

Session 1

2023.12.04

Typically, Data are stored/represented
as matrices. *Column/Variable*

e.g.

	Id	Finance Score	BA Score
row	1	80	90
Data Point	2	89	85
Observation	3	75	93
	4	85	84

4×3

$$\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}_{2 \times 2} \begin{pmatrix} 1 & -1 \\ -1 & 1 \end{pmatrix}_{2 \times 2} = \begin{pmatrix} 1 & -1 \\ -1 & 1 \end{pmatrix}_{2 \times 2}$$

$(1 \times 1 + 2 \times -1)$

$$\begin{pmatrix} 1 & -1 \\ -1 & 1 \end{pmatrix} \begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} =$$

$AB \neq BA$ Even if dimension matches