MATLAB to Python cheatsheet

Getting started

What do we need?

Some Python libraries installed to start:

- NumPy
- SciPy
- Matplotlib
- SymPy

Important

The general structure of these notes is:

```
% Some MATLAB code
x = 10;
disp(x);
# followed by a equivalent/similar Python code
x = 10
print(x)
```

Language fundamentals

Variables

```
Assign variables:
```

```
% Assign variables
a = 10;
# Assign variables
a = 10
Multi assign:
% Unsupported
# Multi assign
a, b, c = 10, 20, 30
# a = 10
# b = 20
# c = 30
```

Arithmetic operators

```
% MATLAB
a = 10;
b = 20;
a + b; % Addition
a - b; % Subtraction
a * b; % Multiplication
a / b; % Division

# Python
a , b = 10, 20
a + b # Addition
a - b # Subtraction
a * b # Multiplication
a / b # Division
```

Relational operators

Logical operators

```
a ^ b # Logical EXCLUSIVE OR not a # Logical NOT
```

Reference

Bla bla