Función de distribución de la variable aleatoria con

distribución normal standard

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ***Z*** | **0.00** | **0.01** | **0.02** | **0.03** | **0.04** | **0.05** | **0.06** | **0.07** | **0.08** | **0.09** |
| **0.0** | 0.5000 | 0.5040 | 0.5080 | 0.5120 | 0.5160 | 0.5199 | 0.5239 | 0.5279 | 0.5319 | 0.5359 |
| **0.1** | 0.5398 | 0.5438 | 0.5478 | 0.5517 | 0.5557 | 0.5596 | 0.5636 | 0.5675 | 0.5714 | 0.5753 |
| **0.2** | 0.5793 | 0.5832 | 0.5871 | 0.5910 | 0.5948 | 0.5987 | 0.6026 | 0.6064 | 0.6103 | 0.6141 |
| **0.3** | 0.6179 | 0.6217 | 0.6255 | 0.6293 | 0.6331 | 0.6368 | 0.6406 | 0.6443 | 0.6480 | 0.6517 |
| **0.4** | 0.6554 | 0.6591 | 0.6628 | 0.6664 | 0.6700 | 0.6736 | 0.6772 | 0.6808 | 0.6844 | 0.6879 |
| **0.5** | 0.6915 | 0.6950 | 0.6985 | 0.7019 | 0.7054 | 0.7088 | 0.7123 | 0.7157 | 0.7190 | 0.7224 |
| **0.6** | 0.7257 | 0.7291 | 0.7324 | 0.7357 | 0.7389 | 0.7422 | 0.7454 | 0.7486 | 0.7517 | 0.7549 |
| **0.7** | 0.7580 | 0.7611 | 0.7642 | 0.7673 | 0.7704 | 0.7734 | 0.7764 | 0.7794 | 0.7823 | 0.7852 |
| **0.8** | 0.7881 | 0.7910 | 0.7939 | 0.7967 | 0.7995 | 0.8023 | 0.8051 | 0.8078 | 0.8106 | 0.8133 |
| **0.9** | 0.8159 | 0.8186 | 0.8212 | 0.8238 | 0.8264 | 0.8289 | 0.8315 | 0.8340 | 0.8365 | 0.8389 |
| **1.0** | 0.8413 | 0.8438 | 0.8461 | 0.8485 | 0.8508 | 0.8531 | 0.8554 | 0.8577 | 0.8599 | 0.8621 |
| **1.1** | 0.8643 | 0.8665 | 0.8686 | 0.8708 | 0.8729 | 0.8749 | 0.8770 | 0.8790 | 0.8810 | 0.8830 |
| **1.2** | 0.8849 | 0.8869 | 0.8888 | 0.8907 | 0.8925 | 0.8944 | 0.8962 | 0.8980 | 0.8997 | 0.9015 |
| **1.3** | 0.9032 | 0.9049 | 0.9066 | 0.9082 | 0.9099 | 0.9115 | 0.9131 | 0.9147 | 0.9162 | 0.9177 |
| **1.4** | 0.9192 | 0.9207 | 0.9222 | 0.9236 | 0.9251 | 0.9265 | 0.9279 | 0.9292 | 0.9306 | 0.9319 |
| **1.5** | 0.9332 | 0.9345 | 0.9357 | 0.9370 | 0.9382 | 0.9394 | 0.9406 | 0.9418 | 0.9429 | 0.9441 |
| **1.6** | 0.9452 | 0.9463 | 0.9474 | 0.9484 | 0.9495 | 0.9505 | 0.9515 | 0.9525 | 0.9535 | 0.9545 |
| **1.7** | 0.9554 | 0.9564 | 0.9573 | 0.9582 | 0.9591 | 0.9599 | 0.9608 | 0.9616 | 0.9625 | 0.9633 |
| **1.8** | 0.9641 | 0.9649 | 0.9656 | 0.9664 | 0.9671 | 0.9678 | 0.9686 | 0.9693 | 0.9699 | 0.9706 |
| **1.9** | 0.9713 | 0.9719 | 0.9726 | 0.9732 | 0.9738 | 0.9744 | 0.9750 | 0.9756 | 0.9761 | 0.9767 |
| **2.0** | 0.9772 | 0.9778 | 0.9783 | 0.9788 | 0.9793 | 0.9798 | 0.9803 | 0.9808 | 0.9812 | 0.9817 |
