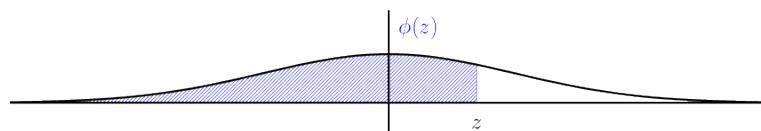


1 La loi normale



$$\Phi(z) = \int_{-\infty}^z \frac{1}{\sqrt{2\pi}} \exp\left(-\frac{t^2}{2}\right) dt$$

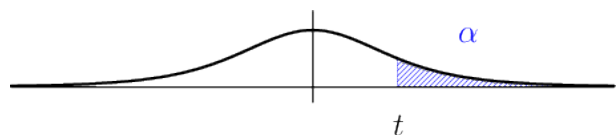
z	0,00	0,01	0,02	0,03	0,04	0,05	0,06	0,07	0,08	0,09
0,0	0,5000	0,5040	0,5080	0,5120	0,5160	0,5199	0,5239	0,5279	0,5319	0,5359
0,1	0,5398	0,5438	0,5478	0,5517	0,5557	0,5596	0,5636	0,5675	0,5714	0,5753
0,2	0,5793	0,5832	0,5871	0,5910	0,5948	0,5987	0,6026	0,6064	0,6103	0,6141
0,3	0,6179	0,6217	0,6255	0,6293	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

TABLE 1 – Quantiles de la loi normale centrée réduite

Table pour les grandes valeurs de z.

z	3,0	3,1	3,2	3,3	3,4	3,5	3,6	3,7	3,8	3,9
$\Phi(z)$	0,9986	0,9990	0,9993	0,9995	0,9997	0,9998	0,9999	0,9999	0,9999	0,9999

2 La loi de Student

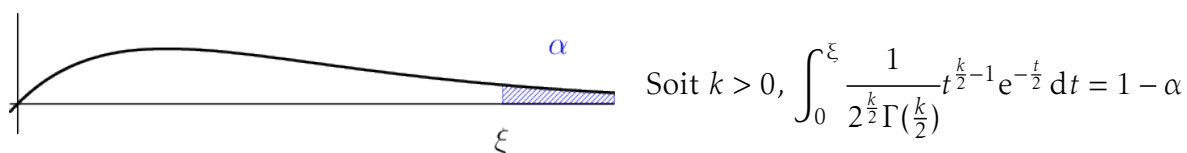


Soit $k > 0$, $\int_{-\infty}^t \frac{1}{\sqrt{k\pi}} \frac{\Gamma(\frac{k+1}{2})}{\Gamma(\frac{k}{2})} \left(1 + \frac{x^2}{k}\right)^{-\frac{k+1}{2}} dx = 1 - \alpha$

$k \backslash \alpha$	0,10	0,05	0,025	0,02	0,01	0,005	0,0025	0,001	0,0005
1	3,0777	6,3138	12,7062	15,8945	31,8205	63,6567	127,3213	318,3088	636,6192
2	1,8856	2,9200	4,3027	4,8487	6,9646	9,9248	14,0890	22,3271	31,5991
3	1,6377	2,3534	3,1824	3,4819	4,5407	5,8409	7,4533	10,2145	12,9240
4	1,5332	2,1318	2,7764	2,9985	3,7469	4,6041	5,5976	7,1732	8,6103
5	1,4759	2,0150	2,5706	2,7565	3,3649	4,0321	4,7733	5,8934	6,8688
6	1,4398	1,9432	2,4469	2,6122	3,1427	3,7074	4,3168	5,2076	5,9588
7	1,4149	1,8946	2,3646	2,5168	2,9980	3,4995	4,0293	4,7853	5,4079
8	1,3968	1,8595	2,3060	2,4490	2,8965	3,3554	3,8325	4,5008	5,0413
9	1,3830	1,8331	2,2622	2,3984	2,8214	3,2498	3,6897	4,2968	4,7809
10	1,3722	1,8125	2,2281	2,3593	2,7638	3,1693	3,5814	4,1437	4,5869
11	1,3634	1,7959	2,2010	2,3281	2,7181	3,1058	3,4966	4,0247	4,4370
12	1,3562	1,7823	2,1788	2,3027	2,6810	3,0545	3,4284	3,9296	4,3178
13	1,3502	1,7709	2,1604	2,2816	2,6503	3,0123	3,3725	3,8520	4,2208
14	1,3450	1,7613	2,1448	2,2638	2,6245	2,9768	3,3257	3,7874	4,1405
15	1,3406	1,7531	2,1314	2,2485	2,6025	2,9467	3,2860	3,7328	4,0728
16	1,3368	1,7459	2,1199	2,2354	2,5835	2,9208	3,2520	3,6862	4,0150
17	1,3334	1,7396	2,1098	2,2238	2,5669	2,8982	3,2224	3,6458	3,9651
18	1,3304	1,7341	2,1009	2,2137	2,5524	2,8784	3,1966	3,6105	3,9216
19	1,3277	1,7291	2,0930	2,2047	2,5395	2,8609	3,1737	3,5794	3,8834
20	1,3253	1,7247	2,0860	2,1967	2,5280	2,8453	3,1534	3,5518	3,8495
21	1,3232	1,7207	2,0796	2,1894	2,5176	2,8314	3,1352	3,5272	3,8193
22	1,3212	1,7171	2,0739	2,1829	2,5083	2,8188	3,1188	3,5050	3,7921
23	1,3195	1,7139	2,0687	2,1770	2,4999	2,8073	3,1040	3,4850	3,7676
24	1,3178	1,7109	2,0639	2,1715	2,4922	2,7969	3,0905	3,4668	3,7454
25	1,3163	1,7081	2,0595	2,1666	2,4851	2,7874	3,0782	3,4502	3,7251
26	1,3150	1,7056	2,0555	2,1620	2,4786	2,7787	3,0669	3,4350	3,7066
27	1,3137	1,7033	2,0518	2,1578	2,4727	2,7707	3,0565	3,4210	3,6896
28	1,3125	1,7011	2,0484	2,1539	2,4671	2,7633	3,0469	3,4082	3,6739
29	1,3114	1,6991	2,0452	2,1503	2,4620	2,7564	3,0380	3,3962	3,6594
30	1,3104	1,6973	2,0423	2,1470	2,4573	2,7500	3,0298	3,3852	3,6460
40	1,3031	1,6839	2,0211	2,1229	2,4233	2,7045	2,9712	3,3069	3,5510
50	1,2987	1,6759	2,0086	2,1087	2,4033	2,6778	2,9370	3,2614	3,4960
60	1,2958	1,6706	2,0003	2,0994	2,3901	2,6603	2,9146	3,2317	3,4602
70	1,2938	1,6669	1,9944	2,0927	2,3808	2,6479	2,8987	3,2108	3,4350
80	1,2922	1,6641	1,9901	2,0878	2,3739	2,6387	2,8870	3,1953	3,4163
90	1,2910	1,6620	1,9867	2,0839	2,3685	2,6316	2,8779	3,1833	3,4019
100	1,2901	1,6602	1,9840	2,0809	2,3642	2,6259	2,8707	3,1737	3,3905
1000	1,2824	1,6464	1,9623	2,0564	2,3301	2,5808	2,8133	3,0984	3,3003

