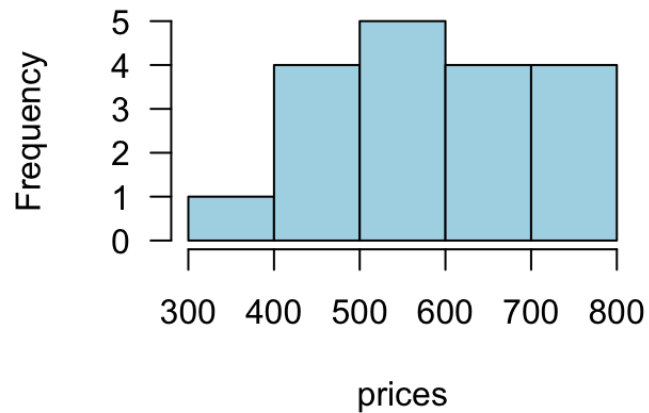
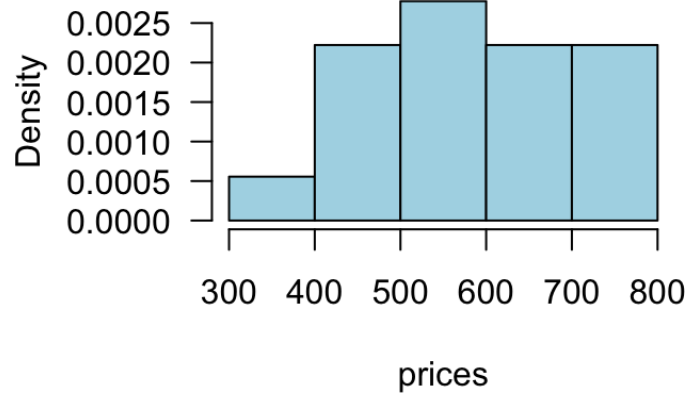


