

Tableau to Bokeh: A Case Study of Basketball Analytics Reporting

CSC-475: Seminar in Computer Science

Jonathan Lawrence

Personal Background/Motivations

- Been on the basketball team every year
- Multiple Injuries (Medically Hardship)
- I asked to stay around the team and basically be the team's data analyst for experience (internship credit)
- CSC-475

Vision/Goals

- To start my own data analytics business that takes on basketball programs as clients
- Each client will have their own statistics website created and constantly managed with each new practice
- Focus mainly on off-season practice stats
- Already begun “product development” starting in June and have been refining it ever since
- Aiming to have a finished product by the end of this basketball season (Around April), along with my business infrastructure set up
- Will then begin to travel to other colleges to pitch my product to coaches in April/May

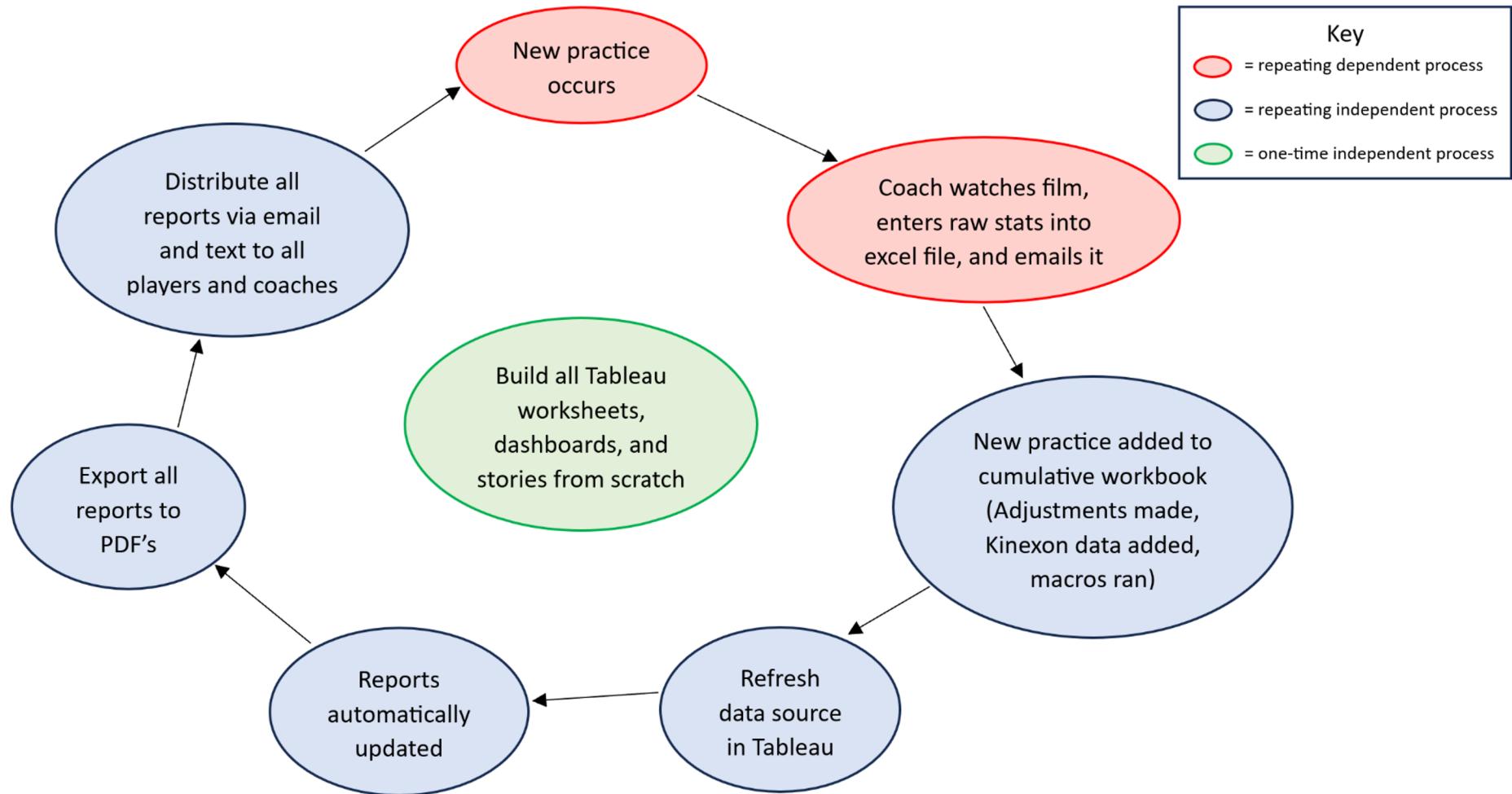
Problem/Need for the Product

- NCAA Basketball is a big business centered around winning programs
- If my system can help a team win even one more game in a given season, then there is value in it
- The Off-Season is a crucial time to get new team prepared come season time
- My system provides constant feedback helping coaches identify, correct, and communicate team/player strengths, weaknesses, and roles
- Figuring out and correcting these things out early before your first game definitely impacts winning

Data

<u>Player Name</u>	Off. Poss.	Def. Poss.	A 2FGM	A 2FGm	B 2FGM	B FGm	3FG	3FGm	FT	FTm	AST	TO	DF	ST	Foul	Foul Drawn	OREB	
#0 Smith, Pjay	34	28	1		1	1	5	2					6	2	1		3	
#1 Pegues, JP	34	30	1		1	1		3			6	1	7	2				
#2 Bronson, Eddrin	25	26		1			3	2				2	2				1	
#4 VanderWal, Ben	26	29	1				2	1	2		2	1	3	2		1		
#5 Foster, Marcus	33	29	1		1		1	2			3	2	3			1	1	
#10 Humphries, Tommy	22	18					1	1			3	0	1		2			
#11 Whitt, Carter	31	36	1	1	3			2	1	1	3	5	2			1		
#12 Molnar, Davis	31	35	1	1	1				2			3	3	3		1	1	
#13 Hien, Garrett	34	32		1	1	1	1	1			4	4	5	1	2	1	1	
#15 Hughey, Tyrese	6	7	1								1	0	1	1		1		
#21 Bowser, Cooper	31	36		1	1							1	4	1			1	
#22 Collins, Cason																	1	
#24 Williams, Alex	18	19	1			1		1					4	3				
Total	325	325	8	5	9	4	13	15	6	1	22	19	41	15	6	6	9	
▶ ...	10-7-23	10-9-23	10-10-23	10-11-23	10-12-23	10-16-23	10-17-23	10-19-23	10-20-23	10-21-23	10-23-23	10-24-23	10-26-23	10-27-23	...	⊕	◀	

