

Toms_analysis_of_Fed_Discount_rates_and_stock_index_performance.xlsx

	Discount	Discount		S&P index	Jeff's	Nasdaq Index	Jeff's		3x QQQ	Jeff's	
Year	rate 01/01	rate 12/31	SPY start	SPY end	Pct Chg	^IXIC start	^IXIC end	Pct Chg	TQQQ star	TQQQ end	Pct chg
2018	2.00%		2678.40		-100.00%	6937.64		-100.00%	46.97		-100.00%
2017	1.25%	2.00%	2250.40	2668.60	18.58%	5425.62	6903.39	27.24%	64.80	140.90	117.44%
2016	1.00%	1.25%	2004.90	2235.30	11.49%	4897.64	5444.5	11.17%	53.31	64.80	21.55%
2015	0.75%	1.00%	2058.90	2043.94	-0.73%	4760.24	5007.41	5.19%	49.42	53.31	7.87%
2014	0.75%	0.75%	1845.86	2058.90	11.54%	4160.02	4736.04	13.85%	30.60	49.42	61.50%
2013	0.75%	0.75%	1426.19	1848.36	29.60%	3091.53	4176.58	35.10%	13.87	30.60	120.62%
2012	0.75%	0.75%	1258.86	1426.19	13.29%	2657.38	3019.51	13.63%	8.97	13.87	54.63%
2011	0.75%	0.75%	1257.62	1257.60	0.00%	2676.64	2605.14	-2.67%	9.48	8.97	-5.38%
2010	0.50%	0.75%	1116.56	1257.64	12.64%	2294.40	2652.87	15.62%	5.00	9.48	89.60%
2009	0.50%	0.50%	902.99	1115.10	23.49%	1578.87	2269.14	43.72%			
2008	3.50%	0.50%	1467.97	903.25	-38.47%	2653.90	1577.03	-40.58%			
2007	6.25%	3.50%	1418.03	1468.36	3.55%	2429.72	2652.28	9.16%			
2006	5.50%	6.25%	1248.29	1418.30	13.62%	2216.53	2415.29	8.97%			
2005	3.25%	5.50%	1211.92	1248.29	3.00%	2184.75	2205.32	0.94%			
2004	2.00%	3.25%	1111.92	1211.92	8.99%	2011.08	2175.43	8.17%			
2003	2.25%	2.00%	879.82	1111.92	26.38%	1346.93	2003.37	48.74%			
2002	1.25%	2.25%	1148.08	879.82	-23.37%	1965.18	1335.51	-32.04%			
2001	5.75%	1.25%	1320.28	1148.08	-13.04%	2474.16	1950.40	-21.17%			
2000	5.00%	5.75%	1469.25	1320.28	-10.14%	4186.19	2470.52	-40.98%			
1999	4.50%	5.00%	1244.00	1469.00	18.09%	2207.54	4069.31	84.34%			
1998	5.00%	4.50%	970.43	1229.23	26.67%	1574.00	2192.00	39.26%			
1997	5.00%	5.00%	740.74	970.43	31.01%	1292.00	1570.00	21.52%			
1996	5.24%	5.00%	615.93	740.74	20.26%	1052.00	1291.00	22.72%			
1995	4.75%	5.24%	459.21	615.93	34.13%	751.00	1052.00	40.08%			
1994	3.00%	4.75%	466.51	459.21	-1.56%	774.00	751.00	-2.97%			
1993	3.00%	3.00%	435.70	466.51	7.07%	675.00	776.00	14.96%			
1992	3.50%	3.00%	417.03	435.70	4.48%	580.00	676.00	16.55%			
1991	6.50%	3.50%	330.20	417.03	26.30%	373.00	586.00	57.10%			
1990	7.00%	6.50%	359.00	330.22	-8.02%	452.00	373.00	-17.48%			
1989	6.50%	7.00%	277.72	353.40	27.25%	378.90	454.80	20.03%			
1988	6.00%	6.50%	247.10	277.72	12.39%	335.10	381.40	13.82%			
1987	5.50%	6.00%	242.17	247.08	2.03%	351.30	330.50	-5.92%			
1986	7.50%	5.50%	211.28	242.17	14.62%	325.00	351.30	8.09%			
1985	8.00%	7.50%	167.20	211.28	26.36%	247.10	324.90	31.49%			
1984	8.50%	8.00%	164.93	167.24	1.40%	277.63	247.10	-11.00%			
1983	8.50%	8.50%	140.65	164.93	17.26%	230.59	278.00	20.56%			
1982	12.00%	8.30%	122.55	140.64	14.76%	195.53	232.81	19.07%			
1981	13.00%	12.10%	135.76	122.55	-9.73%	203.55	195.53	-3.94%			
1980	12.00%	12.87%	107.94	135.76	25.77%	148.17	202.34	36.56%			
1979	9.50%	12.00%	96.11	107.94	12.31%	117.84	151.14	28.26%			
1978	6.37%	9.50%	95.10	96.11	1.06%	104.00	117.98	13.44%			
1977	5.25%	6.37%	107.46	95.10	-11.50%	97.69	105.05	7.53%			
1976	5.50%	5.25%	90.19	107.46	19.15%	78.00	97.88	25.49%			
1975	7.40%	6.00%	68.65	90.19	31.38%	60.70	77.62	27.87%			
1974	7.50%	7.40%	97.55	68.65	-29.63%	92.50	59.82	-35.33%			

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1973	4.77%	7.50%	118.08	97.55	-17.39%	134.63	92.19	-31.52%			
1972	4.50%	4.77%	102.09	118.08	15.66%	113.65	133.73	17.67%			
1971	5.23%	4.50%	92.15	102.09	10.79%	100.00	114.12	14.12%			