Density histogram

Histogram

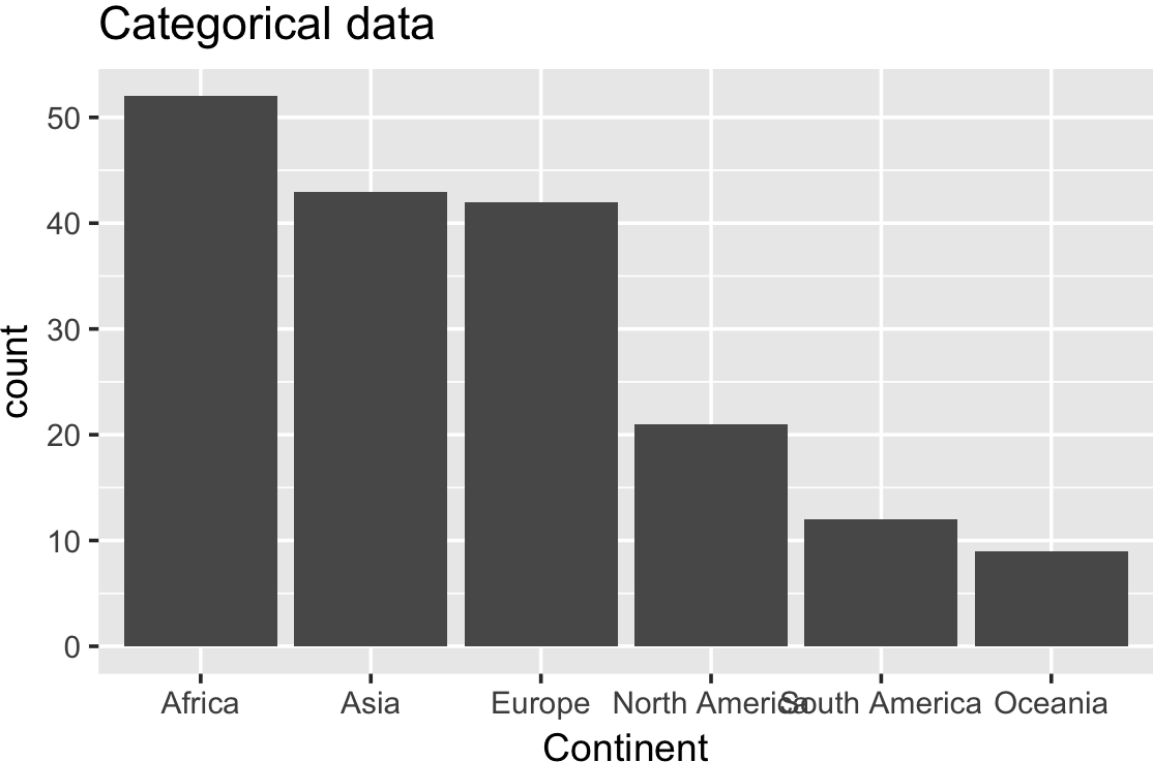


Density Histogram

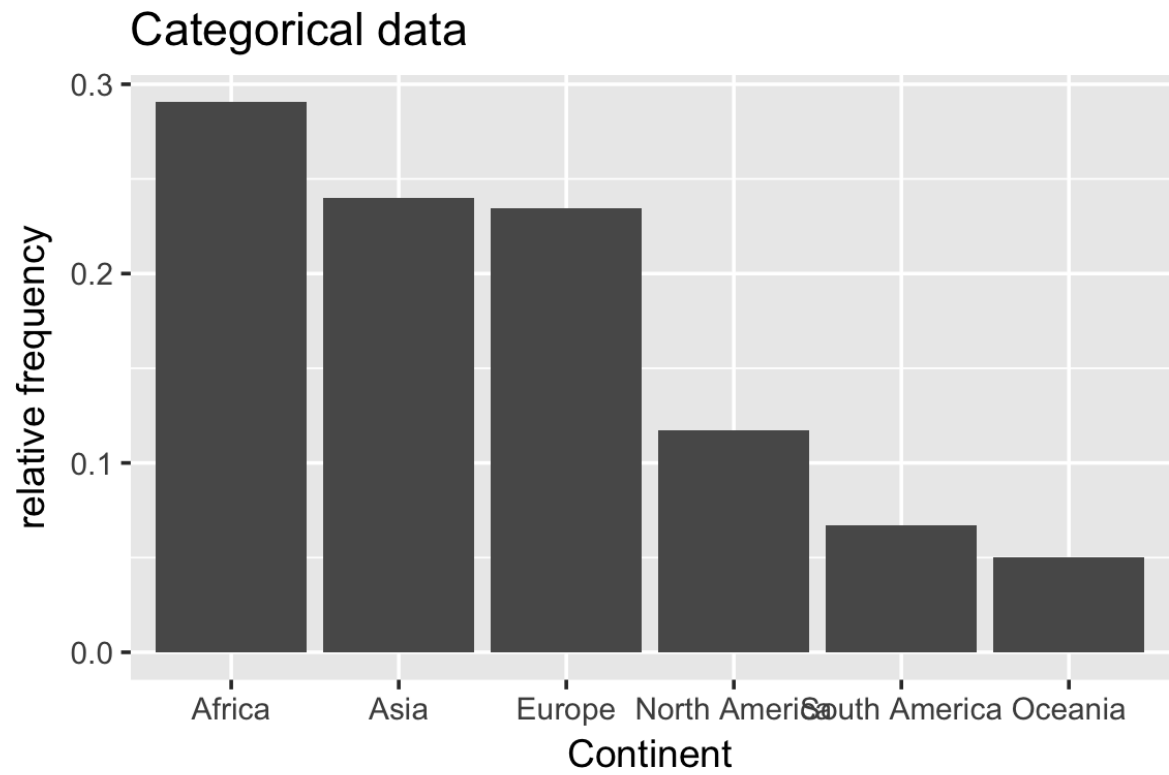


Class	Frequency	Rel. Frequency	Density
(300, 400]	1	.056	.00056
(400, 500]	4	.222	.00222
(500, 600]	5	.278	.00278
(600, 700]	4	.222	.00222
(700, 800]	4	.222	.00222

