



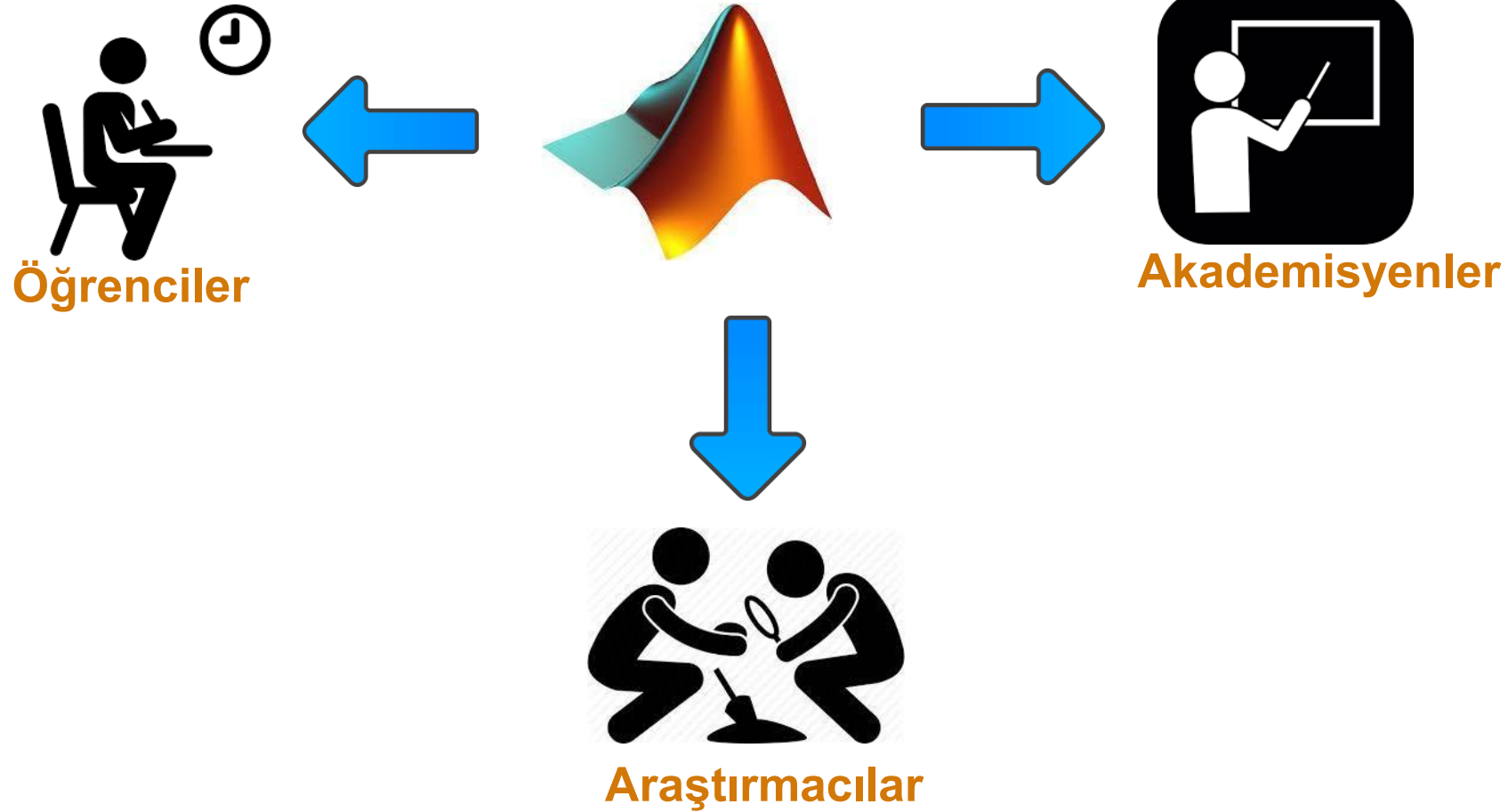
MATLAB Kampüs Lisansı Araçları



Silvan Schwaller



MATLAB Kampüs Lisansı Nedir ?



Kampüs Lisansı

Akademisyen, araştırmacı ve öğrenciler için her yerden, her an ve sınırsız erişim



İş İmkanları

 **82**

MATLAB'i aktif olarak kullanan Fortune 100 şirketlerinin sayısı

“ If you want to work at Google, make sure you can use MATLAB ”

Jonathan Rosenberg
Senior Vice President of Products
Google

 **71 CWLs TUR**

Dünya çapında 6.2 milyondan fazla öğrenci 2,100'den fazla üniversite MATLAB ve Simulink ürünlerine sınırsız erişim hakkına sahip.

