

Student's *t* Distribution

Confidence interval: is area between $-t$ and t

Critical value(s): area outside of t value(s)

Confidence		0.700	0.800	0.850	0.900	0.950	0.980	0.990	0.999
one-tail area		0.150	0.100	0.075	0.050	0.025	0.010	0.005	0.0005
two-tail area		0.300	0.200	0.150	0.100	0.050	0.020	0.010	0.001
<i>d.f.</i> ↓	1	1.963	3.078	4.165	6.314	12.706	31.821	63.657	636.619
	2	1.386	1.886	2.282	2.920	4.303	6.965	9.925	31.599
	3	1.250	1.638	1.924	2.353	3.182	4.541	5.841	12.924
	4	1.190	1.533	1.778	2.132	2.776	3.747	4.604	8.610
	5	1.156	1.476	1.699	2.015	2.571	3.365	4.032	6.869
	6	1.134	1.440	1.650	1.943	2.447	3.143	3.707	5.959
	7	1.119	1.415	1.617	1.895	2.365	2.998	3.499	5.408
	8	1.108	1.397	1.592	1.860	2.306	2.896	3.355	5.041
	9	1.100	1.383	1.574	1.833	2.262	2.821	3.250	4.781
	10	1.093	1.372	1.559	1.812	2.228	2.764	3.169	4.587
	11	1.088	1.363	1.548	1.796	2.201	2.718	3.106	4.437
	12	1.083	1.356	1.538	1.782	2.179	2.681	3.055	4.318
	13	1.079	1.350	1.530	1.771	2.160	2.650	3.012	4.221
	14	1.076	1.345	1.523	1.761	2.145	2.624	2.977	4.140
	15	1.074	1.341	1.517	1.753	2.131	2.602	2.947	4.073
	16	1.071	1.337	1.512	1.746	2.120	2.583	2.921	4.015
	17	1.069	1.333	1.508	1.740	2.110	2.567	2.898	3.965
	18	1.067	1.330	1.504	1.734	2.101	2.552	2.878	3.922
	19	1.066	1.328	1.500	1.729	2.093	2.539	2.861	3.883
	20	1.064	1.325	1.497	1.725	2.086	2.528	2.845	3.850
	21	1.063	1.323	1.494	1.721	2.080	2.518	2.831	3.819
	22	1.061	1.321	1.492	1.717	2.074	2.508	2.819	3.792
	23	1.060	1.319	1.489	1.714	2.069	2.500	2.807	3.768
	24	1.059	1.318	1.487	1.711	2.064	2.492	2.797	3.745
	25	1.058	1.316	1.485	1.708	2.060	2.485	2.787	3.725
	26	1.058	1.315	1.483	1.706	2.056	2.479	2.779	3.707
	27	1.057	1.314	1.482	1.703	2.052	2.473	2.771	3.690
	28	1.056	1.313	1.480	1.701	2.048	2.467	2.763	3.674
	29	1.055	1.311	1.479	1.699	2.045	2.462	2.756	3.659
	30	1.055	1.310	1.477	1.697	2.042	2.457	2.750	3.646
	35	1.052	1.306	1.472	1.690	2.030	2.438	2.724	3.591
	40	1.050	1.303	1.468	1.684	2.021	2.423	2.704	3.551
	45	1.049	1.301	1.465	1.679	2.014	2.412	2.690	3.520
	50	1.047	1.299	1.462	1.676	2.009	2.403	2.678	3.496
	60	1.045	1.296	1.458	1.671	2.000	2.390	2.660	3.460
	80	1.043	1.292	1.453	1.664	1.990	2.374	2.639	3.416
	100	1.042	1.290	1.451	1.660	1.984	2.364	2.626	3.390
	500	1.038	1.283	1.442	1.648	1.965	2.334	2.586	3.310