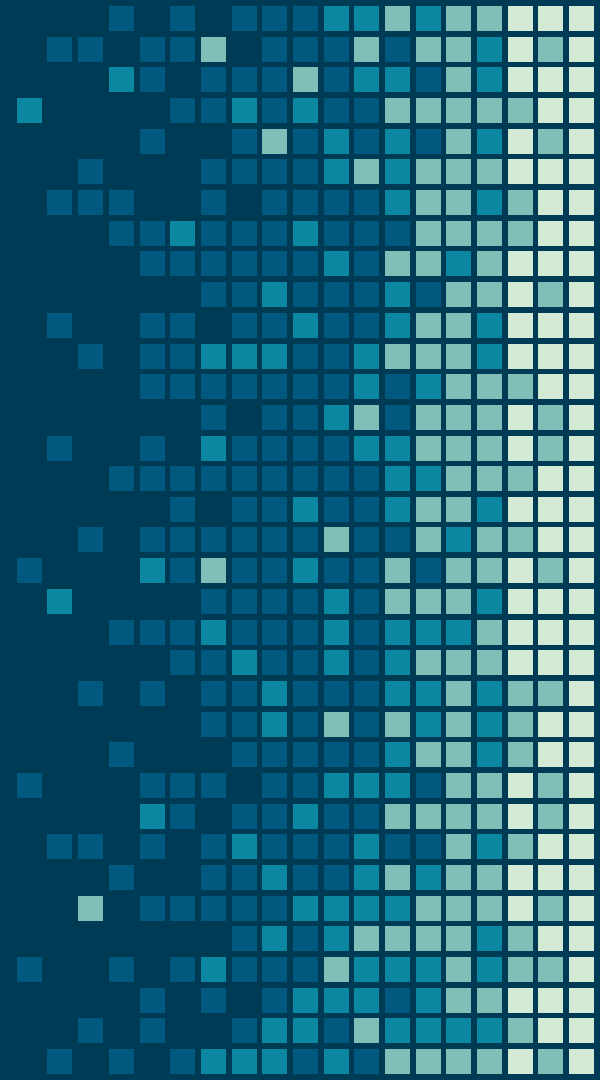


2021
PROVISIONAL
FELLOWS
PRESENTATION

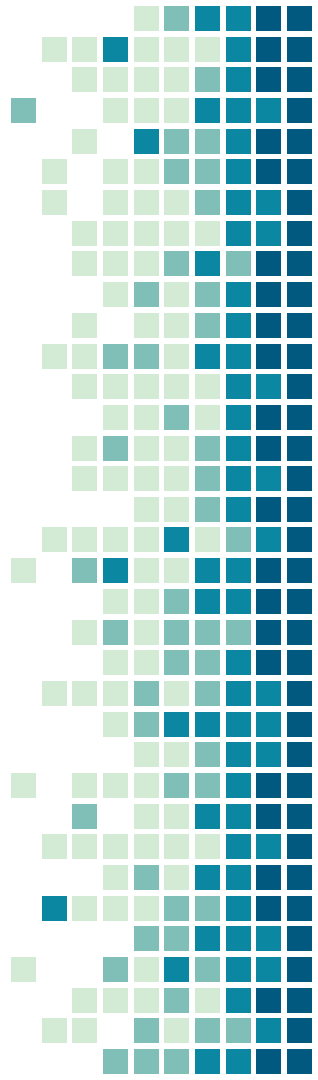
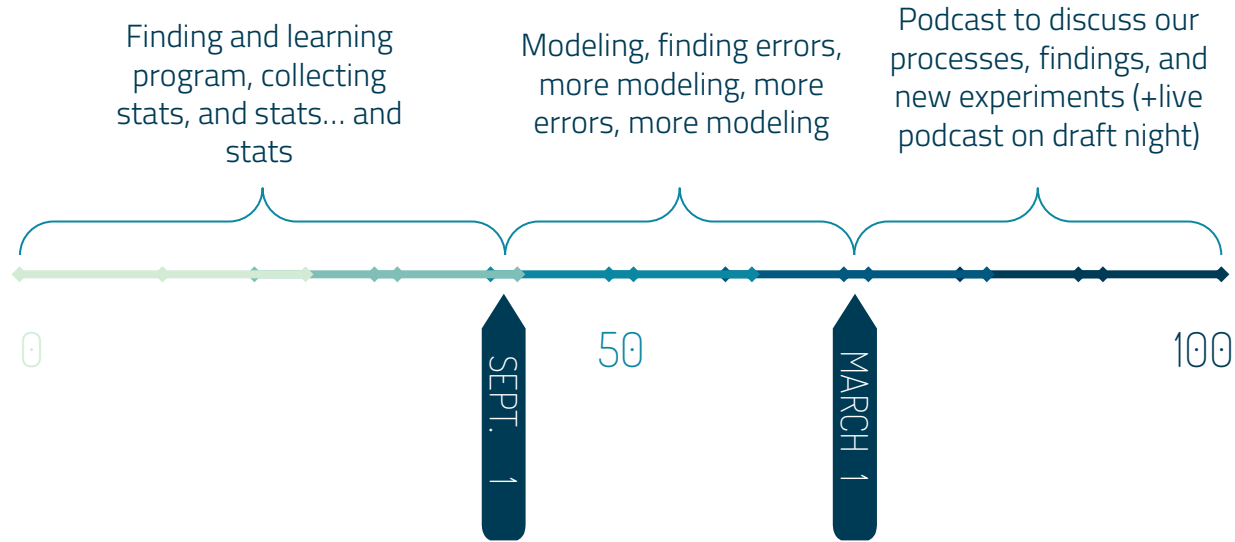




