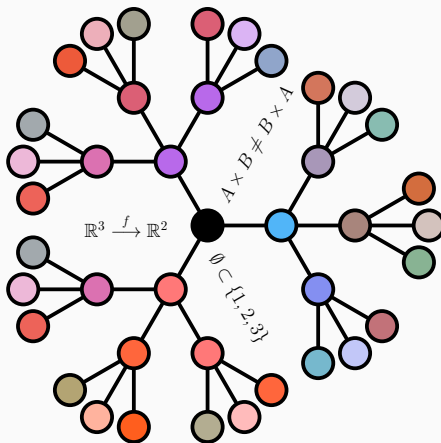# Mathematics and Computer Science (B.MES.108), Part 1:
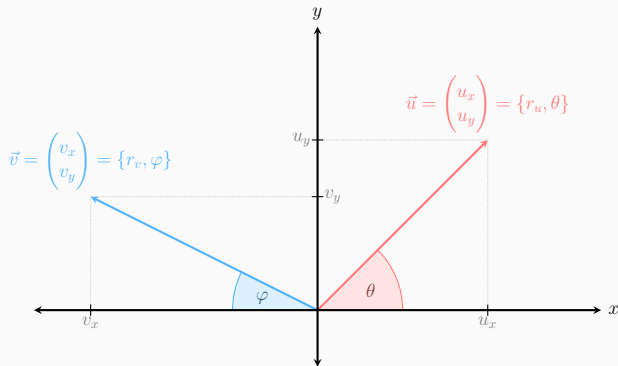# Linear Algebra for Non-Mathematicians
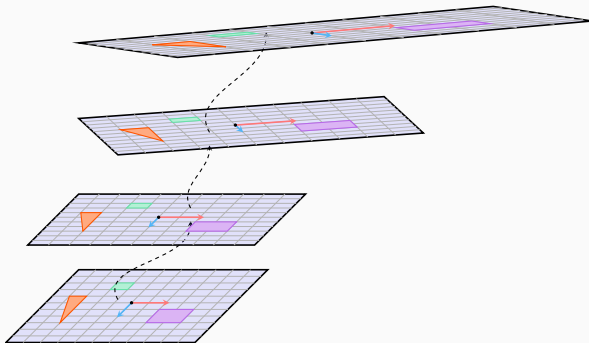
Peleg Bar Sapir
April 8, 2020

Chapter 1: Introduction
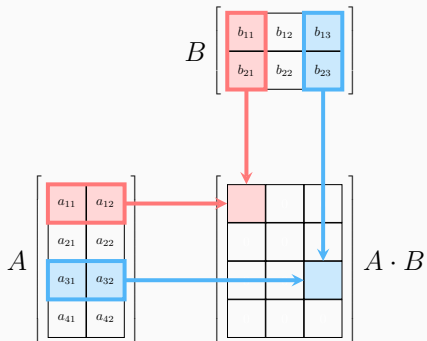
Chapter 2: Vectors

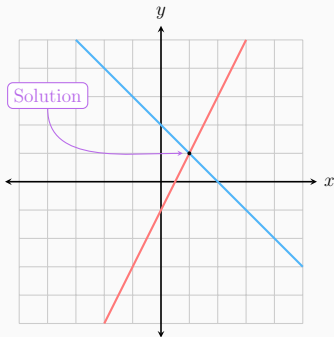# Chapter 3: Linear Transformations

Chapter 4: Matrices

Chapter 5: Systems of Linear Equations

$$\begin{cases} 2x - y = 1 \\ x + y = 2 \end{cases} \Rightarrow \begin{pmatrix} 2 & -1 \\ 1 & 1 \end{pmatrix} \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 1 \\ 2 \end{pmatrix}$$

Chapter 6: Eigenvectors and Eigenvalues