1.6.3 Coding with Slicing and Redicing: Dot Product

Bookmark this page

Week 1 due Oct 5, 2023 03:12 IST

1.6.3 Coding with Slicing and Redicing: Dot Product

There are a number of steps you need to take with MATLAB Online before moving on with this unit. If you do this right, it will save you a lot of grief for the rest of the course:

- When you uploaded `LAFF-2.0xM.zip` and unzipped it, that directory and all its subdirectories were automatically placed on the "path". The path is the set of all places where MATLAB looks for support functions that are used. If you have too much on the path, it may look in the wrong place. If you have too little on the path, then certain functions aren't found, and you will get error messages.
- In theory, in Unit 1.5.2, you removed `LAFF-2.0xM` from the path. If not: right-click on the folder, choose "Remove from path" and choose "Selected folder and subfolders". `LAFF-2.0xM` should now turn from black to gray.

Next, there is a specific set of functions that we **do** want on the path. To accomplish this

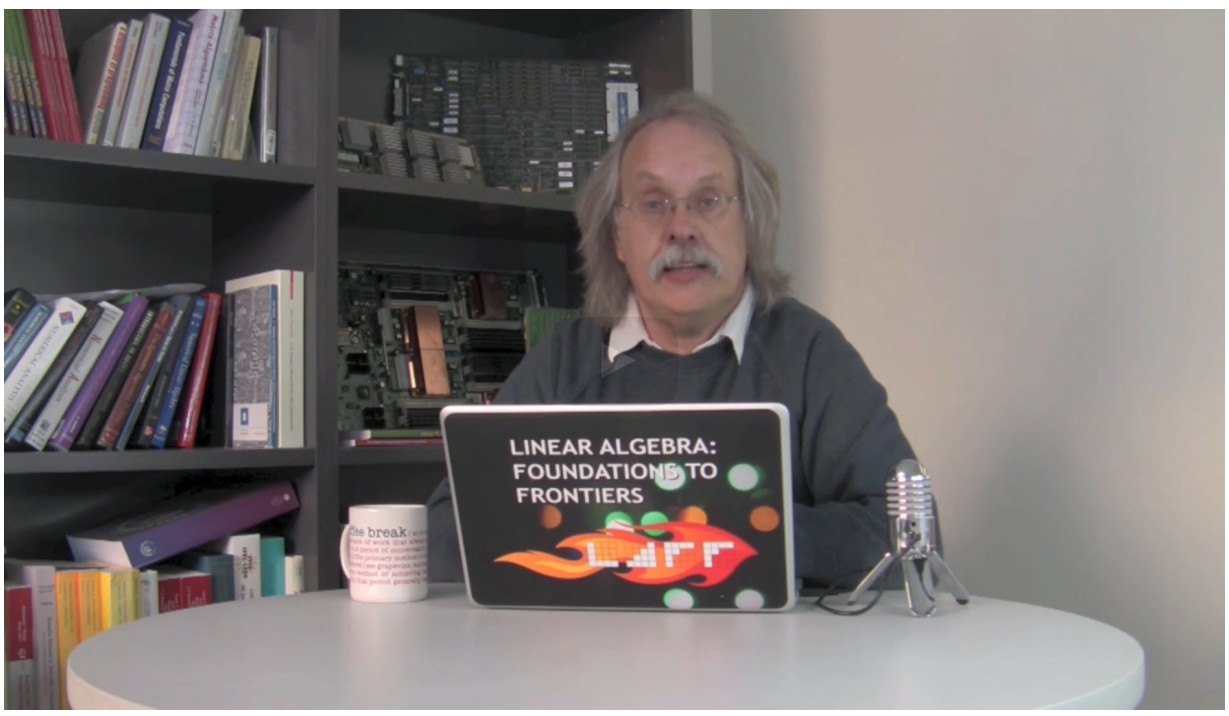
- Expand folder `LAFF-2.0xM`
- Expand subfolder `Programming`
- Right-click on subfolder `laff` , choose "Add to path" and choose "Selected folder and subfolders". laff should now turn from gray to black.

This should be the last time you need to set the path for this course.

Finally, you will want to make LAFF-2.0xM → Programming → Week01 your current directory for the Command Window. You do this by double clicking on LAFF-2.0xM → Programming → Week01. To make sure the Command Window views this directory as the current directory, type "pwd" in the Command Window.

The video illustrates how to do the exercise using a desktop version of MATLAB. Hopefully it will be intuitively obvious how to do the exercise with MATLAB Online instead. If not, ask questions in the discussion for the unit.

Implementing the dot product with FLAME@lab



and we've actually

written libraries that have hundreds of thousands of lines of code this way.

These codes are highly reliable because it's

very difficult to make errors the way we code,

and they actually tend to also achieve very high performance.

And how they achieve high performance, we'll talk about later in this course.

End of transcript. Skip to the start.

▶ 9:40 / 9:46 2.0x

Video

Download video file

Transcripts

Download SubRip (.srt) file

Calculator

Download Text (.txt) file

Reading Assignment

0 points possible (ungraded)
Read Unit 1.6.3 of the notes. [LINK]

Done

Submit

Correct

1.6.3 Discussion

Hide Discussion

Topic: Week 1 / 1.6.3

Add a Post

Show all posts by recent activity

"remove from path" option not showing Hello. "remove from path" option not showing when I click on LAFF-2.0xM. Please advise. Thank you.	3
Error in path? I've set the path to 'laff' and the pwd to Programming/Week01, but still getting the error below. Can you help please? >> beta = Dot_unb(alpha,...	2
Are we dicing and slicing for parallel computation/concurrency The only reason I will think this approach is better and efficient is using more cores on the gpu processor in parallel or concurrently thereby enh...	2
Alpha as an input variable/setting value in the code I can understand why you would want to be able to provide a starting alpha to the function. However, the moment it gets set to 0 in the code th...	5
Big picture of FLAM lib I'm missing the big picture here: In the previous sections, we developed MATLAB code to perform very rudimentary operations which are alread...	5
I get error at agument >> beta = dot_unb(alpha,x,y) Unrecognized function or variable 'FLA_Part_2x1'. Error in dot_unb (line 4) xB] = FLA_Part_2x1(x, ... what happen I...	2
error I followed the directions carefully, yet got the error message at the end: beta=Dot_unb(alpha, x, y) Unrecognized function or variable 'FLA_Part_...	4

Homework 1.6.3.1

1/1 point (graded)
Follow along with the video to implement the routine

```
Dot_unb( x, y ).
```

The “Spark webpage" can be found at http://edx-org-utaustinx.s3.amazonaws.com/UT501x/Spark/index.html or by opening the file

```
LAFF-2.0xM/Spark/index.html
```

that should have been in the LAFF-2.0xM.zip file you downloaded and unzipped as described in Week0 (Unit 0.2.7).

Done / Skip

Submit

Calculator

‹ Previous Next ›

Calculator