APPROVED!!

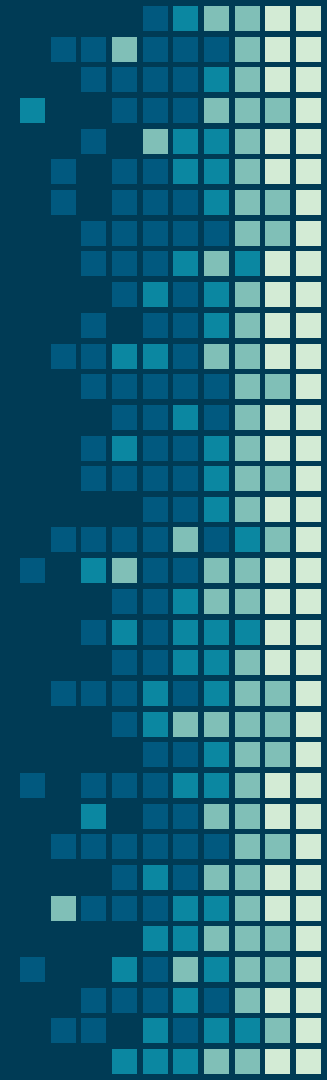


WHAT'S EXPECTED?



WHERE TO BEGIN?

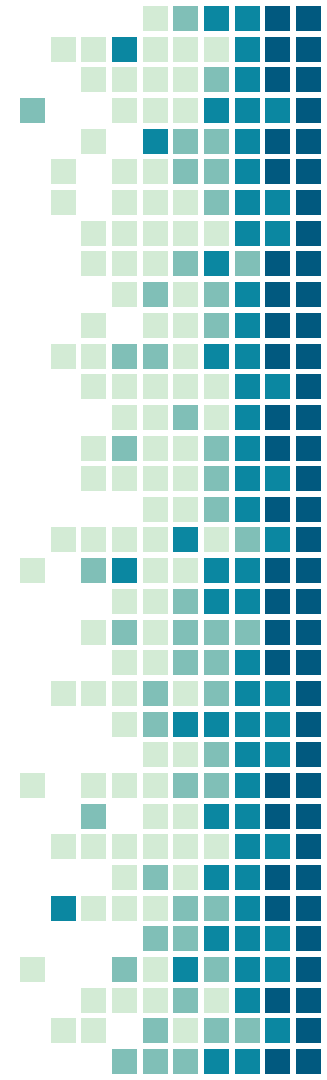
Leadership Lab - June 9

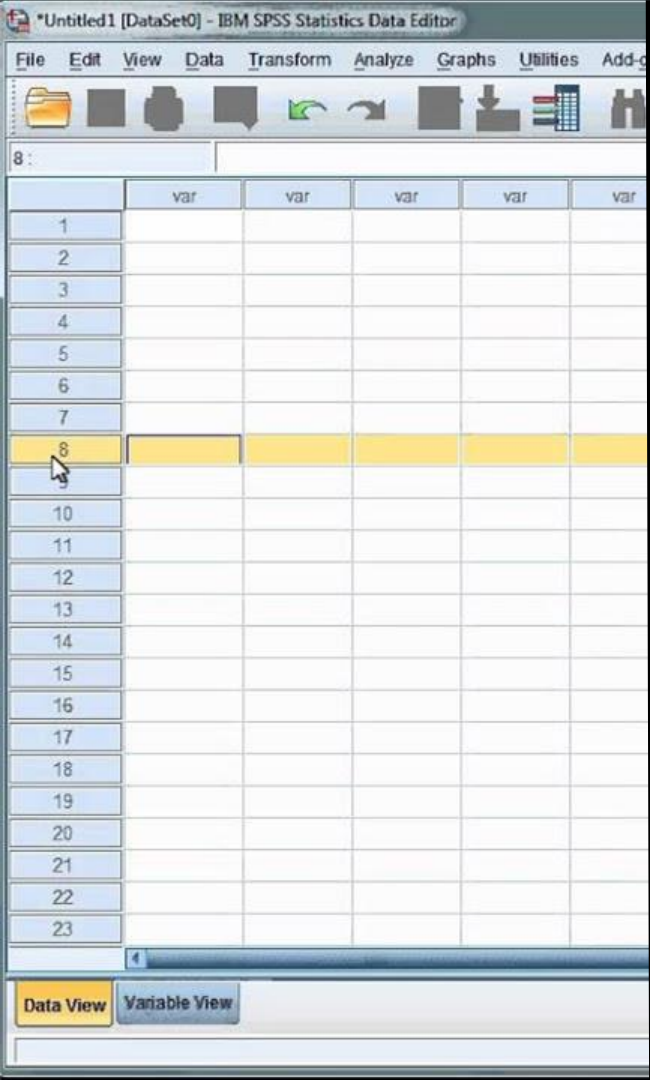


FINDING OUR PROGRAM

- Tons of modeling programs
- What did we even need?
- Money

We also decided that Pro Football Focus would have our standard of success and a go-to database

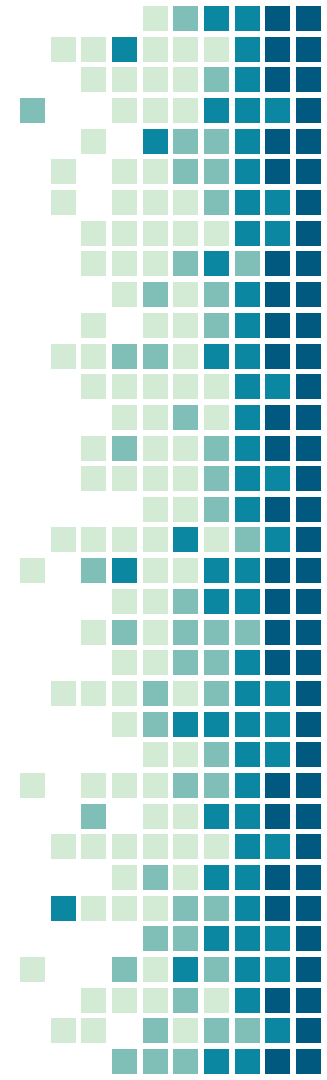




SETTLING ON



- Easy-to-learn interface
- Not coding dependent
- Plenty of capabilities



SPSS Introduction and Practice Runs

- YouTube tutorials
- Messing around with the different tools
- Running back test run

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	Measure	Role
1	Name	String	20	0		None	None	8	Left	Nominal	Input
2	PFF	Numeric	8	4	PFF	None	None	8	Right	Scale	Input
3	ScrimYards	Numeric	8	0	ScrimYards	None	None	8	Right	Scale	Input
4	YPC	Numeric	8	2	YPC	None	None	8	Right	Scale	Input
5	TD	Numeric	8	0	TD	None	None	8	Right	Scale	Input
6	YPR	Numeric	8	2	YPR	None	None	8	Right	Scale	Input
7	Fumble	Numeric	8	0	Fumble	None	None	8	Right	Scale	Input