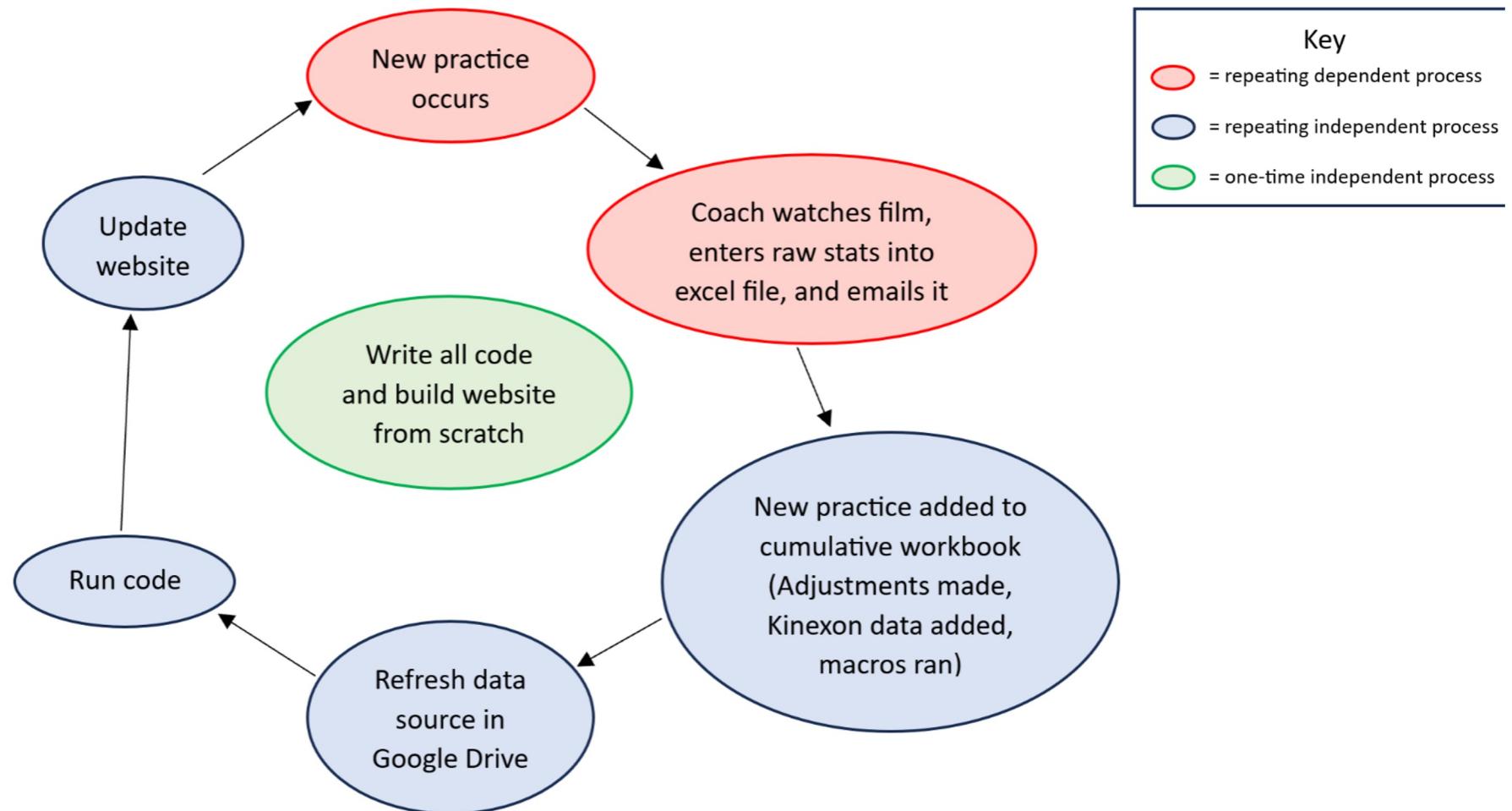
Tableau System Pipeline



Problems With This System

- Not most efficient or scalable to work with multiple clients;
Would get to be too much data for a personal computer to process quickly
- Reports are static: What user sees is what user gets
- Needs to be texted/mailed out with each new report; all reports are separate PDF's in different locations for the user

Website System Pipeline



Problems Solved By This System

- Efficient and scalable as code is simply ran with press of a button, and ran on Google's servers so big data is handled quickly by big infrastructure
- Reports are interactive: User can build what they want to see
- Simple distribution and user access process; New report is uploaded to website, user visits website

Team Aggregate Performance Report

FALL SEASON: 10 PRACTICES IN
FURMAN BASKETBALL





Weekly Stock Market(10 Practices In VS 7 Practices In)

Percentages

	Current Report	Previous Report	Change
AST%	18.3%	18.8%	-0.6%
EFG%	55.5%	59.3%	-3.7%
3PT%	36.5%	39.8%	-3.3%
FT Rate	22.3%	22.3%	0.0%
A-2PT%	65.5%	68.4%	-2.9%
B-2PT%	37.5%	42.7%	-5.2%
TO%	12.2%	12.3%	-0.1%

Team



Metrics

O Rating	121.6	122.8	-1.2
D Rating	0.12	-2.68	2.80
AST:TO	1.50	1.53	-0.03
PPS	1.15	1.18	-0.03
PPP	0.19	0.20	-0.01
Defl/Pos	15.6	15.5	0.1
OReb/Pos	34.4	35.9	-1.5
DReb/Pos	17.1	17.8	-0.7



Yearly Stock Market (First 10 Practices Both Years)

Percentages

	2022	2023	Change
AST%	20.9%	18.3%	-2.6%
EFG%	55.0%	55.5%	0.5%
3PT%	34.5%	36.5%	1.9%
A-2PT%	65.4%	65.5%	0.1%
B-2PT%	48.0%	37.5%	-10.5%
TO%	18.6%	12.2%	-6.5%

Team



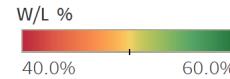
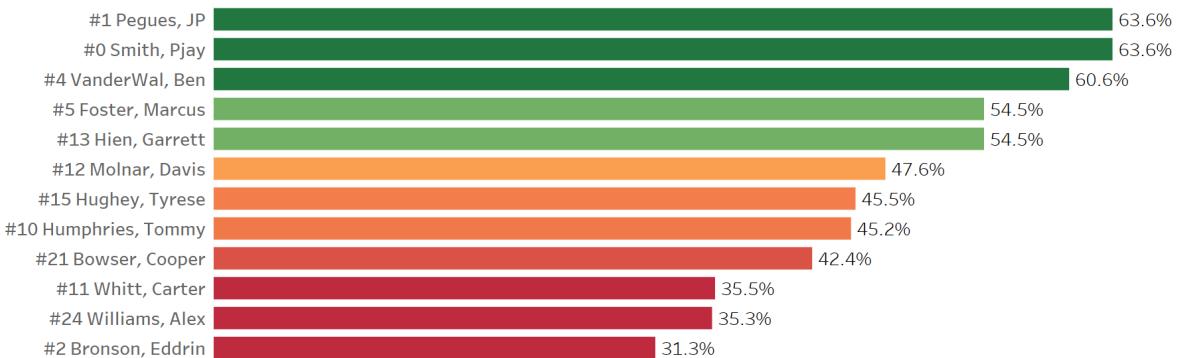
Metrics

O Rating	117.1	121.6	4.4
AST:TO	1.12	1.50	0.38
PPS	1.25	1.15	-0.10
PPP	0.18	0.19	0.02
Defl/Pos	13.0	15.6	2.7
OReb/Pos	44.4	34.4	-10.0
DReb/Pos	18.5	17.1	-1.4



Metric Totals

Win%



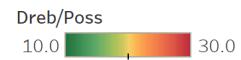
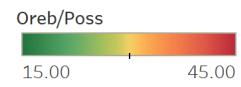
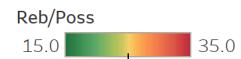
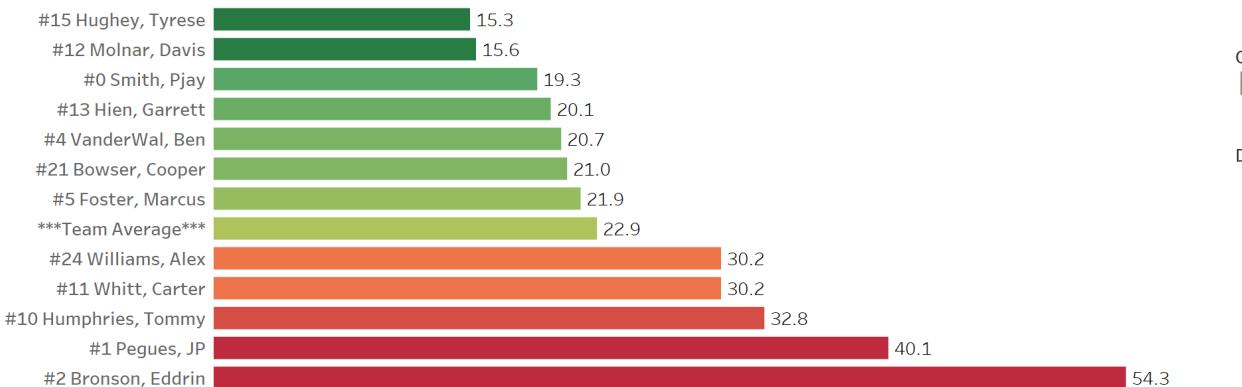
Total Wins

Player Name	Wins	Losses	Games Played
#0 Smith, Pjay	21	12	33
#1 Pegues, JP	21	12	33
#2 Bronson, Eddrin	10	22	32
#4 VanderWal, Ben	20	13	33
#5 Foster, Marcus	18	15	33
#10 Humphries, Tommy	14	17	31
#11 Whitt, Carter	11	20	31
#12 Molnar, Davis	10	11	21
#13 Hien, Garrett	12	10	22
#15 Hughey, Tyrese	15	18	33
#21 Bowser, Cooper	14	19	33
#24 Williams, Alex	6	11	17

