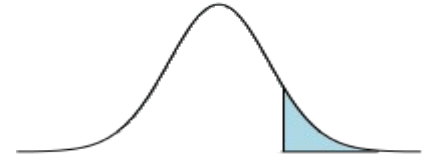


## Student's T Distribution Critical Values

Upper-tail probability  $p$



<i>df</i>	0.400	0.300	0.250	0.200	0.150	0.100	0.050	0.025	0.020	0.010	0.005	0.003	0.001
1	0.325	0.727	1.000	1.376	1.963	3.078	6.314	12.706	15.895	31.821	63.657	127.32	318.31
2	0.289	0.617	0.816	1.061	1.386	1.886	2.920	4.303	4.849	6.965	9.925	14.089	22.327
3	0.277	0.584	0.765	0.978	1.250	1.638	2.353	3.182	3.482	4.541	5.841	7.453	10.215
4	0.271	0.569	0.741	0.941	1.190	1.533	2.132	2.776	2.999	3.747	4.604	5.598	7.173
5	0.267	0.559	0.727	0.920	1.156	1.476	2.015	2.571	2.757	3.365	4.032	4.773	5.893
6	0.265	0.553	0.718	0.906	1.134	1.440	1.943	2.447	2.612	3.143	3.707	4.317	5.208
7	0.263	0.549	0.711	0.896	1.119	1.415	1.895	2.365	2.517	2.998	3.499	4.029	4.785
8	0.262	0.546	0.706	0.889	1.108	1.397	1.860	2.306	2.449	2.896	3.355	3.833	4.501
9	0.261	0.543	0.703	0.883	1.100	1.383	1.833	2.262	2.398	2.821	3.250	3.690	4.297
10	0.260	0.542	0.700	0.879	1.093	1.372	1.812	2.228	2.359	2.764	3.169	3.581	4.144
11	0.260	0.540	0.697	0.876	1.088	1.363	1.796	2.201	2.328	2.718	3.106	3.497	4.025
12	0.259	0.539	0.695	0.873	1.083	1.356	1.782	2.179	2.303	2.681	3.055	3.428	3.930
13	0.259	0.538	0.694	0.870	1.079	1.350	1.771	2.160	2.282	2.650	3.012	3.372	3.852
14	0.258	0.537	0.692	0.868	1.076	1.345	1.761	2.145	2.264	2.624	2.977	3.326	3.787
15	0.258	0.536	0.691	0.866	1.074	1.341	1.753	2.131	2.249	2.602	2.947	3.286	3.733
16	0.258	0.535	0.690	0.865	1.071	1.337	1.746	2.120	2.235	2.583	2.921	3.252	3.686
17	0.257	0.534	0.689	0.863	1.069	1.333	1.740	2.110	2.224	2.567	2.898	3.222	3.646
18	0.257	0.534	0.688	0.862	1.067	1.330	1.734	2.101	2.214	2.552	2.878	3.197	3.610
19	0.257	0.533	0.688	0.861	1.066	1.328	1.729	2.093	2.205	2.539	2.861	3.174	3.579
20	0.257	0.533	0.687	0.860	1.064	1.325	1.725	2.086	2.197	2.528	2.845	3.153	3.552
21	0.257	0.532	0.686	0.859	1.063	1.323	1.721	2.080	2.189	2.518	2.831	3.135	3.527
22	0.256	0.532	0.686	0.858	1.061	1.321	1.717	2.074	2.183	2.508	2.819	3.119	3.505
23	0.256	0.532	0.685	0.858	1.060	1.319	1.714	2.069	2.177	2.500	2.807	3.104	3.485
24	0.256	0.531	0.685	0.857	1.059	1.318	1.711	2.064	2.172	2.492	2.797	3.091	3.467
25	0.256	0.531	0.684	0.856	1.058	1.316	1.708	2.060	2.167	2.485	2.787	3.078	3.450
26	0.256	0.531	0.684	0.856	1.058	1.315	1.706	2.056	2.162	2.479	2.779	3.067	3.435
27	0.256	0.531	0.684	0.855	1.057	1.314	1.703	2.052	2.158	2.473	2.771	3.057	3.421
28	0.256	0.530	0.683	0.855	1.056	1.313	1.701	2.048	2.154	2.467	2.763	3.047	3.408
29	0.256	0.530	0.683	0.854	1.055	1.311	1.699	2.045	2.150	2.462	2.756	3.038	3.396
30	0.256	0.530	0.683	0.854	1.055	1.310	1.697	2.042	2.147	2.457	2.750	3.030	3.385
100	0.254	0.526	0.677	0.845	1.042	1.290	1.660	1.984	2.081	2.364	2.626	2.871	3.174
1000	0.253	0.525	0.675	0.842	1.037	1.282	1.646	1.962	2.056	2.330	2.581	2.813	3.098

Confidence Level