	Name	PFF	ScrimYards	YPC	TD	YPR	Fumble	var
1	Trent Rich...	.	.	.	.	.	.	.
2	Doug Martin	.	.	.	.	.	.	.
3	David Wilson	.	.	.	.	.	.	.
4	Isaiah Pead	.	.	.	.	.	.	.
5	LaMichael J...	.	.	.	.	.	.	.
6	Ronnie Hill...	.	.	.	.	.	.	.
7	Bernard Pie...	.	.	.	.	.	.	.
8	Lamar Miller	.	.	.	.	.	.	.
9	Robert Tur...	.	.	.	.	.	.	.
10	Bradie Ewing	.	.	.	.	.	.	.
11	Chris Rainey	.	.	.	.	.	.	.
12	Alfred Mor...	.	.	.	.	.	.	.
13	Cyrus Gray	.	.	.	.	.	.	.
14	Dan Herron	.	.	.	.	.	.	.
15	Terrance G...	.	.	.	.	.	.	.
16	Michael Sm...	.	.	.	.	.	.	.
17		.	.	.	.	.	.	.
18		.	.	.	.	.	.	.

MEETING 1 WITH Dr. Groves

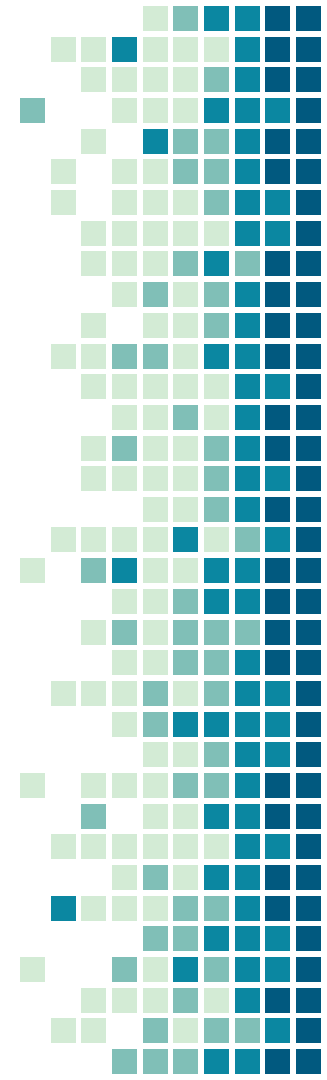


Dr. Melissa Groves

Associate Professor of
Economics

Towson University

- Introductory Meeting
- Explaining the project
- New experience for us
- Working with SPSS
- New Directions



Starting collecting combine stats

- Began using NFL Databases to collect combine stats
- NFL Combine Results and Full Time Fantasy

2012 NFL Combine Results: Quarterbacks

QB	RB	WR	TE	OL	DT	DE	LB	CB	SS	FS	ST
NAME	SCHOOL	40-YARD DASH	BENCH PRESS	VERTICAL JUMP	20-YARD SHUTTLE	60-YARD SHUTTLE	BROAD JUMP				
B.J. Coleman	Chattanooga				4.38	7.07	9'1				
Aaron Corp	Richmond	4.72		31.5	4.30	7.03	8'10				
Kirk Cousins	Michigan State	4.93		28.5	4.50	7.05	9'1				
Austin Davis	Southern Miss	4.76		31.0	4.11	6.73	9'1				
Nick Foles	Arizona	5.14		30.5			9'4				
Robert Griffin	Baylor	4.41		39.0			10'0				
Chandler Harnish	Northern Illinois	4.76		32.5	4.15	6.78	9'4				
Jacory Harris	Miami	4.72		37.0	4.40	7.10	9'5				

Pro Football Focus

- How score is created
- Why we use PFF grades
- Qualifying seasons
- Average best seasons

Kirk Cousins
QB #8

DOB: 1988-08-19 (33) | HEIGHT: 6'3" | WEIGHT: 202 | SPEED: 4.93 | COLLEGE: Michigan State Spartans

