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Advanced GUI architectures including multiple figure GUIs and image mapped interface controls Instructional examples and exercises are provided throughout each chapter that offers a hands-on approach to learning MATLAB GUI development. The M-file code for each example and exercise solution is available for download on the web to help you quickly learn how to develop your own GUIs! About The ...

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MATLAB Advanced GUI Development . 2006. Abstract. No abstract available. Cited By. Chou J and Truong T (2019) Sliding-window metaheuristic optimization-based forecast system for foreign exchange analysis, Soft Computing - A Fusion of Foundations, Methodologies and Applications, 23:10, (3545-3561), Online publication date: 1-May-2019. Caban J, Rheingans P and Yoo T An evaluation of ...

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MATLAB GUI Graphical user interfaces (GUIs), also known as apps, provide point-and-click control of your software applications, eliminating the need for others to learn a language or type commands in order to run the application. You can share apps both for use within MATLAB and also as standalone desktop or web apps.

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~~MATLAB GUI – MATLAB & Simulink – MathWorks~~

GUIDE – GUI Development Environment GUIDE, MATLAB 's Graphical User Interface development environment, provides a set of tools for laying out your GUI. The Layout Editor is the control panel for GUIDE. To start the Layout Editor, use the guide command. The following picture shows the Layout Editor with the Show names in

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4.0 out of 5 stars MATLAB Advanced GUI development. Reviewed in the United States on November 15, 2012. Verified Purchase. Excellent book, lots of examples and techniques with decent comments, real code not waffle or partial coding styles. Learnt a lot about M GUI techniques. Comprehensive coverage and when combined with the 47 GUI Matlab Website download M files, sure helps with the ...

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Advanced Programming Techniques in MATLAB Loren Shure MathWorks, Inc.
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Passing arrays How structures use memory Functions of all types –
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~~Advanced Programming Techniques in MATLAB®~~

June 2001 Online Only Revised for MATLAB 6.1 (Release 12.1) July 2002 Online Only Revised for MATLAB 6.6 (Release 13) June 2004 Online Only Revised for MATLAB 7.0 (Release 14) October 2004 Online Only Revised for MATLAB 7.0.1 (Release 14SP1) March 2005 Online Only Revised for MATLAB 7.0.4 (Release 14SP2)

~~MATLAB Creating Graphical User Interfaces~~

Hey everyone in this video I'm going to show you my Matlab GUI that I've written for a small company. for any question mail me, abolfazl.nejatian@gmail.com

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“Yair Altman is a real “Matlab Technologist”. He knows and understands Matlab from the ground up and especially specializes in advanced topics such as Java connectivity, GUI, Matlab performance and Object Oriented. Yair’s training is very recommended and after it, you feel like a new world of Matlab techniques is revealed to you.”

~~Training | Undocumented Matlab~~

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MATLAB: Advanced GUI Development. Nov 11, 2013 - The fundamentals of Simulink modelling and simulation are then presented, followed by coverage of intermediate level modelling skills and more advanced techniques in Simulink modelling and applications. Jan 14, 2014 - Advanced Matlab Programming 2 days (March 10-11), including best practices, preparing professional reports and performance tuning ...

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IGUIDE (GUI Development Environment). ICreate m-les that generate GUIs as functions or scripts I
Due to time constrains, I will show one simple example and list some useful links: MATLAB GUI tutorial Youtube tutorial Introduction to MATLAB programming Code optimisation

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~~Introduction to MATLAB programming: Advanced topics~~

Excellent MATLAB programming skills is therefore a crucial factor in making or breaking your career. This course is designed for students who have no prior knowledge of MATLAB. This course starts with the most basic concepts and moves towards more advanced topics such as visualization, exporting and importing of data, advanced data types and data structures and advanced programming constructs.

~~The Complete MATLAB Course: Beginner to Advanced ...~~

MATLAB Advanced GUI Development book. Read reviews from world's largest community for readers. After more than 20 years of development, MATLAB has evolve...

~~MATLAB Advanced GUI Development by Scott T. Smith~~

Develop proficiency using advanced features of the Matlab language: multidimensional arrays, reduced indexing reference and assignment, variable argument lists, function handles, subfunctions, communicating across workspaces (using evalin, assignin, and inputname), debugging, publishing to HTML, profiling, lint code checker.

