



Sketching Practice Problems For Autocad 2013

Elliot Gindis



Sketching Practice Problems For Autocad 2013:

Principles and Practice, An Integrated Approach to Engineering Graphics and AutoCAD 2013 Randy Shih, 2012-03-29 Principles and Practices An Integrated Approach to Engineering Graphics and AutoCAD 2013 combines an introduction to AutoCAD 2013 with a comprehensive coverage of engineering graphics principles By adopting this textbook you will no longer need to adopt separate CAD and engineering graphics books for your course Not only will this unified approach give your course a smoother flow your students will also save money on their textbooks What s more the tutorial exercises in this text have been expanded to cover the performance tasks found on the AutoCAD 2013 Certified Associate Examination The primary goal of Principles and Practices An Integrated Approach to Engineering Graphics and AutoCAD 2013 is to introduce the aspects of engineering graphics with the use of modern Computer Aided Design Drafting software AutoCAD 2013 This text is intended to be used as a training guide for students and professionals The chapters in the text proceed in a pedagogical fashion to guide you from constructing basic shapes to making complete sets of engineering drawings This text takes a hands on exercise intensive approach to all the important concepts of Engineering Graphics as well as in depth discussions of CAD techniques This textbook contains a series of twelve chapters with detailed step by step tutorial style lessons designed to introduce beginning CAD users to the graphic language used in all branches of technical industry The CAD techniques and concepts discussed in the text are also designed to serve as the foundation to the more advanced parametric feature based CAD packages such as Autodesk Inventor After completing this text your students will be prepared to pass the AutoCAD Certified Associate Examination Certified Associate Reference Guides located at the front of the book and in each chapter show where these performance tasks are covered **Engineering Graphics Essentials with AutoCAD 2013 Instruction** Kirstie Plantenberg, 2012-07-02 Engineering Graphics Essentials with AutoCAD 2013 Instruction gives students a basic understanding of how to create and read engineering drawings by presenting principles in a logical and easy to understand manner It covers the main topics of engineering graphics including tolerancing and fasteners while also teaching them the fundamentals of AutoCAD 2013 This book features an independent learning CD containing supplemental content to further reinforce these principles Through its many different exercises this text is designed to encourage students to interact with the instructor during lectures and it will give students a superior understanding of engineering graphics and AutoCAD The enclosed independent learning CD allows the learner to go through the topics of the book independently The main content of the CD contains pages that summarize the topics covered in the book Each page has voice over content that simulates a lecture environment There are also interactive examples that allow the learner to go through the instructor led and in class student exercises found in the book on their own Video examples are also included to supplement the learning process **AutoCAD 2013 and AutoCAD LT 2013 Bible** Ellen Finkelstein, 2012-06-14 The bestselling guide to AutoCAD fully updated for the 2013 version AutoCAD the number one architectural drawing software

can be challenging to learn This comprehensive guide has sold more than 160 000 copies in previous editions and is the go to resource for architects engineers drafters interior designers and space planners who need to learn and use AutoCAD and AutoCAD LT From the basics of creating drawings and using commands to 2D and 3D drawing techniques using layers rendering and customizing the program this book covers it all A Quick Start guide allows even newcomers to create an actual drawing on their very first day Expert AutoCAD author Ellen Finkelstein presents more than 150 tutorials illustrated with real world drawings from AutoCAD pros The companion website includes before and after drawings bonus chapters video tutorials and more The comprehensive soup to nuts reference that even some Autodesk employees keep on their desks Covers AutoCAD and AutoCAD LT in complete detail from using the interface and commands to customizing and programming AutoCAD with AutoLISP and VBA Begins with a Quick Start guide to help novices create a real drawing on their first day with the program Covers creating drawings using commands and specifying coordinates working with complex 2D and 3D drawing techniques using layers and creating dimensions 3D coordinates solids and rendering Discusses customizing commands and toolbars and programming AutoCAD with AutoLISP and VBA Includes a companion website with bonus content video tutorials and before and after drawings AutoCAD 2013 and AutoCAD LT 2013 Bible is the comprehensive one stop AutoCAD resource for newcomers and veterans alike