Weekly Grades

WEEK	#	TEAM	POS	D	SNAP COUNTS					GRADES							
					TOT	PASG	PBLK	RUN	RBLK	DEF	PASG	PBLK	RUN	RBLK	PEN		
8		ATL	QB	P	13	10	0	0	3	80.6	80.3	-	-	-	60.0	0(0)	
14		BLT	QB	P	7	3	0	1	3	66.4	52.2	-	-	-	41.9	60.0	0(0)
15		CLV	QB	S	75	42	0	1	32	81.5	79.2	-	-	-	72.9	60.0	1(0)
WC		SEA	QB	P	11	10	0	1	0	62.5	62.9	-	-	-	60.0	0(0)	
					106	65	0	3	38	80.9	78.4	-	-	-	74.3	60.0	1(0)

Season Grades

SEASON	TEAM	TOT	PASG	PBLK	RUN	RBLK	DEF	GRADES				
								PASG	PBLK	RUN	RBLK	PEN
2020	MNF	1,202	613	0	15	422	80.4	80.6	-	79.2	60.0	6(0)
2019	MNF	1,090	587	2	24	477	84.2	65.4	79.7	30.5	48.0	1(0)
2018	MNF	1,251	705	0	25	321	79.3	79.2	-	81.4	68.0	2(0)
2017	WAS	1,508	626	0	25	357	70.0	68.7	-	65.3	68.0	6(0)
2016	WAS	1,040	675	0	26	359	80.6	80.0	-	82.3	60.2	2(0)
2015	WAS	1,096	668	1	23	404	70.8	71.1	61.3	52.8	60.0	6(0)
2014	WAS	362	228	0	6	128	58.1	60.1	-	45.5	60.0	4(0)
2013	WAS	240	165	0	2	73	51.4	54.5	-	42.8	60.0	3(0)
2012	WAS	106	65	0	3	38	80.9	78.4	-	74.3	60.0	1(0)

Season Grades

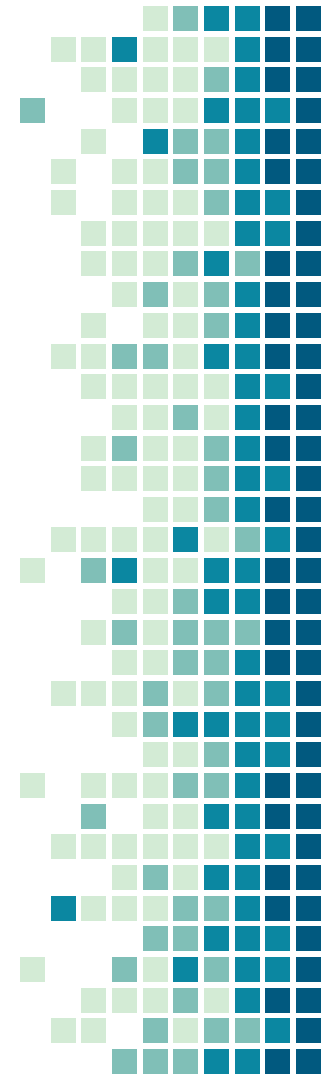
SEASON	TE...	SNAP COUNTS				GRADES				
		TOT	RDEF	PRSH	COV	DEF	RDEF	TACK	PRSH	COV
2020	LAC	788	306	2	480	59.5	54.6	48.2	55.5	59.5
2019	LAC	944	400	0	544	83.0	72.7	59.2	-	83.0
2018	LAC	1,157	423	1	733	75.9	72.7	70.4	66.0	74.5
2017	LAC	1,003	396	1	606	91.1	51.7	54.8	58.8	92.1
2016	LAC	988	355	2	631	82.8	72.1	67.9	57.3	83.6
2015	GB	1,042	344	31	667	75.7	68.4	67.8	49.5	77.5
2014	GB	462	121	24	317	88.8	86.0	54.0	75.4	86.0
2013	GB	87	35	5	47	72.4	72.1	47.1	45.4	73.2
2012	GB	748	204	42	502	91.5	83.6	82.1	39.1	91.6
		7,219	2,584	108	4,527					