| **2.1** | 0.9821 | 0.9826 | 0.9830 | 0.9834 | 0.9838 | 0.9842 | 0.9846 | 0.9850 | 0.9854 | 0.9857 |
| **2.2** | 0.9861 | 0.9864 | 0.9868 | 0.9871 | 0.9875 | 0.9878 | 0.9881 | 0.9884 | 0.9887 | 0.9890 |
| **2.3** | 0.9893 | 0.9896 | 0.9898 | 0.9901 | 0.9904 | 0.9906 | 0.9909 | 0.9911 | 0.9913 | 0.9916 |
| **2.4** | 0.9918 | 0.9920 | 0.9922 | 0.9925 | 0.9927 | 0.9929 | 0.9931 | 0.9932 | 0.9934 | 0.9936 |
| **2.5** | 0.9938 | 0.9940 | 0.9941 | 0.9943 | 0.9945 | 0.9946 | 0.9948 | 0.9949 | 0.9951 | 0.9952 |
| **2.6** | 0.9953 | 0.9955 | 0.9956 | 0.9957 | 0.9959 | 0.9960 | 0.9961 | 0.9962 | 0.9963 | 0.9964 |
| **2.7** | 0.9965 | 0.9966 | 0.9967 | 0.9968 | 0.9969 | 0.9970 | 0.9971 | 0.9972 | 0.9973 | 0.9974 |
| **2.8** | 0.9974 | 0.9975 | 0.9976 | 0.9977 | 0.9977 | 0.9978 | 0.9979 | 0.9979 | 0.9980 | 0.9981 |
| **2.9** | 0.9981 | 0.9982 | 0.9982 | 0.9983 | 0.9984 | 0.9984 | 0.9985 | 0.9985 | 0.9986 | 0.9986 |
| **3.0** | 0.9987 | 0.9987 | 0.9987 | 0.9988 | 0.9988 | 0.9989 | 0.9989 | 0.9989 | 0.9990 | 0.9990 |
| **3.1** | 0.9990 | 0.9991 | 0.9991 | 0.9991 | 0.9992 | 0.9992 | 0.9992 | 0.9992 | 0.9993 | 0.9993 |
| **3.2** | 0.9993 | 0.9993 | 0.9994 | 0.9994 | 0.9994 | 0.9994 | 0.9994 | 0.9995 | 0.9995 | 0.9995 |
| **3.3** | 0.9995 | 0.9995 | 0.9995 | 0.9996 | 0.9996 | 0.9996 | 0.9996 | 0.9996 | 0.9996 | 0.9997 |
| **3.4** | 0.9997 | 0.9997 | 0.9997 | 0.9997 | 0.9997 | 0.9997 | 0.9997 | 0.9997 | 0.9997 | 0.9998 |
| **3.5** | 0.9998 | 0.9998 | 0.9998 | 0.9998 | 0.9998 | 0.9998 | 0.9998 | 0.9998 | 0.9998 | 0.9998 |
| **3.6** | 0.9998 | 0.9998 | 0.9999 | 0.9999 | 0.9999 | 0.9999 | 0.9999 | 0.9999 | 0.9999 | 0.9999 |
| **3.7** | 0.9999 | 0.9999 | 0.9999 | 0.9999 | 0.9999 | 0.9999 | 0.9999 | 0.9999 | 0.9999 | 0.9999 |
| **3.8** | 0.9999 | 0.9999 | 0.9999 | 0.9999 | 0.9999 | 0.9999 | 0.9999 | 0.9999 | 0.9999 | 0.9999 |
| **3.9** | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |
| **4.0** | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 |

Fractiles de la distribución normal standard :

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **0.000** | **0.001** | **0.002** | **0.003** | **0.004** | **0.005** | **0.006** | **0.007** | **0.008** | **0.009** |
| **0.50** | 0.0000 | 0.0025 | 0.0050 | 0.0075 | 0.0100 | 0.0125 | 0.0150 | 0.0175 | 0.0201 | 0.0226 |
| **0.51** | 0.0251 | 0.0276 | 0.0301 | 0.0326 | 0.0351 | 0.0376 | 0.0401 | 0.0426 | 0.0451 | 0.0476 |
| **0.52** | 0.0502 | 0.0527 | 0.0552 | 0.0577 | 0.0602 | 0.0627 | 0.0652 | 0.0677 | 0.0702 | 0.0728 |
