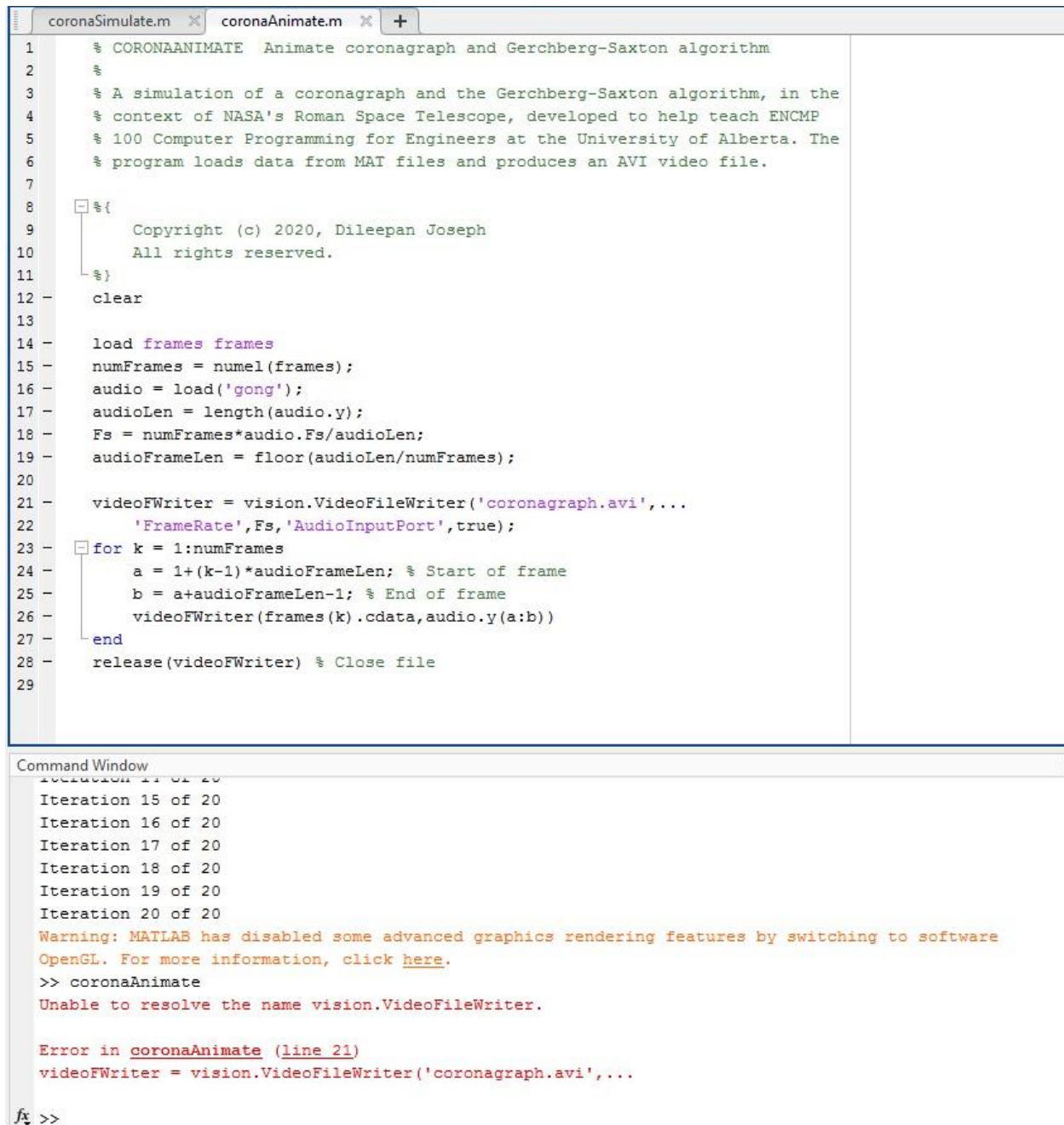


If you encounter this error, it's probably because you don't have the computer vision toolbox installed.



The screenshot shows the MATLAB environment with two tabs: 'coronaSimulate.m' and 'coronaAnimate.m'. The 'coronaAnimate.m' tab is active, displaying the following code:

```
1 % CORONAANIMATE Animate coronagraph and Gerchberg-Saxton algorithm
2 %
3 % A simulation of a coronagraph and the Gerchberg-Saxton algorithm, in the
4 % context of NASA's Roman Space Telescope, developed to help teach ENCMP
5 % 100 Computer Programming for Engineers at the University of Alberta. The
6 % program loads data from MAT files and produces an AVI video file.
7
8 %
9 % Copyright (c) 2020, Dileepan Joseph
10 % All rights reserved.
11 %
12 clear
13
14 load frames frames
15 numFrames = numel(frames);
16 audio = load('gong');
17 audioLen = length(audio.y);
18 Fs = numFrames*audio.Fs/audioLen;
19 audioFrameLen = floor(audioLen/numFrames);
20
21 videoFWriter = vision.VideoFileWriter('coronagraph.avi',...
22 'FrameRate',Fs,'AudioInputPort',true);
23 for k = 1:numFrames
24     a = 1+(k-1)*audioFrameLen; % Start of frame
25     b = a+audioFrameLen-1; % End of frame
26     videoFWriter(frames(k).cdata,audio.y(a:b))
27 end
28 release(videoFWriter) % Close file
29
```

