



## Real Matrices

### 1 Why

Of course matrices of real numbers are the most important of all.

### 2 Definition

A *real-valued matrix* or *matrix of real numbers* or *matrix* is a matrix in the real numbers.

#### 2.1 Notation

We denote the set  $n$  by  $m$  real-valued matrices by  $\mathbf{R}^{n \times m}$ .