College stats, 2010/2011

- Sportsreference.com
- 2012 total stats
- Export to excel, picked out 2012 draftees

Rk	Player	School	Conf	Passing								Rushing					
				G	Cmp	Att	Pct	Yds	Y/A	TD	Int	Rate	Att	Yds	Avg	TD	
1	Aaron Murray*	Georgia	SEC	14	249	386	64.5	3893	10.1	10.8	36	10	174.8	59	-68	-1.2	3
2	Nick Florence*	Baylor	Big 12	13	286	464	61.6	4309	9.3	9.4	33	13	157.5	139	568	4.1	10
3	David Fales*	San Jose State	WAC	13	327	451	72.5	4193	9.3	9.9	33	9	170.8	42	-139	-3.3	0
4	A.J. McCarron*	Alabama	SEC	14	211	314	67.2	2933	9.3	10.8	30	3	175.3	49	4	0.1	1
5	Tajh Boyd*	Clemson	ACC	13	287	427	67.2	3896	9.1	9.4	36	13	165.6	186	514	2.8	10
6	Terrance Broadway*	Louisiana	Sun Belt	13	206	315	65.4	2947	9.0	8.8	17	9	153.4	119	769	6.5	9
7	Teddy Bridgewater*	Louisville	Big East	13	287	419	68.5	3718	8.9	9.3	27	8	160.5	74	26	0.4	1
8	E.J. Manuel*	Florida State	ACC	14	263	387	68.0	3397	8.8	8.8	23	10	156.1	103	310	3.0	4
9	Colton Hahn*	Kansas State	Big 12	13	197	304	64.8	2441	8.7	8.4	16	9	149.2	207	920	4.4	22
10	Brett Smith	Northwestern	Midwest	10	205	330	62.1	2837	8.6	9.4	27	6	157.7	114	249	2.2	6
11	Connor Shaw*	South Carolina	SEC	11	154	228	67.5	1956	8.6	8.7	17	7	158.1	131	435	3.3	3
12	Johnny Manziel*	Texas A&M	SEC	13	295	434	68.0	3706	8.5	8.8	26	9	155.3	201	1410	7.0	21
13	Matt Barkley*	USC	Pac-12	11	246	387	63.6	3273	8.5	8.6	36	15	157.6	25	-72	-2.9	0
14	Taylor Kelly*	Arizona State	Pac-12	13	241	359	67.1	3039	8.5	9.0	29	9	159.9	134	516	3.9	2
15	David Ash*	Texas	Big 12	12	214	318	67.3	2699	8.5	8.6	19	8	153.3	51	141	2.8	2
16	Tyler Wilson	Arkansas	SEC	11	249	401	62.1	3387	8.4	8.0	21	13	143.8	41	7	0.2	0
17	Tino Sunnett*	Ritt	Big East	13	256	393	65.1	3288	8.4	9.1	21	3	151.5	68	-191	-2.8	1
18	Chuck Keeton*	Utah State	WAC	13	275	407	67.6	3373	8.3	8.6	27	9	154.7	129	619	4.8	8
19	Ryan Aolin*	Arkansas State	Sun Belt	13	276	406	68.0	3342	8.2	9.0	24	4	154.7	104	438	4.2	6
20	Geno Smith*	West Virginia	Big 12	13	369	518	71.2	4205	8.1	9.2	42	6	163.9	66	151	2.3	2

