

Objective

- Introduce college football into the analytics conversation
- Discuss the difference between professional and college football analytics
- Talk about what's been done so far

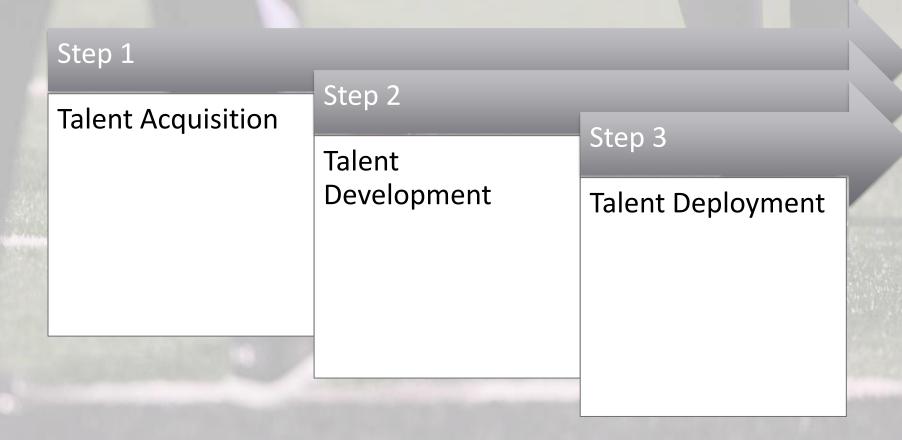
Football is unpredictable

- So many moving pieces
- "The ball's not even round" (Bob Voulgaris, Sloan 2013)
- Luck determines more than one-third of an NFL game
 - The Success Equation (2012)

College football as Wild, Wild West

- College football is huge either the second- or third-most popular sport in the country, depending on the survey
- It is still relatively untapped from a data perspective
- College football is off the beaten path
 - Its capitals: Tuscaloosa, Tallahassee, Eugene,
 Lincoln, Norman, Auburn, Columbus, Ann Arbor

Three Steps to any sport



Pro vs. College: Talent Acquisition

- NFL: Draft, trades, free agent signings
- College: Recruiting, transfers, walk-ons
 - No general managers
 - The head coach is also the GM
 - Each coach scouts, recruits, and develops
 - You might have an ace recruiter or developer, but most have to be well-rounded

Pro vs. College: Talent Development

- A chance to make up ground
- Jump from high school to college immense for most
- Redshirt vs. no redshirt
- Schools like Oregon, Stanford, Boise State, Virginia Tech, TCU, and Missouri have found edges here

Pro vs. College: Talent Deployment

- Wider disparity in talent
- Wider array of strategic and tactical thinking
- Pro Style vs. Spread vs. Flexbone
- 4-3 vs. 3-4 vs. 3-3-5 vs. 4-2-5
- Fourth-down philosophy, level of aggressiveness in play-calling

									ACCOUNT OF		ARREST AND A STATE OF	ASSESSED BY	ARCHILLE	ACCESSION OF	ATTOMIC TO SERVICE
Yd Line / To Go	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15+
1 to 30	65.2%	57.1%	66.7%	41.7%	66.7%	25.0%	50.0%	50.0%	66.7%	27.3%	50.0%		50.0%	0.0%	28.6%
31 to 50	75.0%	54.1%	37.5%	33.3%	50.0%	57.1%	28.6%	42.9%	50.0%	33.3%	0.0%	0.0%	0.0%	0.0%	13.6%
51 to 70	72.5%	60.0%	45.7%	47.2%	43.1%	40.0%	46.2%	31.0%	23.8%	40.0%	26.7%	28.6%	20.0%	25.0%	15.2%
71 to 80	68.5%	59.3%	40.0%	62.5%	41.7%	44.4%	20.0%	23.1%	62.5%	26.7%	0.0%	33.3%	22.2%	20.0%	9.1%
81 to 90	64.9%	61.3%	69.2%	45.5%	31.3%	41.7%	0.0%	25.0%	36.4%	13.3%	100.0%	100.0%	25.0%	0.0%	40.0%
91 to 96	70.5%	47.4%	41.7%	30.8%	40.0%	33.3%	20.0%	20.0%							
97 to 99	67.9%	48.0%	30.8%											1	

