

What are ELO Ratings?

- Ehhh-low? Eeeee-low? E-L-O?
- Relative score for players/teams in various sports or competitions

Why ELO?

- Consistent methodology
- Easy to trend and compare
- Predictions
- It's fun!



Every team...

- Starts with a rating of 1500
- Scores rise and fall based on victory/defeat and margin
- K-Factor
- At the end of the season, scores regress to the average of their conference by one-third
- Independents and FCS schools

Examples



#2 Penn State: 2,292

Probability of Winning

Margin of Victory (or loss)

Home-Field Advantage

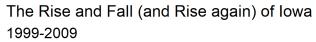


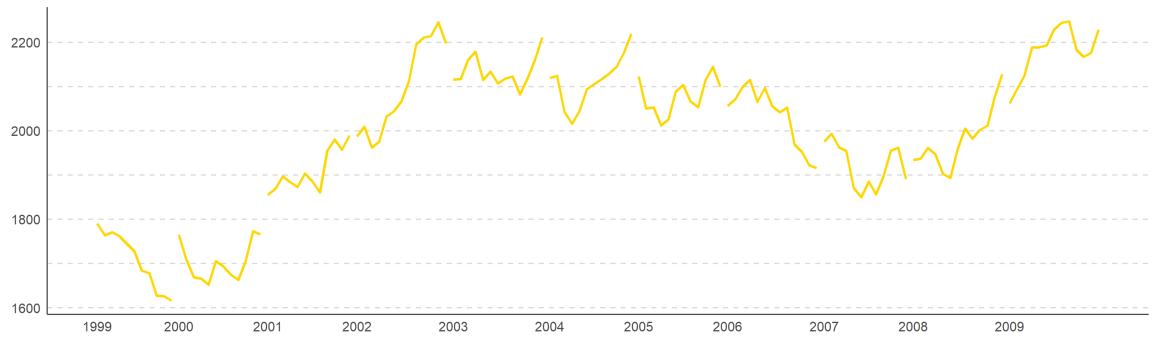
Model Limitations

- Data scrapping
- Bias against the late season
- Conference bias
- Future realignment

