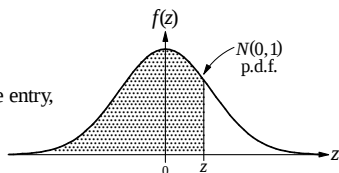


PROBABILITIES FOR THE STANDARD NORMAL DISTRIBUTION $N(0, 1)$

IN THE MAIN UPPER TABLE:

$\Pr[-\infty < N(0, 1) \leq z\text{-value from table margins}] = \text{Table entry,}$

e.g., $\Pr[-\infty < N(0, 1) \leq 0.00] = 0.5000^0 = 0.5;$



Notation:

$$F(0.01) = .5040^{-1} = 0.50399$$

$$F(0.05) = .5199^4 = 0.51994$$

$$F(2.33) = .920097 = 0.990097,$$

where $F(z)$ is the $N(0, 1)$ c.d.f.

$$F(z) = \int_{-\infty}^z f(t) dt = \int_{-\infty}^z \frac{1}{\sqrt{2\pi}} e^{-\frac{1}{2}t^2} dt.$$

THE SMALLER LOWER TABLE provides more accurate and convenient inverse lookup for selected probabilities in the interval 0.5 to 0.999 9995.

z	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
0.0	.5000 ⁰	.5040 ⁻¹	.5080 ⁻²	.5120 ⁻³	.5160 ⁻⁵	.5199 ⁴	.5239 ²	.5279 ⁰	.5319 ⁻²	.5359 ⁻⁴
0.1	.5398 ³	.5438 ⁰	.5478 ⁻⁴	.5517 ²	.5557 ⁻³	.5596 ²	.5636 ⁻⁴	.5675 ⁻¹	.5714 ²	.5753 ⁵
0.2	.5793 ⁻⁴	.5832 ⁻³	.5871 ⁻⁴	.5910 ⁻⁵	.5948 ³	.5987 ¹	.6026 ⁻³	.6064 ²	.6103 ⁻⁴	.6141 ⁻¹
0.3	.6179 ⁻¹	.6217 ²	.6255 ⁻²	.6293 ⁰	.6331 ⁻³	.6368 ³	.6406 ⁻²	.6443 ¹	.6480 ³	.6517 ⁻³
0.4	.6554 ²	.6591 ⁰	.6628 ⁻⁴	.6664 ⁰	.6700 ³	.6736 ⁴	.6772 ⁴	.6808 ²	.6844 ⁻¹	.6879 ³
0.5	.6915 ⁻⁴	.6950 ⁻³	.6985 ⁻³	.7019 ⁴	.7054 ⁰	.7088 ⁴	.7123 ⁻⁴	.7157 ⁻⁴	.7190 ⁴	.7224 ⁰
0.6	.7257 ⁵	.7291 ⁻³	.7324 ⁻³	.7357 ⁻⁵	.7389 ¹	.7422 ⁻⁵	.7454 ⁻³	.7486 ⁻³	.7517 ⁵	.7549 ⁰
0.7	.7580 ⁴	.7611 ⁵	.7642 ⁴	.7673 ⁰	.7704 ⁻⁵	.7734 ⁻³	.7764 ⁻³	.7794 ⁻⁵	.7823 ⁰	.7852 ⁴
0.8	.7881 ⁴	.7910 ³	.7939 ⁻¹	.7967 ³	.7995 ⁵	.8023 ⁴	.8051 ¹	.8078 ⁵	.8106 ⁻³	.8133 ⁻³
0.9	.8159 ⁴	.8186 ⁻¹	.8212 ⁻¹	.8238 ¹	.8264 ⁻¹	.8289 ⁴	.8315 ⁻³	.8340 ⁻²	.8365 ⁻⁴	.8389 ¹
1.0	.8413 ⁴	.8438 ⁻⁵	.8461 ⁴	.8485 ⁻¹	.8508 ³	.8531 ⁴	.8554 ³	.8577 ⁻¹	.8599 ³	.8621 ⁴
1.1	.8643 ³	.8665 ⁰	.8686 ⁴	.8708 ⁻⁴	.8729 ⁻⁴	.8749 ³	.8770 ⁻²	.8790 ⁰	.8810 ⁰	.8830 ⁻²
1.2	.8849 ³	.8869 ⁻⁴	.8888 ⁻³	.8907 ⁻⁵	.8925 ¹	.8944 ⁻⁵	.8962 ⁻³	.8980 ⁻⁴	.8997 ³	.9015 ⁻³
1.3	.9032 ⁰	.9049 ⁰	.9066 ⁻²	.9082 ⁴	.9099 ⁻²	.9115 ⁻¹	.9131 ⁻¹	.9147 ⁻⁴	.9162 ⁻¹	.9177 ⁴
1.4	.9192 ⁴	.9207 ³	.9222 ⁰	.9236 ⁴	.9251 ⁻³	.9265 ⁻³	.9279 ⁻⁵	.9292 ²	.9306 ⁻⁴	.9319 ⁻¹
1.5	.9332 ⁻¹	.9345 ⁻²	.9357 ⁴	.9370 ⁻¹	.9382 ²	.9394 ³	.9406 ²	.9418 ⁻¹	.9429 ⁵	.9441 ⁻²
1.6	.9452 ⁰	.9463 ⁰	.9474 ⁻²	.9484 ⁵	.9495 ⁰	.9505 ³	.9515 ⁴	.9525 ⁴	.9535 ²	.9545 ⁻¹
1.7	.9554 ³	.9564 ⁻³	.9573 ⁻²	.9582 ⁻²	.9591 ⁻³	.9599 ⁴	.9608 ⁰	.9616 ⁴	.9625 ⁻⁴	.9633 ⁻³
1.8	.9641 ⁻³	.9649 ⁻⁵	.9656 ⁻²	.9664 ⁻²	.9671 ²	.9678 ⁴	.9686 ⁻⁴	.9693 ⁻⁴	.9699 ⁵	.9706 ²
1.9	.9713 ⁻²	.9719 ³	.9726 ⁻³	.9732 ⁰	.9738 ¹	.9744 ¹	.9750 ⁰	.9756 ⁻²	.9761 ⁵	.9767 ⁰
2.0	.9772 ⁵	.9778 ⁻²	.9783 ¹	.9788 ²	.9793 ²	.9798 ²	.9803 ⁰	.9808 ⁻³	.9812 ⁴	.9817 ⁻¹
2.1	.9821 ⁴	.9826 ⁻³	.9830 ⁰	.9834 ¹	.9838 ²	.9842 ²	.9846 ¹	.9850 ⁰	.9854 ⁻³	.9857 ⁴
2.2	.9861 ⁰	.9864 ⁵	.9868 ⁻¹	.9871 ¹	.9875 ⁻⁵	.9878 ⁻²	.9881 ⁻¹	.9884 ⁰	.9887 ⁰	.9890 ⁻¹
2.3	.9893 ⁻²	.9896 ⁻⁴	.9898 ³	.920097	.970358	.920613	.920863	.921106	.921344	.921576
2.4	.921802	.922024	.922240	.922451	.922656	.922857	.923053	.923244	.923431	.923613
2.5	.923790	.923963	.924132	.924297	.924457	.924614	.924766	.924915	.925060	.925201
2.6	.925339	.925473	.925604	.925731	.925855	.925975	.926093	.926207	.926319	.926427
2.7	.926533	.926636	.926736	.926833	.926928	.927020	.927110	.927197	.927282	.927365
2.8	.927445	.927523	.927599	.927673	.927744	.927814	.927882	.927948	.928012	.928074
2.9	.928134	.928193	.928250	.928305	.928359	.928411	.928462	.928511	.928559	.928605
3.0	.928650	.928694	.928736	.928777	.928817	.928856	.928893	.928930	.928965	.928999
3.1	.9290324	.9290646	.9290957	.9291260	.9291553	.9291836	.9292112	.9292378	.9292636	.9292886
3.2	.9293129	.9293363	.9293590	.9293810	.9294024	.9294230	.9294429	.9294623	.9294810	.9294991
3.3	.9295166	.9295335	.9295499	.9295658	.9295811	.9295959	.9296103	.9296242	.9296376	.9296505
3.4	.9296631	.9296752	.9296869	.9296982	.9297091	.9297197	.9297299	.9297398	.9297493	.9297585
3.5	.9297674	.9297759	.9297842	.9297922	.9297999	.9298074	.9298146	.9298215	.9298282	.9298347
3.6	.9298409	.9298469	.9298527	.9298583	.9298637	.9298689	.9298739	.9298787	.9298834	.9298879
3.7	.9298922	.9298964	.9299009	.92990426	.92990799	.92991158	.92991504	.92991838	.92992159	.92992468
3.8	.92992765	.92993052	.92993327	.92993593	.92993848	.92994094	.92994331	.92994558	.92994777	.92994988
3.9	.92995190	.92995385	.92995573	.92995753	.92995926	.92996092	.92996253	.92996406	.92996554	.92996696
4.0	.92996833	.92996964	.92997090	.92997211	.92997327	.92997439	.92997546	.92997649	.92997748	.92997843
5	.92997134									
6	.929970134									
7	.9299718720									
8	.92997153779									
9	.92997188872									
10	.929972380									
12	.9299728224									
14	.9299742207									
16	.92997573611									
18	.9299770259									
20	.9299787246									
25	.9299794943									
30	.92997975093									
40	.92997946344									
50	.92997948919									
60	.92997838762									
70	.9299790664577									
80	.9299793920976									
100	.92997921738656									