MathWorks Portalı



Bartın Üniversitesi

MATLAB and Simulink Access for Bartın Üniversitesi

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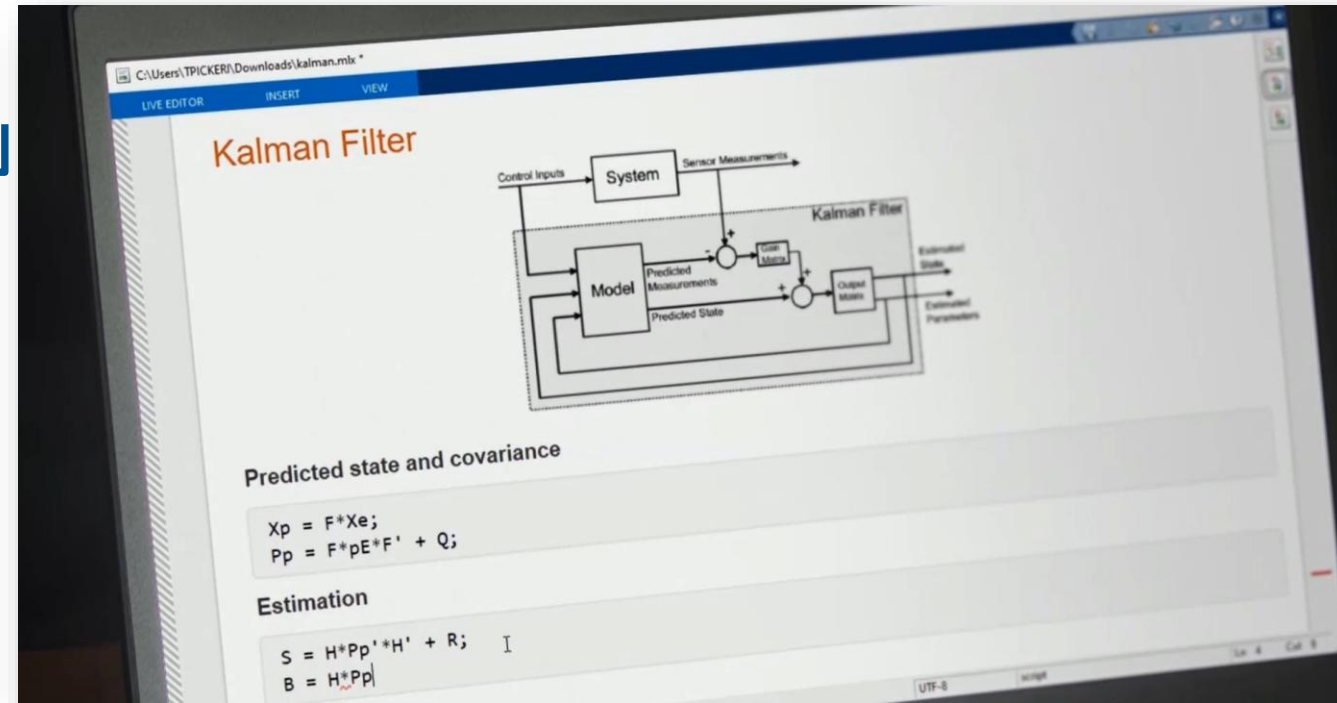
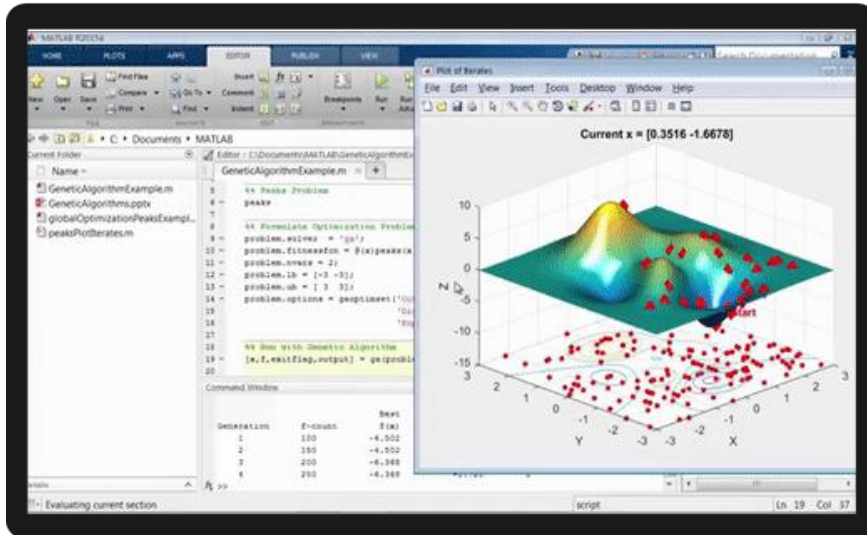
 Need help?

» [Contact MathWorks Support](#)

MATLAB

MATLAB: Yüksek güce sahip programlama dili ve yazılım/uygulama geliştirme ortamı

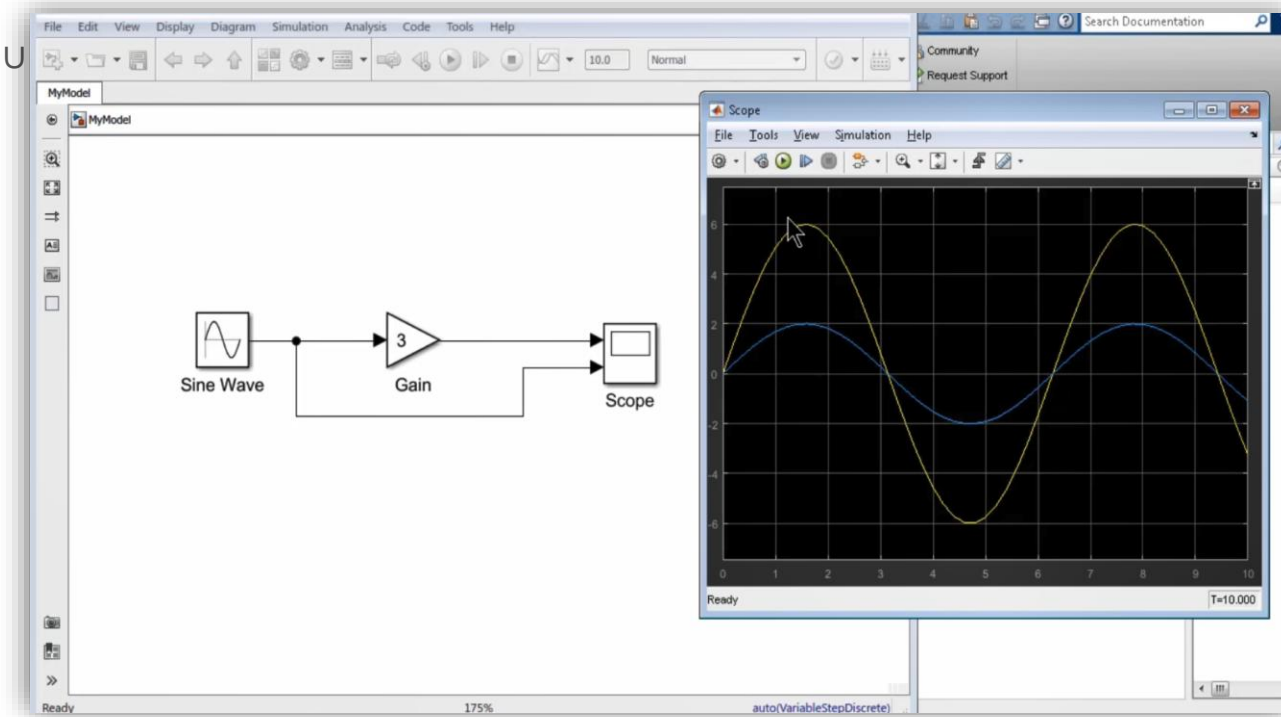
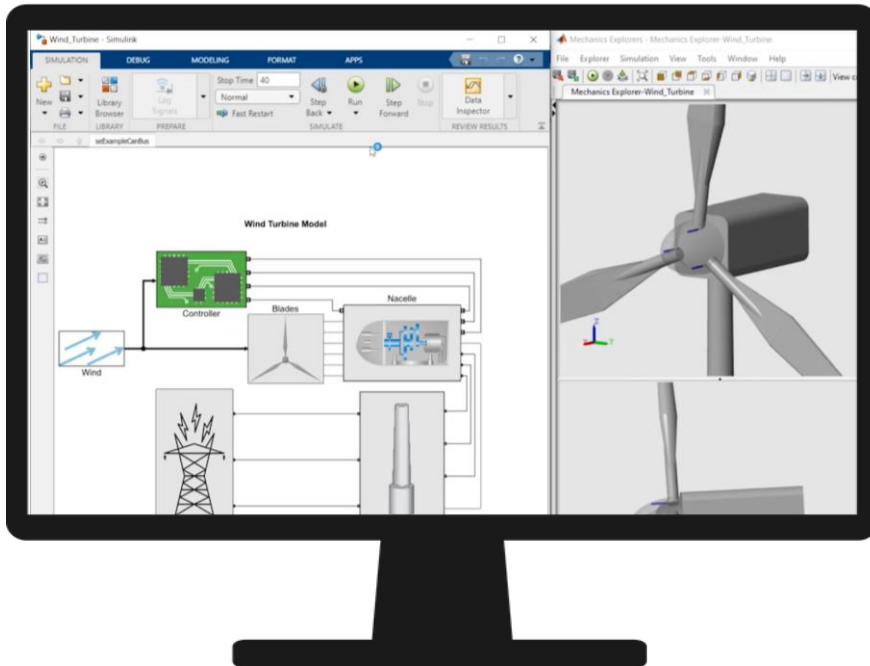
- Veri Analizi
- Optimizasyon
- Kestirimci Bakım
- Algoritma Geliştirme



