

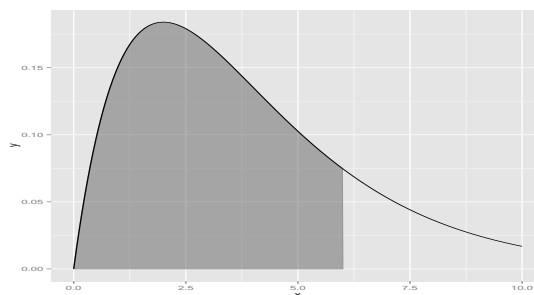
TABLE OF THE (NON-CENTRAL) χ^2 DISTRIBUTION

Let $X \sim \chi_k^2 = \chi^2(k)$, $k = \#$ degrees of freedom

$$f(x; k) = \begin{cases} \frac{x^{\frac{k}{2}-1} e^{-\frac{x}{2}}}{2^{\frac{k}{2}} \Gamma(\frac{k}{2})} & x \geq 0 \\ 0 & , \text{ otherwise} \end{cases}$$

$P(X \leq x)$ is given by:

$$\int_0^x f(x; k) dx$$



	$\chi_{0.995}^2$	$\chi_{0.99}^2$	$\chi_{0.975}^2$	$\chi_{0.95}^2$	$\chi_{0.9}^2$	$\chi_{0.75}^2$	$\chi_{0.5}^2$	$\chi_{0.25}^2$	$\chi_{0.1}^2$	$\chi_{0.05}^2$	$\chi_{0.01}^2$
1	7.9	6.6	5.0	3.8	2.7	1.3	0.5	0.1	0.0	0.0	0.0
2	10.6	9.2	7.4	6.0	4.6	2.8	1.4	0.6	0.2	0.1	0.0
3	12.8	11.3	9.3	7.8	6.3	4.1	2.4	1.2	0.6	0.4	0.1
4	14.9	13.3	11.1	9.5	7.8	5.4	3.4	1.9	1.1	0.7	0.3
5	16.7	15.1	12.8	11.1	9.2	6.6	4.4	2.7	1.6	1.1	0.6
6	18.5	16.8	14.4	12.6	10.6	7.8	5.3	3.5	2.2	1.6	0.9
7	20.3	18.5	16.0	14.1	12.0	9.0	6.3	4.3	2.8	2.2	1.2
8	22.0	20.1	17.5	15.5	13.4	10.2	7.3	5.1	3.5	2.7	1.6
9	23.6	21.7	19.0	16.9	14.7	11.4	8.3	5.9	4.2	3.3	2.1
10	25.2	23.2	20.5	18.3	16.0	12.5	9.3	6.7	4.9	3.9	2.6
11	26.8	24.7	21.9	19.7	17.3	13.7	10.3	7.6	5.6	4.6	3.1
12	28.3	26.2	23.3	21.0	18.5	14.8	11.3	8.4	6.3	5.2	3.6
13	29.8	27.7	24.7	22.4	19.8	16.0	12.3	9.3	7.0	5.9	4.1
14	31.3	29.1	26.1	23.7	21.1	17.1	13.3	10.2	7.8	6.6	4.7
15	32.8	30.6	27.5	25.0	22.3	18.2	14.3	11.0	8.5	7.3	5.2
16	34.3	32.0	28.8	26.3	23.5	19.4	15.3	11.9	9.3	8.0	5.8
17	35.7	33.4	30.2	27.6	24.8	20.5	16.3	12.8	10.1	8.7	6.4
18	37.2	34.8	31.5	28.9	26.0	21.6	17.3	13.7	10.9	9.4	7.0
19	38.6	36.2	32.9	30.1	27.2	22.7	18.3	14.6	11.7	10.1	7.6
20	40.0	37.6	34.2	31.4	28.4	23.8	19.3	15.5	12.4	10.9	8.3
21	41.4	38.9	35.5	32.7	29.6	24.9	20.3	16.3	13.2	11.6	8.9
22	42.8	40.3	36.8	33.9	30.8	26.0	21.3	17.2	14.0	12.3	9.5
23	44.2	41.6	38.1	35.2	32.0	27.1	22.3	18.1	14.8	13.1	10.2
24	45.6	43.0	39.4	36.4	33.2	28.2	23.3	19.0	15.7	13.8	10.9
25	46.9	44.3	40.6	37.7	34.4	29.3	24.3	19.9	16.5	14.6	11.5
26	48.3	45.6	41.9	38.9	35.6	30.4	25.3	20.8	17.3	15.4	12.2
27	49.6	47.0	43.2	40.1	36.7	31.5	26.3	21.7	18.1	16.2	12.9
28	51.0	48.3	44.5	41.3	37.9	32.6	27.3	22.7	18.9	16.9	13.6
29	52.3	49.6	45.7	42.6	39.1	33.7	28.3	23.6	19.8	17.7	14.3
30	53.7	50.9	47.0	43.8	40.3	34.8	29.3	24.5	20.6	18.5	15.0
40	66.8	63.7	59.3	55.8	51.8	45.6	39.3	33.7	29.1	26.5	22.2
50	79.5	76.2	71.4	67.5	63.2	56.3	49.3	42.9	37.7	34.8	29.7
60	92.0	88.4	83.3	79.1	74.4	67.0	59.3	52.3	46.5	43.2	37.5
70	104.2	100.4	95.0	90.5	85.5	77.6	69.3	61.7	55.3	51.7	45.4