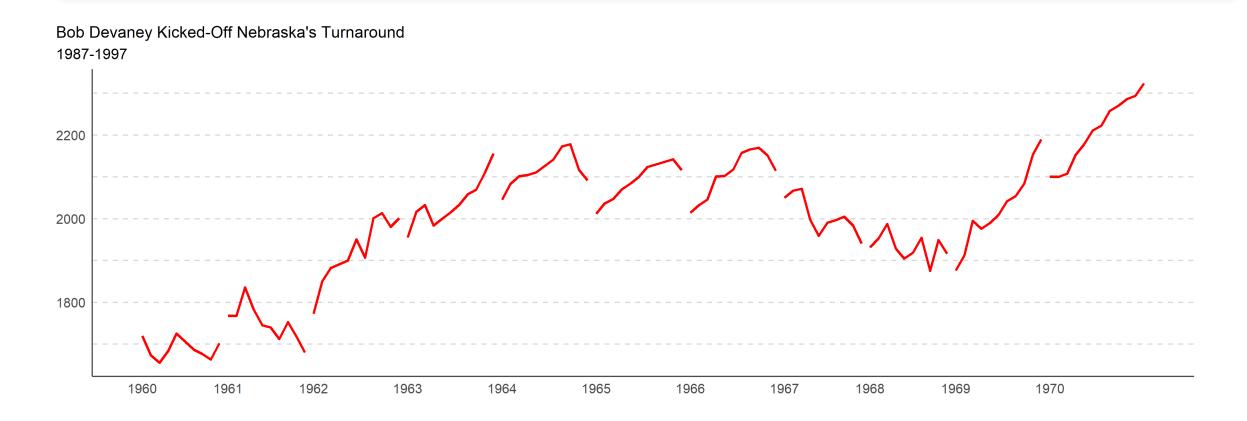


lowa

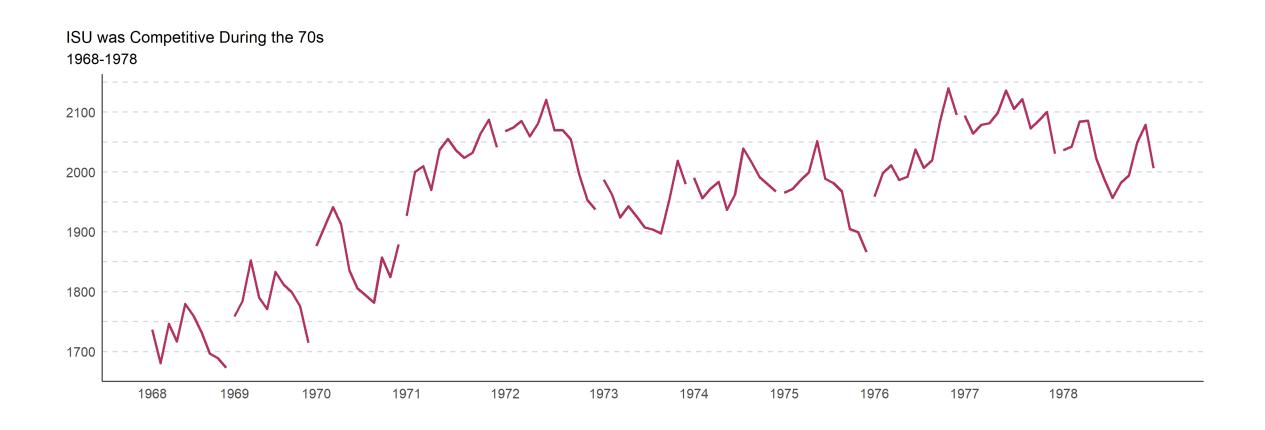




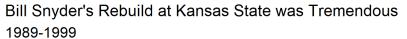
Nebraska

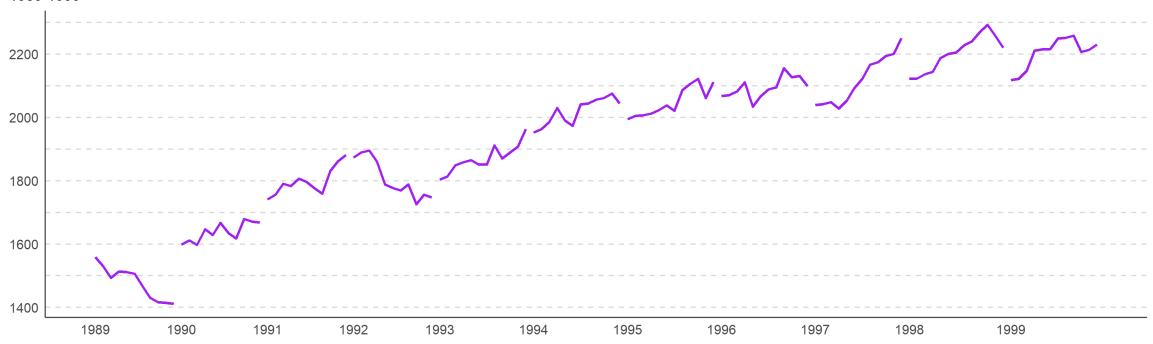


Iowa State

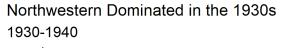


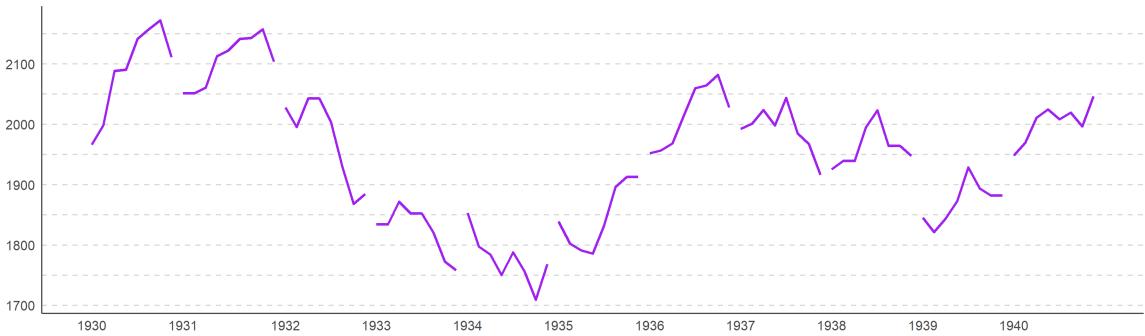
Kansas State



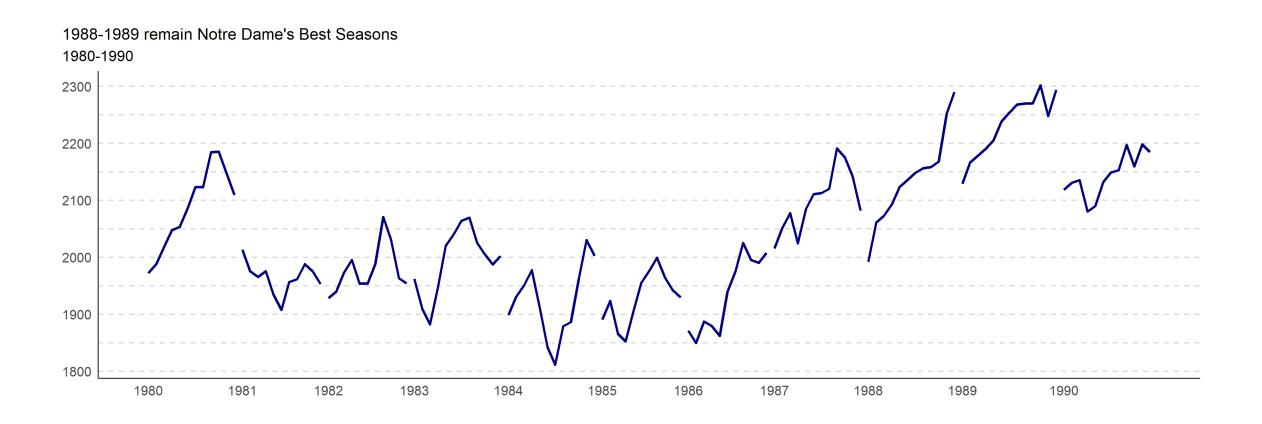


Northwestern

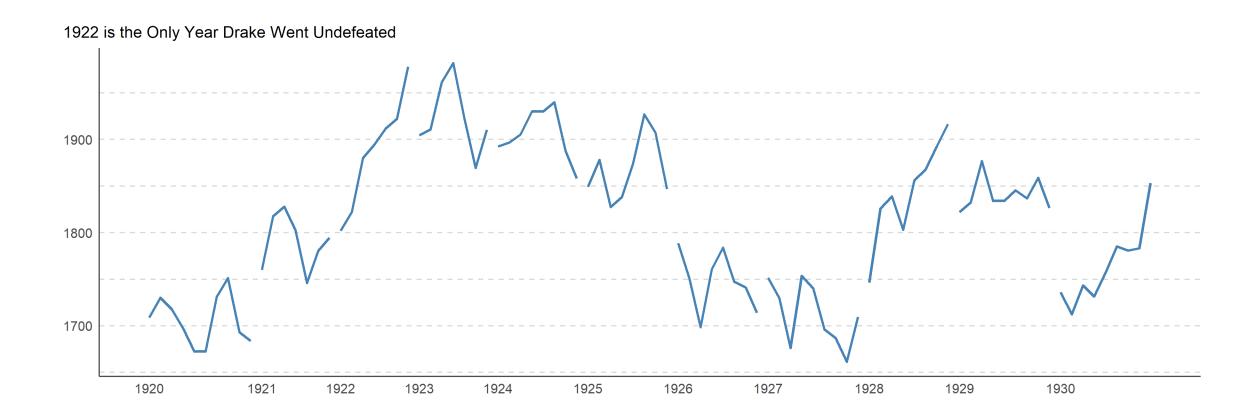




Notre Dame



Drake





Biggest Upsets Since 1945

Season	Week	Winner	Loser	Score	Probability	ELO Points
2012	2	Louisiana-Monroe	Arkansas	34-31	1.20%	41
2013	1	North Dakota State	Kansas State	24-21	1.29%	41
2007	1	Appalachian State	Michigan	34-32	1.45%	32
1949	6	Tulsa	Villanova	21-19	1.46%	32
2016	2	South Alabama	Mississippi State	21-20	1.52%	21
2010	1	Jacksonville State	Mississippi	49-48	1.67%	21
2016	4	North Dakota State	lowa	23-21	1.72%	33
2010	2	James Madison	Virginia Tech	21-16	1.85%	54
1998	8	Temple	Virginia Tech	28-24	1.86%	48
1946	2	Cincinnati	Indiana	15-6	1.91%	69

Biggest Upsets Since 1945