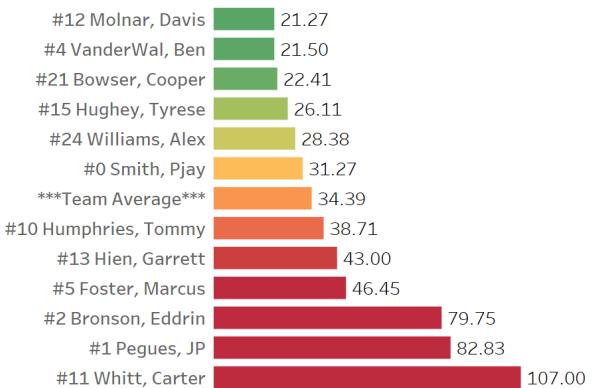


Metric Totals

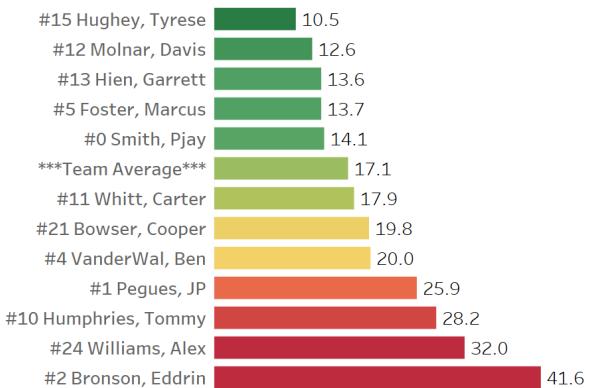
Rebounds Per Possession



Offensive



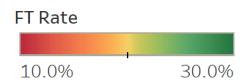
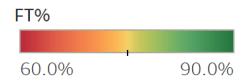
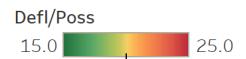
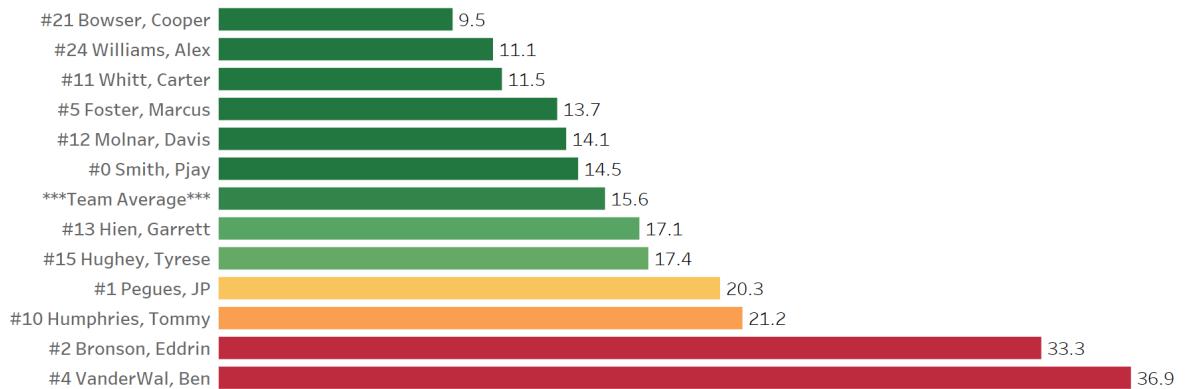
Defensive



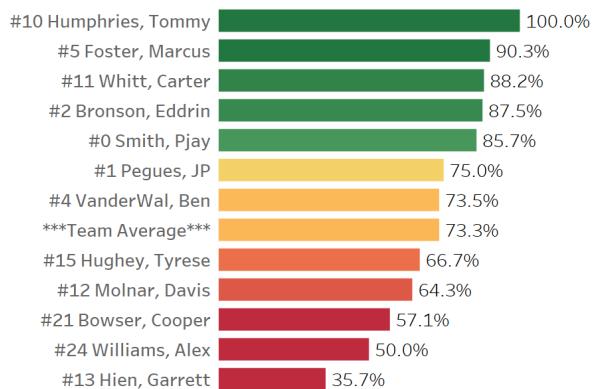


Metric Totals

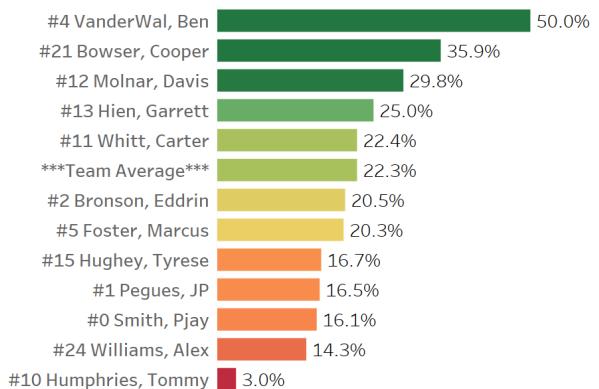
Deflections Per Possession



Free Throw %



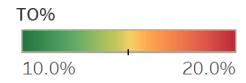
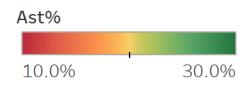
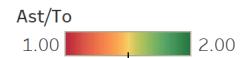
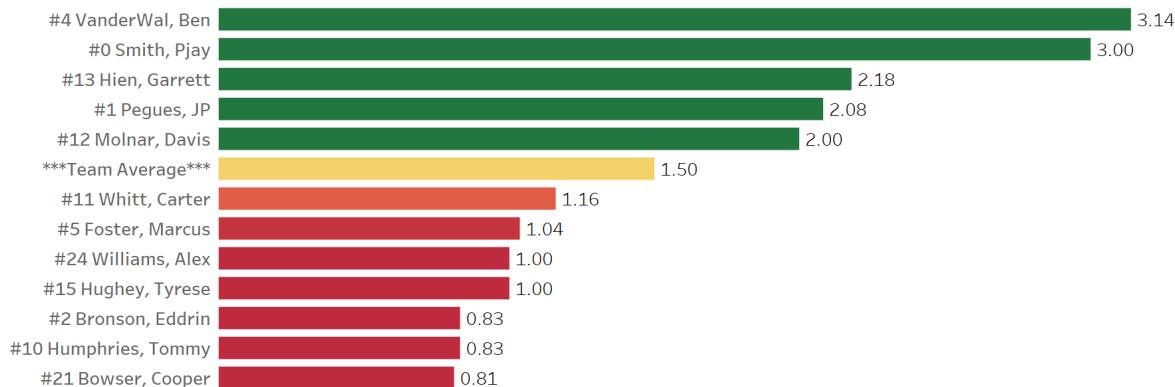
Free Throw Rate



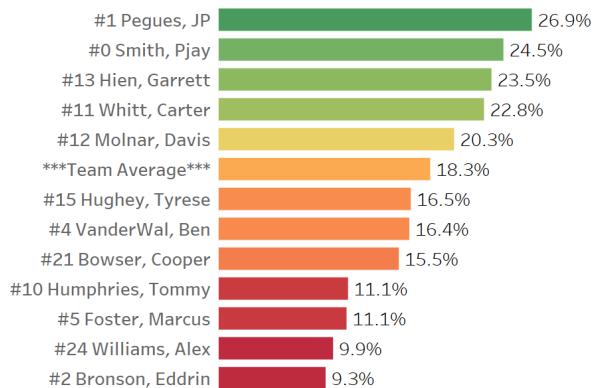


Metric Totals

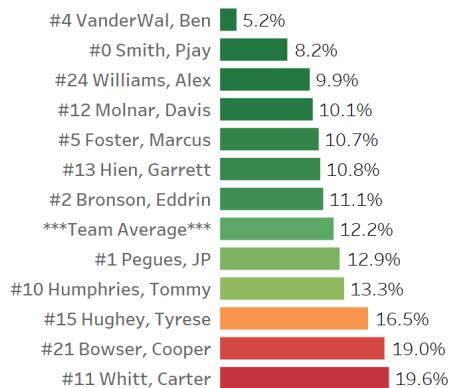
Assist:Turnover Ratio



Assist %



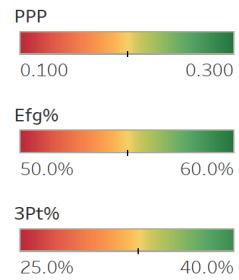
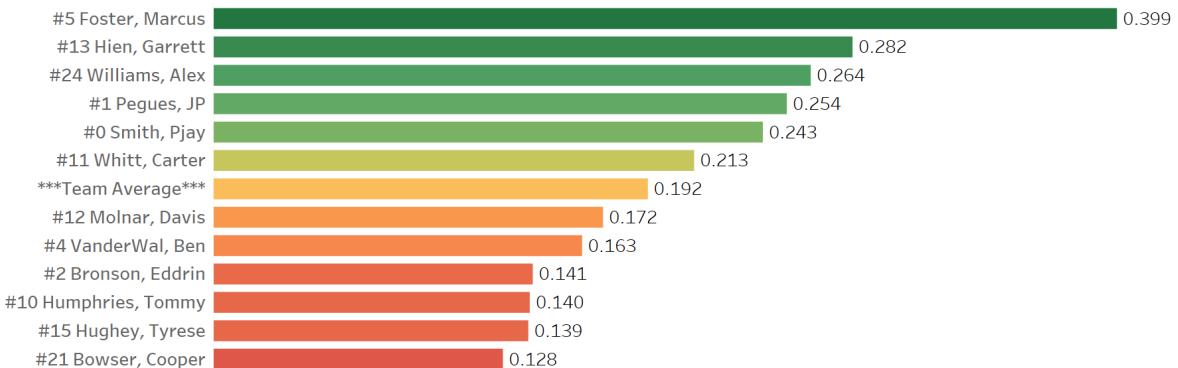
Turnover %