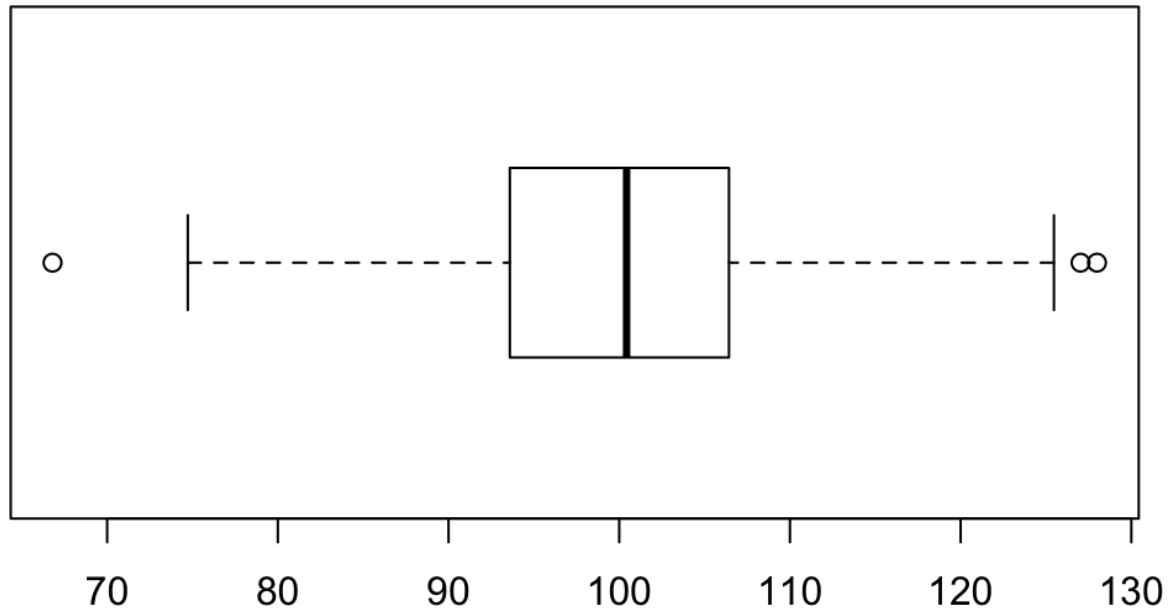
Frequency bar chart



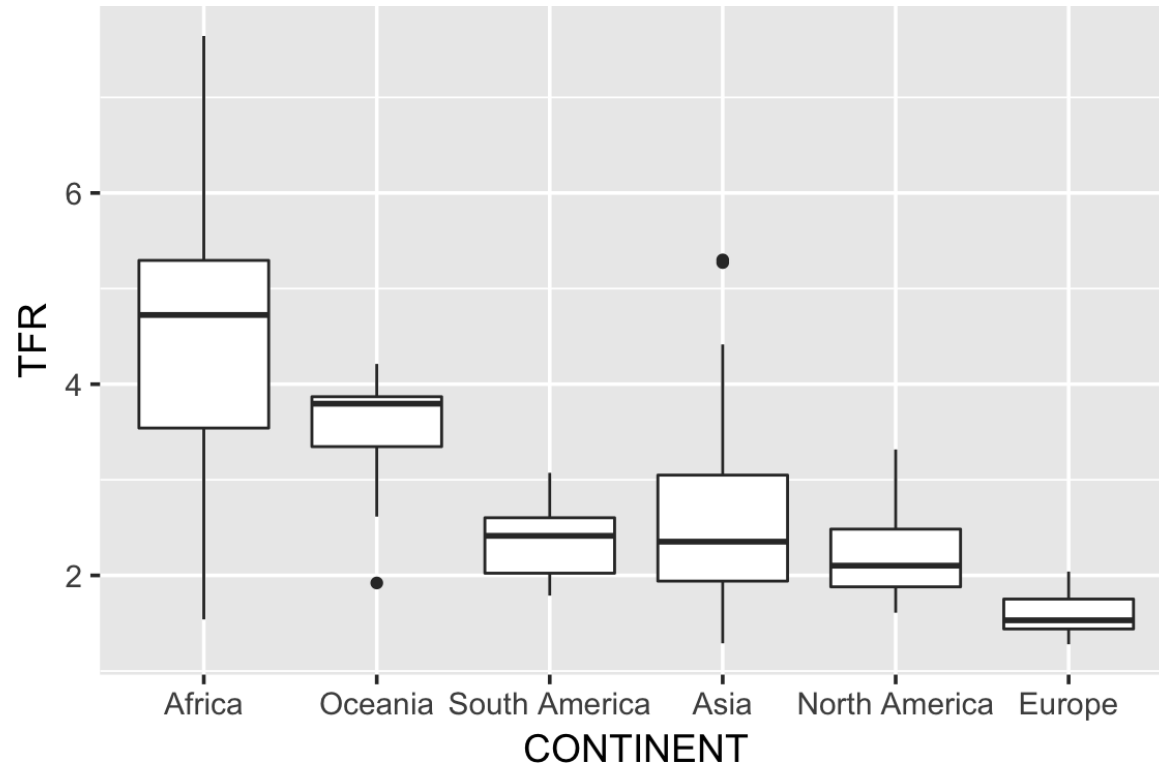
Relative frequency bar chart



Box plot



Multiple box plots



Exercise

(based on #72, p. 49)

