Package Showcase linalg.sty

- \lvec[]{x, y, z,...}[]
  - separator
  - vector coordinates
  - matrix type
    - \* Default:  $\begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$ \* With &, p:  $\begin{pmatrix} 1 & 2 & 3 \end{pmatrix}$
- \vectors[][][]
  - vector letter
  - initial subscript
  - terminal subscript
    - \* Default:  $\overrightarrow{v_1}, \dots, \overrightarrow{v_k}$
    - \* With  $u, k+1, n: \overrightarrow{u_{k+1}}, \dots, \overrightarrow{u_n}$
- \scalars[][][]
  - scalar letter
  - initial subscript
  - terminal subscript
    - \* Default:  $c_1, \ldots, c_k$
    - \* With t, k + 1, n:  $t_{k+1}, \ldots, t_n$
- \lincom[][][]
  - vector letter
  - scalar letter
  - initial subscript
  - terminal subscript
    - \* Default:  $c_1 \overrightarrow{v_1} + \cdots + c_k \overrightarrow{v_k}$
    - \* With u, t, k+1, n:  $t_{k+1}\overrightarrow{u_{k+1}} + \cdots + t_n\overrightarrow{u_n}$
- \letmat[][][][]
  - matrix letter
  - rows
  - columns
  - field
    - \* Default:  $A \in M_{m \times n}(\mathbb{F})$
    - \* With  $B, n, k, R: B \in M_{n \times k}(\mathbb{R})$
- \transform[][][]
  - transformation name
  - dimension 1
  - dimension 2
  - field
    - \* Default:  $T: \mathbb{F}^n \to \mathbb{F}^m$
    - \* With  $T_1, k, [], R: T_1: \mathbb{R}^k \to \mathbb{R}$