Residential Design Using AutoCAD 2013 Daniel John Stine,2012-04-27 Residential Design Using AutoCAD 2013 is an introductory level tutorial which uses residential design exercises as the means to teach you AutoCAD 2013 Each book comes with a DVD containing numerous video presentations in which the author shows and explains the many tools and techniques used in AutoCAD 2013 After completing this book you will have a well rounded knowledge of Computer Aided Drafting that can be used in the industry and the satisfaction of having completed a set of residential drawings This textbook starts with an optional section that covers basic hand sketching techniques and concepts intended to increase your ability to sketch design ideas by hand and to think three dimensionally The book then proceeds with a basic introduction to AutoCAD 2013 The first three chapters are intended to get you familiar with the user interface and many of the common menus and tools Throughout the rest of the book you will design a residence through to its completion Using step by step tutorial lessons the residential project is followed through to create elevations sections details etc Throughout the project new AutoCAD commands are covered at the appropriate time Focus is placed on the most essential parts of a command rather than an exhaustive review of every sub feature of a particular command The Appendix contains a bonus section covering the fundamental principles of engineering graphics that relate to architecture

Tools for Design Using AutoCAD 2013 and Autodesk Inventor 2013 Randy Shih,2012-06-21 Tools for Design is intended to provide the user with an overview of computer aided design using two popular CAD software packages from Autodesk AutoCAD and Autodesk Inventor This book explores the strengths of each package and show how they can be used in design both separately and in combination with each other What you ll learn How to create and dimension 2D multiview

drawings using AutoCAD How to freehand sketch using axonometric oblique and perspective projection techniques How to create 3D parametric models and 2D multiview drawings using Autodesk Inventor How to reuse design information between AutoCAD and Autodesk Inventor How to combine parts into assemblies including assembly modeling with a LEGO MINDSTORMS Education Base Set with TETRIX kit and a VEX Robot Kit How to perform basic finite element stress analysis using Inventor Stress Analysis Module

Up and Running with AutoCAD 2013 Elliot Gindis, 2012-07-26 Get Up and Running with AutoCAD using Gindis combination of step by step instruction examples and insightful explanations The emphasis from the beginning is on core concepts and practical application of AutoCAD in architecture engineering and design Equally useful in instructor led classroom training self study or as a professional reference the book is written with the user in mind by a long time AutoCAD professional and instructor based on what works in the industry and the classroom

Up and Running with AutoCAD 2013 Elliot J. Gindis, 2012-12-31 Up and Running with AutoCAD 2013 by Elliot Gindis is an easy to learn introduction to AutoCAD featuring step by step instructions that explain both the why and the how for using this industry standard software package The book strips away complexities both real and perceived and reduces AutoCAD to easy to understand basic concepts All concepts are explained first in theory and then shown in practice helping the reader understand what it is they are doing and why before they do it The book is divided into three parts guiding students through the subject matter from the beginning stages of using the software through advanced AutoCAD including 3D features Chapters deal with topics such as layers colors linetypes and properties text Mtext editing and style blocks Wblocks dynamic blocks groups and purge importing and exporting data Boolean operations Dview walk and fly animation and action recording and lighting and rendering Also included is an extensive Appendix for each part detailing additional useful CAD related information not often found in other text books In addition the book contains supporting graphics screen shots a summary with a self test section at the end of each chapter drawing examples and exercises and two running projects that the student works on as he she progresses through the chapters This book will appeal to beginner through advanced users of AutoCAD architectural engineers drafting civil construction engineers and mechanical engineers and students taking drafting engineering drawing courses in engineering and engineering technology programs Strips away complexities both real and perceived and reduces AutoCAD to easy to understand basic concepts Teaches only what is essential to operating AutoCAD first thereby immediately building student confidence All basic commands are documented step by step meaning that what the student needs to type in and how AutoCAD responds is all spelled out in discrete and clear steps with screen shots added as needed Using the author s extensive multi industry knowledge of what is important and widely used in practice versus what is not the material is presented by immediately immersing the student in practical critically essential knowledge with no padding of text or filler material All concepts are explained first in theory and only then is AutoCAD introduced and the actual button pushing discussed This is one of the key concepts in having students understand exactly