| **0.53** | 0.0753 | 0.0778 | 0.0803 | 0.0828 | 0.0853 | 0.0878 | 0.0904 | 0.0929 | 0.0954 | 0.0979 |
| **0.54** | 0.1004 | 0.1030 | 0.1055 | 0.1080 | 0.1105 | 0.1130 | 0.1156 | 0.1181 | 0.1206 | 0.1231 |
| **0.55** | 0.1257 | 0.1282 | 0.1307 | 0.1332 | 0.1358 | 0.1383 | 0.1408 | 0.1434 | 0.1459 | 0.1484 |
| **0.56** | 0.1510 | 0.1535 | 0.1560 | 0.1586 | 0.1611 | 0.1637 | 0.1662 | 0.1687 | 0.1713 | 0.1738 |
| **0.57** | 0.1764 | 0.1789 | 0.1815 | 0.1840 | 0.1866 | 0.1891 | 0.1917 | 0.1942 | 0.1968 | 0.1993 |
| **0.58** | 0.2019 | 0.2045 | 0.2070 | 0.2096 | 0.2121 | 0.2147 | 0.2173 | 0.2198 | 0.2224 | 0.2250 |
| **0.59** | 0.2275 | 0.2301 | 0.2327 | 0.2353 | 0.2378 | 0.2404 | 0.2430 | 0.2456 | 0.2482 | 0.2508 |
| **0.60** | 0.2533 | 0.2559 | 0.2585 | 0.2611 | 0.2637 | 0.2663 | 0.2689 | 0.2715 | 0.2741 | 0.2767 |
| **0.61** | 0.2793 | 0.2819 | 0.2845 | 0.2871 | 0.2898 | 0.2924 | 0.2950 | 0.2976 | 0.3002 | 0.3029 |
| **0.62** | 0.3055 | 0.3081 | 0.3107 | 0.3134 | 0.3160 | 0.3186 | 0.3213 | 0.3239 | 0.3266 | 0.3292 |
| **0.63** | 0.3319 | 0.3345 | 0.3372 | 0.3398 | 0.3425 | 0.3451 | 0.3478 | 0.3505 | 0.3531 | 0.3558 |
| **0.64** | 0.3585 | 0.3611 | 0.3638 | 0.3665 | 0.3692 | 0.3719 | 0.3745 | 0.3772 | 0.3799 | 0.3826 |
| **0.65** | 0.3853 | 0.3880 | 0.3907 | 0.3934 | 0.3961 | 0.3989 | 0.4016 | 0.4043 | 0.4070 | 0.4097 |
| **0.66** | 0.4125 | 0.4152 | 0.4179 | 0.4207 | 0.4234 | 0.4261 | 0.4289 | 0.4316 | 0.4344 | 0.4372 |
| **0.67** | 0.4399 | 0.4427 | 0.4454 | 0.4482 | 0.4510 | 0.4538 | 0.4565 | 0.4593 | 0.4621 | 0.4649 |
| **0.68** | 0.4677 | 0.4705 | 0.4733 | 0.4761 | 0.4789 | 0.4817 | 0.4845 | 0.4874 | 0.4902 | 0.4930 |
| **0.69** | 0.4958 | 0.4987 | 0.5015 | 0.5044 | 0.5072 | 0.5101 | 0.5129 | 0.5158 | 0.5187 | 0.5215 |
| **0.70** | 0.5244 | 0.5273 | 0.5302 | 0.5330 | 0.5359 | 0.5388 | 0.5417 | 0.5446 | 0.5476 | 0.5505 |
| **0.71** | 0.5534 | 0.5563 | 0.5592 | 0.5622 | 0.5651 | 0.5681 | 0.5710 | 0.5740 | 0.5769 | 0.5799 |
| **0.72** | 0.5828 | 0.5858 | 0.5888 | 0.5918 | 0.5948 | 0.5978 | 0.6008 | 0.6038 | 0.6068 | 0.6098 |
| **0.73** | 0.6128 | 0.6158 | 0.6189 | 0.6219 | 0.6250 | 0.6280 | 0.6311 | 0.6341 | 0.6372 | 0.6403 |
| **0.74** | 0.6433 | 0.6464 | 0.6495 | 0.6526 | 0.6557 | 0.6588 | 0.6620 | 0.6651 | 0.6682 | 0.6713 |
| **0.75** | 0.6745 | 0.6776 | 0.6808 | 0.6840 | 0.6871 | 0.6903 | 0.6935 | 0.6967 | 0.6999 | 0.7031 |