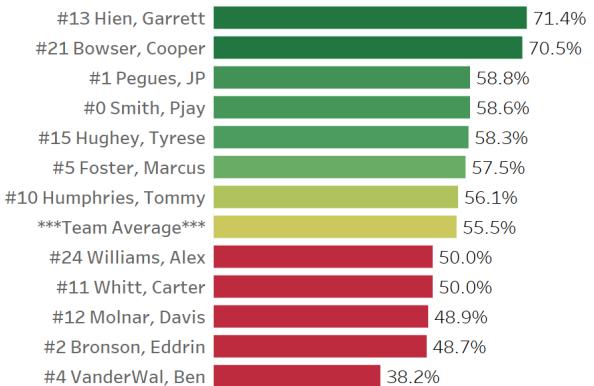


Metric Totals

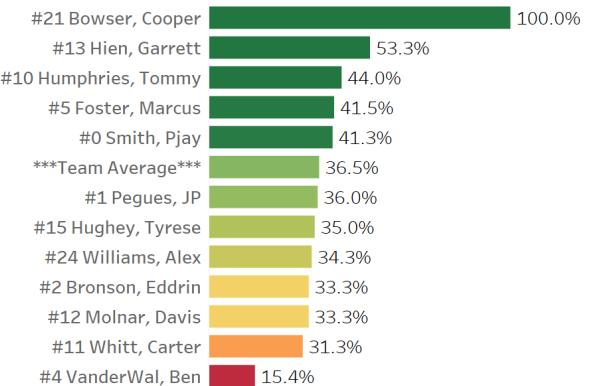
Points Per Possession



Effective Field Goal %



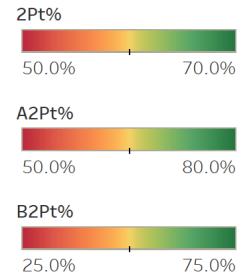
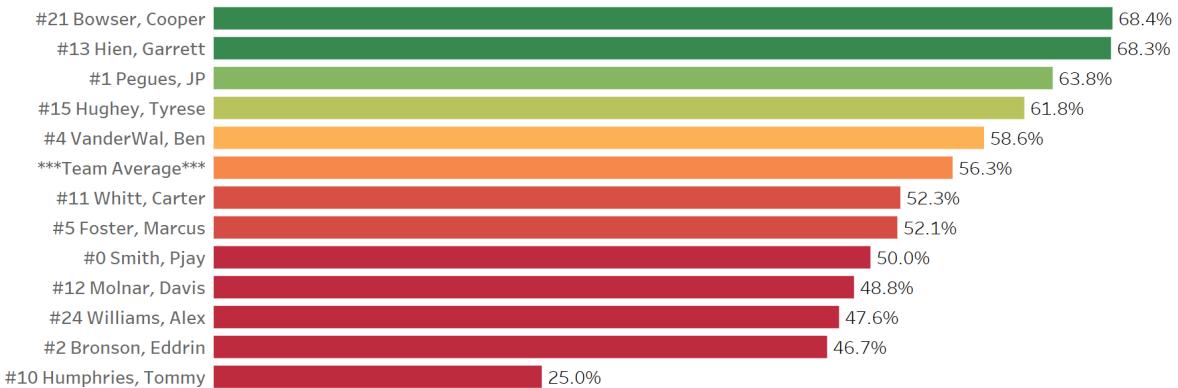
3PT%



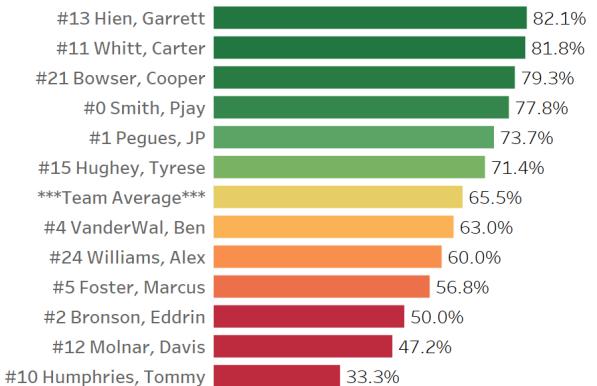


Metric Totals

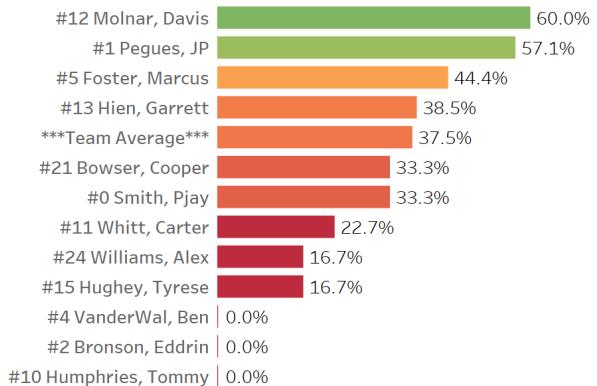
2PT%



A-Level 2PT %



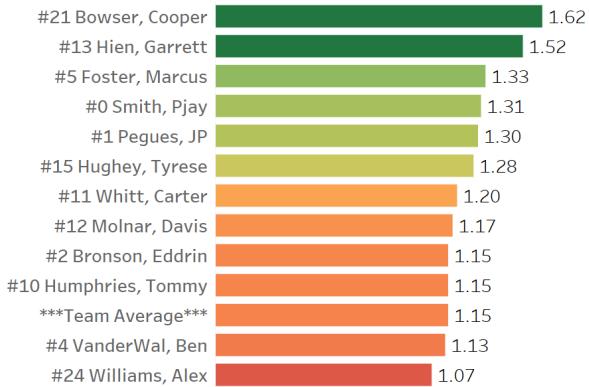
B-Level 2PT %



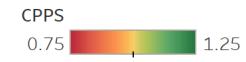
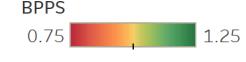
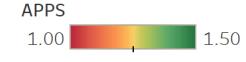
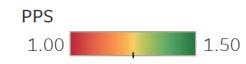
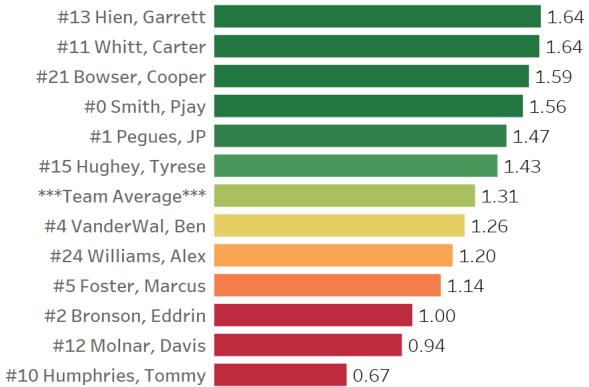


Metric Totals

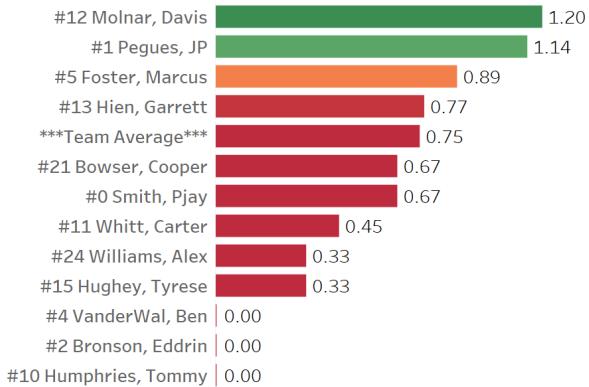
Points Per Shot



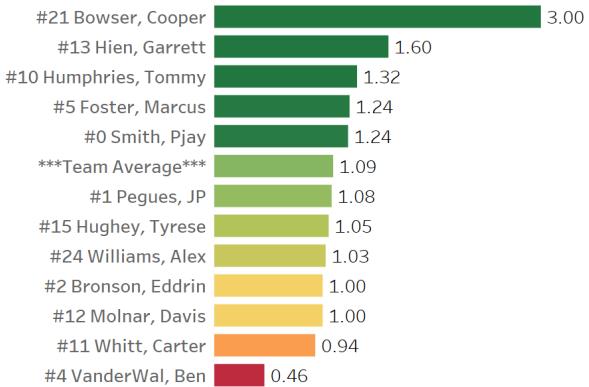
A-Level Points Per Shot



B-Level Points Per Shot



C-Level Points Per Shot





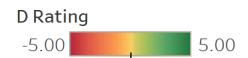
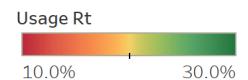
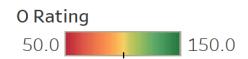
Metric Totals

Offensive Rating

#13 Hien, Garrett	145.04
#0 Smith, Pjay	140.18
#1 Pegues, JP	136.21
#21 Bowser, Cooper	125.80
Team Average	121.58
#5 Foster, Marcus	121.52
#12 Molnar, Davis	119.60
#15 Hughey, Tyrese	118.14
#11 Whitt, Carter	116.21
#4 VanderWal, Ben	114.56
#10 Humphries, Tommy	111.72
#2 Bronson, Eddrin	105.85
#24 Williams, Alex	104.13