what it is they are doing and why before they do it **Mastering AutoCAD 2013 and AutoCAD LT 2013** George Omura, 2012-05-22 The complete tutorial and reference to the world's leading CAD program This thoroughly revised and updated edition teaches AutoCAD using explanations examples instructions and hands on projects for both AutoCAD and AutoCAD LT This detailed resource works as both a tutorial and stand alone reference It introduces the basics of the interface and drafting tools explores skills such as using hatches fields and tables details such advanced skills as attributes dynamic blocks drawing curves and using solid fills explains 3D modeling and imaging and discusses customization and integration Covers all the new AutoCAD capabilities Written by George Omura a popular AutoCAD author Offers an essential resource for those preparing for the AutoCAD certification program Includes a DVD with all the project files necessary for the tutorials a trial version of AutoCAD and additional tools and utilities George Omura's engaging writing style makes this reference the perfect reference and tutorial for both novice and experienced CAD users Note CD ROM DVD and other supplementary materials are not included as part of the e book file but are available for download after purchase

AutoCAD 2013 and AutoCAD LT 2013 Donnie Gladfelter, 2012-06-11 The ideal introductory resource for Autodesk's powerful architectural design software With this hands on guide you'll learn how to plan develop document and present a complete AutoCAD project by working on summer cabin a fun practice project that runs throughout the book You can follow each step sequentially or jump in at any point by downloading the drawing files from the book's companion web site You'll also master all essential AutoCAD features get a thorough grounding in the basics learn the very latest industry standards and techniques and quickly become productive with AutoCAD Features concise explanations focused examples and step by step instructions for learning AutoCAD and AutoCAD LT with a hands on project Fully revised for the latest AutoCAD and AutoCAD LT as well as emerging techniques and standards in the industry Offers the full range of basics such as the AutoCAD interface basic commands and creating drawings and gradually progresses to more advanced topics including grouping elevations hatches and using text in drawings Includes a supporting website that contains downloadable tutorial files so readers can jump in at any point in the book Introduces dimensioning external references layouts and printing and using 3D AutoCAD 2013 and AutoCAD LT 2013 No Experience Required helps you learn to use AutoCAD and AutoCAD LT with ease and confidence

Introduction to Autodesk Inventor 2013 and AutoCAD 2013 Randy Shih, 2012 Most schools using Autodesk software first introduce students to the 2D features of AutoCAD and then go on to its 3D Capabilities Inventor is usually reserved for the second or third course or for a solid modeling course However another possibility is to introduce students first to solid modeling using Autodesk Inventor and then to introduce AutoCAD as a 2D product In this book students learn to create solid models using Autodesk Inventor and then learn how to create working drawings of their 3D models using AutoCAD This approach provides students with a strong understanding of the process used by many professionals in the industry to create models and working drawings This book contains a series of tutorial style lessons

designed to introduce Autodesk Inventor AutoCAD solid modeling and parametric modeling It uses a hands on exercise intensive approach to all the import parametric modeling techniques and concepts The lessons guide the user from constructing basic shapes to building intelligent mechanical designs creating multi view drawings and assembly models An Introduction to Inventor 2013 and AutoCAD 2013 consists of eleven chapters from Parametric Modeling with Inventor 2013 and six chapters from AutoCAD 2013 Tutorial First Level 2D Fundamentals Both of these books are highly regarded and are very popular making this book an exceptional value for anyone interested in learning both software packages **AutoCAD 2013 For Dummies** Bill Fane,David Byrnes,2012-04-11 Bring your design vision to life with this full color guide to AutoCAD 2013 Used by everyone from engineers and architects to interior designers and draftspeople AutoCAD 2013 is the world s leading 2D and 3D technical drawing program But with so many options and features available finding your way around AutoCAD can be a challenge even for experienced CAD professionals AutoCAD 2013 For Dummies is here to help You ll learn to build a solid foundation for all your projects use standard CAD techniques get familiar with new tools and features and start sharing your models and designs in no time with this easy to follow guide Covers the latest AutoCAD features and techniques including creating a basic layout navigating the AutoCAD Ribbon drawing and editing working with dimensions adding text creating 3D models and more Walks readers through setting up a drawing environment applying visual styles managing data across several drawings and showcasing your designs to potential clients and customers Features full color illustrations that mirror what you ll see on your AutoCAD 2013 screens plus a companion website with downloadable drawing files so you can put your CAD skills to the test Whether you re an AutoCAD amateur or a modeling master AutoCAD 2013 For Dummies has something for you [Autodesk AutoCAD 2013 Fundamentals](#) Elise Moss,2012-04-14 Autodesk AutoCAD 2013 Fundamentals is designed to be used during instructor led training in a eight week course It is an introductory level textbook intended for new AutoCAD 2013 users This book covers all the fundamental skills necessary for effectively using AutoCAD and will provide a strong foundation for advancement This textbook applies the use of AutoCAD as it pertains to mechanical drafting Knowing how to draw a line in AutoCAD is not the same as understanding which line type is required when creating technical drawings This text not only provides the necessary information to operate AutoCAD 2013 but also provides the skills to use AutoCAD as a tool to work proficiently as a mechanical drafter or designer [AutoCAD 2023: A Problem-Solving Approach, Basic and Intermediate, 29th Edition](#) Prof. Sham Tickoo,2022-07-20 AutoCAD 2023 A Problem Solving Approach Basic and Intermediate 29th Edition textbook contains a detailed explanation of AutoCAD commands and their applications to solve drafting and design problems In this textbook every AutoCAD command is thoroughly explained with the help of examples and illustrations This makes it easy for the users to understand the functions of the tools and their applications in the drawing After reading this textbook the user will be able to use AutoCAD commands to make a drawing dimension a drawing insert symbols as well as create text blocks and dynamic blocks Salient Features Comprehensive