Simulink

Simulink: Model Tabanlı Tasarım ve Simülasyon

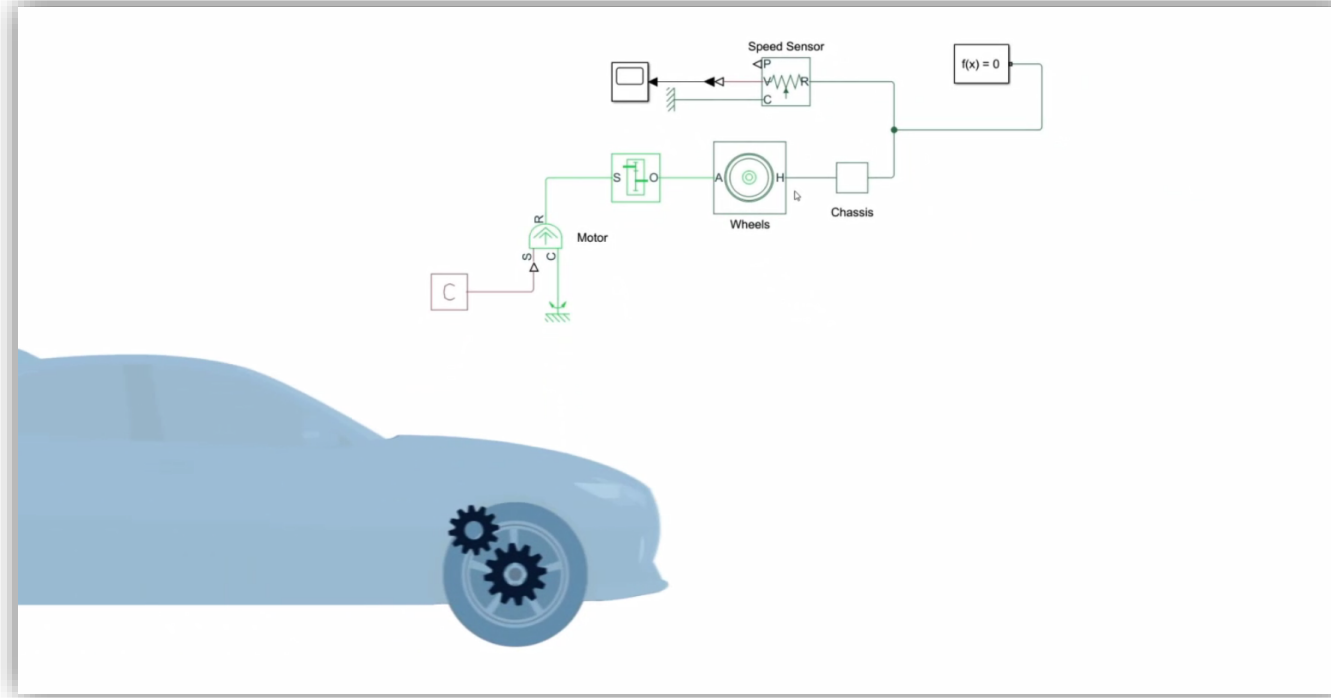
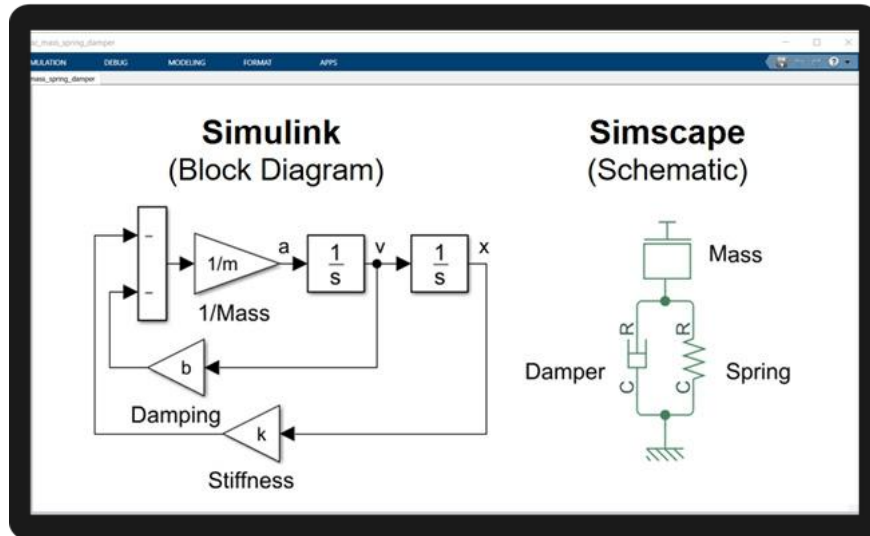
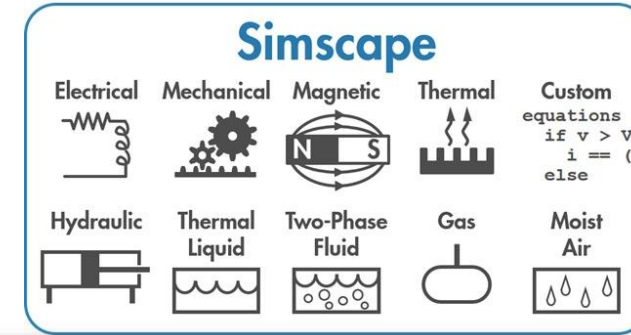
- Dinamik Sistemler ve Kontrol
- Optimize Model Geliştirme
- Grid Tasarımı ve Entegrasyonu
- Otomatik Kod Oluşturma