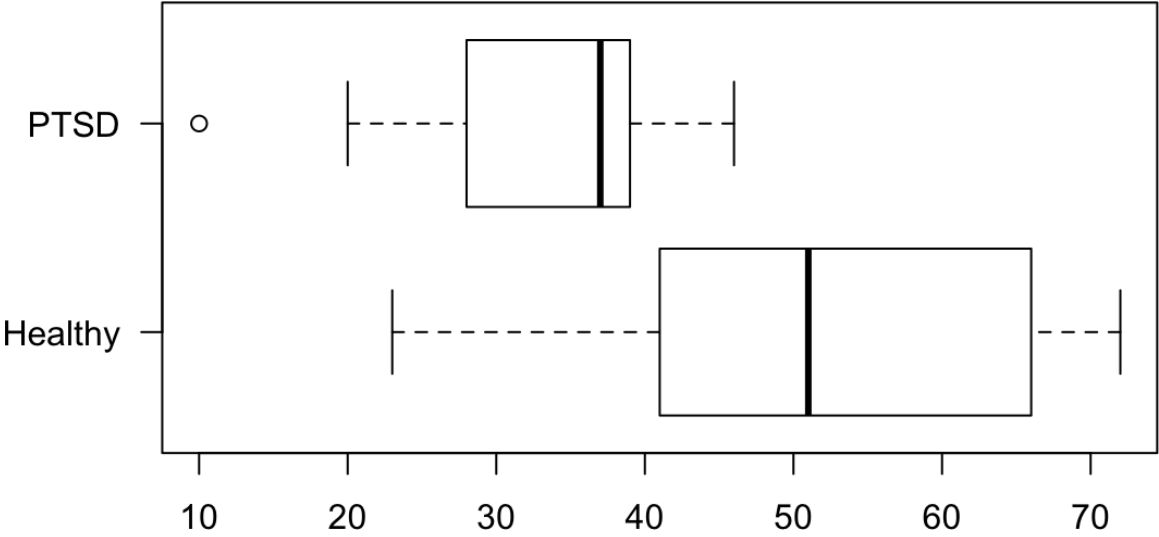
Data on a receptor binding measure:

PTSD: 10, 20, 25, 28, 31, 35, 37, 38, 38, 39, 39, 42, 46

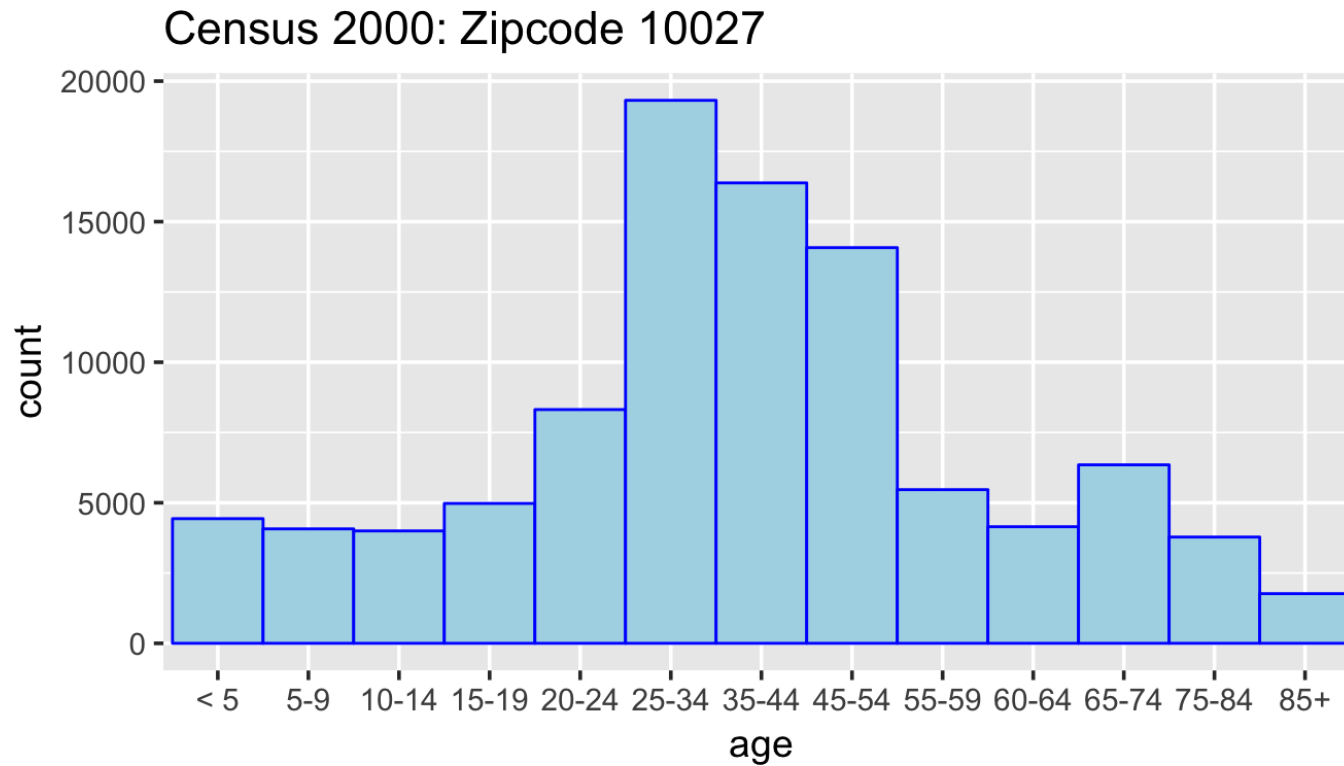
Healthy: 23, 39, 40, 41, 43, 47, 51, 58, 63, 66, 67, 69, 72

Draw a comparative boxplot.

