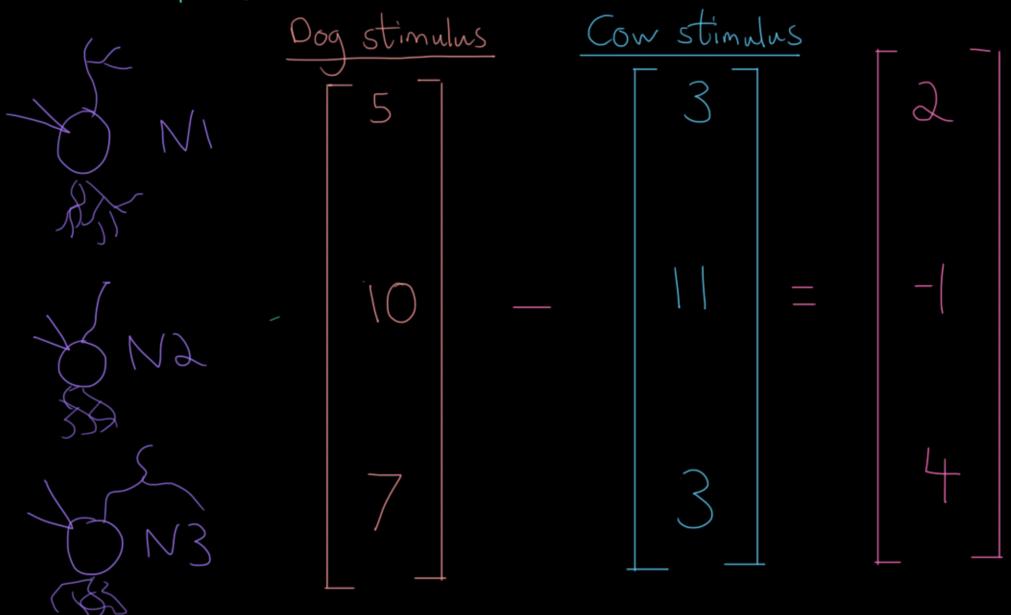
Why learn linear algebra? - Central to most areas of math and many applications

- Underlies much of computational/theoretical neuroscience

- Lots of data in neuro for which vectors/ matrices are useful structures



Ordered list

of numbers

Dim=g

Arrow

Hard to Visualize

Dim = N

vector

$$\overline{\chi} = \begin{bmatrix} \chi_1 \\ \chi_2 \end{bmatrix}$$
 $\overline{Z} = \begin{bmatrix} Z_1 & Z_2 \end{bmatrix}$ Row

Column vector