Basic shapes

In the following example we'll illustrate MatDeck's functions used to generate basic shapes which are used in digital signal processing.
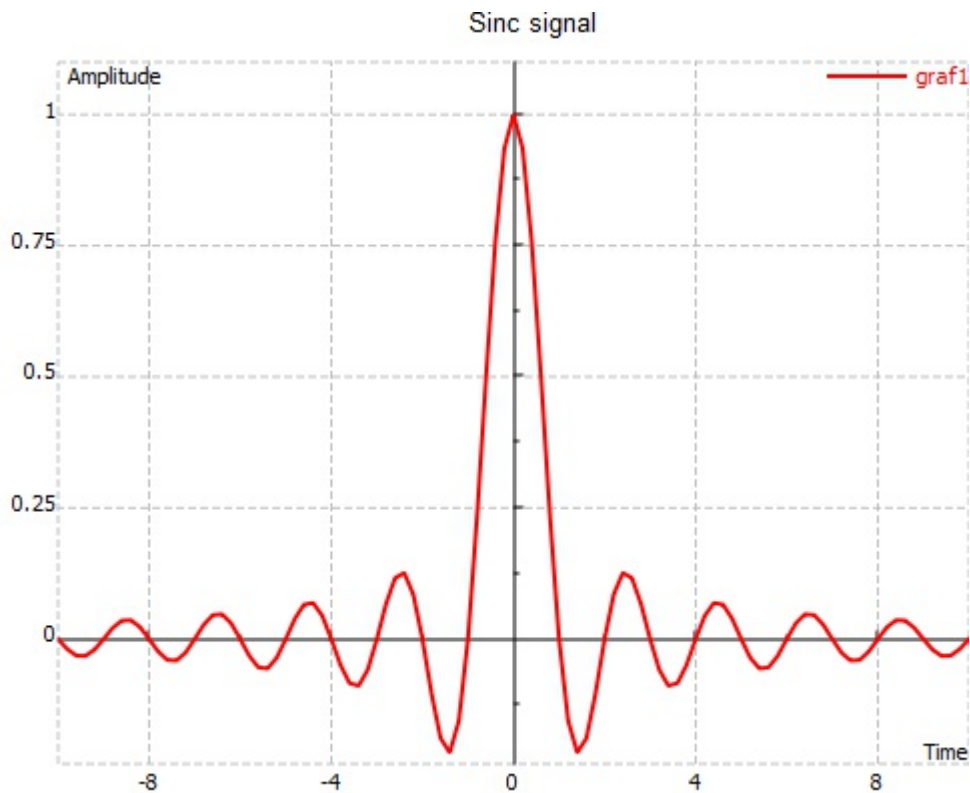
$\text{Dt} := \text{curve2d}(x, -10, 10, 101)$ Time axis generated

$\text{dt} := \text{col2vec}(\text{Dt}, 0)$

Sinc function

$y := \text{sinc}(\text{dt})$ Sinc function calculated

$\text{graf1} := \text{join mat cols}(\text{dt}, y)$ Graph of the sinc signal

Sinc signal

Dirichlet function

$y11 := \text{diric}(\text{dt}, 5)$ Dirichlet function calculated

$\text{graf2} := \text{join mat cols}(\text{dt}, y11)$ Graph of the Dirichlet function

Dirichlet function
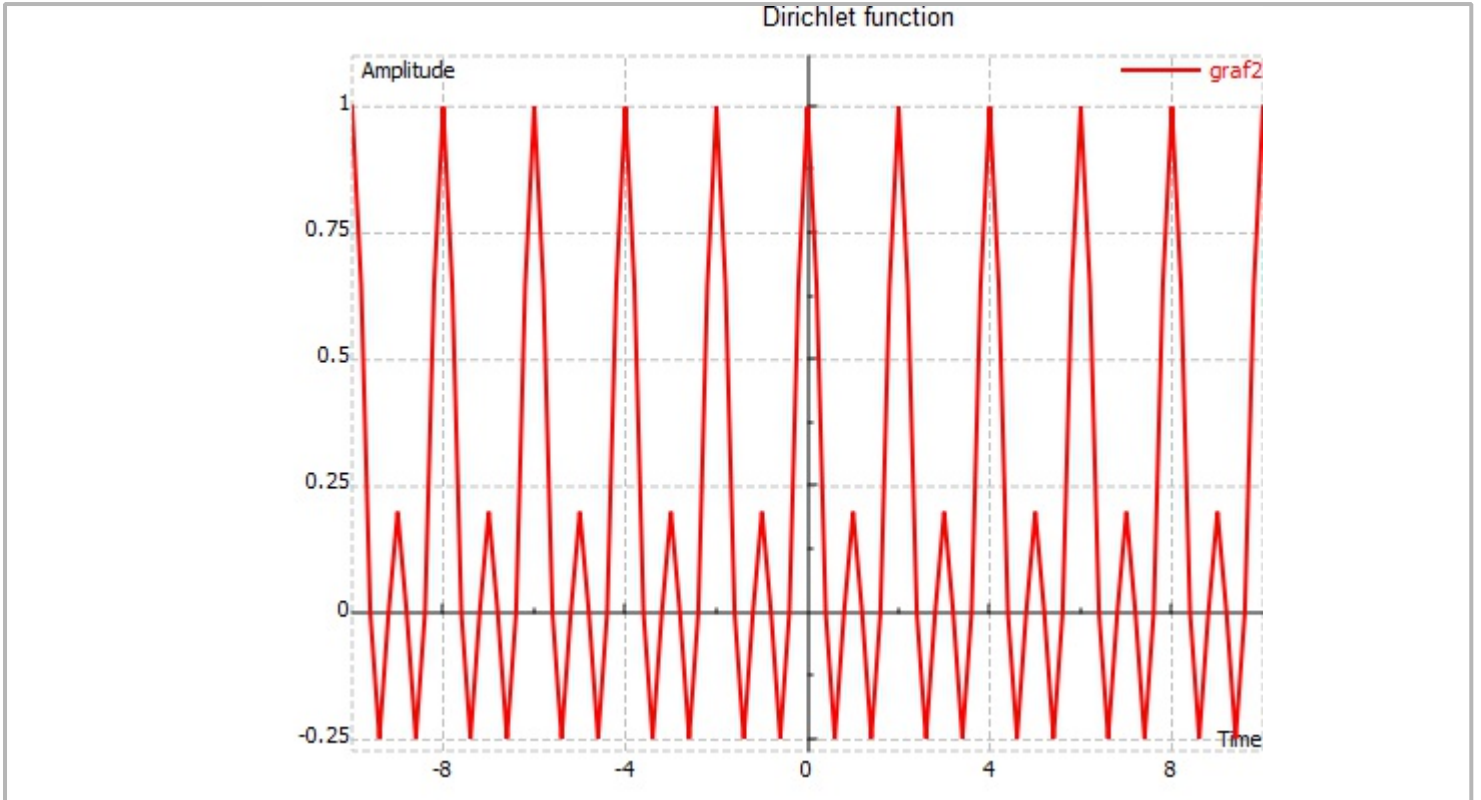
Square signal

$y2 := \text{square}(dt)$ Square signal calculated

$graf3 := \text{join mat cols}(dt, y2)$ Graph of the square signal

Square signal