Simscape

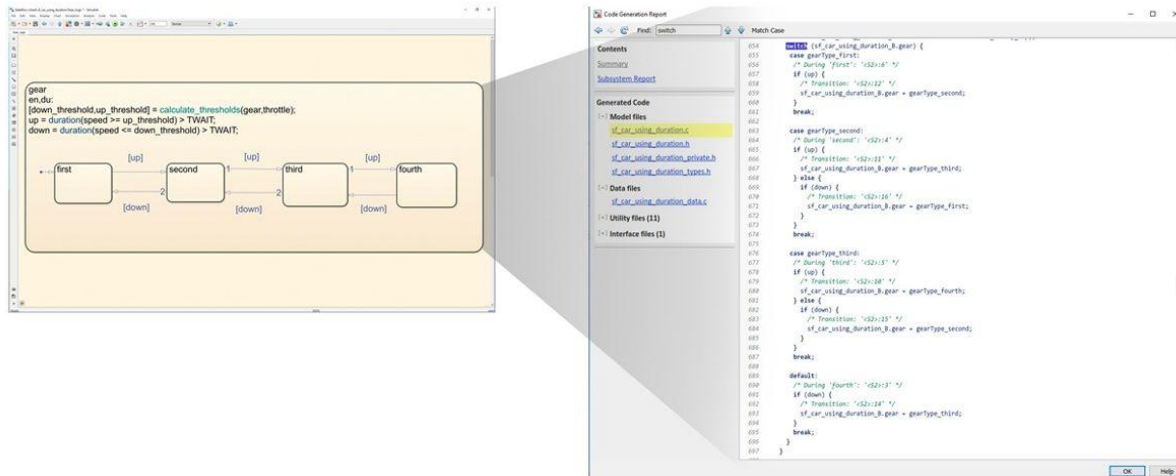
Simscape: Fiziksel Modelleme

- Multifizik Problemler
- Basit Görselleştirme
- Şematiklerle Çalışma
- Önceden Oluşturulmuş Denklemler



