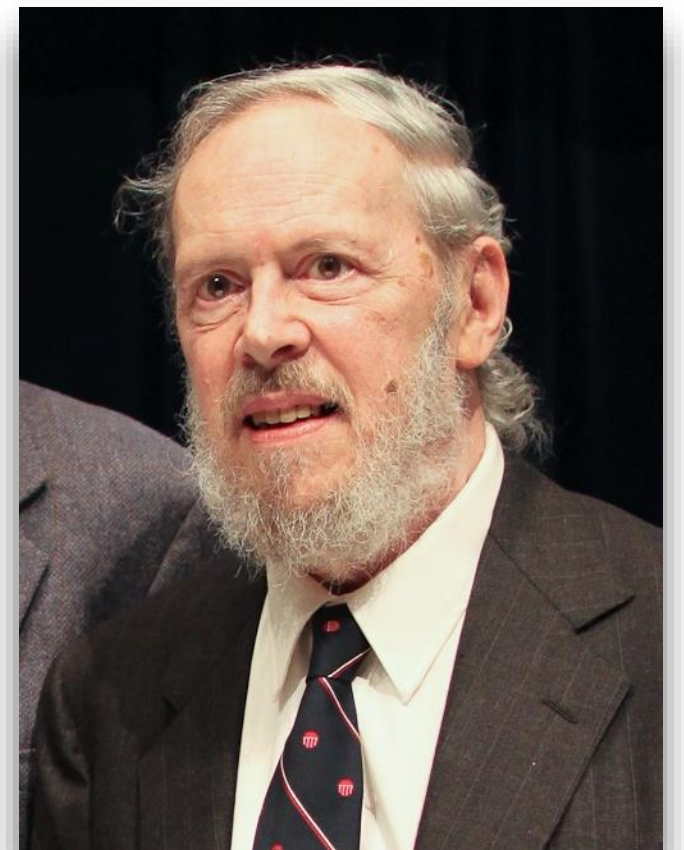


“The only way to learn a new programming language is by writing programs in it.”

– Dennis Ritchie (1941 – 2011)



MATLAB – From Zero to Hero



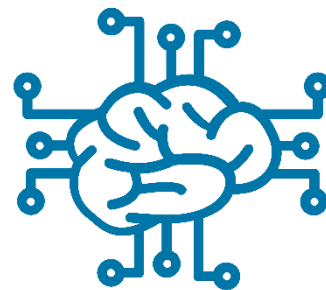
Jousef Murad
B.Sc. Mech. Eng.



@jousefm2



@jousefmrd

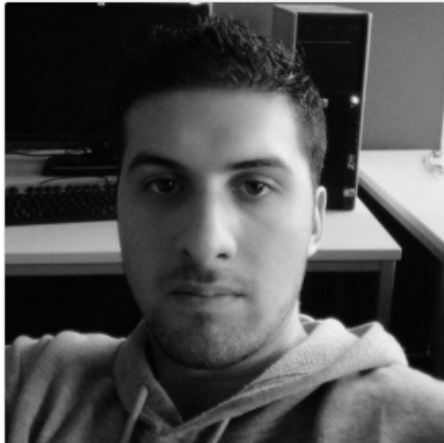


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Deep Learning

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Matlab Cheat Sheet
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50DaysOfML
My journey in Machine Learning & AI

85 contributions in the last year Contribution settings

Planned Series

MATLAB Fundamentals

- What is MATLAB? **Today!**
- Basics (Arithmetic, Data Types, Conventions, Special Values)
- Special Operations (Relational, abs/sign ...)
- Scripts
- Function

Git & Shell ?

MATLAB Intermediate

- Vectors
- Matrices
- Save & Load Data
- Functions
- Conditional Statements
- Loops

MATLAB Advanced → Simulink

- Debugging
- Symbolic Mathematics
- Solve Differential Equation
- Simulink
- Advances Examples (Lotka-Volterra Equations, Spring Pendulum...)

Prerequisites



Questions & Comments




- Social Media Channels
- Comment Section
- Q&A Videos (Instagram) / (Twitch)





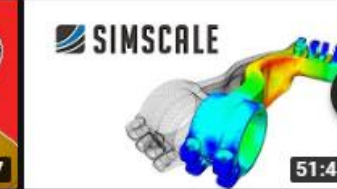
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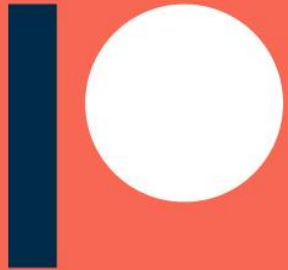


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- Finite Element Analysis
- CFD & Turbulence Modelling
- Python Programming
- Interested in AI
- I raise heavy objects against the force of gravity.

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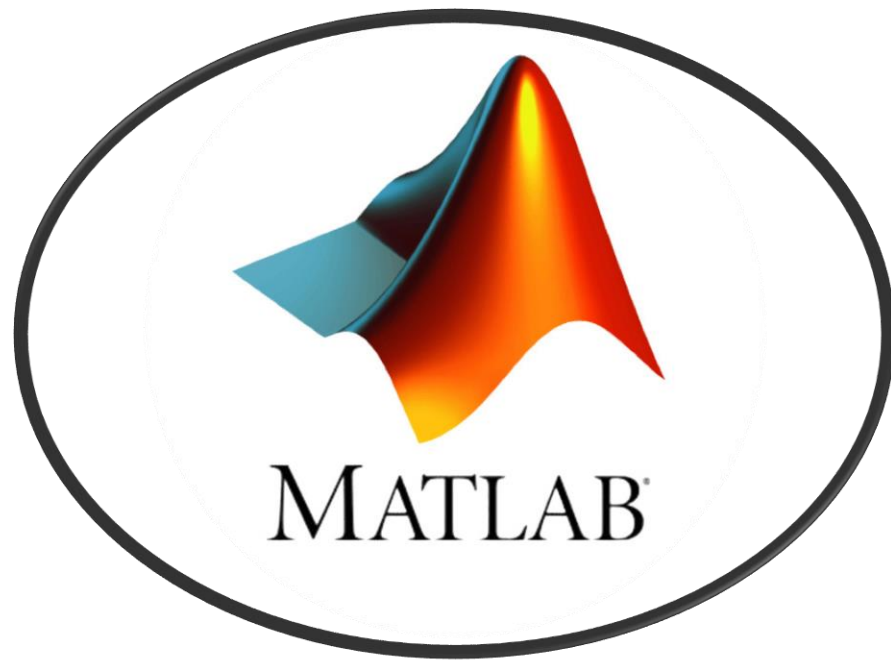
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Learning Objectives

- You know what MATLAB is
- You know how to install MATLAB on your machine
- You know what MATLAB can be used for

Let's get started!



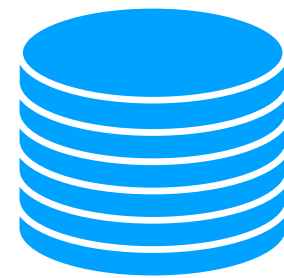
High-Level Programming Language



Easy to Read



Dynamic



Multi-Paradigm

The History of MATLAB

- MATLAB = MATrix LABoratory
- Developed late 1970s by Cleve Moler
- Alternatives for LINPACK & EISPACK to avoid FORTRAN
- Initial release 1984 by MathWorks

What is MATLAB used for?

- Data Analytics
- Robotics
- Mechatronics
- Image Processing and Computer Vision
- Control Systems
- Embedded System

Next Video

- MATLAB – The Intelligent Calculator
- Save your precious work – What are Scripts?
- Commenting Code