## 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

## 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.
5. Where next? - topics and resources for further learning