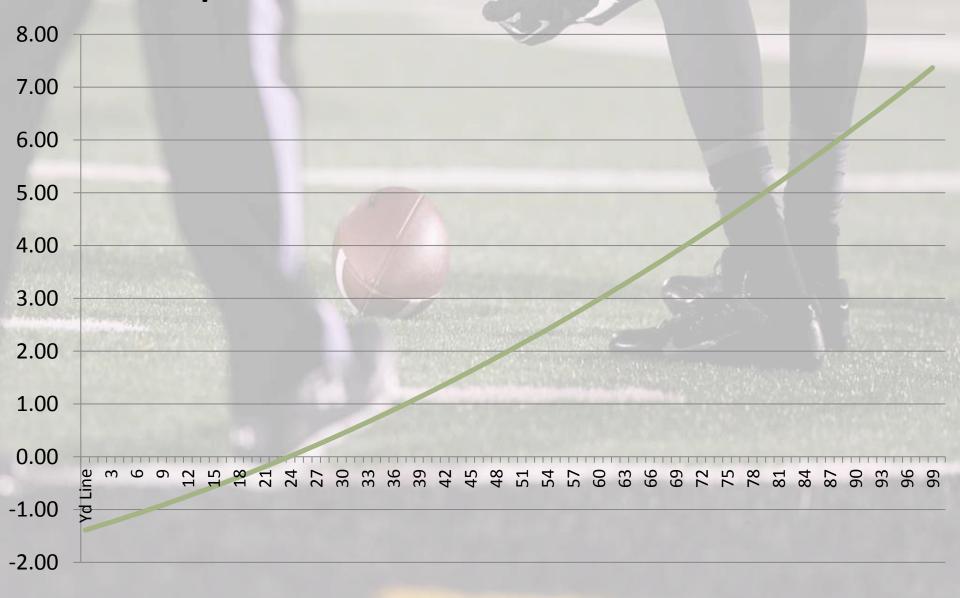
Pro vs. College: Data

- Talent disparity creates unique data environment
- Opponent adjustments are vital, carry much more impact than at pro level
 - Wow, do we misuse Strength of Schedule
- Garbage time adjustments can be key

What are we doing?

- Football Outsiders and Football Study Hall
 - F/+, S&P+, FEI
 - Standard downs vs. Passing downs
 - Turnovers luck
 - Five factors
 - 2013 Charting Project
 - Merging numbers with X&O breakdown
- The Power Rank, Tempo-Free Gridiron, Sports Reference, MGoBlog, and, of course, CFB Stats

Equivalent Net Point Values



Standard Downs and Passing Downs

- <u>Standard Downs</u>: First down, second-and-7 or fewer, third-and-4 or fewer, fourth-and-4 or fewer
- Passing Downs: Second-and-8 or more, thirdand-5 or more, fourth-and-5 or more
- Success Rates
 - SD: 48% (48% rushing, 49% passing)
 - PD: 32% (29% rushing, 34% passing)
- More telling, descriptive than simple run-pass

Five Factors

- Explosiveness
- Efficiency
- Finishing Drives
- Field Position
- Turnovers

2013 Charting Project

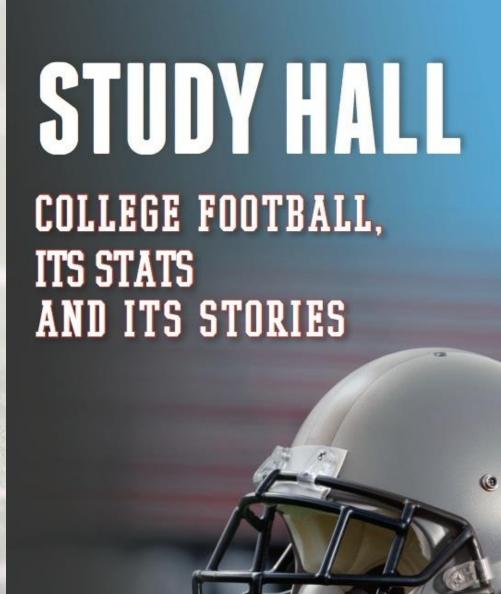
- 85 volunteers
- 190 games charted (and counting)
- Formation data, # of pass rushers, distance of pass, direction of run/pass, option information, why QB ran (scramble, designed, etc.), broken tackles

Projection

- The white whale of college football analytics
- College football is a hub, with projection going in two different directions
- Important to analysts, coaches alike
 - Opportunity abound for someone who can get a handle on projecting high school to college jump

Study Hall

- Why we love college football
- Why the haters are right
- Advanced Stats 101
- The importance of field position and finishing drives
- Underdog tactics



Bill Connelly