textbook consisting of 16 chapters that are organized in a pedagogical sequence Detailed explanation of all commands and tools Summarized content on the first page of the topics that are covered in the chapter Hundreds of illustrations for easy understanding of concepts Step by step instructions to guide the users through the learning process More than 30 real world mechanical engineering designs as examples Additional information throughout the book in the form of notes and tips Self Evaluation Tests and Review Questions at the end of each chapter to help the users assess their knowledge Table of Contents Chapter 1 Introduction to AutoCAD Chapter 2 Getting Started with AutoCAD Chapter 3 Getting started with Advanced Sketching Chapter 4 Working with Drawing Aids Chapter 5 Editing Sketched Objects I Chapter 6 Editing Sketched Objects II Chapter 7 Creating Texts and Tables Chapter 8 Basic Dimensioning Geometric Dimensioning and Tolerancing Chapter 9 Editing Dimensions Chapter 10 Dimension Styles Multileader Styles and System Variables Chapter 11 Hatching Drawings Chapter 12 Model Space Viewports Paper Space Viewports and Layouts Chapter 13 Plotting Drawings Chapter 14 Template Drawings Chapter 15 Working with Blocks Chapter 16 Defining Block Attributes Chapter 17 Conventional Dimensioning and Projection Theory using AutoCAD Chapter 18 Concepts of Geometric Dimensioning and Tolerancing Chapter 19 Isometric Drawings Index For free download

AutoCAD 2018: A Problem-Solving Approach, Basic and Intermediate, 24th Edition Prof. Sham Tickoo, 2017-07-30 The AutoCAD 2018 A Problem Solving Approach Basic and Intermediate 24th Edition book contains a detailed explanation of AutoCAD commands and their applications to solve drafting and design problems In this book every AutoCAD command is thoroughly explained with the help of examples and illustrations This makes it easy for the users to understand the functions of the tools and their applications in the drawing After reading this book the user will be able to use AutoCAD commands to make a drawing dimension a drawing apply constraints to sketches insert symbols as well as create text blocks and dynamic blocks The book also covers basic drafting and design concepts that provide you with the essential drafting skills to solve the drawing problems in AutoCAD These include dimensioning principles and assembly drawings While going through this textbook you will discover some new unique applications of AutoCAD that will have a significant effect on your drawings

Salient Features Comprehensive textbook consisting of 24 chapters that are organized in a pedagogical sequence Detailed explanation of all commands and tools Summarized content on the first page of the topics that are covered in the chapter Hundreds of illustrations for easy understanding of concepts Emphasis on Why and How with explanation More than 30 real world mechanical engineering designs as examples Additional information throughout the book in the form of notes and tips Self Evaluation Tests and Review Questions at the end of each chapter to help the users assess their knowledge Technical support by contacting techsupport cadcim com Additional learning resources at <https://allaboutcadcam.blogspot.com> Table of Contents Chapter 1 Introduction to AutoCAD Chapter 2 Getting Started with AutoCAD Chapter 3 Starting with Advanced Sketching Chapter 4 Working with Drawing Aids Chapter 5 Editing Sketched Objects I Chapter 6 Editing Sketched Objects II Chapter 7 Creating Texts and Tables Chapter 8 Basic Dimensioning Geometric

