

Installing Chebfun

Chebfun is a MATLAB toolbox developed by Nick Trefethen and his team at the University of Oxford. Chebfun makes it easy to work with mathematical functions in a natural and intuitive way. Instead of dealing with arrays and matrices, you can define functions symbolically and let Chebfun handle the underlying calculations. It is especially useful for visualizing functions, performing basic operations like differentiation and integration, and solving differential equations.

Chebfun is freely available, but it doesn't come with standard installation of MATLAB. You need to install it manually as follows.

For the desktop version of MATLAB (on local computer):

- Download the file master.zip at <https://github.com/chebfun/chebfun/archive/master.zip>
- Unzip the contents of the zip file to a directory. Name “chebfun” for this directory.
- In MATLAB, add the chebfun directory to your path. This can be done by selecting “File/Set Path...” from the main or Command window menus, or with the command `pathtool`. Click “Save” button on this dialog so that Chebfuns is on the path automatically in future MATLAB sessions.

For the online version of MATLAB:

- Do Step 1 and 2 as above.
- Go to <https://drive.mathworks.com> and upload the folder “chebfun” there.
- Enter the command `addpath('/MATLAB Drive/chebfun')` in MATLAB to load the package.