The function

$$x \mapsto \frac{1}{n} \sum_i K_h(x - X_i)$$

results in a smoothed display which can replace (or enhance) the histogram.

For more information, look for the keywords **smoothing** or **kernel density estimation**.

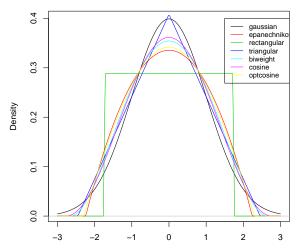| Kernel	$K(x)$
uniform	$1/2$
triangular	$1 - |x|$
Epanechnikov (quadratic)	$3/4(1 - x^2)$
biweight	$15/16(1 - x^2)^2$
triweight	$35/32(1 - x^2)^3$
Gauss	$(2\pi)^{-1/2} \ exp(-x^2/2)$

Table 1.9 *Some commonly used kernels. See figure 1.1.*

Figure 1.1 *Kernels in* R. *See table 1.9. See Colour Figure 1.*