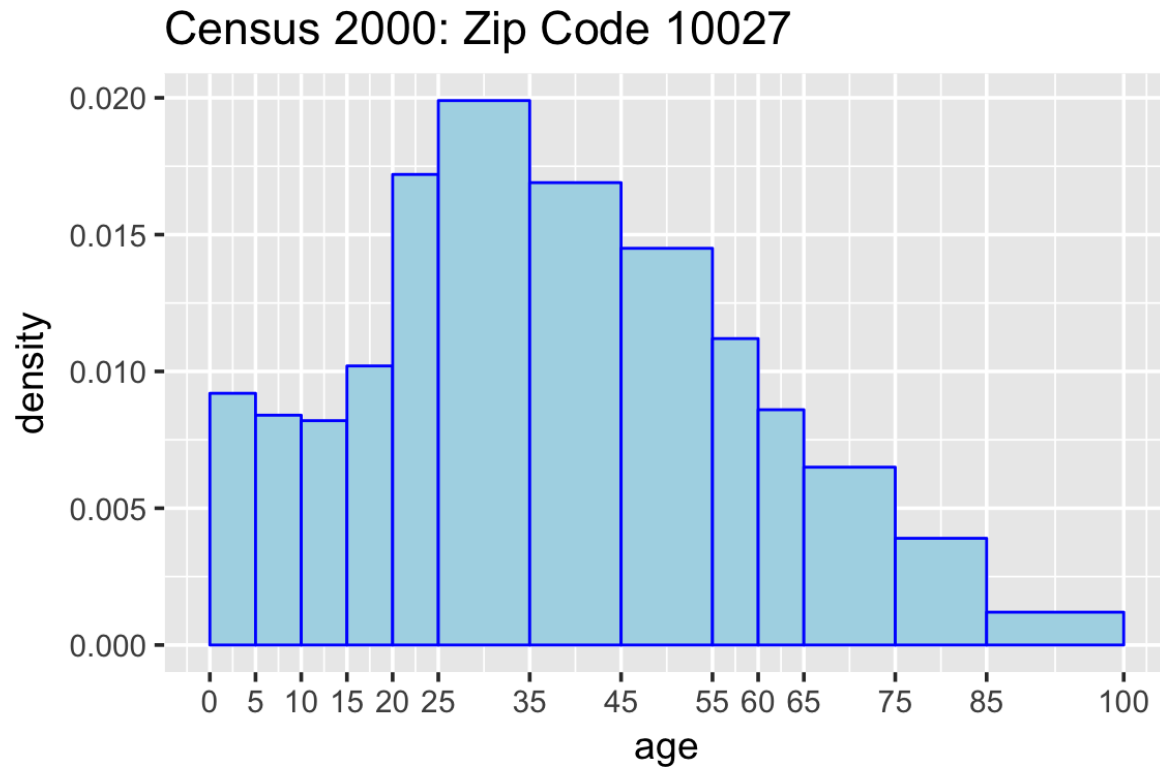
Comparative boxplot



Histogram: what's wrong?



