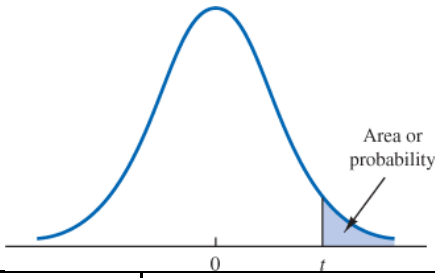


t Distribution



Entries in the table give t values for an area or probability in the upper tail of the t distribution. For example, with 10 degrees of freedom and a .05 area in the upper tail, $t_{0.05} = 1.812$.

Degrees of Freedom	Area in Upper Tail						Degrees of Freedom	Area in Upper Tail					
	0.2	0.1	0.05	0.025	0.01	0.005		0.2	0.1	0.05	0.025	0.01	0.005
1	1.376	3.078	6.314	12.706	31.821	63.656	51	0.849	1.298	1.675	2.008	2.402	2.676
2	1.061	1.886	2.92	4.303	6.965	9.925	52	0.849	1.298	1.675	2.007	2.4	2.674
3	0.978	1.638	2.353	3.182	4.541	5.841	53	0.848	1.298	1.674	2.006	2.399	2.672
4	0.941	1.533	2.132	2.776	3.747	4.604	54	0.848	1.297	1.674	2.005	2.397	2.67
5	0.92	1.476	2.015	2.571	3.365	4.032	55	0.848	1.297	1.673	2.004	2.396	2.668
6	0.906	1.44	1.943	2.447	3.143	3.707	56	0.848	1.297	1.673	2.003	2.395	2.667
7	0.896	1.415	1.895	2.365	2.998	3.499	57	0.848	1.297	1.672	2.002	2.394	2.665
8	0.889	1.397	1.86	2.306	2.896	3.355	58	0.848	1.296	1.672	2.002	2.392	2.663
9	0.883	1.383	1.833	2.262	2.821	3.25	59	0.848	1.296	1.671	2.001	2.391	2.662
10	0.879	1.372	1.812	2.228	2.764	3.169	60	0.848	1.296	1.671	2	2.39	2.66
11	0.876	1.363	1.796	2.201	2.718	3.106	61	0.848	1.296	1.67	2	2.389	2.659
12	0.873	1.356	1.782	2.179	2.681	3.055	62	0.847	1.295	1.67	1.999	2.388	2.657
13	0.87	1.35	1.771	2.16	2.65	3.012	63	0.847	1.295	1.669	1.998	2.387	2.656
14	0.868	1.345	1.761	2.145	2.624	2.977	64	0.847	1.295	1.669	1.998	2.386	2.655
15	0.866	1.341	1.753	2.131	2.602	2.947	65	0.847	1.295	1.669	1.997	2.385	2.654
16	0.865	1.337	1.746	2.12	2.583	2.921	66	0.847	1.295	1.668	1.997	2.384	2.652
17	0.863	1.333	1.74	2.11	2.567	2.898	67	0.847	1.294	1.668	1.996	2.383	2.651
18	0.862	1.33	1.734	2.101	2.552	2.878	68	0.847	1.294	1.668	1.995	2.382	2.65
19	0.861	1.328	1.729	2.093	2.539	2.861	69	0.847	1.294	1.667	1.995	2.382	2.649
20	0.86	1.325	1.725	2.086	2.528	2.845	70	0.847	1.294	1.667	1.994	2.381	2.648
21	0.859	1.323	1.721	2.08	2.518	2.831	71	0.847	1.294	1.667	1.994	2.38	2.647
22	0.858	1.321	1.717	2.074	2.508	2.819	72	0.847	1.293	1.666	1.993	2.379	2.646
23	0.858	1.319	1.714	2.069	2.5	2.807	73	0.847	1.293	1.666	1.993	2.379	2.645
24	0.857	1.318	1.711	2.064	2.492	2.797	74	0.847	1.293	1.666	1.993	2.378	2.644
25	0.856	1.316	1.708	2.06	2.485	2.787	75	0.846	1.293	1.665	1.992	2.377	2.643
26	0.856	1.315	1.706	2.056	2.479	2.779	76	0.846	1.293	1.665	1.992	2.376	2.642
27	0.855	1.314	1.703	2.052	2.473	2.771	77	0.846	1.293	1.665	1.991	2.376	2.641
28	0.855	1.313	1.701	2.048	2.467	2.763	78	0.846	1.292	1.665	1.991	2.375	2.64
29	0.854	1.311	1.699	2.045	2.462	2.756	79	0.846	1.292	1.664	1.99	2.374	2.639
30	0.854	1.31	1.697	2.042	2.457	2.75	80	0.846	1.292	1.664	1.99	2.374	2.639
31	0.853	1.309	1.696	2.04	2.453	2.744	81	0.846	1.292	1.664	1.99	2.373	2.638
32	0.853	1.309	1.694	2.037	2.449	2.738	82	0.846	1.292	1.664	1.989	2.373	2.637
33	0.853	1.308	1.692	2.035	2.445	2.733	83	0.846	1.292	1.663	1.989	2.372	2.636
34	0.852	1.307	1.691	2.032	2.441	2.728	84	0.846	1.292	1.663	1.989	2.372	2.636
35	0.852	1.306	1.69	2.03	2.438	2.724	85	0.846	1.292	1.663	1.988	2.371	2.635
36	0.852	1.306	1.688	2.028	2.434	2.719	86	0.846	1.291	1.663	1.988	2.37	2.634
37	0.851	1.305	1.687	2.026	2.431	2.715	87	0.846	1.291	1.663	1.988	2.37	2.634
38	0.851	1.304	1.686	2.024	2.429	2.712	88	0.846	1.291	1.662	1.987	2.369	2.633
39	0.851	1.304	1.685	2.023	2.426	2.708	89	0.846	1.291	1.662	1.987	2.369	2.632
40	0.851	1.303	1.684	2.021	2.423	2.704	90	0.846	1.291	1.662	1.987	2.368	2.632
41	0.85	1.303	1.683	2.02	2.421	2.701	91	0.846	1.291	1.662	1.986	2.368	2.631
42	0.85	1.302	1.682	2.018	2.418	2.698	92	0.846	1.291	1.662	1.986	2.368	2.63
43	0.85	1.302	1.681	2.017	2.416	2.695	93	0.846	1.291	1.661	1.986	2.367	2.63
44	0.85	1.301	1.68	2.015	2.414	2.692	94	0.845	1.291	1.661	1.986	2.367	2.629
45	0.85	1.301	1.679	2.014	2.412	2.69	95	0.845	1.291	1.661	1.985	2.366	2.629
46	0.85	1.3	1.679	2.013	2.41	2.687	96	0.845	1.29	1.661	1.985	2.366	2.628
47	0.849	1.3	1.678	2.012	2.408	2.685	97	0.845	1.29	1.661	1.985	2.365	2.627
48	0.849	1.299	1.677	2.011	2.407	2.682	98	0.845	1.29	1.661	1.984	2.365	2.627
49	0.849	1.299	1.677	2.01	2.405	2.68	99	0.845	1.29	1.66	1.984	2.364	2.626
50	0.849	1.299	1.676	2.009	2.403	2.678	100	0.845	1.29	1.66	1.984	2.364	2.626
							∞	0.842	1.282	1.645	1.96	2.326	2.576