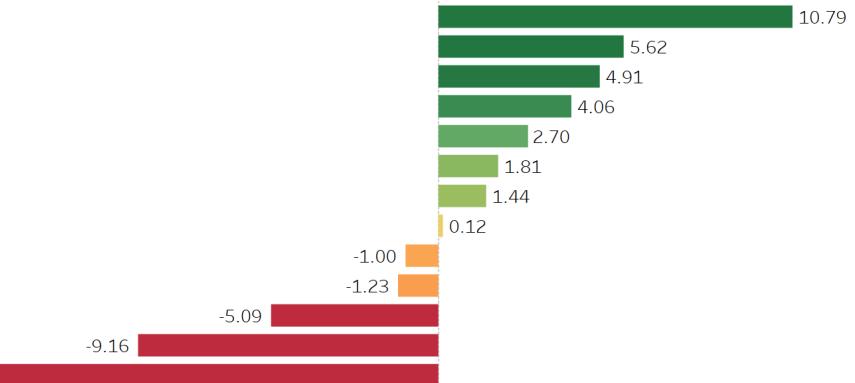
Usage Rate

#5 Foster, Marcus	39.4%
#24 Williams, Alex	30.9%
#11 Whitt, Carter	29.5%
#1 Pegues, JP	29.1%
#13 Hien, Garrett	26.9%
#0 Smith, Pjay	25.0%
#12 Molnar, Davis	20.8%
#4 VanderWal, Ben	20.6%
#15 Hughey, Tyrese	16.0%
#2 Bronson, Eddrin	15.7%
#10 Humphries, Tommy	15.2%
#21 Bowser, Cooper	13.3%



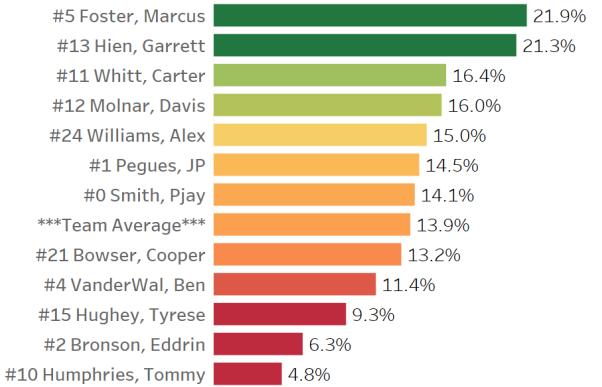
Defensive Rating

#0 Smith, Pjay
#21 Bowser, Cooper
#1 Pegues, JP
#12 Molnar, Davis
#11 Whitt, Carter
#10 Humphries, Tommy
#5 Foster, Marcus
Team Average
#13 Hien, Garrett
#4 VanderWal, Ben
#15 Hughey, Tyrese
#2 Bronson, Eddrin
#24 Williams, Alex

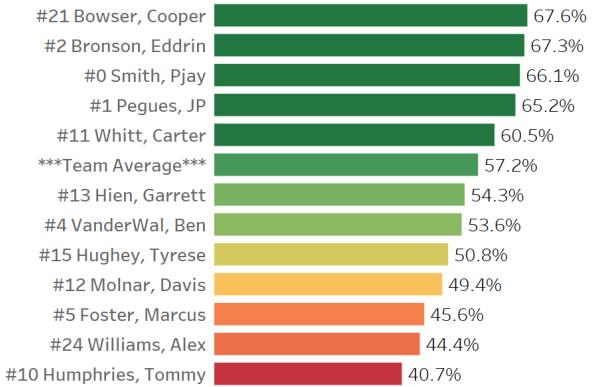


Effort

Paint%



Sprint%



Paint%

10.0% 20.0%

Sprint%

40.0% 60.0%

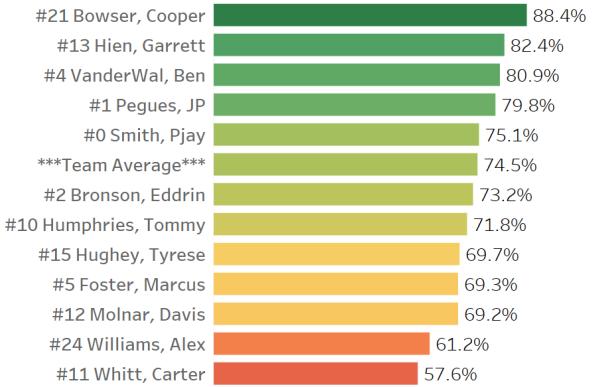
Crash%

50.0% 90.0%

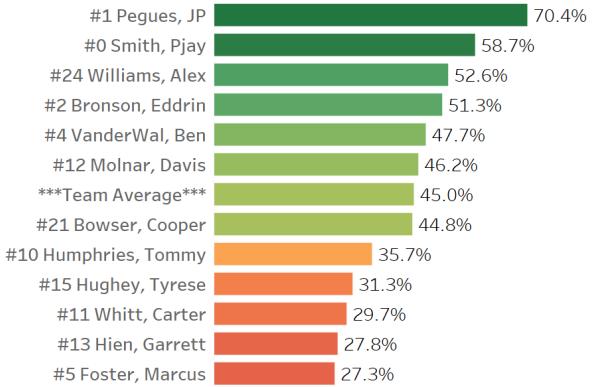
On-Ball D%

20.0% 60.0%

Crash%



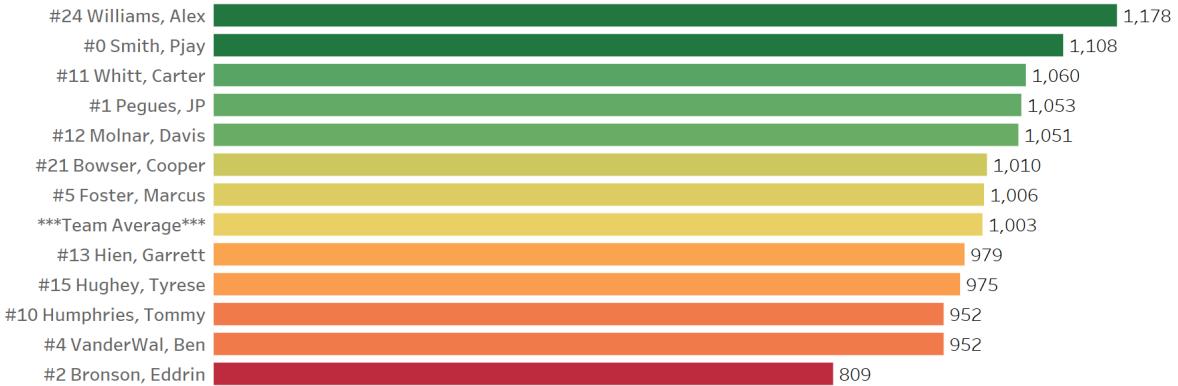
On-Ball Defense%



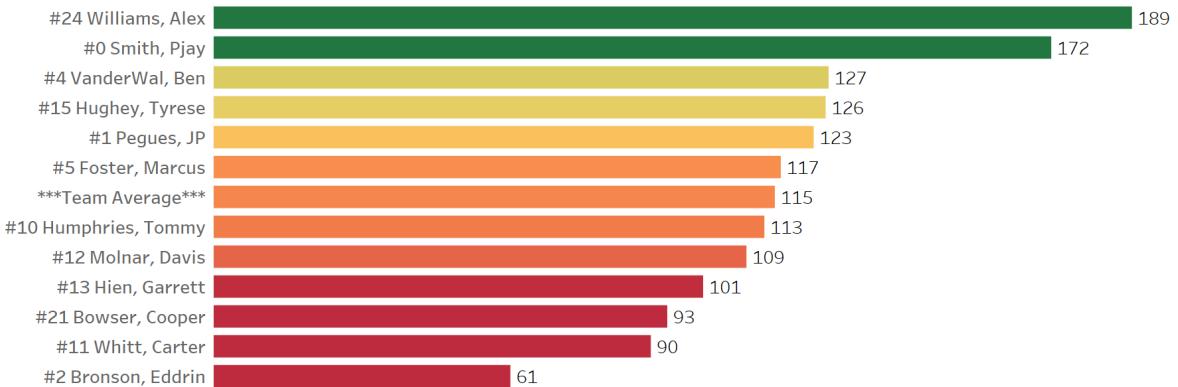


Effort (Kinexon)

