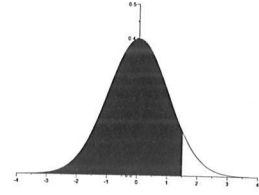


C.1 Loi normale centrée réduite $\mathcal{N}(0, 1)$

Table de la fonction de répartition

$$p = \mathbb{P}(X \leq x) = \int_{-\infty}^x \frac{1}{\sqrt{2\pi}} \exp\left(-\frac{1}{2}t^2\right) dt$$

Par exemple : si $x = 1.5 + 0.04$ alors $p = 0.9382$



x	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

Cas des grandes valeurs de x

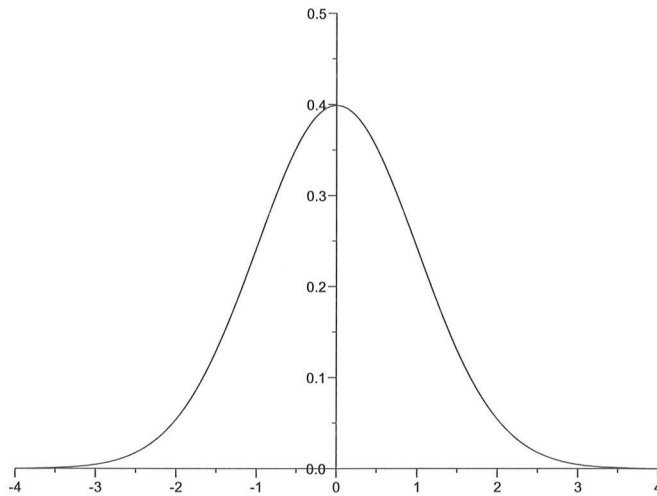
x	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7
p	0.998650	0.999032	0.999313	0.999517	0.999663	0.999767	0.999841	0.999892
1-p	0.001350	0.000968	0.000687	0.000483	0.000337	0.000233	0.000159	0.000108

x	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5
p	0.999928	0.999952	0.999968	0.999979	0.999987	0.999991	0.999995	0.999997
1-p	0.000072	0.000048	0.000032	0.000021	0.000013	0.000009	0.000005	0.000003

Loi normale centrée réduite : suite

Table de dépassement de l'écart absolu : $\mathbb{P}(|Z| > z_\alpha) = \alpha$

Graphe de la densité $\phi(t) = \frac{1}{\sqrt{2\pi}} \exp\left(-\frac{1}{2}t^2\right)$.



Par exemple : si $\alpha = 0.1 + 0.03$ alors $z_\alpha = 1.514$.

Cas des grandes valeurs de α :

α	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.0	∞	2.576	2.326	2.170	2.054	1.960	1.881	1.812	1.751	1.695
0.1	1.645	1.598	1.555	1.514	1.476	1.440	1.405	1.372	1.341	1.311
0.2	1.282	1.254	1.227	1.200	1.175	1.150	1.126	1.103	1.080	1.058
0.3	1.036	1.015	0.994	0.974	0.954	0.935	0.915	0.896	0.878	0.860
0.4	0.842	0.824	0.806	0.789	0.772	0.755	0.739	0.722	0.706	0.690
0.5	0.674	0.659	0.643	0.628	0.613	0.598	0.583	0.568	0.553	0.539
0.6	0.524	0.510	0.496	0.482	0.468	0.454	0.440	0.426	0.412	0.399
0.7	0.385	0.372	0.358	0.345	0.332	0.319	0.305	0.292	0.279	0.266
0.8	0.253	0.240	0.228	0.215	0.202	0.189	0.176	0.164	0.151	0.138
0.9	0.126	0.113	0.100	0.088	0.075	0.063	0.050	0.038	0.025	0.013

Cas des petites valeurs de α :

α	0.010	0.005	0.002	0.001	0.0005	0.0002	0.0001	0.00005	0.00002	0.00001
x	2.576	2.807	3.090	3.291	3.481	3.719	3.891	4.056	4.265	4.417