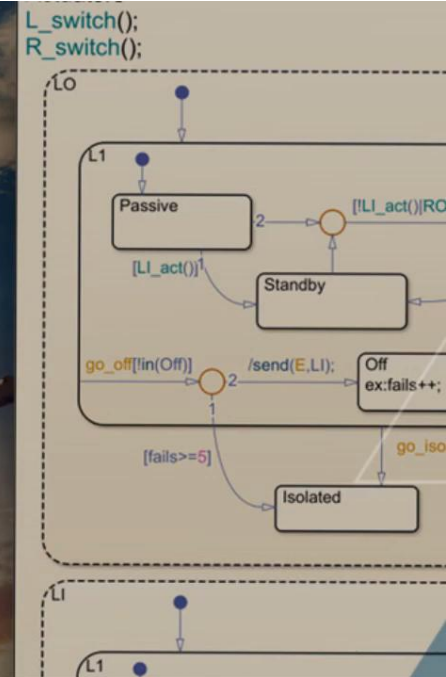
Stateflow

Stateflow: Karar ve döngüler için akış şemaları



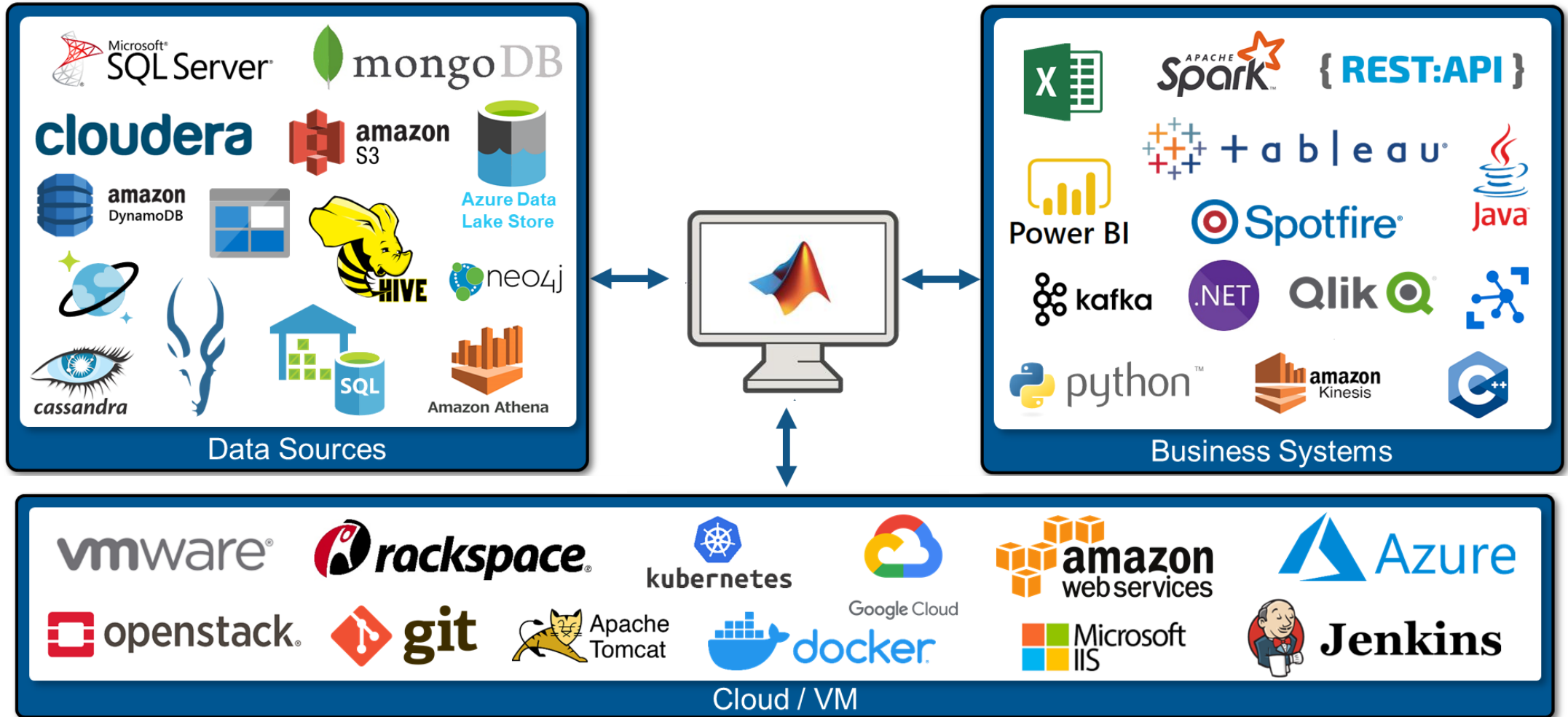
Stateflow

Model and simulate decision logic using state machines and flow charts

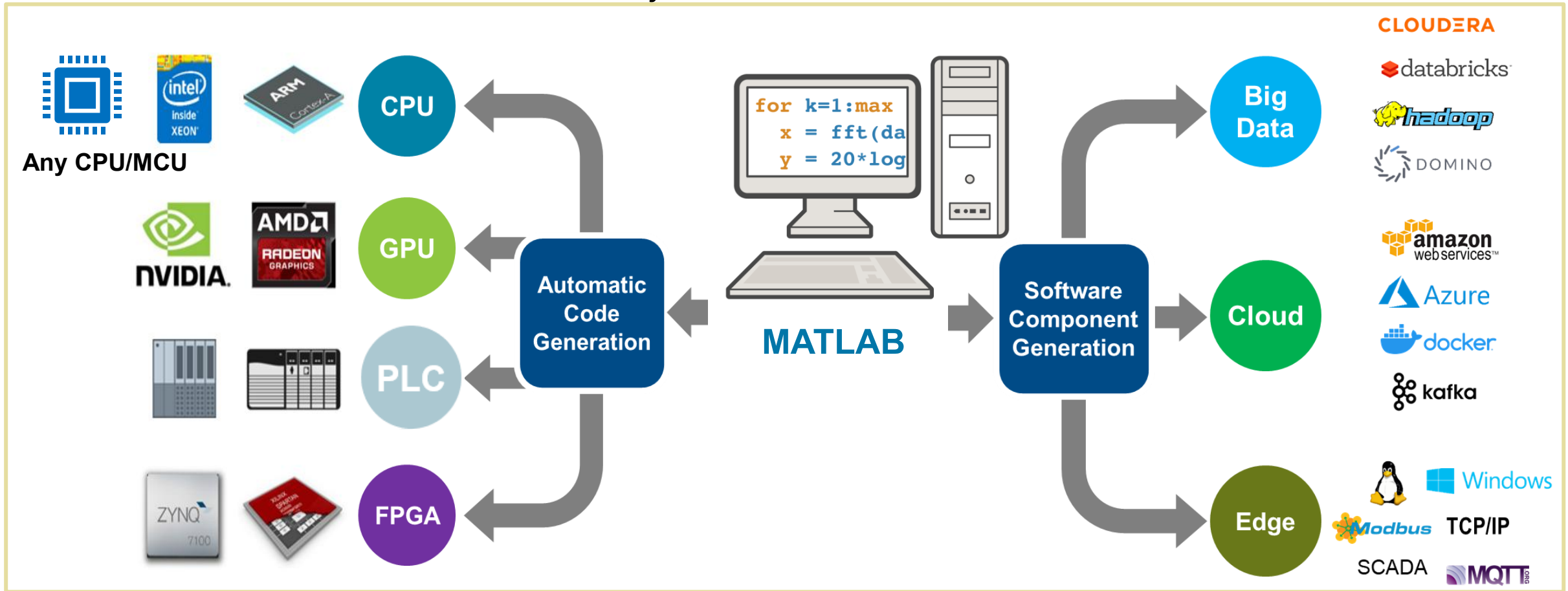


Beraber Çalışabilirlik

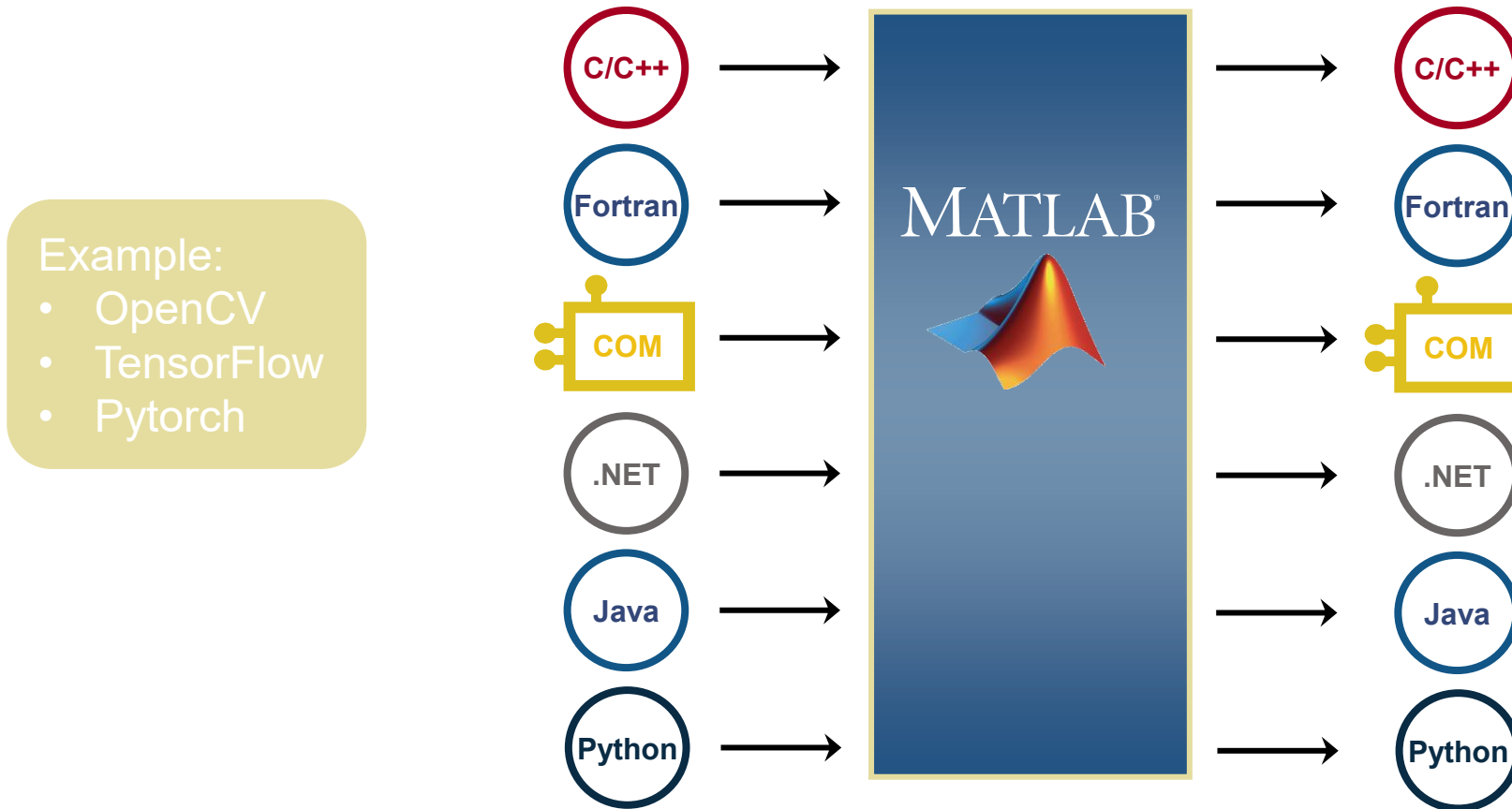
MATLAB ile diğer yazılım ve dillerden oluşan bir ekosistem