TABLE 2 – Quantiles de la loi de Student

3 La loi du χ^2



$k \backslash \alpha$	0,005	0,01	0,025	0,05	0,1	0,2	0,3	0,4	0,5
1	7,879	6,635	5,024	3,841	2,706	1,642	1,074	0,708	0,455
2	10,597	9,210	7,378	5,991	4,605	3,219	2,408	1,833	1,386
3	12,838	11,345	9,348	7,815	6,251	4,642	3,665	2,946	2,366
4	14,860	13,277	11,143	9,488	7,779	5,989	4,878	4,045	3,357
5	16,750	15,086	12,833	11,070	9,236	7,289	6,064	5,132	4,351
6	18,548	16,812	14,449	12,592	10,645	8,558	7,231	6,211	5,348
7	20,278	18,475	16,013	14,067	12,017	9,803	8,383	7,283	6,346
8	21,955	20,090	17,535	15,507	13,362	11,030	9,524	8,351	7,344
9	23,589	21,666	19,023	16,919	14,684	12,242	10,656	9,414	8,343
10	25,188	23,209	20,483	18,307	15,987	13,442	11,781	10,473	9,342
11	26,757	24,725	21,920	19,675	17,275	14,631	12,899	11,530	10,341
12	28,300	26,217	23,337	21,026	18,549	15,812	14,011	12,584	11,340
13	29,819	27,688	24,736	22,362	19,812	16,985	15,119	13,636	12,340
14	31,319	29,141	26,119	23,685	21,064	18,151	16,222	14,685	13,339
15	32,801	30,578	27,488	24,996	22,307	19,311	17,322	15,733	14,339
16	34,267	32,000	28,845	26,296	23,542	20,465	18,418	16,780	15,338
17	35,718	33,409	30,191	27,587	24,769	21,615	19,511	17,824	16,338
18	37,156	34,805	31,526	28,869	25,989	22,760	20,601	18,868	17,338
19	38,582	36,191	32,852	30,144	27,204	23,900	21,689	19,910	18,338
20	39,997	37,566	34,170	31,410	28,412	25,038	22,775	20,951	19,337
21	41,401	38,932	35,479	32,671	29,615	26,171	23,858	21,991	20,337
22	42,796	40,289	36,781	33,924	30,813	27,301	24,939	23,031	21,337
23	44,181	41,638	38,076	35,172	32,007	28,429	26,018	24,069	22,337
24	45,559	42,980	39,364	36,415	33,196	29,553	27,096	25,106	23,337
25	46,928	44,314	40,646	37,652	34,382	30,675	28,172	26,143	24,337
26	48,290	45,642	41,923	38,885	35,563	31,795	29,246	27,179	25,336
27	49,645	46,963	43,195	40,113	36,741	32,912	30,319	28,214	26,336
28	50,993	48,278	44,461	41,337	37,916	34,027	31,391	29,249	27,336
29	52,336	49,588	45,722	42,557	39,087	35,139	32,461	30,283	28,336
30	53,672	50,892	46,979	43,773	40,256	36,250	33,530	31,316	29,336

TABLE 3 – Quantiles de la loi du χ^2