Rk	Player	School	Conf	Passing								Rushing					
				G	Cmp	Att	Pct	Yds	Y/A	TD	Int	Rate	Att	Yds	Avg	TD	
24	A.J. McCarron*	Alabama	SEC	13	219	328	66.8	2634	8	8.3	16	5	147.3	30	-22	-0.7	2
33	Aaron Murray*	Georgia	SEC	14	238	403	59.1	3149	7.8	8	35	14	146.4	87	111	1.3	2
36	Alex Carder*	Western Michigan	MAC	12	330	502	65.7	3873	7.7	7.7	31	14	145.3	128	270	2.1	4
42	Alex Gillett	Eastern Michigan	MAC	12	309	398	55.1	3504	7.6	7.4	14	7	135.1	169	736	4.4	3
7	Andrew Luck*	Stanford	Pac-12	13	288	404	71.3	3517	8.7	9.4	27	10	160.7	47	150	3.2	2
47	Austin Davis*	Southern Mississippi	CUSA	14	286	475	60.2	3496	7.4	7.6	30	11	138.2	110	352	3.2	4
59	B.J. Daniels	South Florida	Big East	11	215	365	58.9	2890	7.1	7	13	7	126.7	132	601	4.6	6
86	B.R. Holbrook	New Mexico	MWC	11	141	236	59.7	1490	6.3	5.3	4	7	112.4	60	93	1.6	1
8	Blaine Gautier*	Louisiana	Sun Belt	13	216	344	63.8	2958	8.6	9.2	23	6	153.6	118	486	4.1	3
14	Brandon Weeden*	Oklahoma State	Big 12	13	409	655	72.4	4727	8.4	8.4	37	13	159.7	17	-102	-6	1
84	Brett Smith*	Wyoming	MWC	13	253	415	61	2622	6.3	6.1	20	11	124.6	139	710	5.1	10
97	Brian Reader	Idaho	WAC	11	192	354	54.2	1974	5.6	4.6	10	12	103.6	48	-18	-0.4	0
31	Brian Osweiler*	Arizona State	Pac-12	13	326	516	63.2	4036	7.8	7.7	26	13	140.5	83	90	1.1	3
67	Bryant Moniz	Hawaii	WAC	10	248	397	62.5	2733	6.9	7.4	22	5	135.1	81	293	3.6	8
4	Bryn Renner*	North Carolina	ACC	13	239	350	68.3	3086	8.8	8.6	26	13	159.4	57	-88	-1.5	1
101	Caleb Herring	UNLV	MWC	10	113	206	54.9	1004	4.9	4.3	8	6	102.8	86	119	1.4	2
68	Caleb TerBush*	Purdue	Big Ten	13	171	277	61.7	1905	6.9	6.8	13	6	130.7	83	219	2.6	1
3	Case Keenum*	Houston	CUSA	14	428	603	71	5631	9.3	10.6	48	5	174	57	35	0.6	3
11	Casey Pachall*	Texas Christian	MWC	13	228	343	66.5	2921	8.5	9.1	25	7	158	68	51	0.8	2
15	Chandler Harnish*	Northern Illinois	MAC	14	237	384	61.7	3216	8.4	9.1	28	6	153	194	1379	7.1	11
88	Chase Rettig	Boston College	ACC	12	170	317	53.6	1960	6.2	5.7	12	9	112.4	41	-84	-2	1
93	Chazz Anderson	Buffalo	MAC	12	230	406	56.7	2454	6	5.6	11	9	111.9	85	309	3.6	7
98	Clayton Moore	Airton	MAC	12	147	309	47.6	1659	5.4	4.6	9	9	96.3	91	132	1.5	1
34	Colby Fajardo*	Nevada	WAC	10	150	218	68.8	1700	7.8	7.1	6	6	138.2	128	694	5.4	11
72	Collin Klein*	Kansas State	Big 12	13	161	281	57.3	1918	6.8	6.8	13	6	125.6	317	1141	3.6	27
76	Corey Robinson	Troy	Sun Belt	12	316	508	62.2	3411	6.7	6.2	21	15	126.3	46	-78	-1.7	1
25	Dan Persa*	Northwestern	Big Ten	10	218	297	73.4	2376	8	8.1	17	7	154.8	79	32	0.4	1
89	Danny O'Brien	Maryland	ACC	9	150	266	56.4	1668	6.2	5	7	10	100.6	33	57	1.7	2
22	Darron Thomas*	Oregon	Pac-12	13	211	339	62.2	2761	8.1	9.2	33	7	158.7	56	206	3.7	3
16	Denard Robinson*	Michigan	Big Ten	13	142	258	55	2173	8.4	7.4	20	15	139.7	221	1176	5.3	16
27	Derek Carr	Fresno State	WAC	13	279	446	62.6	3544	7.9	8.2	26	9	144.5	57	72	1.3	3
83	Derek Thompson	North Texas	Sun Belt	11	157	272	57.7	1759	6.5	6.3	11	6	121	50	113	2.3	3