Code developed in MATLAB and Simulink can be deployed to embedded devices, enterprise systems or the cloud



Call external language libraries from MATLAB or call MATLAB functions from external languages





Havacılık, Savunma ve Uzay



Otomotiv



Biyolojik Bilimler



Biyoteknoloji ve Ecza



Haberleşme



Elektronik Cihazlar



Yenilenebilir Enerji



Finans



Endüstriyel Robotik



Tıbbi Cihazlar



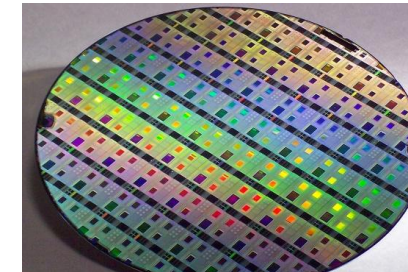
Madencilik



Nörobilim



Demiryolu Sistemleri



Yarı İletkenler



Yazılım ve İnternet





MATLAB R2023b

HOME

PLOTS

APPS

EDITOR

PUBLISH

VIEW

Design App

Get More Apps

Install App

Package App

Signal Analyzer

Sensor Array Analyzer

PCB Antenna Designer

Antenna Array Designer

Antenna Designer

Matching Network Design...

RF Budget Analyzer

5G Waveform Generator

Audio Test Bench

Bit Error Rate Analysis

BLE Waveform Generator

EDF File Analyzer

Search Documentation

ilyar

FILE

APPS

C: > Users > ilyar.jafari > OneDrive - figes.com.tr > Masaüstü > web > Phone

Current Folder

Name ^

phonedial.wav

Editor - C:\Users\ilyar.jafari\OneDrive - figes.com.tr\Masaüstü\web\untitled4.m

Command Window

fx >>

Workspace

Name ^	Value
--------	-------

Details





Online Training Suite

MATLAB Eğitimi

- İstediğiniz her yerden ve her zaman tarayıcı üzerinden erişebilirsiniz.
- Pratik yaparak kendinizi geliştirebilirsiniz.
- İlerlemenizi takip edip sonrasında aldığınız sertifikaları paylaşabilirsiniz.



Course Completion Certificate

Marco Rossi

has successfully completed **100%** of the self-paced training course

MATLAB Onramp


DIRECTOR, TRAINING SERVICES

16 November 2020

← MY COURSES

MATLAB Fundamentals (2% complete)

4.3 Creating Evenly-Spaced Vectors: (4/8) Use Colon Operator and Linspace

Task 1

Task 2

Task 3

TASK

Create a variable named `x` that contains the row vector shown below.

3 5 7 9 11

Hint | See Solution | Reset

Course Quick Reference

Test Results: **Correct!**

✓ Is `x` defined correctly?

✓ Does script not contain square brackets?