| **0.76** | 0.7063 | 0.7095 | 0.7128 | 0.7160 | 0.7192 | 0.7225 | 0.7257 | 0.7290 | 0.7323 | 0.7356 |
| **0.77** | 0.7388 | 0.7421 | 0.7454 | 0.7488 | 0.7521 | 0.7554 | 0.7588 | 0.7621 | 0.7655 | 0.7688 |
| **0.78** | 0.7722 | 0.7756 | 0.7790 | 0.7824 | 0.7858 | 0.7892 | 0.7926 | 0.7961 | 0.7995 | 0.8030 |
| **0.79** | 0.8064 | 0.8099 | 0.8134 | 0.8169 | 0.8204 | 0.8239 | 0.8274 | 0.8310 | 0.8345 | 0.8381 |
| **0.80** | 0.8416 | 0.8452 | 0.8488 | 0.8524 | 0.8560 | 0.8596 | 0.8632 | 0.8669 | 0.8706 | 0.8742 |
| **0.81** | 0.8779 | 0.8816 | 0.8853 | 0.8890 | 0.8927 | 0.8965 | 0.9002 | 0.9040 | 0.9078 | 0.9116 |
| **0.82** | 0.9154 | 0.9192 | 0.9230 | 0.9269 | 0.9307 | 0.9346 | 0.9385 | 0.9424 | 0.9463 | 0.9502 |
| **0.83** | 0.9542 | 0.9581 | 0.9621 | 0.9661 | 0.9701 | 0.9741 | 0.9782 | 0.9822 | 0.9863 | 0.9904 |
| **0.84** | 0.9945 | 0.9986 | 1.0027 | 1.0069 | 1.0110 | 1.0152 | 1.0194 | 1.0237 | 1.0279 | 1.0322 |
| **0.85** | 1.0364 | 1.0407 | 1.0451 | 1.0494 | 1.0537 | 1.0581 | 1.0625 | 1.0669 | 1.0714 | 1.0758 |
| **0.86** | 1.0803 | 1.0848 | 1.0893 | 1.0939 | 1.0985 | 1.1031 | 1.1077 | 1.1123 | 1.1170 | 1.1217 |
| **0.87** | 1.1264 | 1.1311 | 1.1359 | 1.1407 | 1.1455 | 1.1503 | 1.1552 | 1.1601 | 1.1650 | 1.1700 |
| **0.88** | 1.1750 | 1.1800 | 1.1850 | 1.1901 | 1.1952 | 1.2004 | 1.2055 | 1.2107 | 1.2160 | 1.2212 |
| **0.89** | 1.2265 | 1.2319 | 1.2372 | 1.2426 | 1.2481 | 1.2536 | 1.2591 | 1.2646 | 1.2702 | 1.2759 |
| **0.90** | 1.2816 | 1.2873 | 1.2930 | 1.2988 | 1.3047 | 1.3106 | 1.3165 | 1.3225 | 1.3285 | 1.3346 |
| **0.91** | 1.3408 | 1.3469 | 1.3532 | 1.3595 | 1.3658 | 1.3722 | 1.3787 | 1.3852 | 1.3917 | 1.3984 |
| **0.92** | 1.4051 | 1.4118 | 1.4187 | 1.4255 | 1.4325 | 1.4395 | 1.4466 | 1.4538 | 1.4611 | 1.4684 |
| **0.93** | 1.4758 | 1.4833 | 1.4909 | 1.4985 | 1.5063 | 1.5141 | 1.5220 | 1.5301 | 1.5382 | 1.5464 |
| **0.94** | 1.5548 | 1.5632 | 1.5718 | 1.5805 | 1.5893 | 1.5982 | 1.6072 | 1.6164 | 1.6258 | 1.6352 |
| **0.95** | 1.6449 | 1.6546 | 1.6646 | 1.6747 | 1.6849 | 1.6954 | 1.7060 | 1.7169 | 1.7279 | 1.7392 |
| **0.96** | 1.7507 | 1.7624 | 1.7744 | 1.7866 | 1.7991 | 1.8119 | 1.8250 | 1.8384 | 1.8522 | 1.8663 |
| **0.97** | 1.8808 | 1.8957 | 1.9110 | 1.9268 | 1.9431 | 1.9600 | 1.9774 | 1.9954 | 2.0141 | 2.0335 |
| **0.98** | 2.0537 | 2.0748 | 2.0969 | 2.1201 | 2.1444 | 2.1701 | 2.1973 | 2.2262 | 2.2571 | 2.2904 |
| **0.99** | 2.3263 | 2.3656 | 2.4089 | 2.4573 | 2.5121 | 2.5758 | 2.6521 | 2.7478 | 2.8782 | 3.0902 |