	Winner	Loser	Score	Probability	ELO Points
4	UCLA	Texas	66-3	18.94%	121
14 V	Vake Forest	Duke	59-7	17.24%	117
15	Denver I	Hawaii All-Stars	76-6	26.53%	116
13	Colgate	Rutgers	42-0	12.52%	114
9 Sa		Pacific	48-7	11.63%	114
	Armv	Boston College	49-7		114
	·				113
					112
	<u> </u>	·			112
					111
	14 V 15 13 9 Sa 9	14 Wake Forest 15 Denver 13 Colgate 9 San Jose State 9 Army 4 Denver 1 Brigham Young 5 California	14Wake ForestDuke15DenverHawaii All-Stars13ColgateRutgers9San Jose StatePacific9ArmyBoston College4DenverMontana1Brigham YoungNavy5CaliforniaWisconsin	14Wake ForestDuke59-715DenverHawaii All-Stars76-613ColgateRutgers42-09San Jose StatePacific48-79ArmyBoston College49-74DenverMontana55-01Brigham YoungNavy55-35CaliforniaWisconsin48-7	14 Wake Forest Duke 59-7 17.24% 15 Denver Hawaii All-Stars 76-6 26.53% 13 Colgate Rutgers 42-0 12.52% 9 San Jose State Pacific 48-7 11.63% 9 Army Boston College 49-7 13.41% 4 Denver Montana 55-0 23.39% 1 Brigham Young Navy 55-3 22.93% 5 California Wisconsin 48-7 15.15%