Accumulated Acceleration Load



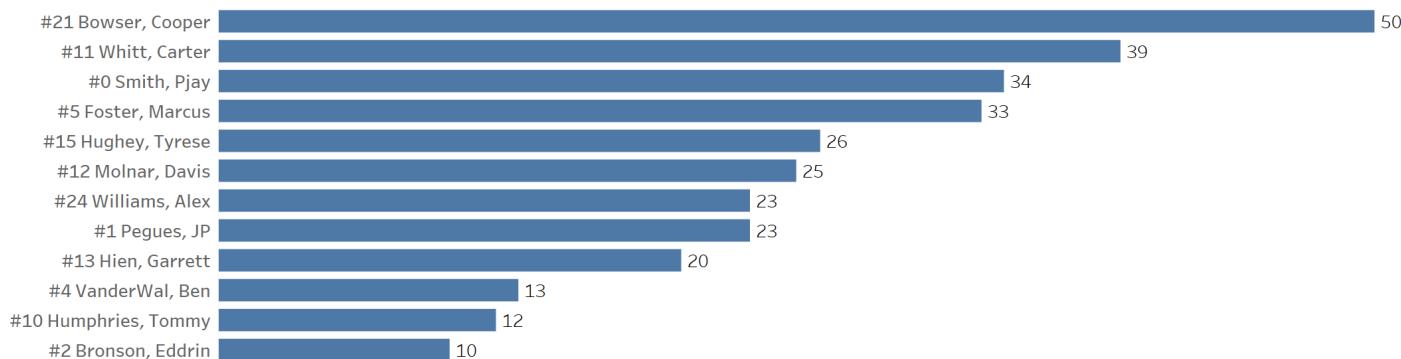
Exertions (High and Very High only)



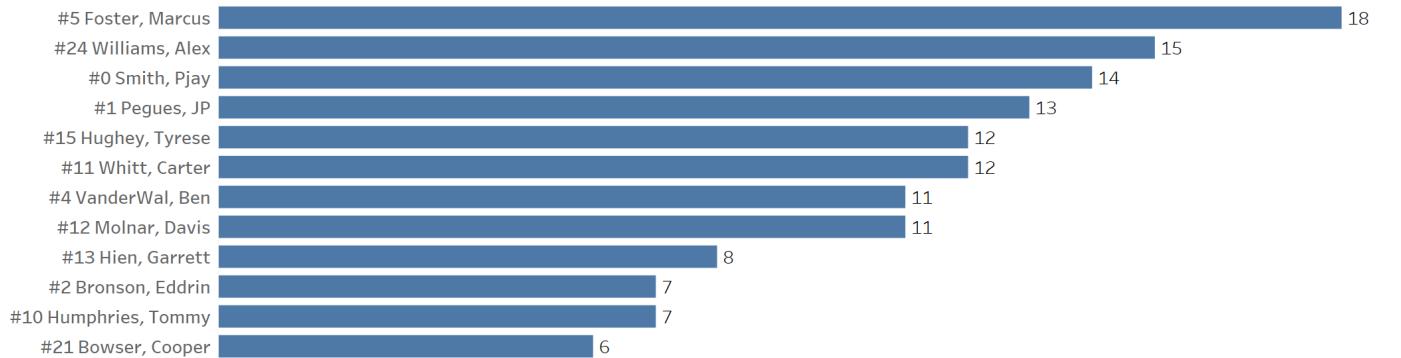


Raw Totals

Deflections



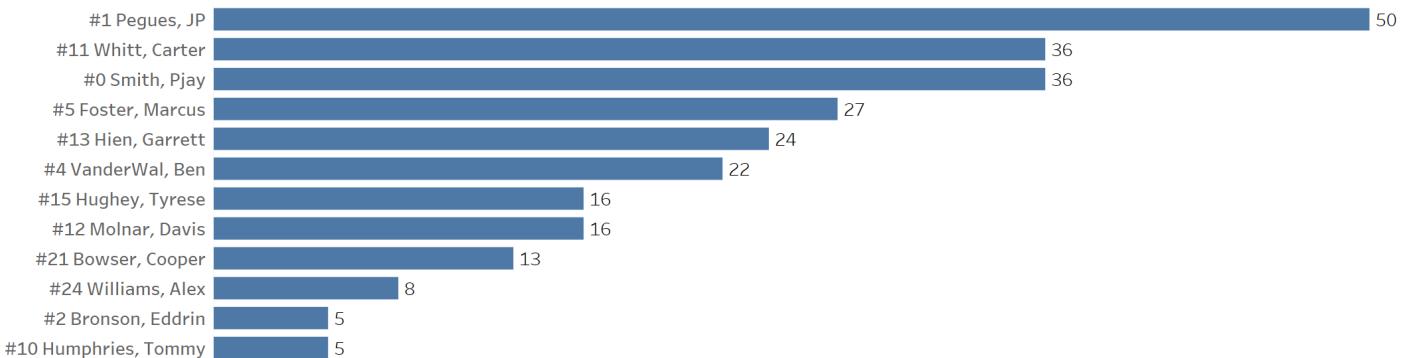
Steals



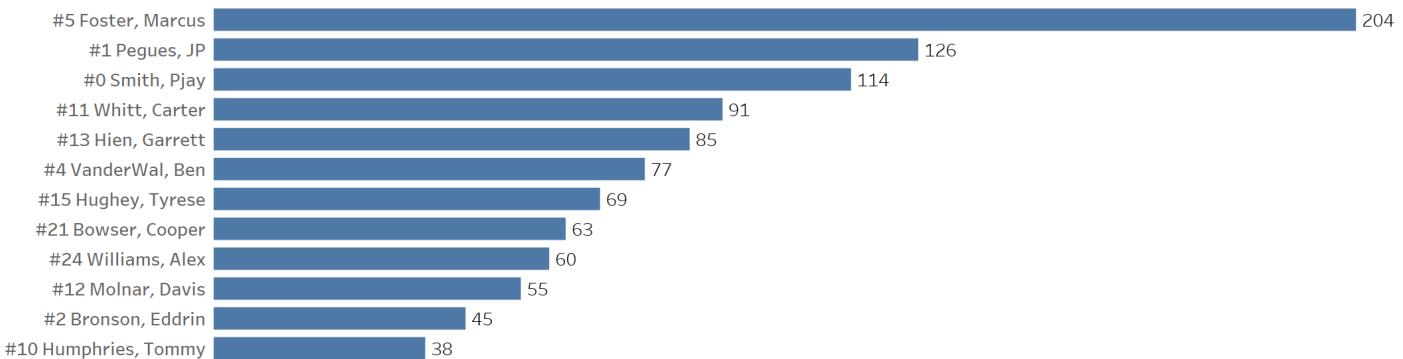


Raw Totals

Assists



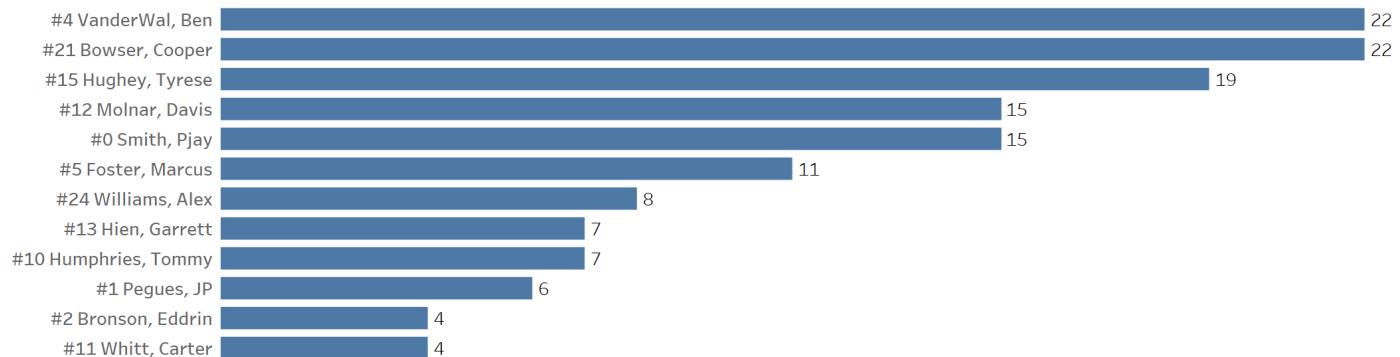
Points



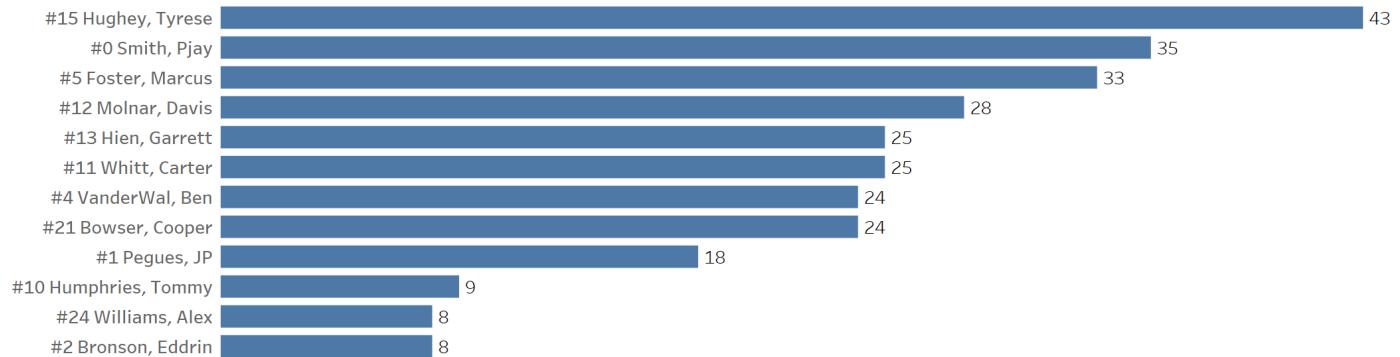


Raw Totals

Offensive Rebounds



Defensive Rebounds



Weekly Individual Stock Market

FALL SEASON: 10 PRACTICES IN
FURMAN BASKETBALL



Weekly Stock Market(10 Practices In VS 7 Practices In)

