

NHL Hockey Analytics Project

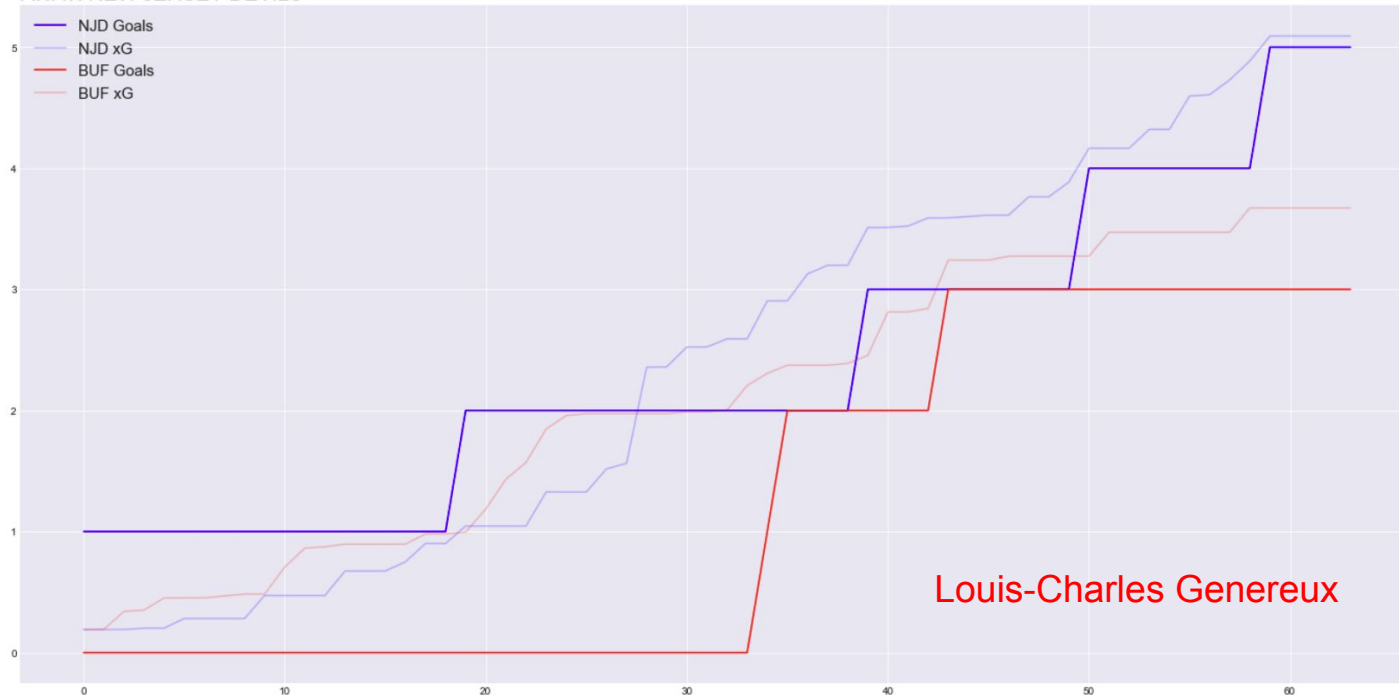
Louis-Charles Genereux

Link to [github repo](#)

Game flowchart (expected goals vs actual)

