

Graphical displays of data

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1 Plotting Functions

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MATLAB comes with lots of built-in functionality for generating both 2-D and 3-D graphics. You will learn a collection of commands (mainly `plot()`) that will enable you to generate plots and configure their appearance with just about any degree of precision you want. The great advantage of generating graphics purely based on scripted commands (as opposed to graphical, pointy-clicky approaches based on graphical user interfaces (GUIs)) is that you can easily and instantly re-generate graphics simply by re-running the script(s). In addition making changes to your graphics becomes a simple matter of tweaking commands and scripts.

Rather than writing notes that essentially duplicate the extensive online documentation included with MATLAB, I will instead point you to some initial starting locations where you can learn about generating graphics in MATLAB.

[Graphics in MATLAB](#)

[Common Graphics Functions in MATLAB](#) (a graphical menu showing different kinds of plots and how to generate them)

[2-D and 3-D Plots](#)

[The `plot\(\)` command](#)

[Creating 2-D Graphs and Customizing Lines](#)

[Add Titles, Axis Labels and Legends to Graphs](#)

[Figures with multiple axes using subplots](#)

[3-D Surface and Mesh Plots](#)

[Shaded Polygons](#)

[Customizing graphics by setting properties of the underlying objects](#)