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Interior Design Using Autodesk Revit Architecture 2013 Daniel John Stine, Aaron R. Hansen, 2012 The intent of this book is to provide the interior design student a well rounded knowledge of Autodesk Revit tools and techniques These skills can then be applied to enhance professional development in both academia and industry

Cover **Advanced AutoCAD 2023: A Problem-Solving Approach, 3D and Advanced, 26th Edition** Prof. Sham Tickoo, 2022 The Advanced AutoCAD 2023 A Problem Solving Approach 3D and Advanced book contains detailed explanation of AutoCAD commands and their applications to solve design problems Every AutoCAD command is thoroughly explained with the help of examples and illustrations This makes it easy for the users to understand the functions and applications of the tools and commands After reading this book you will be able to create 3D objects apply materials to objects generate drafting views of a model create surface or mesh objects and render and animate designs and understand 3D Printing Salient Features Comprehensive book consisting of 19 chapters organized in a pedagogical sequence Detailed explanation of all commands and tools The first page of every chapter summarizes the topics that are covered in it Step by step instructions to guide the users through the learning process Additional information throughout the book in the form of notes and tips Self Evaluation Tests and Review Questions at the end of the chapters to help the users assess their knowledge Table of Contents Chapter 1 Adding Constraints to Sketches Chapter 2 Understanding External References Chapter 3 Working with Advanced Drawing Options Chapter 4 Grouping and Advanced Editing of Sketched Objects Chapter 5 Working with Data Exchange Object Linking and Embedding Chapter 6 The User Coordinate System Chapter 7 Getting Started with 3D Chapter 8 Creating Solid Models Chapter 9 Editing 3D Objects I Chapter 10 Editing 3D Objects II Chapter 11 Surface Modeling Chapter 12 Mesh Modeling Chapter 13 Rendering and Animating Designs Chapter 14 Hyperlinks and 3D Printing Chapter 15 Script Files and Slide Shows Chapter 16 Creating Linetypes and Hatch Patterns Chapter 17 Customizing the acad ppg File Chapter 18 Conventional Dimensioning and Projection Theory Using AutoCAD Chapter 19 Isometric Drawings Student Projects For free download Index

Machine Drawing O.P. Jakhar, Amit Mathur, This book is Designed for the students of Engineering and Technology as well as specially for Mechanical Engineering Degree and Diploma students The teaching of this course faces difficulty in explaining the various concept of machine drawing viz orthographical projection sectioning

complicated mechanical assembly drawing etc Sometimes explanation requires some three dimensional and complicated drawing to be drawn on the black board which is quite impossible due to the time constraint of class This book is an outcome of the strong need felt by students offering the course and the teaching need felt by us The teacher can explain the related concepts drawing methods and uses of various parts being drawn etc in each practical class without bothering the black board The subject matter has been compressed from the view point of Mechanical Engineering students The book also contains Basic Drawing Softwares which describes about the basics of Auto CAD CATIA PROE ANSYS etc which is useful for today s need of Engineering Technology

Design Integration Using Autodesk Revit 2013 Daniel John Stine,2012 Design Integration Using Autodesk Revit 2013 is designed to provide the reader with a well rounded knowledge of Autodesk Revit tools and techniques All three flavors of the Revit platform are introduced in this textbook This approach gives the reader a broad overview of the Building Information Modeling BIM process The topics cover the design integration of most of the building disciplines Architectural Interior Design Structural Mechanical Plumbing and Electrical Civil is not covered but adding topography to your model is Each book comes with a DVD containing numerous video presentations of the written material Throughout the book the student develops a two story law office The drawings start with the floor plans and develop all the way to photo realistic renderings similar to the one on the cover of this book Along the way the building s structure ductwork plumbing and electrical power and lighting are modeled By the end the reader will have thorough knowledge of many of the Revit basics needed to be productive in a classroom or office environment Even if you will only be working with one component of Revit in your chosen profession this book will give you important knowledge on how the other disciplines will be doing their work and valuable insight into the overall process As an instructor the author understands that many students in a classroom setting have varying degrees of computer experience To help level the playing field the first chapter is devoted to an introduction to computers Much of the basics are covered from computer hardware and software to file management procedures including step by step instructions on using a flash drive Chapters 2 through 5 cover many of the Revit basics needed to successfully and efficiently work in the software Once the fundamentals are covered the remaining chapters walk the reader through a building project which is started from scratch so nothing is taken for granted by the reader or the author