Submit

Next task

HOME

LIVE EDITOR

VIEW

Text

Code

EvenlySpacedVectors.mlx * x +

1

Task 1

`x = 5:15`

2

Task 2

`x = linspace(5,15,13)`

3

Task 3

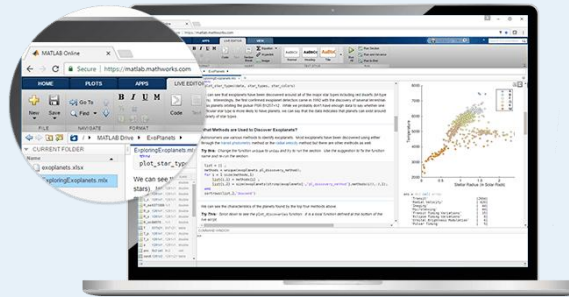
`x = 3:2:11`

Access Anytime, Anywhere



MATLAB and Simulink for Desktops

Access MATLAB and Simulink on
personal and university-owned machines



MATLAB Online and Simulink Online

Access MATLAB and Simulink with a
web browser



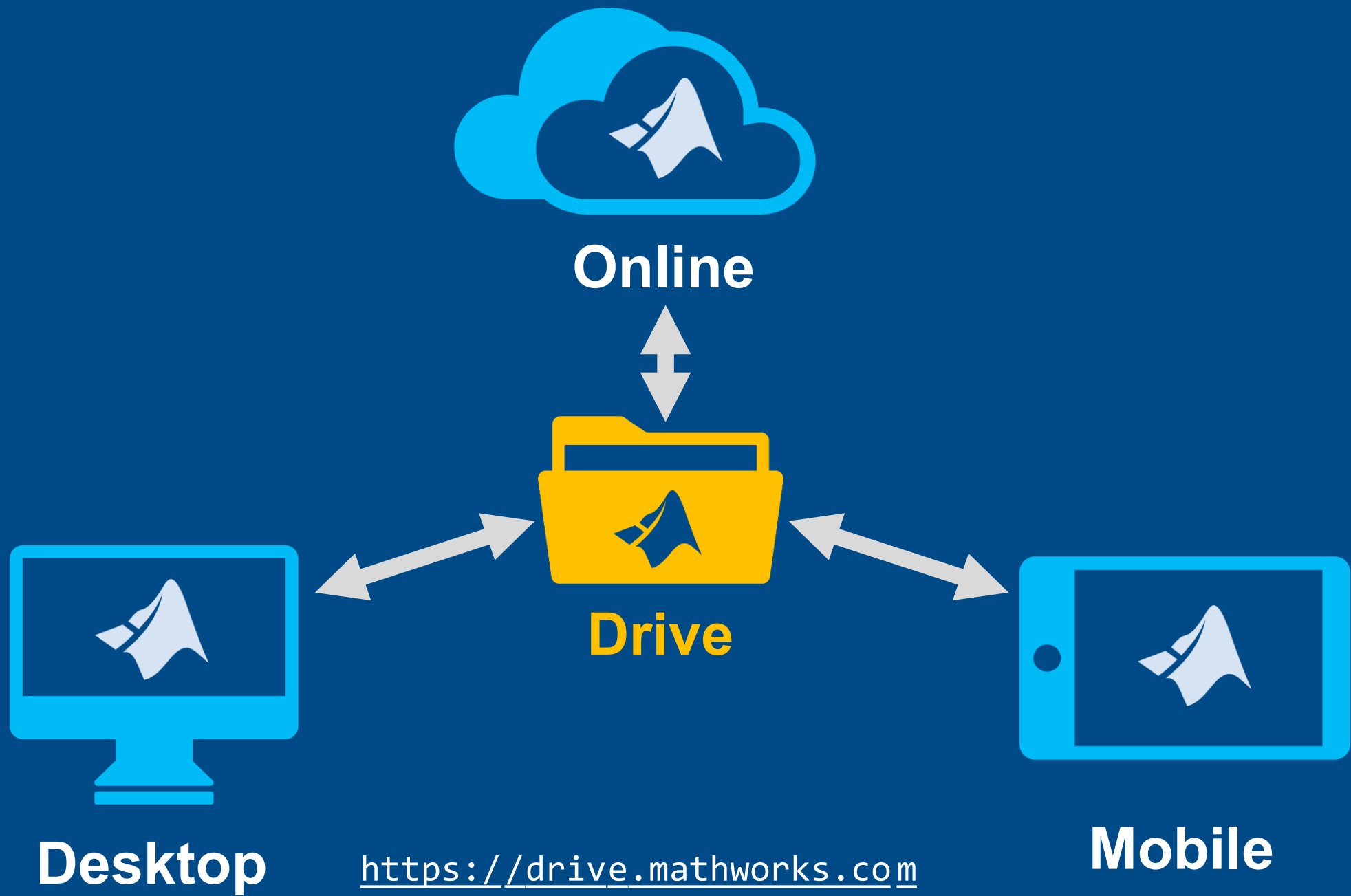
MATLAB Mobile

Access MATLAB on
iOS/Android devices

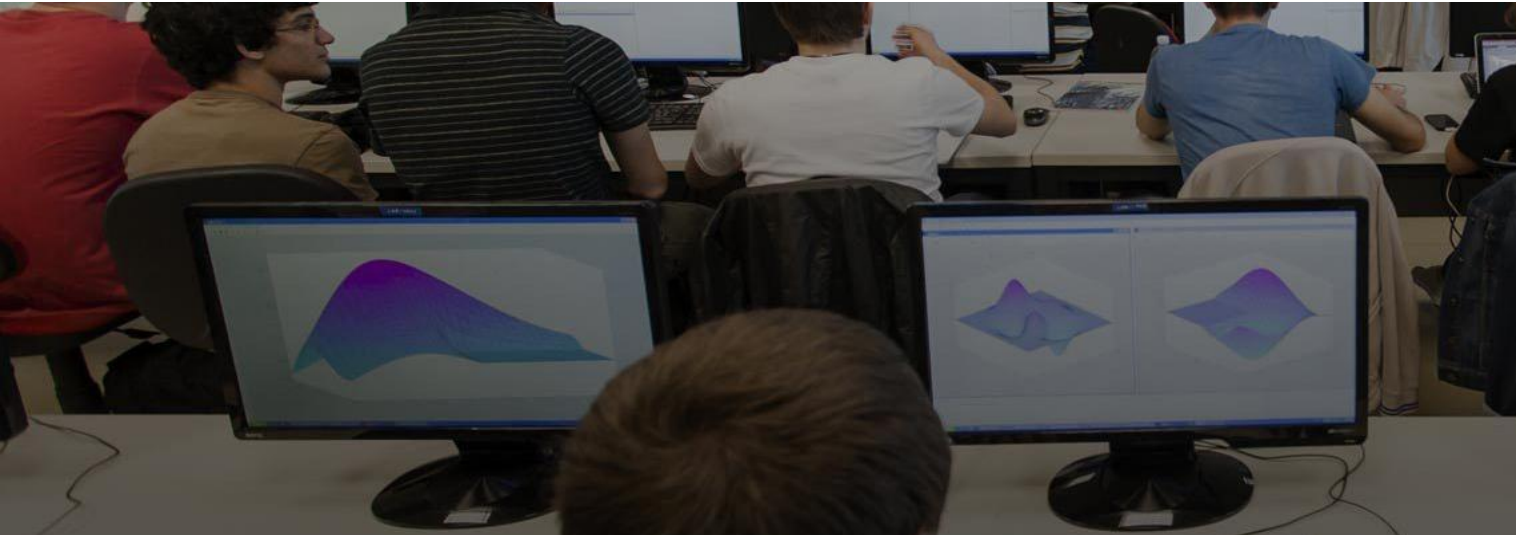
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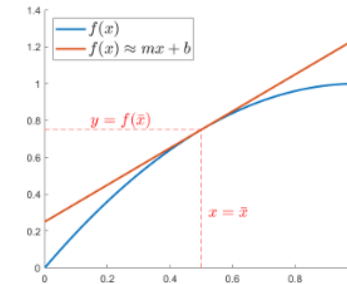
System Dynamics and Control > System Dynamics and Control Example Problems >

Linearization of a Function

Actions ▾

[Back to Instructor View](#)

In this problem you will use your knowledge of linear functions to complete to determine a linear approximation of a nonlinear function $y = f(x)$ at the operating point $(\bar{x}, \bar{y})$.



Complete the script by defining the slope and y-intercept of the linear function that approximates a $f(x)$ at $\bar{x}$. Assign the slope and y-intercept to the variables m and b respectively. The following variables have been defined for you:

- $\bar{x}$: the x-value of the operating point
- $\bar{y}$: the y-value of the operating point
- k : the derivative of f evaluated at the operating point ($k = f'(\bar{x})$)

Script

[Reset](#) [MATLAB Documentation](#)

```
1 xbar = 0.5;
2 ybar = 0.75;
3 k = 1;
4 % Calculate the slope and y-intercept of the linear approximation about
5 % given operating point
6 m = k           % slope of the linear approximation
7 b = ybar - k*xbar
8
```

[Run Script](#) ?

Assessment: All Tests Passed

[Submit](#) ?

✓ Is m defined correctly?

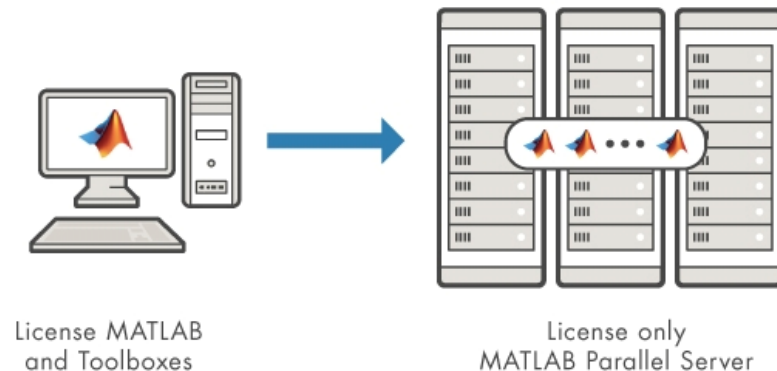
✓ Is b defined correctly?

