Student's *t* Distribution

t Statistics for the Given Two-Tailed Probabilities (*p*) and Degrees of Freedom (df)

df$_{ERROR}$	.90	.80	.70	.60	.50	.40	.30	.20	.10	.05	.04	.03	.02	.01	.001
															Two-Tailed *p* Values
2	.142	.289	.445	.617	.816	1.06	1.386	1.886	2.920	4.303	4.849	5.643	6.965	9.925	31.599
3	.137	.277	.424	.584	.765	.978	1.250	1.638	2.353	3.182	3.482	3.896	4.541	5.841	12.924
4	.134	.271	.414	.569	.741	.941	1.190	1.533	2.132	2.776	2.999	3.298	3.747	4.604	8.610
5	.132	.267	.408	.559	.727	.920	1.156	1.476	2.015	2.571	2.757	3.003	3.365	4.032	6.869
6	.131	.265	.404	.553	.718	.906	1.134	1.440	1.943	2.447	2.612	2.829	3.143	3.707	5.959
7	.130	.263	.402	.549	.711	.896	1.119	1.415	1.895	2.365	2.517	2.715	2.998	3.499	5.408
8	.130	.262	.399	.546	.706	.889	1.108	1.397	1.860	2.306	2.449	2.634	2.896	3.355	5.041
9	.129	.261	.398	.543	.703	.883	1.100	1.383	1.833	2.262	2.398	2.574	2.821	3.250	4.781
10	.129	.260	.397	.542	.700	.879	1.093	1.372	1.812	2.228	2.359	2.527	2.764	3.169	4.587
11	.129	.260	.396	.540	.697	.876	1.088	1.363	1.796	2.201	2.328	2.491	2.718	3.106	4.437
12	.128	.259	.395	.539	.695	.873	1.083	1.356	1.782	2.179	2.303	2.461	2.681	3.055	4.318
13	.128	.259	.394	.538	.694	.870	1.079	1.350	1.771	2.160	2.282	2.436	2.650	3.012	4.221
14	.128	.258	.393	.537	.692	.868	1.076	1.345	1.761	2.145	2.264	2.415	2.624	2.977	4.140
15	.128	.258	.393	.536	.691	.866	1.074	1.341	1.753	2.131	2.249	2.397	2.602	2.947	4.073
16	.128	.258	.392	.535	.690	.865	1.071	1.337	1.746	2.120	2.235	2.382	2.583	2.921	4.015
17	.128	.257	.392	.534	.689	.863	1.069	1.333	1.740	2.110	2.224	2.368	2.567	2.898	3.965
18	.127	.257	.392	.534	.688	.862	1.067	1.330	1.734	2.101	2.214	2.356	2.552	2.878	3.922
19	.127	.257	.391	.533	.688	.861	1.066	1.328	1.729	2.093	2.205	2.346	2.539	2.861	3.883
20	.127	.257	.391	.533	.687	.860	1.064	1.325	1.725	2.086	2.197	2.336	2.528	2.845	3.850
21	.127	.257	.391	.532	.686	.859	1.063	1.323	1.721	2.080	2.189	2.328	2.518	2.831	3.819
22	.127	.256	.390	.532	.686	.858	1.061	1.321	1.717	2.074	2.183	2.320	2.508	2.819	3.792
23	.127	.256	.390	.532	.685	.858	1.060	1.319	1.714	2.069	2.177	2.313	2.500	2.807	3.768
24	.127	.256	.390	.531	.685	.857	1.059	1.318	1.711	2.064	2.172	2.307	2.492	2.797	3.745
25	.127	.256	.390	.531	.684	.856	1.058	1.316	1.708	2.060	2.167	2.301	2.485	2.787	3.725
26	.127	.256	.390	.531	.684	.856	1.058	1.315	1.706	2.056	2.162	2.296	2.479	2.779	3.707
27	.127	.256	.389	.531	.684	.855	1.057	1.314	1.703	2.052	2.158	2.291	2.473	2.771	3.690
28	.127	.256	.389	.530	.683	.855	1.056	1.313	1.701	2.048	2.154	2.286	2.467	2.763	3.674
29	.127	.256	.389	.530	.683	.854	1.055	1.311	1.699	2.045	2.150	2.282	2.462	2.756	3.659
30	.127	.256	.389	.530	.683	.854	1.055	1.310	1.697	2.042	2.147	2.278	2.457	2.750	3.646
35	.127	.255	.388	.529	.682	.852	1.052	1.306	1.690	2.030	2.133	2.262	2.438	2.724	3.591
40	.126	.255	.388	.529	.681	.851	1.050	1.303	1.684	2.021	2.123	2.250	2.423	2.704	3.551
45	.126	.255	.388	.528	.680	.850	1.049	1.301	1.679	2.014	2.115	2.241	2.412	2.690	3.520
50	.126	.255	.388	.528	.679	.849	1.047	1.299	1.676	2.009	2.109	2.234	2.403	2.678	3.496
55	.126	.255	.387	.527	.679	.848	1.046	1.297	1.673	2.004	2.104	2.228	2.396	2.668	3.476
60	.126	.254	.387	.527	.679	.848	1.045	1.296	1.671	2.000	2.099	2.223	2.390	2.660	3.460
70	.126	.254	.387	.527	.678	.847	1.044	1.294	1.667	1.994	2.093	2.215	2.381	2.648	3.435
80	.126	.254	.387	.526	.678	.846	1.043	1.292	1.664	1.990	2.088	2.209	2.374	2.639	3.416
90	.126	.254	.387	.526	.677	.846	1.042	1.291	1.662	1.987	2.084	2.205	2.368	2.632	3.402
100	.126	.254	.386	.526	.677	.845	1.042	1.290	1.660	1.984	2.081	2.201	2.364	2.626	3.390
120	.126	.254	.386	.526	.677	.845	1.041	1.289	1.658	1.980	2.076	2.196	2.358	2.617	3.373
240	.126	.254	.386	.525	.676	.843	1.039	1.285	1.651	1.970	2.065	2.183	2.342	2.596	3.332
∞	.126	.253	.385	.524	.674	.842	1.036	1.282	1.645	1.960	2.054	2.170	2.326	2.576	3.291