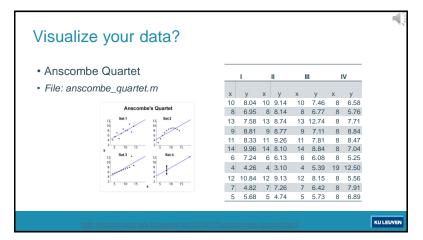
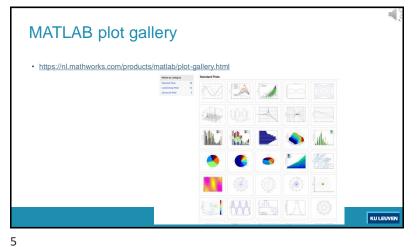


Create various types of graphs
Select variables to plot directly from a workspace browser
Easily create and manipulate subplots in the figure
Add annotations such as arrows, lines, and text
Set properties on graphics objects

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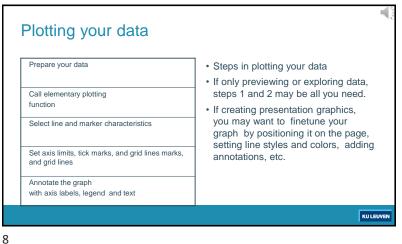


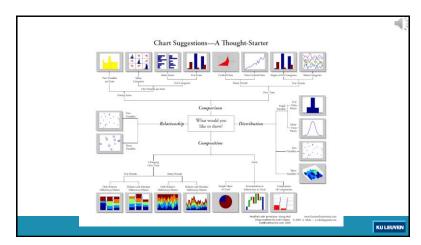


- · Before creating a chart, ask yourself: what story do I need to tell?
- Graph works best when the message is contained in the shape of the data (patterns, trends, exceptions, ...) (Stephen Few)
- Chart-Thought-Starter (Andrew Abela- extremepresentation.typepad.com)
- $\bullet \ \ Check\ MATLAB\ Blog\ \hbox{$\tt (http://blogs.mathworks.com/videos/2009/01/16/flow-chart-shows-which-visualization-to-use/)$\\$
- Check also MATLABcentral

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interactive plot editing

- MATLAB supports two ways to edit the plots you create:
 - · Interactively: use the mouse to select and edit objects
 - Programmatically: using MATLAB functions at the command line or in an M-file
- · Interactive mode:

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- · perform point-and-click editing of graphs
- modify the appearance of a graphics object by double-clicking on the object and changing the values of its properties
- · access the properties through a gui

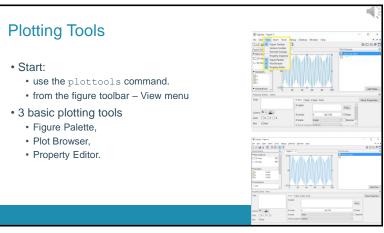
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Plotting your data

- · Have your data prepared in the workspace
- 2 ways to work interactively:
- 1. Start from variables
 - 1. Select variables in workspace
 - 2. Select plot from menu
- 2. Start graphic figure window
 - 1. plottools

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Plotting your data

• Prepare your data

• X = [1:50];
• Y = sin(x);

• Use Toolstrip > Plot

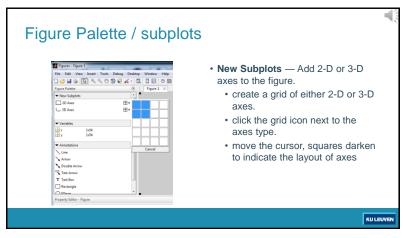
• Select variables from workspace (ctrl + mouse click)

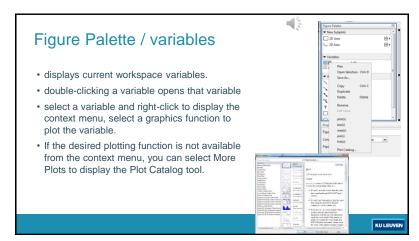
• Select plot type

Basic plotting tools

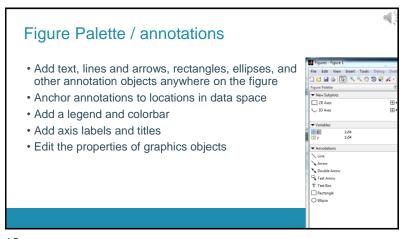
- Figure Palette: create and arrange subplot axes, view and plot workspace variables, and add annotations.
- · Plot Browser:
 - select and control the visibility of the axes or graphic objects plotted in the figure.
 - add data to any selected axes by clicking the Add Data button.
- Property Editor: set common properties of the selected object.

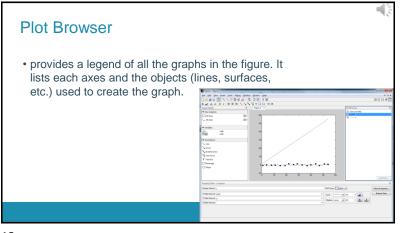
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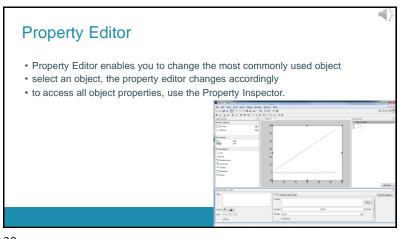




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Saving Your Work (*.fig)

• in a format that can be opened during another MATLAB session

• Select Save from the figure window File menu or click the Save button on the toolbar. If this is the first time you are saving the file, the Save As dialog box appears.

• Make sure that the Save as type is Fig-File.

• Specify the name you want assigned to the figure file.

• Click OK.

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