Percentages

	Current Report	Previous Report	Change
AST%	24.5%	24.5%	● 0.0%
EFG%	58.6%	64.5%	● -5.9%
3PT%	41.3%	47.5%	● -6.2%
FT Rate	16.1%	18.2%	● -2.1%
A-2PT%	77.8%	66.7%	● 11.1%
B-2PT%	33.3%	33.3%	● 0.0%
TO%	8.2%	7.4%	● 0.7%

#0 Smith, Pjay



Metrics

O Rating	140.2	148.3	● -8.1
D Rating	10.79	1.59	● 9.20
AST:TO	3.00	3.29	● -0.29
PPS	1.31	1.44	● -0.13
PPP	0.24	0.26	● -0.02
Defl/Pos	14.5	15.2	● -0.7
OReb/Pos	31.3	30.4	● 0.9
DReb/Pos	14.1	15.2	● -1.1

Weekly Stock Market(10 Practices In VS 7 Practices In)

Percentages

	Current Report	Previous Report	Change
AST%	26.9%	29.5%	-2.6%
EFG%	58.8%	58.5%	0.3%
3PT%	36.0%	32.3%	3.7%
FT Rate	16.5%	18.5%	-2.0%
A-2PT%	73.7%	76.9%	-3.2%
B-2PT%	57.1%	61.9%	-4.8%
TO%	12.9%	11.6%	1.3%

#1 Pegues, JP



Metrics

O Rating	136.2	140.0	-3.8
D Rating	4.91	3.88	1.04
AST:TO	2.08	2.53	-0.45
PPS	1.30	1.29	0.01
PPP	0.25	0.25	0.00
Defl/Pos	20.3	14.0	6.3
OReb/Pos	82.8	82.8	0.1
DReb/Pos	25.9	27.9	-2.0

Weekly Stock Market(10 Practices In VS 7 Practices In)

Percentages

	Current Report	Previous Report	Change
AST%	9.3%	12.1%	-2.9%
EFG%	48.7%	41.7%	7.1%
3PT%	33.3%	37.5%	-4.2%
FT Rate	20.5%	16.7%	3.8%
A-2PT%	50.0%	14.3%	35.7%
B-2PT%	0.0%	0.0%	0.0%
TO%	11.1%	12.1%	-1.0%

#2 Bronson, Eddrin



Metrics

O Rating	105.8	98.7	7.2
D Rating	-9.16	-9.30	0.14
AST:TO	0.83	1.00	-0.17
PPS	1.15	1.00	0.15
PPP	0.14	0.11	0.03
Defl/Pos	33.3	32.7	0.6
OReb/Pos	79.8	109.5	-29.8
DReb/Pos	41.6	32.7	8.9



Weekly Stock Market(10 Practices In VS 7 Practices In)

Percentages

	Current Report	Previous Report	Change
AST%	16.4%	17.4%	-1.0%
EFG%	38.2%	42.7%	-4.4%
3PT%	15.4%	20.0%	-4.6%
FT Rate	50.0%	53.7%	-3.7%
A-2PT%	63.0%	62.5%	0.5%
B-2PT%	0.0%		0.0%
TO%	5.2%	3.5%	1.7%

#4 VanderWal, Ben



Metrics

O Rating	114.6	126.6	-12.0
D Rating	-1.23	-3.88	2.65
AST:TO	3.14	5.00	-1.86
PPS	1.13	1.27	-0.14
PPP	0.16	0.17	-0.01
Defl/Pos	36.9	46.0	-9.1
OReb/Pos	21.5	19.1	2.4
DReb/Pos	20.0	26.8	-6.8

Weekly Stock Market(10 Practices In VS 7 Practices In)

Percentages

	Current Report	Previous Report	Change
AST%	11.1%	11.3%	-0.2%
EFG%	57.5%	63.9%	-6.4%
3PT%	41.5%	47.3%	-5.8%
FT Rate	20.3%	23.1%	-2.9%
A-2PT%	56.8%	60.0%	-3.2%
B-2PT%	44.4%	52.2%	-7.7%
TO%	10.7%	10.2%	0.5%

#5 Foster, Marcus



Metrics

O Rating	121.5	131.6	-10.1
D Rating	1.44	1.13	0.31
AST:TO	1.04	1.11	-0.07
PPS	1.33	1.48	-0.15
PPP	0.40	0.46	-0.06
Defl/Pos	13.7	13.9	-0.2
OReb/Pos	46.5	38.4	8.0
DReb/Pos	13.7	10.1	3.6

Weekly Stock Market(10 Practices In VS 7 Practices In)

Percentages

	Current Report	Previous Report	Change
AST%	11.1%	13.5%	-2.4%
EFG%	56.1%	68.5%	-12.5%
3PT%	44.0%	52.4%	-8.4%
FT Rate	3.0%	0.0%	3.0%
A-2PT%	33.3%	40.0%	-6.7%
B-2PT%	0.0%	0.0%	0.0%
TO%	13.3%	13.5%	-0.2%

#10 Humphries, Tommy



Metrics

O Rating	111.7	131.5	-19.8
D Rating	1.81	-2.53	4.34
AST:TO	0.83	1.00	-0.17
PPS	1.15	1.37	-0.22
PPP	0.14	0.17	-0.03
Defl/Pos	21.2	19.8	1.4
OReb/Pos	38.7	54.0	-15.3
DReb/Pos	28.2	33.0	-4.8

Weekly Stock Market(10 Practices In VS 7 Practices In)

Percentages

	Current Report	Previous Report	Change
AST%	22.8%	22.9%	-0.2%
EFG%	50.0%	54.5%	-4.5%
3PT%	31.3%	37.5%	-6.3%
FT Rate	22.4%	16.1%	6.3%
A-2PT%	81.8%	85.7%	-3.9%
B-2PT%	22.7%	27.8%	-5.1%
TO%	19.6%	19.3%	0.4%

#11 Whitt, Carter



Metrics

O Rating	116.2	119.1	-2.9
D Rating	2.70	-3.36	6.06
AST:TO	1.16	1.19	-0.03
PPS	1.20	1.21	-0.02
PPP	0.21	0.25	-0.04
Defl/Pos	11.5	11.8	-0.3
OReb/Pos	107.0	89.3	17.7
DReb/Pos	17.9	21.8	-3.8

Weekly Stock Market(10 Practices In VS 7 Practices In)

Percentages

	Current Report	Previous Report	Change
AST%	20.3%	14.6%	● 5.7%
EFG%	48.9%	54.8%	● -5.9%
3PT%	33.3%	0.0%	● 33.3%
FT Rate	29.8%	25.8%	● 4.0%
A-2PT%	47.2%	58.3%	● -11.1%
B-2PT%	60.0%	75.0%	● -15.0%
TO%	10.1%	12.5%	● -2.4%

#12 Molnar, Davis



Metrics

O Rating	119.6	118.5	● 1.1
D Rating	4.06	-4.65	● 8.71
AST:TO	2.00	1.17	● 0.83
PPS	1.17	1.29	● -0.12
PPP	0.17	0.25	● -0.08
Defl/Pos	14.1	15.6	● -1.5
OReb/Pos	21.3	17.7	● 3.6
DReb/Pos	12.6	11.0	● 1.6

Weekly Stock Market(10 Practices In VS 7 Practices In)

Percentages

	Current Report	Previous Report	Change
AST%	16.5%	13.3%	● 3.2%
EFG%	58.3%	55.6%	● 2.8%
3PT%	35.0%	26.7%	● 8.3%
FT Rate	16.7%	8.3%	● 8.3%
A-2PT%	71.4%	81.3%	● -9.8%
B-2PT%	16.7%	20.0%	● -3.3%
TO%	16.5%	16.7%	● -0.2%

#15 Hughey, Tyrese



Metrics

O Rating	118.1	107.8	● 10.3
D Rating	-5.09	-10.41	● 5.32
AST:TO	1.00	0.80	● 0.20
PPS	1.28	1.14	● 0.14
PPP	0.14	0.12	● 0.02
Defl/Pos	17.4	16.2	● 1.2
OReb/Pos	26.1	41.4	● -15.3
DReb/Pos	10.5	13.3	● -2.8