AutoCAD 2021: A Problem - Solving Approach, Basic and Intermediate, 27th Edition Prof. Sham Tickoo,2020-06-16 AutoCAD 2021 A Problem Solving Approach Basic and Intermediate 27th Edition book contains a detailed explanation of AutoCAD commands and their applications to solve drafting and design problems In this book every AutoCAD command is thoroughly explained with the help of examples and illustrations to make it easy for the users to understand the functions of the tools and their applications in the drawing After reading this book the user will be able to use AutoCAD commands to make a drawing dimension a drawing apply constraints to sketches insert symbols as well as create text blocks and dynamic blocks The Autodesk AutoCAD 2021 book also covers basic drafting and design concepts such as

dimensioning principles and assembly drawings that equip the users with the essential drafting skills to solve the drawing problems in AutoCAD While reading this book you will discover some new tools such as DWG Compare Save to Web Mobile and Shared Views that will enhance the usability of the software Salient Features Comprehensive book with chapters organized in a pedagogical sequence Detailed explanation of all commands and tools Summarized content on the first page of every chapter Hundreds of illustrations and step by step instructions for easy learning Notes and tips as additional information Self Evaluation Tests and Review Questions at the end of each chapter Table of Contents Chapter 1 Introduction to AutoCAD Chapter 2 Getting Started with AutoCAD Chapter 3 Getting started with Advanced Sketching Chapter 4 Working with Drawing Aids Chapter 5 Editing Sketched Objects I Chapter 6 Editing Sketched Objects II Chapter 7 Creating Texts and Tables Chapter 8 Basic Dimensioning Geometric Dimensioning and Tolerancing Chapter 9 Editing Dimensions Chapter 10 Dimension Styles Multileader Styles and System Variables Chapter 11 Adding Constraints to Sketches Chapter 12 Hatching Drawings Chapter 13 Model Space Viewports Paper Space Viewports and Layouts Chapter 14 Plotting Drawings Chapter 15 Template Drawings Chapter 16 Working with Blocks Chapter 17 Defining Block Attributes Chapter 18 Understanding External References Chapter 19 Working with Advanced Drawing Options Chapter 20 Grouping and Advanced Editing of Sketched Objects Chapter 21 Working with Data Exchange Object Linking and Embedding Chapter 22 Conventional Dimensioning and Projection Theory using AutoCAD Chapter 23 Concepts of Geometric Dimensioning and Tolerancing Chapter 24 Isometric Drawings Index For free download Free Teaching and Learning Resources CADCIM Technologies provides the following free teaching and learning resources with this book Technical support by contacting techsupport cadcim com Part files used in examples exercises and illustrations Instructor Guide with solution to all review questions and exercises Additional learning resources at allaboutcadcam blogspot com and youtube com cadcimtech For Faculty only

Introduction to AutoCAD 2013 for Civil Engineering Applications Nighat Yasmin,2012 The main purpose of this book is to provide civil engineering students with a clear presentation of the theory of engineering graphics and the use of AutoCAD 2013 Each chapter starts with the chapter objectives followed by the introduction The contents of each chapter are organized into well defined sections that contain step by step instructions to carry out the AutoCAD commands The drawings shown in this book are created using AutoCAD 2013 and Paint software Several improvements are made to the fourth edition The index is improved The Chapter Suggested In Class Activities provides in class activities or ICA For some of the initial ICAs it explains the drawing with the help of step by step instruction Also new problems are added to the homework s chapter Furthermore the contents and the drawings of every chapter are improved Each chapter starts with the chapter objectives followed by the introduction The bulleted objectives provide a general overview of the material covered The contents of each chapter are organized into well defined sections that contain detailed step by step instruction with graphical illustrations to carry out the AutoCAD commands This book has been categorized and ordered into nine parts Introduction to

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