Undocumented Matlab

unbelievable features; unbelievable quality; unbelievable cost effectiveness; unbelievable service

ADVANCED MATLAB GUI

COURSE OUTLINE

1. Advanced GUI topics

- a. GUI conventions and best practices
- b. GUI tradeoffs and design principles
- c. Writing robust fault-tolerant code
- d. Avoiding common GUI pitfalls
- e. Passing information around the GUI
- f. Improving Matlab GUI performance
- g. GUI units and resizing
- h. Advanced topics in GUI programming

2. Customizing the figure window

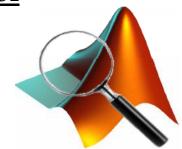
- a. The figure's main menu
- b. Context menus
- c. Using HTML
- d. Toolbars

3. Integrating & interacting with GUI controls

- a. Integrating ActiveX and Java controls
- b. GUIDE vs. m-programming trade-offs
- c. GUI callback programming
- d. Dynamic (automatic) updates/refreshes
- e. Using timers for periodic updates
- f. Listening to control action events
- g. Adding new properties to uicontrols
- h. Using hidden/undocumented properties
- i. Listening to property-change events

4. Uitools

- a. Uitable
- b. Uitree
- c. Uitab & uitabgroup
- d. Uiundo
- e. Other uitools



Summary

A full-day advanced Matlab course.

You will learn:

- how to write robust fault-tolerant GUI
- how to apply best practices in your GUI applications
- how to customize the figure's toolbar and main menu
- how to use HTML for improved rendering of menus, labels and controls
- how to integrate ActiveX and Java components in Matlab GUI
- how to improve the performance and interactivity of your Matlab GUI
- how to customize your Matlab GUI in ways that you never knew were possible

Target audience

- (1) Matlab users with a solid experience using Matlab graphics and GUI, who wish to improve their program's quality, appearance and usability.
- (2) Matlab users who wish to sell professional-looking Matlab-based GUI software.

Basic familiarity with Matlab GUI is assumed.