Chapter 2

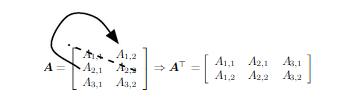
Linear Algebra

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## **Scalars, Vectors, Matrices and Tensors**

Important terms:

* **Scalar: A single number**. Eg. Let be the slope of the line, where s is our scalar value
* **Vector: A 1D array**. Eg. Let x be a vector of size (3x1)
* **Matrix: A 2D array**
* **Tensor: A 3D or 3D+ array.**
* **Transpose: Taking mirror image across main diagonal.** Eg. ****
* **Broadcasting: Implicit copying of scalar/vector value to a matrix**