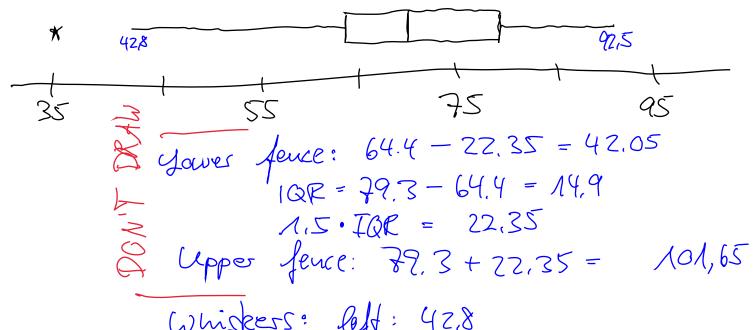
Stat. Comp. 10 Nov 2021 Visualization of a distinguision of metric data Boxplot: based on quantiles anaufile prop. p of data prop. 1-p data Smaller Larges mp = k integer $\times_{p} = \begin{cases} \frac{\chi(k) + \chi(k+1)}{2} \\ \chi(k) \end{cases}$ np not integer k = Top (ceil) Quartiles: X0,25, X0,5, X0,75 Whirker outlier X0,25 X0,5 X0,75 Tences (DO NOT DRAW THEU):
Width of box = IQR lower fence; X_{0,75} - 1.5 IQR upper fence: X_{0,75} + 1.5 IQR define avea in which we expect "normal" data Whiskers: lines from Box to outmost dates points within the fences data points outside of fences Example: swiss Ferblity N = 47 P = 0.25



Whiskers: left: 42,8 right: 92,5

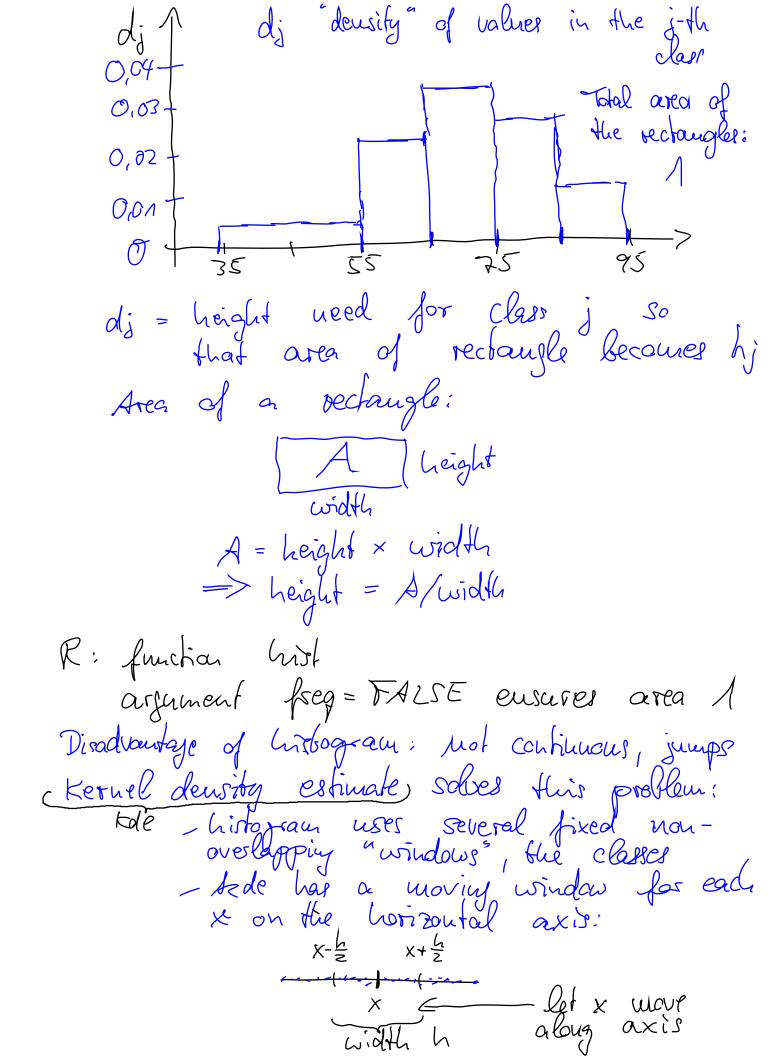
Histogram and kernel density for continuous quantitative variables

(lass the data (apain tertility):

with night of the distribution of the property of the p

 ΛG 10 0,713 0,0213 16 0,034 10 0.340 0,0255 0.255 12 28 10 75 0,0166 0,106 85 10 ~1.000

Histogram presents relative frequencies by rectaugle areas.



Simplest; count the values in the window = relative frequency in normalize it so that the result has area 1 under the curre Think of this approach in terms of a rectangular kesuel? Place a rectaugle x:-4 x: x:+h around each and every data value xi, i=1,...,n For a value x on the axis, from X: 's for which XE [xi- \frac{h}{2}, xi+ \frac{h}{2}]. It's the same as above, feneralizes to more useful keryels occtampler = unsmooth sussesses smaller date sets