The Command Window shows the following output:

```
Iteration 15 of 20
Iteration 16 of 20
Iteration 17 of 20
Iteration 18 of 20
Iteration 19 of 20
Iteration 20 of 20
Warning: MATLAB has disabled some advanced graphics rendering features by switching to software
OpenGL. For more information, click here.
>> coronaAnimate
Unable to resolve the name vision.VideoFileWriter.

Error in coronaAnimate (line 21)
videoFWriter = vision.VideoFileWriter('coronagraph.avi',...
```

The Command Window prompt is shown as 'fx >>'.

Type `ver` in the command window to see if the toolbox is present.

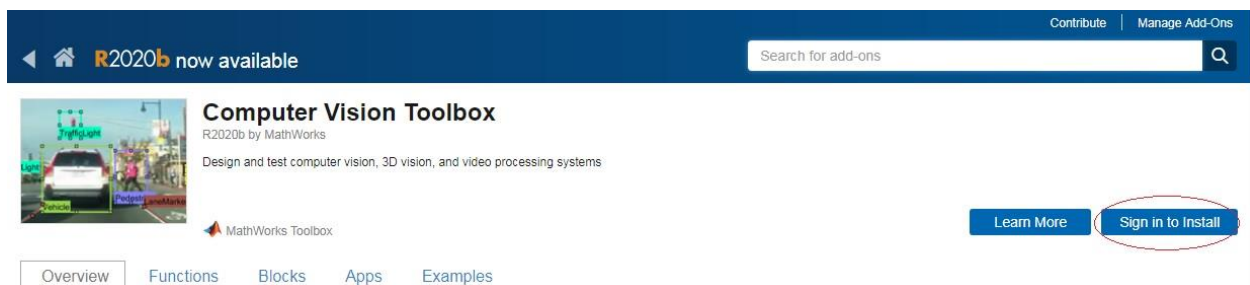
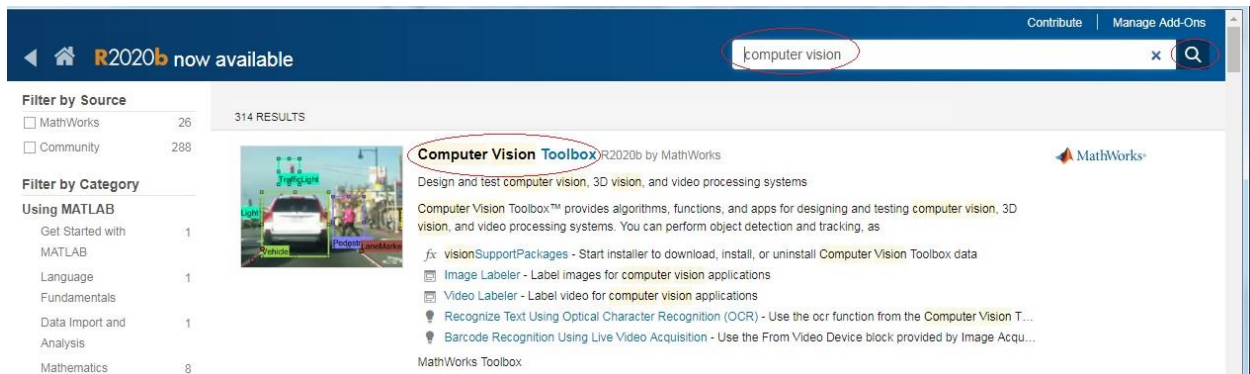
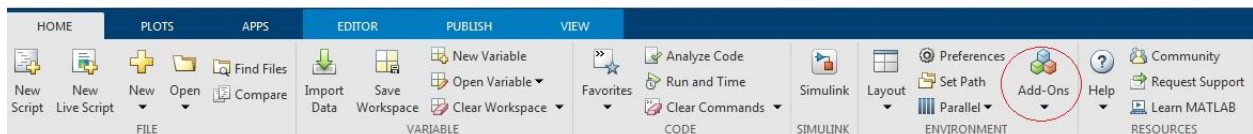
```
Command Window

>> ver

-----
MATLAB Version: 9.8.0.1417392 (R2020a) Update 4
MATLAB License Number: 1088131
Operating System: Microsoft Windows 7 Enterprise Version 6.1 (Build 7601; Service Pack 1)
Java Version: Java 1.8.0_202-b08 with Oracle Corporation Java HotSpot(TM) 64-Bit Server VM mixed mode
-----

MATLAB                Version 9.8      (R2020a)
Simulink               Version 10.1    (R2020a)
5G Toolbox             Version 2.0     (R2020a)
AUTOSAR Blockset      Version 2.2     (R2020a)
Aerospace Blockset    Version 4.3     (R2020a)
Aerospace Toolbox     Version 3.3     (R2020a)
Antenna Toolbox       Version 4.2     (R2020a)
Audio Toolbox         Version 2.2     (R2020a)
Bioinformatics Toolbox Version 4.14    (R2020a)
Communications Toolbox Version 7.3     (R2020a)
Control System Toolbox Version 10.8    (R2020a)
Curve Fitting Toolbox Version 3.5.11  (R2020a)
DSP System Toolbox    Version 9.10    (R2020a)
Data Acquisition Toolbox Version 4.1     (R2020a)
Database Toolbox      Version 9.2.1   (R2020a)
Datafeed Toolbox      Version 5.9.1   (R2020a)
Deep Learning Toolbox Version 14.0    (R2020a)
Econometrics Toolbox  Version 5.4     (R2020a)
Embedded Coder        Version 7.4     (R2020a)
```