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After more than 20 years of development, MATLAB has evolved from a powerful matrix calculation application into a universal programming tool used extensively within scientific and engineering communities both commercial and academic. MATLAB versions 6.x and 7.x include functionality for developing advanced graphical user interfaces, GUIs, and real-time animation and graphics. GUI applications offer many advantages for users who wish to solve complex problems by providing interactivity and visual feedback. Some common examples of application areas where GUI development is desirable: .Image and Video Processing .Signal Processing .Communications .Simulation of Complex Systems .Instrumentation and Data Acquisition Interfaces .Control Systems .Financial Analysis .Animation of 2D or 3D Graphical Data This text introduces you to the capabilities of MATLAB for GUI development and covers the following areas in detail: .Handle Graphics(r) programming and low-level GUIs .High-level GUI development using GUIDE .The structure of GUIs including event processing, callbacks, timers, and real-time animation of plots / data .Advanced GUI architectures including multiple figure GUIs and image mapped interface controls Instructional examples and exercises are provided throughout each chapter that offers a hands-on approach

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to learning MATLAB GUI development. The M-file code for each example and exercise solution is available for download on the web to help you quickly learn how to develop your own GUIs! About The Author Scott T. Smith received his MSEE degree from SUNY at Buffalo in the fields of image sensor applications and image processing. He currently works for Micron Technology Inc. in California as an Imaging Engineer and has 10 years of experience working with MATLAB and developing GUI applications. Previous work experience includes 3 years at the David Sarnoff Research Center (Former RCA Research Labs) in Princeton, NJ as an Associate Member of the Technical Staff in the Advanced Imaging Group as well 3 years as an R&D engineer for an X-ray/scientific imaging company. He is a member of SPIE and IEEE and is an author or co-author of several papers and patents in the field of imaging.

Author Craig Lent's 1st edition of Learning to Program with MATLAB: Building GUI Tools teaches the core concepts of computer programming, such as arrays, loops, function, basic data structures, etc., using MATLAB. The text has a focus on the fundamentals of programming and builds up to an emphasis on GUI tools, covering text-based programs

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first, then programs that produce graphics. This creates a visual expression of the underlying mathematics of a problem or design.

The matrix laboratory interactive computing environment—MATLAB—has brought creativity to research in diverse disciplines, particularly in designing and programming experiments. More commonly used in mathematics and the sciences, it also lends itself to a variety of applications across the field of psychology. For the novice looking to use it in experimental psychology research, though, becoming familiar with MATLAB can be a daunting task. MATLAB for Psychologists expertly guides readers through the component steps, skills, and operations of the software, with plentiful graphics and examples to match the reader's comfort level. Using an extended illustration, this concise volume explains the program's usefulness at any point in an experiment, without the limits imposed by other types of software. And the authors demonstrate the responsiveness of MATLAB to the individual's research needs, whether the task is programming experiments, creating sensory stimuli, running simulations, or calculating statistics for data analysis. Key features of the coverage: Thinking in a matrix way. Handling and plotting data. Guidelines for improved programming, sound, and imaging. Statistical analysis and signal detection theory indexes. The Graphical User

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Interface. The Psychophysics Toolbox. MATLAB for Psychologists serves a wide audience of advanced undergraduate and graduate level psychology students, professors, and researchers as well as lab technicians involved in programming psychology experiments.

Many features of this book are designed to emphasize the proper way to write reliable MATLAB programs. These features should serve a student well when he or she is first learning MATLAB, and they should also be useful to the practitioner on the job. They include 1. Emphasis on Top-Down Design Methodology- The book introduces a top-down design methodology in Chapter 3, and uses it consistently throughout the rest of the book. This methodology encourages a student to think about the proper design of a program before beginning to code. It emphasizes the importance of clearly defining the problem to be solved and the required inputs and outputs before any other work is begun. Once the problem has been properly defined, it teaches the student to employ stepwise refinement to break the task down into successively smaller sub-tasks and to implement the subtasks as separate subroutines or functions. Finally, it teaches the importance of testing at all stages of the process-both unit testing of the component routines and exhaustive testing of the final product. The formal design process taught by the book may be

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summarized as follows: i. Clearly state the problem that you are trying to solve. ii. Define the inputs required by the program and the outputs to be produced by the program. iii. Describe the algorithm that you intend to implement in the program. This step involves top-down design and stepwise decomposition, using pseudocode or flow charts. iv. Turn the algorithm into MATLAB statements. v. Test the MATLAB program. This step includes unit testing of specific functions as well as exhaustive testing of the final program with many different data sets. 2. Emphasis on Functions- The book emphasizes the use of functions to logically decompose tasks into smaller sub-tasks. It teaches the advantages of functions for data hiding. It also emphasizes the importance of unit testing functions before they are combined into the final program. In addition, the book teaches about the common mistakes made with functions and how to avoid them. 3. Emphasis on MATLAB Tools - The book teaches the proper use of MATLAB's built-in tools to make programming and debugging easier. The tools covered include the Editor / Debugger, the Workspace Browser, the Help Browser, and GUI design tools.