Game summary

HOME: BUFFALO SABRES
AWAY: NEW JERSEY DEVILS



Louis-Charles Genereux

Player expected output per 60 minutes played

Player	cap_hit	GP	Goals	Assists	EV_netXG_per_60	clutch_factor
BERGERON, PATRICE	\$6,875,000	65	20	36	1.672129	0.651593
TKACHUK, MATTHEW	\$7,000,000	73	37	55	1.619879	0.825124
MARCHMENT, MASON	\$800,000	47	15	25	1.453463	0.993966
MATTHEWS, AUSTON	\$11,640,250	67	57	41	1.441272	0.856343
GAUDREAU, JOHNNY	\$6,750,000	73	34	67	1.391211	0.896832
BARKOV, ALEKSANDER	\$5,900,000	59	33	46	1.331178	0.871232
LINDHOLM, ELIAS	\$4,850,000	73	38	36	1.325748	0.665673
REINHART, SAM	\$6,500,000	69	27	44	1.283828	0.766390
MARNER, MITCHELL	\$10,903,000	63	31	57	1.275403	0.854705
WEEGAR, MACKENZIE	\$3,250,000	72	7	34	1.252996	0.406210
MANGIAPANE, ANDREW	\$2,425,000	73	31	18	1.240909	0.651881
MCDAVID, CONNOR	\$12,500,000	73	42	66	1.211754	0.749482
PULJUJARVI, JESSE	\$1,175,000	60	13	21	1.195167	0.442870
HORNQVIST, PATRIC	\$5,300,000	56	10	14	1.174336	0.461076
ROBERTSON, JASON	\$795,000	64	34	34	1.173106	0.757913
EKBLAD, AARON	\$7,500,000	61	15	42	1.168834	0.540273
BUNTING, MICHAEL	\$950,000	72	20	36	1.165741	0.744659
MARCHAND, BRAD	\$6,125,000	62	31	42	1.150211	0.875253
VERHAEGHE, CARTER	\$1,000,000	71	22	31	1.136670	0.725719
HINTZ, ROOPE	\$3,150,000	70	32	30	1.108490	0.669795
MCAVOY, CHARLIE	\$4,900,000	70	8	44	1.070313	0.472916
BRATT, JESPER	\$2,750,000	67	22	45	1.007509	0.810814
SANDIN, RASMUS	\$894,167	51	5	11	0.965265	0.302125
ARVIDSSON, VIKTOR	\$4,250,000	60	20	24	0.964895	0.547679
HANIFIN, NOAH	\$4,950,000	72	8	33	0.961954	0.435209
ANDERSSON, RASMUS	\$4,550,000	73	4	42	0.937618	0.388940
LILJEGREN, TIMOTHY	\$863,333	52	4	17	0.910910	0.459756
DANAULT, PHILLIP	\$5,500,000	73	22	24	0.883450	0.494546
HUBERDEAU, JONATHAN	\$5,900,000	72	28	76	0.879214	0.990708

Net goals per 60 minutes:

(goals for - goals against) per 60 minutes played

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Determining fair salary by using nearest neighbors

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Nearest neighbor for :SUZUKI, NICK
Current salary (M) :0.86
Fair salary (M) :5.9
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	Player	cap_hit	Shots	Goals	Assists	Hits	PIM	EV_netXG_per_60	EV_for_agg	PP_for_agg	PK_for_agg	EV_against_agg	PP_against_agg	PK_against_agg
736	SUZUKI, NICK	\$863,333	169	19	34	82	28	-0.534752	48.704315	29.084638	3.652792	58.824200	4.630569	15.287361
756	ATKINSON, CAM	\$5,875,000	215	23	27	20	10	-0.555966	44.578557	24.172290	3.302617	53.916778	4.169118	17.673317
875	JENNER, BOONE	\$3,750,000	160	23	21	80	22	-0.897461	41.886786	22.163104	2.251604	55.898902	2.899678	14.313544
373	COUTURE, LOGAN	\$8,000,000	180	23	26	89	18	0.107027	53.358805	23.814999	2.378340	51.620120	3.171604	17.274730
406	HERTL, TOMAS	\$5,625,000	188	28	31	95	28	0.042016	57.921224	24.778282	1.639198	57.123103	3.820062	15.252877
457	HORVAT, BO	\$5,500,000	191	30	21	95	40	-0.049572	48.072381	34.177753	2.223554	48.927796	4.039157	12.059315
264	TERAVAINEN, TEUVO	\$5,400,000	181	19	38	15	22	0.297234	50.497797	33.339639	3.311357	46.018644	5.014880	9.106525
601	KELLER, CLAYTON	\$7,150,000	177	28	35	17	28	-0.265535	48.837076	21.489780	1.887423	53.612949	3.659570	12.510014

In 2021-2022, Nick Suzuki earned \$860K, but signed a \$7.875M contract starting next year. Based on his performance and his peers, he should earn \$5.9M

Canadiens, Nick Suzuki agree to eight-year, \$63 million extension

The Montreal Canadiens and Nick Suzuki have agreed to terms on an eight-year, \$63 million contract, the club announced Tuesday.

The deal carries an average annual value of \$7.875 million and runs from 2022-23 to 2029-30.

Effect of player on partner's Net Expected Goal Creation, relative to situations when player is not paired with partner

