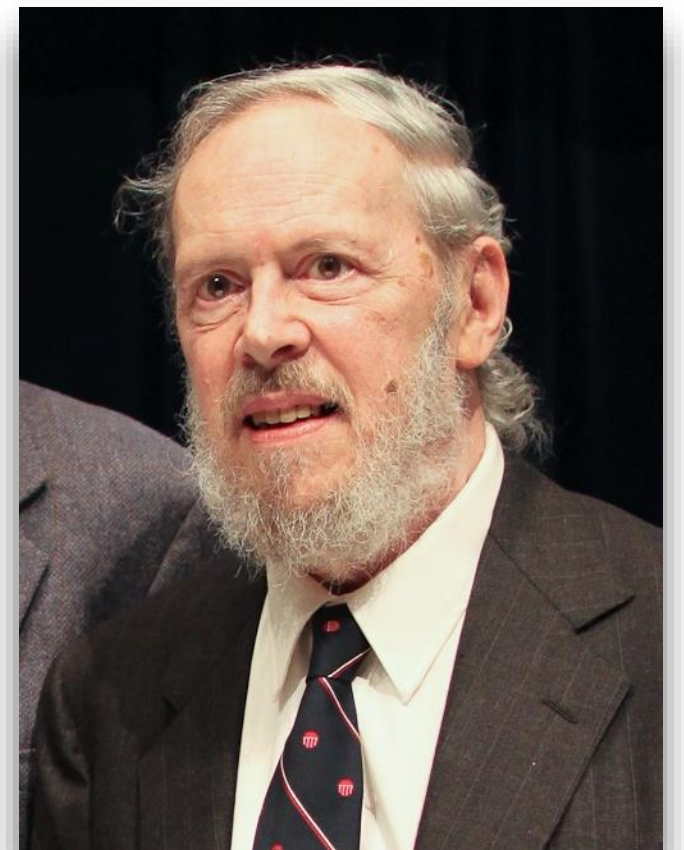


“The only way to learn a new programming language is by writing programs in it.”

– Dennis Ritchie (1941 – 2011)



MATLAB – From Zero to Hero



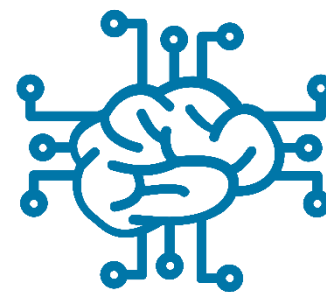
Jousef Murad
B.Sc. Mech. Eng.



@jousefm2



@jousefmrd

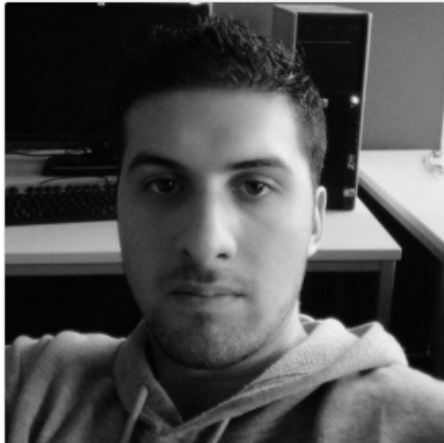


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Deep Learning

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★ PRO

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Lattice Boltzmann Method for Kármán Vortex Street and Lid Driven Cavity
C++ ★ 2

Linear-Stability-Analysis-Poiseuille
Stability Analysis for Plane Poiseuille Flow
MATLAB ★ 1

resolvent
Forked from mluhar/resolvent
Repository for all Matlab/Python code for the Navier-Stokes Resolvent analysis
MATLAB ★ 1

Matlab-Cheat-Sheet
Matlab Cheat Sheet
★ 1 1

CFD
Forked from donlimon/CFD
fracstep
C++

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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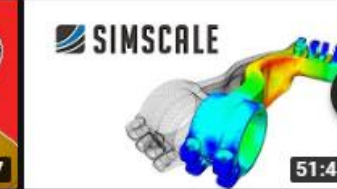
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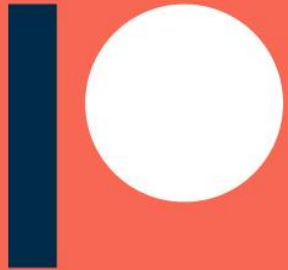


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- Finite Element Analysis
- CFD & Turbulence Modelling
- Python Programming
- Interested in AI
- I raise heavy objects against the force of gravity.

For a better world. My goal is to inspire 1 million people. More information about me can be found at: www.engineered-mind.com

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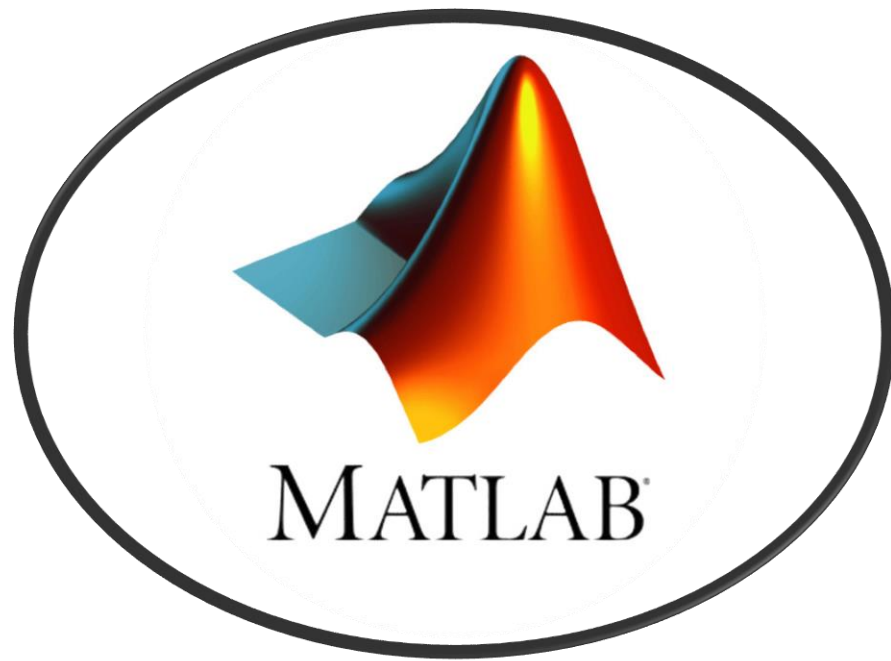
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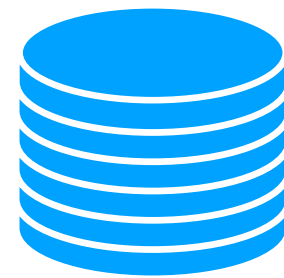
High-Level Programming Language



Easy to Read



Dynamic



Multi-Paradigm

What is MATLAB used for?

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

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

Learning Objectives

- You know what MATLAB is
- You are able to recall the basic concepts of MATLAB
- You know what MATLAB can be used for :)

Next Video

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