MATLAB Parallel Server

MATLAB Parallel Server

Perform MATLAB and Simulink computations on clusters and clouds

- Prototype on the desktop with Parallel Computing Toolbox (CPU, GPU)
- Scale up computations with MATLAB Parallel Server without recoding (Cluster, Cloud)
- Manage any size cluster your Campus-Wide License



MATLAB and Simulink Challenge Projects



Excellence in Innovation

Contribute to the progress of engineering and science by solving key industry challenges!
 Are you looking for a design project with real industry relevance? MathWorks has compiled a list of inspiring projects for your capstone, senior design project, or final year assignment. These projects help you learn about technology trends while becoming an important and valued contributor to the advancement of technical computing and Model-Based Design.

Actions

1. Select a project to work on from the list on the program page
<https://github.com/mathworks/MathWorks-Excellence-in-Innovation>
2. Follow the program instructions to register your intent to complete the project
3. Work on the project using MathWorks products
4. Make the results of your work open and accessible
5. Receive a certificate and endorsements from MathWorks research leaders



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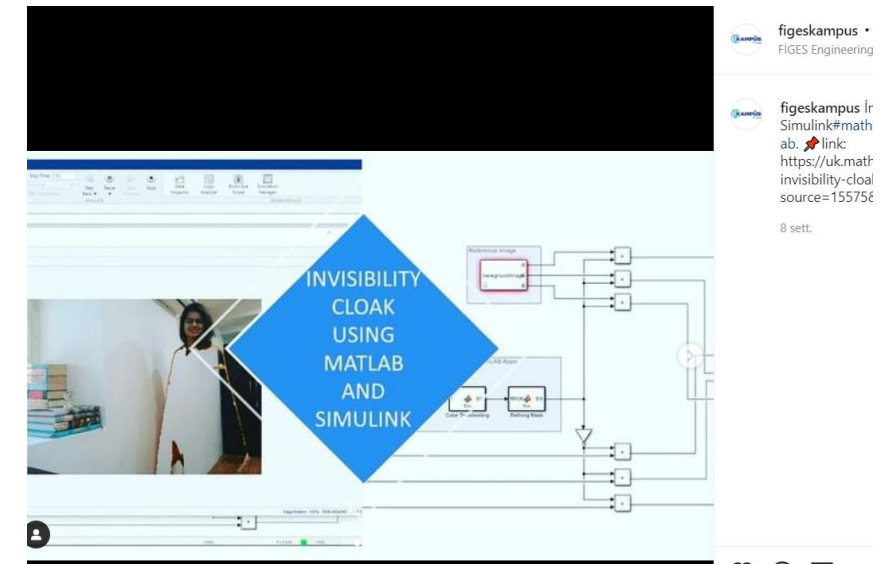
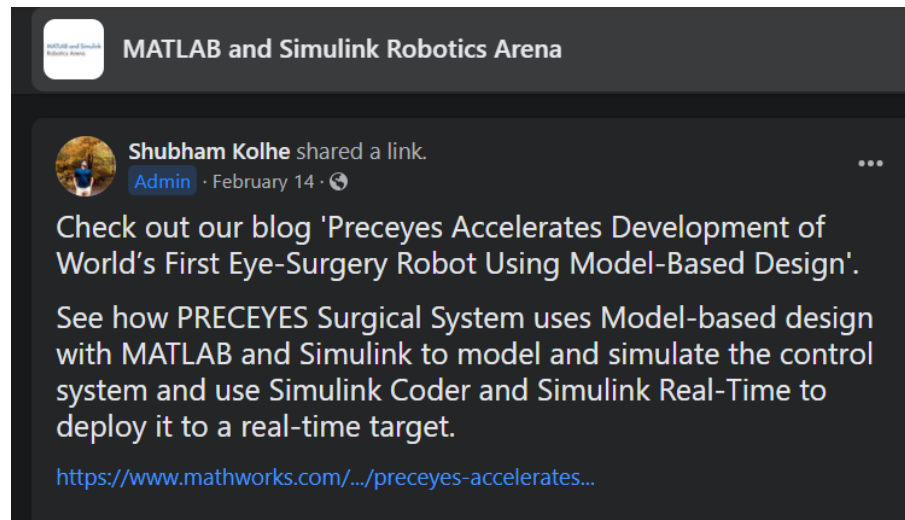
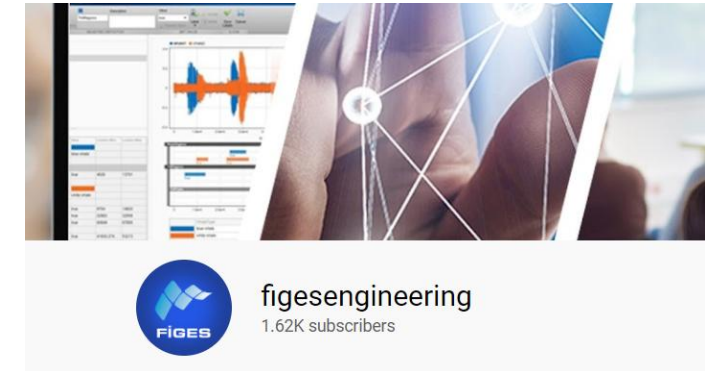
All projects

Updated: March 30, 2021

	Wind Turbine Predictive Maintenance Using Machine Learning Improve the reliability of wind turbines by using machine learning to inform a predictive maintenance model. Impact: Contribute to providing the world with reliable green energy. Expertise gained: Industry 4.0, Renewable Energy, Machine Learning, Electrification, Modeling and Simulation, Predictive Maintenance, Wind Turbines
	Optimal Data Center Cooling Improve performance, stability, and cost effectiveness of data centers by designing a cooling algorithm that keeps the system running as efficiently as possible. Impact: Contribute to the performance, reliability, and efficiency of data centers worldwide. Expertise gained: Big Data, Cloud Computing, Control, Deep Learning, Modeling and Simulation, Parallel Computing, Predictive Maintenance
	Control, Modeling, Design, and Simulation of Modern HVAC Systems Model a modern HVAC system and design a controller to improve heating, cooling, ventilation, air quality, pressure, humidity, and energy efficiency. Impact: Contribute to the design and control of modern homes and buildings to preserve energy and healthy living environments. Expertise gained: Renewable Energy, Modeling and Simulation, Electrification, Control
	Predictive Electric Vehicle Cooling Improve range, performance, and battery life by designing a cooling algorithm that keep EV battery packs cool when they need it most.

Bizi Takip Edebileceğiniz Kanallar

- <https://www.instagram.com/figeskampus/>
- <https://www.instagram.com/matlab/>
- [FIGES A.Ş.: Overview | LinkedIn](#)
- [FIGES Kampüs: Genel Bakış | LinkedIn](#)
- <https://www.facebook.com/groups/968935736499016>





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