

# Numpy Matrices

# Intro to matrices in Numpy

- Talk about what matrices are and why they're important
- Create a custom matrix
- Create a matrix of ones or zeroes

# What are matrices?

- A matrix is a multidimensional array
- Essentially an array of arrays
- Used in images, geological data, machine learning, and anything graph related

# Image example

- An image of a 1 might look like:

`[[0, 0, 1, 0, 0],`

`[0, 0, 1, 0, 0],`

`[0, 0, 1, 0, 0],`

`[0, 0, 1, 0, 0],`

`[0, 0, 1, 0, 0],]`