To install, follow the next few pictures




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Computer Vision Toolbox

R2020b by MathWorks

Design and test computer vision, 3D vision, and video processing systems

MathWorks Toolbox

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Blocks

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Examples

Confirm product installation

MATLAB will shut down now to install the selected product.

• Computer Vision Toolbox

Save your work before continuing.

Continue


Cancel

Add-On Product Installer

The following MathWorks products will be installed:
Computer Vision Toolbox

MATLAB®
& SIMULINK®

R2020a

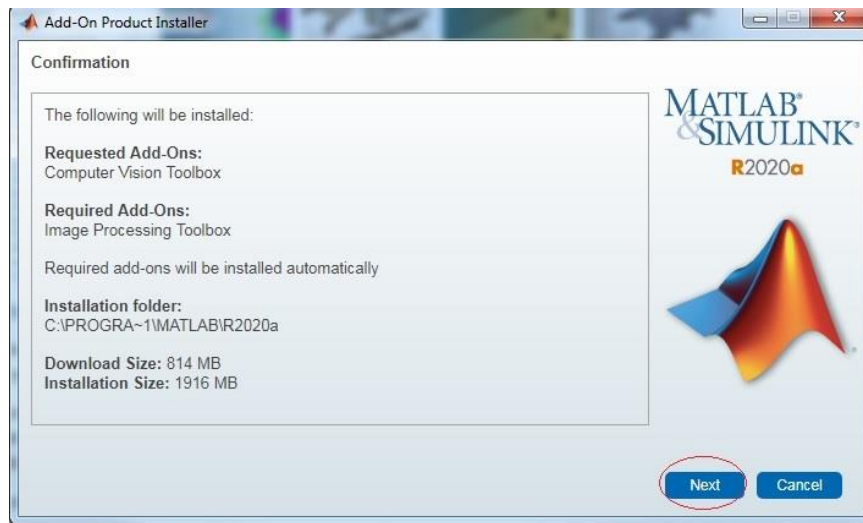


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Next

Cancel



This will take about 30 mins to install.

Recheck to see if toolbox is installed

```
Command Window

>> ver

-----
MATLAB Version: 9.8.0.1417392 (R2020a) Update 4
MATLAB License Number: 1088131
Operating System: Microsoft Windows 7 Enterprise Version 6.1 (Build 7601: Service Pack 1)
Java Version: Java 1.8.0_202-b08 with Oracle Corporation Java HotSpot(TM) 64-Bit Server VM mixed mode
-----

MATLAB                      Version 9.8          (R2020a)
Simulink                    Version 10.1         (R2020a)
5G Toolbox                  Version 2.0          (R2020a)
AUTOSAR Blockset            Version 2.2          (R2020a)
Aerospace Blockset          Version 4.3          (R2020a)
Aerospace Toolbox           Version 3.3          (R2020a)
Antenna Toolbox              Version 4.2          (R2020a)
Audio Toolbox                Version 2.2          (R2020a)
Bioinformatics Toolbox       Version 4.14         (R2020a)
Communications Toolbox       Version 7.3          (R2020a)
Computer Vision Toolbox      Version 9.2          (R2020a)
Control System Toolbox       Version 10.8         (R2020a)
Curve Fitting Toolbox        Version 3.5.11       (R2020a)
DSP System Toolbox           Version 9.10         (R2020a)
```