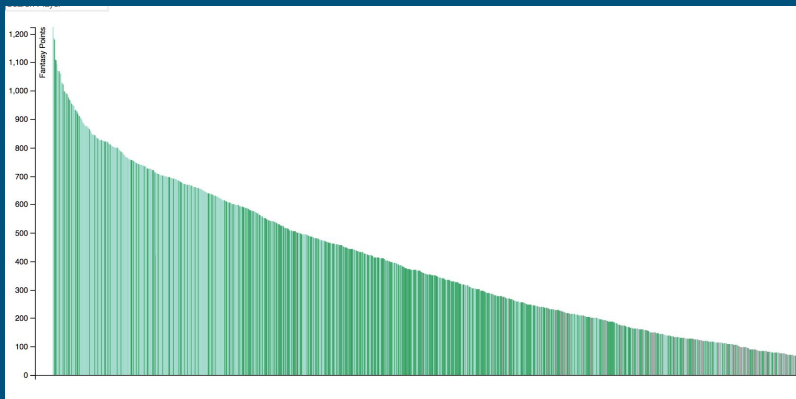


Projections

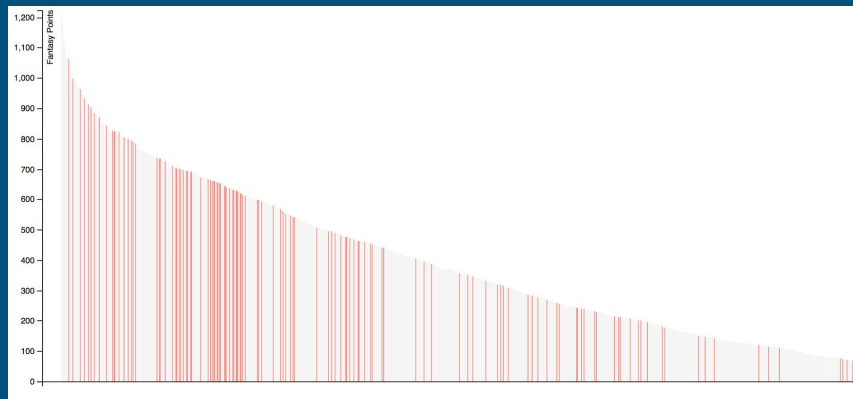


**Final
Dataset**

Color Improvement



Unfiltered



Filtered

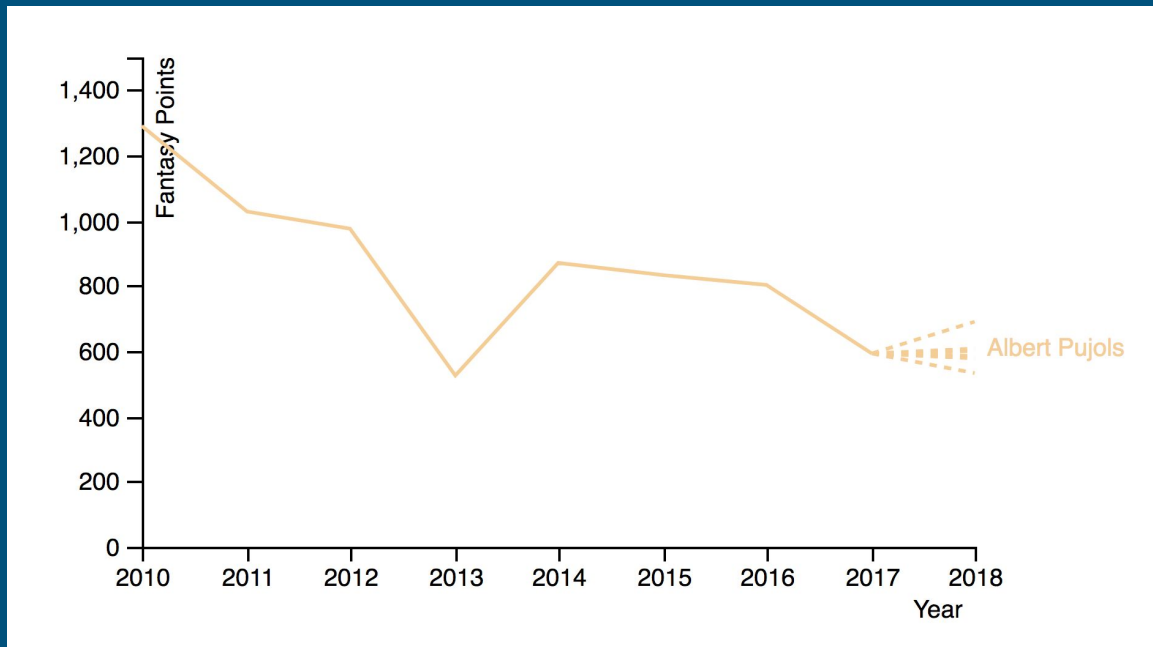
More Beautiful & Thorough Filtering

Filter by Position

- ☐ SP
- ☐ RP
- ☐ C
- ☐ 1B
- ☐ 2B
- ☐ 3B
- ☐ SS
- ☐ OF
- ☐ UTIL

Old, ugly filtering.

Added Historical & Projected Performance



Demo

[Link](#)

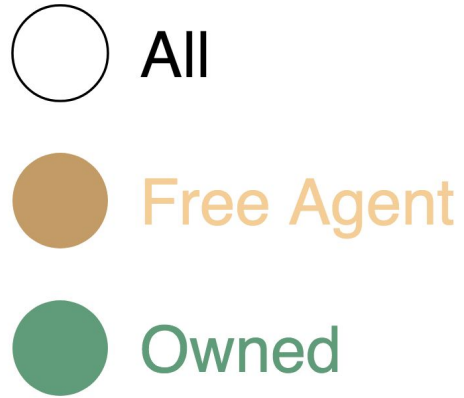
Accomplishments

What we're proud of.

Uncertainty Visualization



Thorough filtering



ToDo

Remaining Tasks

ToDo

- 1) Create player card
- 2) Add hover-over reference lines for line chart
- 3) More robust player recommendation

Suggestions?

- 1) Does the highlight color work?
- 2) Is the filtering intuitive?
- 3) How to fix overlapping names on line chart?

Questions?

Comments?