MATLAB for Neuroscientists serves as the only complete study manual and teaching resource for MATLAB, the globally accepted standard for scientific computing, in the neurosciences and psychology. This

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unique introduction can be used to learn the entire empirical and experimental process (including stimulus generation, experimental control, data collection, data analysis, modeling, and more), and the 2nd Edition continues to ensure that a wide variety of computational problems can be addressed in a single programming environment. This updated edition features additional material on the creation of visual stimuli, advanced psychophysics, analysis of LFP data, choice probabilities, synchrony, and advanced spectral analysis. Users at a variety of levels—advanced undergraduates, beginning graduate students, and researchers looking to modernize their skills—will learn to design and implement their own analytical tools, and gain the fluency required to meet the computational needs of neuroscience practitioners. The first complete volume on MATLAB focusing on neuroscience and psychology applications Problem-based approach with many examples from neuroscience and cognitive psychology using real data Illustrated in full color throughout Careful tutorial approach, by authors who are award-winning educators with strong teaching experience

MATLAB® can be used to execute many mathematical and engineering calculations, as well as a handheld computer can—if not better. Moreover, like many other computer languages, it can perform tasks

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that a handheld computer cannot. Compared to other computer languages, MATLAB provides many built-in functions that make learning easier and reduce prototyping time. Simulink® is a toolbox that extends the possibilities of MATLAB by providing a graphical interface for modeling and simulating dynamical processes. Using examples from mathematics, mechanical and electrical engineering, and control and signal processing, *What Every Engineer Should Know About MATLAB® and Simulink®* provides an introduction to these two computer environments and examines the advantages and limitations of MATLAB. It first explores the benefits of how to use MATLAB to solve problems and then process and present calculations and experimental results. This book also briefly introduces the reader to more advanced features of the software, such as object-oriented programming (OOP), and it draws the attention to some specialized toolboxes. Key features of the book include demonstrations of how to: Visualize the results of calculations in various kinds of graphical representations Write useful script files and functions for solving specific problems Avoid disastrous computational errors Convert calculations into technical reports and insert calculations and graphs into either MS Word or LaTeX This book illustrates the limitations of the computer, as well as the implications associated with errors that can result from approximations or numerical errors. Using selected examples of

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computer-aided errors, the author explains that the set of computer numbers is discrete and bounded—a feature that can cause catastrophic errors if not properly taken into account. In conjunction with The Mathworks—marketers of MATLAB and Simulink—a supplementary website is presented to offer access to software implemented in the book and the script files used to produce the figures. This book was written by Adrian B. Biran of Technion -- Israel Institute of Technology, with contributions by Moshe Breiner, managing director of SimACon.

This book covers various modern theoretical, technical, practical and technological aspects of computerized numerical control and control systems of deterministic and stochastic dynamical processes.

Watching the environment and recognising patterns with the end goal of basic leadership is central to human instinct. This book manages the logical train that empowers comparable observation in machines through pattern recognition, which has application in differing innovation regions-character recognition, picture handling, modern computerization, web looks, discourse recognition, therapeutic diagnostics, target recognition, space science, remote detecting, information mining, biometric recognizable proof-to give some examples. This book is a composition of central subjects in pattern

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recognition utilizing an algorithmic approach. It gives a careful prologue to the ideas of pattern recognition and an efficient record of the real points in pattern recognition other than assessing the huge advance made in the field as of late. It incorporates fundamental strategies of pattern recognition, neural systems, bolster vector machines and choice trees. While hypothetical angles have been given due scope, the accentuation is more on the pragmatic. Pattern recognition has application in practically every field of human undertaking including topography, geology, space science and brain research. All the more particularly, it is helpful in bioinformatics, mental investigation, biometrics and a large group of different applications.

Whether you're building GUI prototypes or full-fledged cross-platform GUI applications with native look-and-feel, PyQt 4 is your fastest, easiest, most powerful solution. Qt expert Mark Summerfield has written the definitive best-practice guide to PyQt 4 development. With *Rapid GUI Programming with Python and Qt* you'll learn how to build efficient GUI applications that run on all major operating systems, including Windows, Mac OS X, Linux, and many versions of Unix, using the same source code for all of them. Summerfield systematically introduces every core GUI development technique: from

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dialogs and windows to data handling; from events to printing; and more. Through the book's realistic examples you'll discover a completely new PyQt 4-based programming approach, as well as coverage of many new topics, from PyQt 4's rich text engine to advanced model/view and graphics/view programming. Every key concept is illuminated with realistic, downloadable examples—all tested on Windows, Mac OS X, and Linux with Python 2.5, Qt 4.2, and PyQt 4.2, and on Windows and Linux with Qt 4.3 and PyQt 4.3.

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