Weekly Stock Market(10 Practices In VS 7 Practices In)

Percentages

	Current Report	Previous Report	Change
AST%	15.5%	12.8%	● 2.7%
EFG%	70.5%	73.8%	● -3.3%
3PT%	100.0%	100.0%	● 0.0%
FT Rate	35.9%	38.1%	● -2.2%
A-2PT%	79.3%	85.7%	● -6.4%
B-2PT%	33.3%	33.3%	● 0.0%
TO%	19.0%	27.7%	● -8.6%

Metrics

O Rating	125.8	114.8	● 11.0
D Rating	5.62	-0.91	● 6.53
AST:TO	0.81	0.46	● 0.35
PPS	1.62	1.71	● -0.10
PPP	0.13	0.11	● 0.02
Defl/Pos	9.5	9.0	● 0.5
OReb/Pos	22.4	25.8	● -3.4
DReb/Pos	19.8	21.9	● -2.1

#21 Bowser, Cooper



Weekly Stock Market(10 Practices In VS 7 Practices In)

Percentages

	Current Report	Previous Report	Change
AST%	9.9%	13.0%	-3.2%
EFG%	50.0%	35.7%	14.3%
3PT%	34.3%	25.0%	9.3%
FT Rate	14.3%	28.6%	-14.3%
A-2PT%	60.0%	50.0%	10.0%
B-2PT%	16.7%	0.0%	16.7%
TO%	9.9%	8.7%	1.2%

#24 Williams, Alex



Metrics

O Rating	104.1	91.5	12.7
D Rating	-13.44	-36.70	23.27
AST:TO	1.00	1.50	-0.50
PPS	1.07	0.86	0.21
PPP	0.26	0.18	0.09
Defl/Pos	11.1	10.1	1.0
OReb/Pos	28.4	16.8	11.6
DReb/Pos	32.0		0.0

Yearly Individual Stock Market

FALL SEASON: 10 PRACTICES IN
FURMAN BASKETBALL



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Yearly Stock Market (First 10 Practices Both Years)

Percentages

	2022	2023	Change
AST%	25.2%	26.9%	1.7%
EFG%	56.1%	58.8%	2.7%
3PT%	32.7%	36.0%	3.3%
A-2PT%	69.0%	73.7%	4.7%
B-2PT%	55.6%	57.1%	1.6%
TO%	12.6%	12.9%	0.3%

#1 Pegues, JP



Metrics

O Rating	129.3	136.2	7.0
AST:TO	2.00	2.08	0.08
PPS	1.19	1.30	0.11
PPP	0.21	0.25	0.05
Defl/Pos	21.6	20.3	-1.3
OReb/Pos	143.0	82.8	-60.2
DReb/Pos	17.6	25.9	8.3

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Yearly Stock Market (First 10 Practices Both Years)

Percentages

	2022	2023	Change
AST%	15.6%	16.4%	0.8%
EFG%	65.8%	38.2%	-27.6%
3PT%	36.1%	15.4%	-20.7%
A-2PT%	85.7%	63.0%	-22.8%
B-2PT%		0.0%	0.0%
TO%	10.4%	5.2%	-5.2%

#4 VanderWal, Ben



Metrics

O Rating	134.6	114.6	-20.0
AST:TO	1.50	3.14	1.64
PPS	1.42	1.13	-0.29
PPP	0.17	0.16	-0.01
Defl/Pos	12.5	36.9	24.4
OREb/Pos	31.1	21.5	-9.6
DReb/Pos	12.9	20.0	7.1

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Yearly Stock Market (First 10 Practices Both Years)

Percentages

	2022	2023	Change
AST%	14.6%	11.1%	● -3.6%
EFG%	52.2%	57.5%	● 5.3%
3PT%	35.2%	41.5%	● 6.3%
A-2PT%	59.0%	56.8%	● -2.2%
B-2PT%	38.1%	44.4%	● 6.3%
TO%	15.9%	10.7%	● -5.2%

#5 Foster, Marcus



Metrics

O Rating	110.2	121.5	● 11.3
AST:TO	0.92	1.04	● 0.12
PPS	1.18	1.33	● 0.15
PPP	0.23	0.40	● 0.17
Defl/Pos	10.2	13.7	● 3.5
OReb/Pos	44.8	46.5	● 1.7
DReb/Pos	12.9	13.7	● 0.8

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Yearly Stock Market (First 10 Practices Both Years)

Percentages

	2022	2023	Change
AST%	25.6%	22.8%	-2.8%
EFG%	37.3%	50.0%	12.7%
3PT%	26.8%	31.3%	4.4%
A-2PT%	41.7%	81.8%	40.2%
B-2PT%	20.0%	22.7%	2.7%
TO%	27.1%	19.6%	-7.4%

#11 Whitt, Carter



Metrics

O Rating	97.5	116.2	18.7
AST:TO	0.94	1.16	0.22
PPS	0.84	1.20	0.36
PPP	0.11	0.21	0.10
Defl/Pos	13.5	11.5	-2.0
OReb/Pos	97.2	107.0	9.8
DReb/Pos	25.6	17.9	-7.7

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Yearly Stock Market (First 10 Practices Both Years)

Percentages

	2022	2023	Change
AST%	17.3%	20.3%	+3.0%
EFG%	64.0%	48.9%	-15.1%
3PT%	40.0%	33.3%	-6.7%
A-2PT%	66.7%	47.2%	-19.4%
B-2PT%	60.0%	60.0%	0.0%
TO%	21.0%	10.1%	-10.9%

#12 Molnar, Davis



Metrics

O Rating	119.2	119.6	+0.4
AST:TO	0.82	2.00	+1.18
PPS	1.30	1.17	-0.13
PPP	0.18	0.17	-0.01
Defl/Pos	20.0	14.1	-5.9
OReb/Pos	18.9	21.3	+2.3
DReb/Pos	18.9	12.6	-6.4

Yearly Stock Market (First 10 Practices Both Years)

Percentages

	2022	2023	Change
AST%	25.2%	23.5%	-1.7%
EFG%	63.7%	71.4%	7.7%
3PT%	37.5%	53.3%	15.8%
A-2PT%	65.5%	82.1%	16.6%
B-2PT%	77.8%	38.5%	-39.3%
TO%	16.8%	10.8%	-6.0%

#13 Hien, Garrett



Metrics

O Rating	131.6	145.0	13.4
AST:TO	1.50	2.18	0.68
PPS	1.39	1.52	0.13
PPP	0.17	0.28	0.11
Defl/Pos	13.2	17.1	3.8
OReb/Pos	38.6	43.0	4.4
DReb/Pos	15.7	13.6	-2.0

Yearly Stock Market (First 10 Practices Both Years)

Percentages

	2022	2023	Change
AST%	23.9%	16.5%	● -7.4%
EFG%	63.7%	58.3%	● -5.4%
3PT%	25.0%	35.0%	● 10.0%
A-2PT%	87.5%	71.4%	● -16.1%
B-2PT%	57.1%	16.7%	● -40.5%
TO%	18.2%	16.5%	● -1.7%

#15 Hughey, Tyrese



Metrics

O Rating	129.6	118.1	● -11.5
AST:TO	1.00	1.00	● 0.00
PPS	1.33	1.28	● -0.06
PPP	0.17	0.14	● -0.03
Defl/Pos	11.3	17.4	● 6.1
OREb/Pos	23.8	26.1	● 2.3
DReb/Pos	14.5	10.5	● -4.0

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Yearly Stock Market (First 10 Practices Both Years)

Percentages

	2022	2023	Change
AST%	11.8%	9.9%	-2.0%
EFG%	58.7%	50.0%	-8.7%
3PT%	39.5%	34.3%	-5.2%
A-2PT%	66.7%	60.0%	-6.7%
B-2PT%	40.0%	16.7%	-23.3%
TO%	14.0%	9.9%	-4.1%

#24 Williams, Alex



Metrics

O Rating	116.2	104.1	-12.1
AST:TO	0.85	1.00	0.15
PPS	1.23	1.07	-0.16
PPP	0.20	0.26	0.06
Defl/Pos	11.1	11.1	0.0
OReb/Pos	38.5	28.4	-10.1
DReb/Pos	19.7	32.0	12.3

Results

- Made Tableau system 4x faster (Many improvements carry over to new system as well)
- Built interactive website for Furman Basketball Statistics
- Website is more interactive, distributable, efficient, and scalable than the old system
- Helped coaches identify, correct, and communicate team strengths, weaknesses, and player roles

Future

- Add more interactivity options to the website
- Transition all visuals in Tableau to the website
- Include more statistical analysis (outliers, trendlines, correlations, etc.)
- Pitch to clients once product is final and build a business with multiple clients paying for me to run their websites