Full Excel Sheet

- Separated by position
- Categories:
 - NFL Combine
 - PFF Score/Qualifying years
 - College Statistics

Class	Position	Name	PFF Score	Years Qualified	40 Yard Dash	Benchpress	Vertical Jump	Three Cone Drill	20 Yard Shuttle	Broad Jump	Wonderlic	Games	Completions
		R.J. Coleman	DNP	0			31.5	7.07		4.39	91		
		Karen Corp	DNP	0	4.72			7.03	4.1	87.08			
		Kirk Cousins	81.68	5	4.93	21	28.5	7.05	4.5	91	33	14	
		Austin Davis	59.9	7	4.76	21	4.76	6.73	4.11	91		14	
		Nick Foles	72.36	5	5.14	30.5				94	29	12	
		Robert Griffin	63.13	2	4.41	39				1070	14	14	
		Chandler Hurnish		0	4.76	21.5	29	6.78	4.15	94			
		Jason Harris	DNP	0	4.72	37	7.1	4.4	4.4	95		11	
		Jordan Jefferson	DNP	0	4.65	14	4.65	6.81	4.06	94			
	QB	Care Krenum	68.18	5	4.82	32.5	28.5	7.52	4.65	87		14	
		Ryan Lindley	37.25	7	4.86	21.5	28.5	6.81	4.06	94		13	
		Andrew Luck	81.06	5	4.67	36	6.8	4.28	104	37	13		
		Kellen Moore	DNP	0	4.84	27	7.41			4.56	26	13	
		Brick Owensler	53.93	4	4.83						25	13	
		Paige Tannerhill	82.2	5	0	4.8	14	36	7.17	4.28	101		13
		Devin Thomas	DNP	0									13
		Brandon Weedon	60.17	3			34	6.97	4.09	910		13	
		Russell Wilson	89.14	5	4.55			31.5	7.14	4.37	85		14
		Patrick Witt	DNP	0									
		Edwin Baker	DNP*	0	4.53	20	35	7.27		4.31	93		Games Attempt
		Mike Ball	DNP	0	4.65	21	36	7.1	4.23	94		9	
		Vick Ballard	71.4	1	4.65	23	33	7.03	4.19	97		13	
		Brandon Baldwin	58.21	2	4.66	21	38	6.96	4.44	91		10	
		Lannon Cruser	DNP	0	4.71	21	33.5	7.26	4.4	92		10	
		Jeff Demps	DNP*	0									12
		Shett Ellison	77.2	5	4.88	14	36.5	7.14	4.16	91			
		Bradley Ewing	DNP*	0	4.76	14	36.5	7.14	4.16	91			
		Terrance Ganaway	DNP*	0	4.67	21	37.5	7.15	4.25	91		13	
		Carson Gray	DNP*	0	4.47	21	32.5	7.17		96		11	
		James Gray	75.75	2	4.71	20							
		Isaiah Hampton	DNP*	0		26							
		Clayton Harris	62.5	1	4.66	20	35	6.97	4.04	99		7	
		Ronnie Hillman	57.58	5	4.45	17	37						13
		Eric Johnson	DNP*	0	4.83	19	34.5	7.32				4.4	91
		LaMichael James	65.3	1	4.45	15	35	6.88	4.12	103		12	
		Clay Martin	70.6	5	4.55	28	36	6.79	4.16	100		13	

Meeting 2 With Dr. Groves

- Introducing Dr. Groves to our data spreadsheet – what everything meant
- A few roadblocks to get over – defensive statistics, varying comp. levels, PFF inconsistencies
- In-person meeting soon, connecting with other statisticians through Dr. Groves



Plans for the Upcoming Months

Now → Early December

- ❖ Receive recent feedback from Dr. Groves
- ❖ Input all 2012 Draft Class Data into SPSS
- ❖ Use SPSS to form equation

December → March 1

- ❖ Fine tune equation with data collection on 2011 draft class
- ❖ Finalize model equation → determining positional values

February → April (Draft Day)

- ❖ Begin biweekly podcasts (using Devan and Kieran as resources)
- ❖ Use model to assess the upcoming 2022 draft class and make our predictions