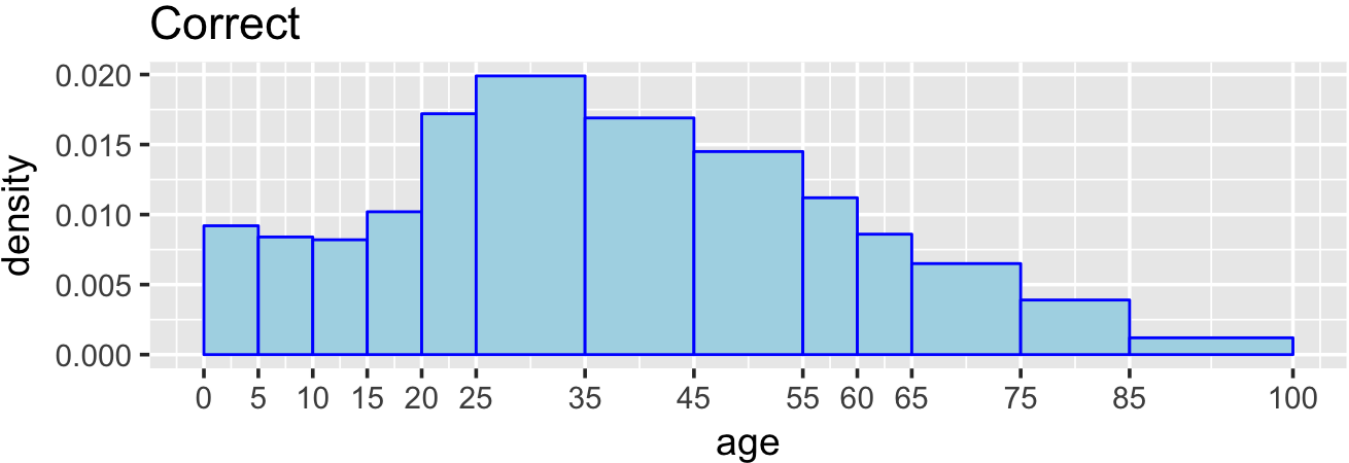
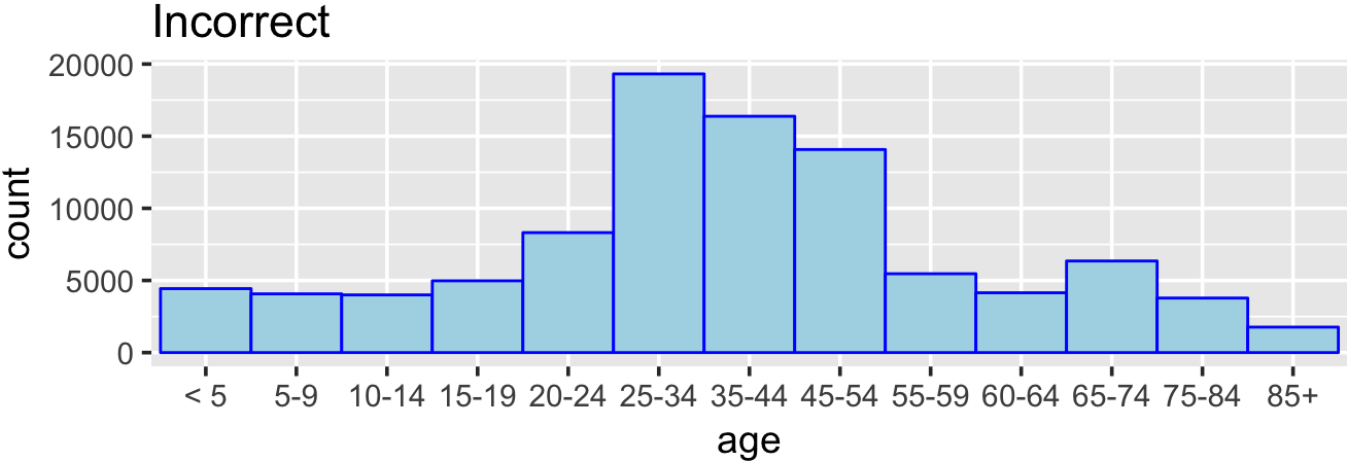
Density histogram with unequal bin (or class) widths



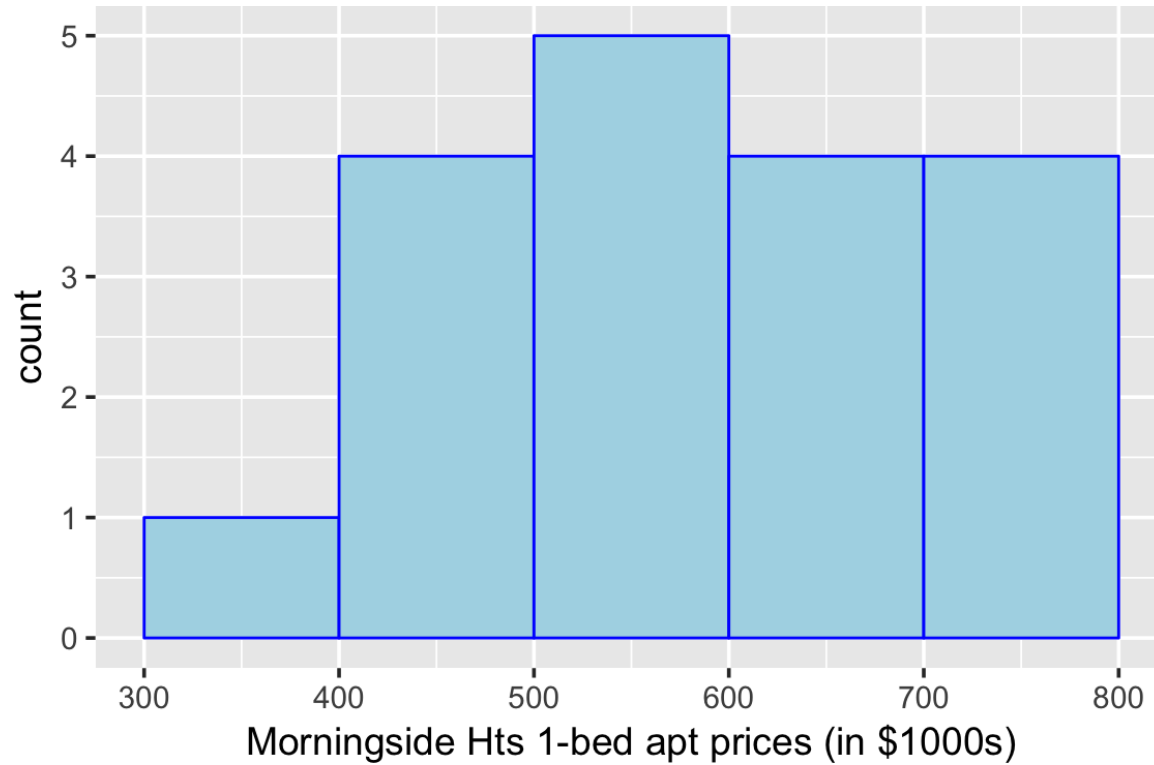
Creating a histogram with unequal class widths