INVERSE $N(0, 1)$ C.d.f., giving z for a specified $F(z) \geq 0.5$

.50	0	.60	.2533	.70	.5244	.80	.8416	.90	1.2816	.990	2.3263
.51	.02507	.61	.2793	.71	.5534	.81	.8779	.91	1.3408	.991	2.3656
.52	.05015	.62	.3055	.72	.5828	.82	.9154	.92	1.4051	.992	2.4089
.53	.07527	.63	.3319	.73	.6128	.83	.9542	.93	1.4758	.993	2.4573
.54	.1004	.64	.3585	.74	.6433	.84	.9945	.94	1.5548	.994	2.5121
.55	.1257	.65	.3853	.75	.6745	.85	1.0364	.95	1.6449	.995	2.5758
.56	.1510	.66	.4125	.76	.7063	.86	1.0803	.96	1.7507	.996	2.6521
.57	.1764	.67	.4399	.77	.7388	.87	1.1264	.97	1.8808	.997	2.7478
.58	.2019	.68	.4677	.78	.7722	.88	1.1750	.975	1.9600	.998	2.8782
.59	.2275	.69	.4959	.79	.8064	.89	1.2265	.98	2.0537	.999	3.0902
										.995	3.2905
										.995	3.8906
										.995	4.4172
										.995	4.8916