\* To use this workbook, first select File > Make a Copy to save your own editable version. \* The first sheet ("Inputs") features places to enter up to two different sets of assumptions. Any cell that is highlighted yellow can be altered by the user and changes will reflect on the second sheet ("Outcomes"). \* Team 1 serves as a control and Team 2 as a treatment. Set Team 1's values to your desired baseline (for a generic baseline, set all of Team 1's expected win% values to 0.5), then change Team 2's values to your new targets. The "Ratios" columns on the "Outcomes" sheet compare each team's performance to that of a randomly-selected team from the league. (For instance, in a 12-team league, the odds that a randomly-selected team will win the title will be 1 in 12.) The "Relative Gains" column instead compares Team 2 to Team 1. \* You can also test how various treatments impact your own team. Set Team 1's values to your best estimate of your team's current values, then alter Team 2's values to your best estimate post-treatment (e.g. after making a win-now trade). \* I've included two common sets of assumptions. The first set ("Standard Assumptions") will produce values applicable to a 12team league where 6 teams make the playoffs and 2 teams earn a bye. The second set ("Alternate Assumptions") covers a 12team league where 4 teams make the playoffs and no teams earn a bye. To use these, simply copy the sheet in its entirety and paste it over the entire first sheet ("Inputs"). \* If you wish to create your own playoff odds assumptions (for instance, for a 10 team league), you will need to verify that they are well-calibrated. To do this, set all of Team 1's expected win% values to 0.5 and enter your assumptions on the "Inputs" sheet. If your assumptions are well-calibrated, all of Team 1's Ratios will display as at or extremely close to 100% on the "Outcomes" sheet. If they don't, tweak your assumptions until they do. \* If your league does not use a playoff bye, set all "Bye" odds on the "Inputs" sheet to zero and set the expected wildcard win% to 1.

\* All colors were selected to be color-blind friendly. If you have any issues distinguishing heatmaps, please let me know.

\* For any other concerns, I am reachable on Twitter at '@AdamHarstad'

Team 1																			
REGULAR SEASON	Sample 1	Sample 2	(RS Total)	PLAYOFF	wc	Semi	Final												
Number of Games in Sample	14	0	14	Exp Win%	0.5	0.5	0.5		# of Reg \$	Ssn Weeks	14								
Expected Win%	0.5	1	50.0%						# of	Teams	12								
								# of Playoffs Berths		6									
Team 2									# of	Byes	2								
Regular Season	Sample 1	Sample 2	(RS Total)	PLAYOFF	wc	Semi	Final												
Number of Games in Sample	13	1	14	Exp Win%	0.5	0.5	0.5												
Expected Win%	0.5	1	53.6%																
Win Total	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Playoff Odds at X Wins	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.50	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Bye Odds at X Wins	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.50	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

	Team 1	Ratio		Team 2	Ratio		Team 2's Total Gain Expected Wins								
Expected Wins	7.00	100%		7.50	107%					0.500					
Playoff Chances	50.00%	100%		59.95%	120%		Pla	yoff Chan	ces	9.95%					
Bye Chances	16.68%	100%		22.84%	137%		Bye Chances		6.16%						
Reach Title Game	16.67%	100%		20.70%	124%		Rea	ach Title G	ame	4.03%					
Win Title Game	8.33%	100%		10.35%	124%		w	in Title Gai	ne	2.01%					
					Te	eam 1 Win	Distributio	n							
Total Wins	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Odds of each total	0.01%	0.09%	0.56%	2.22%	6.11%	12.22%	18.33%	20.95%	18.33%	12.22%	6.11%	2.22%	0.56%	0.09%	0.01%
umulative odds of X+ Wins	100.00%	99.99%	99.91%	99.35%	97.13%	91.02%	78.80%	60.47%	39.53%	21.20%	8.98%	2.87%	0.65%	0.09%	0.01%
					T	eam 2 Win	Dietributio	n .							
Total Wins	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Odds of each total	0.00%	0.01%	0.16%	0.95%	3.49%	8.73%	15.71%	20.95%	20.95%	15.71%	8.73%	3.49%	0.95%	0.16%	0.01%
umulative odds of X+ Wins		100.00%	99.99%	99.83%	98.88%	95.39%	86.66%	70.95%	50.00%	29.05%	13.34%	4.61%	1.12%	0.17%	0.01%
25.00% 20.00% 15.00%	_	Team 1	- Team 2					75.009 50.009	6			Team 1	Team 2		
5.00%	0.00% 0 2 4 6 8 10 12 14 Total Wins													1	

Team 1																			
REGULAR SEASON	Sample 1	Sample 2	(RS Total)	PLAYOFF	wc	Semi	Final												
Number of Games in Sample	14	0	14	Exp Win%	0.5	0.5	0.5		# of Reg S	Ssn Weeks	14								
Expected Win%	0.5	0.5	50.0%						# of 1	Teams	12								
									# of Playo	offs Berths	6								
Team 2									# of	Byes	2								
Regular Season	Sample 1	Sample 2	(RS Total)	PLAYOFF	wc	Semi	Final												
Number of Games in Sample	1	13	14	Exp Win%	0.5	0.5	0.5												
Expected Win%	1	0.5	53.6%																
Win Total	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Playoff Odds at X Wins	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.50	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Bye Odds at X Wins	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.50	0.90	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Team 1																			
REGULAR SEASON	Sample 1	Sample 2	(RS Total)	PLAYOFF	wc	Semi	Final												
Number of Games in Sample	14	1	15	Exp Win%	1	0.5	0.5		# of Reg S	Ssn Weeks	15								
Expected Win%	0.5	0.5	50.0%					# of Teams		12									
								# of Playoffs Berths # of Byes		4									
Team 2										0									
Regular Season	Sample 1	Sample 2	(RS Total)	PLAYOFF	wc	Semi	Final	Ī											
Number of Games in Sample	1	14	15	Exp Win%	1	0.5	0.5												
Expected Win%	1	0.5	53.3%																
Win Total	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	П
Playoff Odds at X Wins	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.75	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
Bye Odds at X Wins	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	