Class	Frequency	RelFreq	ClassWidth	Density
< 5	4435	0.046	5	0.009
5-9	4072	0.042	5	0.008
10-14	3999	0.041	5	0.008
15-19	4977	0.051	5	0.010
20-24	8316	0.086	5	0.017
25-34	19317	0.199	10	0.020
35-44	16380	0.169	10	0.017
45-54	14077	0.145	10	0.014
55-59	5467	0.056	5	0.011
60-64	4148	0.043	5	0.009
65-74	6350	0.065	10	0.007
75-84	3781	0.039	10	0.004
85+	1767	0.018	15	0.001

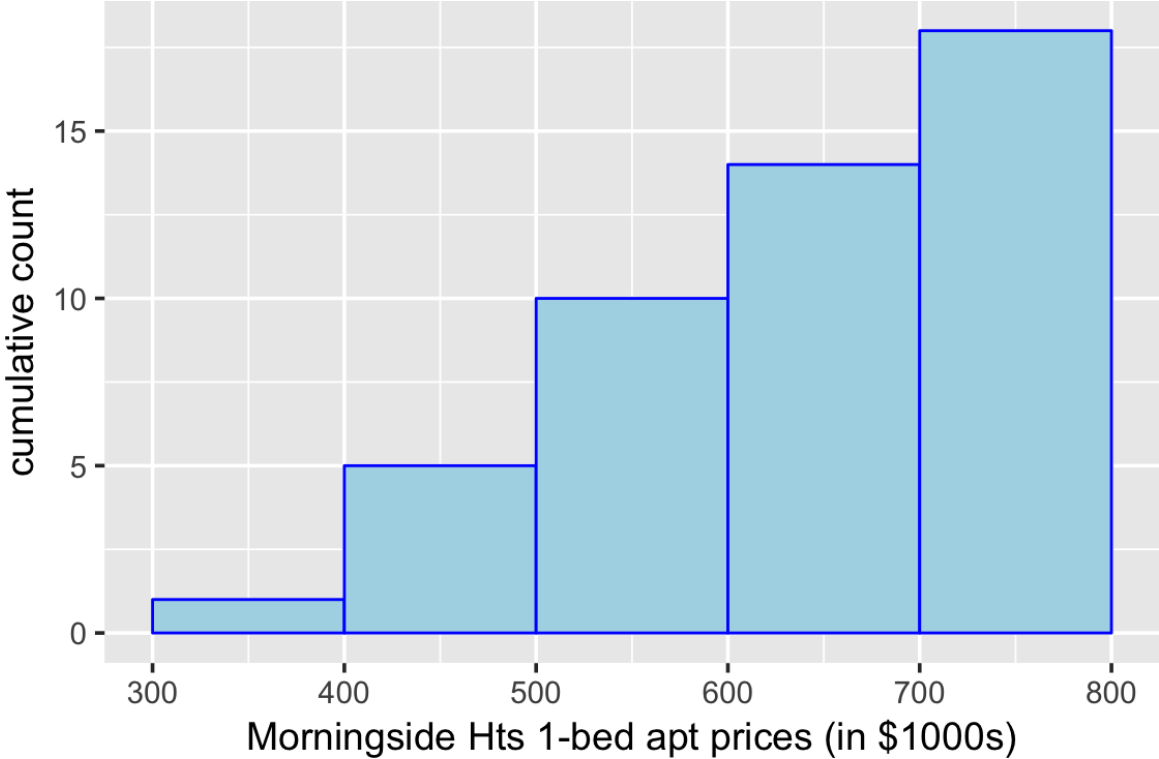
Compare



Frequency histogram



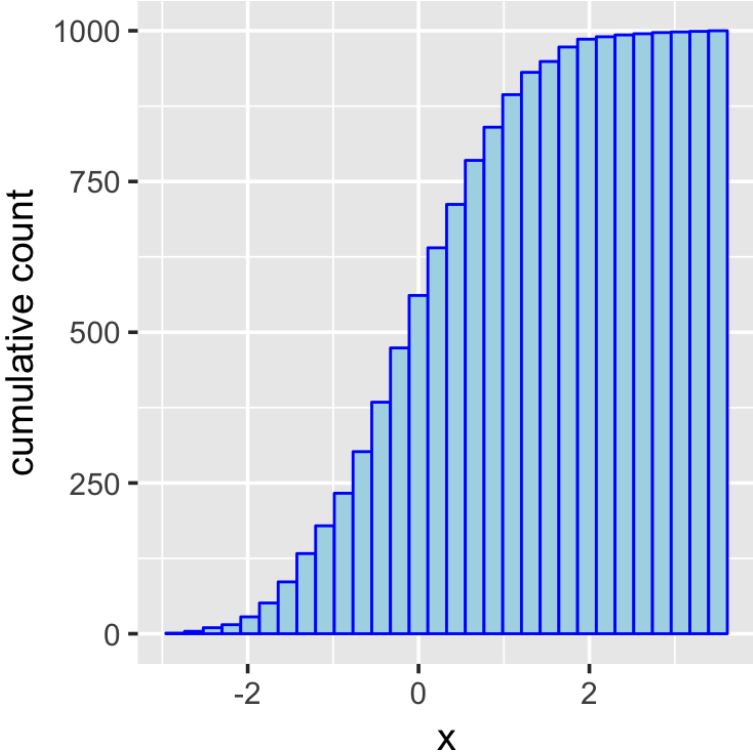
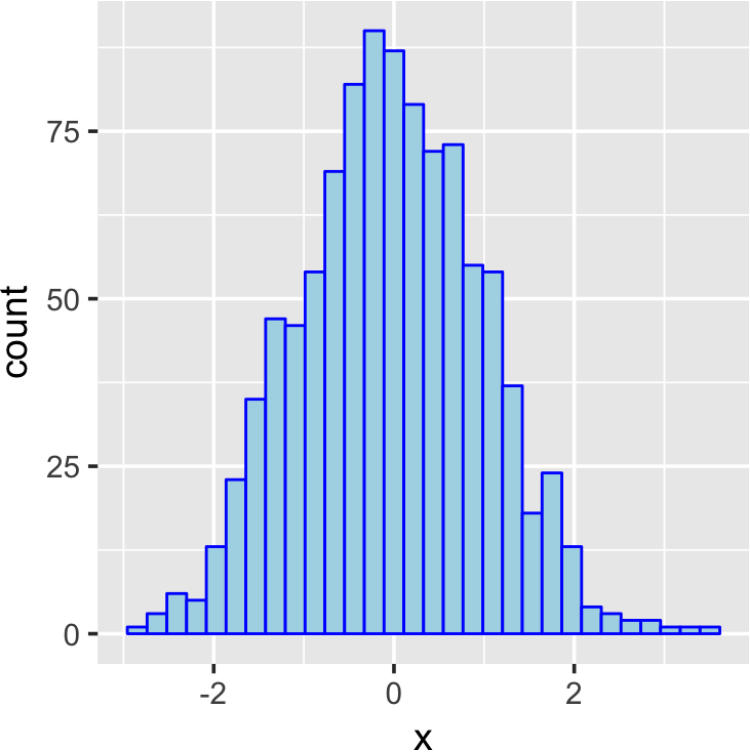
Cumulative frequency histogram



Cumulative frequency histogram

Class	Freq	CumulativeFreq
300-400	1	1
400-500	4	5
500-600	5	10
600-700	4	14
700-800	4	18

Cumulative frequency histogram



Exercise

(based on #17, p. 26)

Construction industry data:

bidders	contracts
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2	7
3	20
4	26
5	16
6	11
7	9
8	6
9	8
10	3
11	2

a) What proportion of the contracts involved at most five bidders?

b) What proportion of the contracts involved between five and ten bidders, inclusive?

c) Draw a cumulative frequency histogram.

Cumulative frequency histogram

