

## Teaching programming Years 3–10

Use your year band for an overview of the content related to programming. In some cases it includes suggested related content as you can integrate with another learning area.

**Use-Modify-Create** is one approach to support and guide your students. A learner first (uses) an existing program to see what it does, then modifies it and, when able, creates a new project of their own.

**Pair programming** is another useful pedagogy. Two students, a driver and a navigator, work side-by-side. The driver controls the programming activities while the navigator assists with instructions for programming, looks for errors and monitors progress against the algorithm. After some time the roles are reversed.

From Years 3–4 students are expected to use a visual programming language which is often referred to as block-based programming. From Years 7–10 students are expected to use a general purpose programming (GPP) language such as Python, JavaScript or C++.

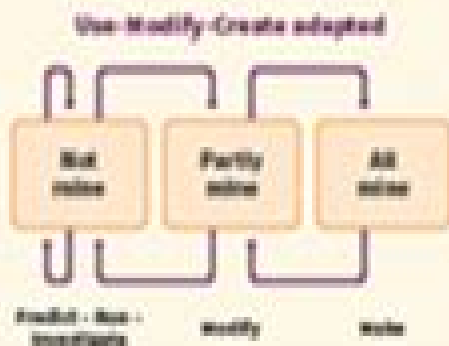
Here are a range of resources and approaches that you might use to implement programming.

Learning resources and approaches	Visual programming	General purpose programming
Coding platforms and environments	Scratch, Snap, Blockly, micro:bit, Pascal code and Tynker	Replit, Glitch, JupyterLab, and CodePen, W3Schools, Swift (Apple's coding environment)
Online courses, tutorials and coding challenges	Code.org, Geek Academy, Scratch community	Geek Academy, W3Schools, Codecademy, IT Hub and Khan Academy
Project based learning	micro:bit, Programmable robots, App Inventor	Arduino, Raspberry pi, micro:bit, Programmable robots and robotic kits

An essential resource



Use-Modify-Create adapted



## Foundation

This concept does not appear in the Australian Curriculum Digital Technologies in Foundation.

There is related content in Mathematics.

Use and interpret everyday language of location and direction, such as behind, over, next to, forward, forward, above, below, on top of, under.

Describe the position of an object compared to another object.

### Related content

Connect language of position and movement to students' lives.



Describe the position (orientation of themselves and objects in relation to other people and objects) within a familiar space (orientation to language).

## Years 1–2

This concept does not appear in the Australian Curriculum Digital Technologies in Years 1–2.

A precursor to using a formal programming language is to use a grid to plan programmable floor robots.

This enables students to use computational thinking, learn basic programming concepts and implement simple algorithms. (See Algorithms)

There is related content in Mathematics.

Provide relevant contexts to use locational and directional language such as opposite, half-turn, left and right, forwards and backwards, clockwise and anti-clockwise, and use steps to describe distance.

### Related content

Using a floor robot to move along a pathway.



Use and follow directions to move people and objects in different locations within a space. (Mathematics in context) (code patterns to help understand representations of a familiar space, track patterns by following directions and pathways. (Mathematics in context)

# Programming In F

**Jianjun Gao**



## **Programming In F:**

**The F Programming Language** Michael Metcalf, John Ker Reid, 1996 The F programming language is a dramatic new development in scientific programming Building on the well established strengths of the Fortran family of languages it is carefully crafted to be both safe and regular whilst retaining the enormously powerful numerical capabilities of its parent language Fortran 90 as well as its data abstraction capability Thus an array language becomes available as part of a medium size widely available language for the first time In this respect the language is clearly superior to older ones such as Pascal C and Basic The book begins with an introductory chapter then describes in turn the features of the language language elements expressions and assignments control constructs program units and procedures array features intrinsic procedures and the input output facilities It is completed by six appendices including the difference between F and Fortran 90 and solutions to most of the exercises In the absence of a formal standard for F this book is the defining document for the language setting out the complete syntax and semantics of the language in a readable but thorough way It is essential reading for users of F

**Expert F# 2.0** Don Syme, Adam Granicz, Antonio Cisternino, 2011-04-22 Expert F 2 0 is about practical programming in a beautiful language that puts the power and elegance of functional programming into the hands of professional developers In combination with NET F achieves unrivaled levels of programmer productivity and program clarity Expert F 2 0 is The authoritative guide to F by the inventor of F A comprehensive reference of F concepts syntax and features A treasury of expert F techniques for practical real world programming F isn't just another functional programming language It's a general purpose language ideal for real world development F seamlessly integrates functional imperative and object oriented programming styles so you can flexibly and elegantly solve any programming problem Whatever your background you'll find that F is easy to learn fun to use and extraordinarily powerful F will change the way you think about and go about programming Written by F's inventor and two major contributors to its development Expert F 2 0 is the authoritative comprehensive and in depth guide to the language and its use Designed to help others become experts the first part of the book quickly yet carefully describes the F language The second part then shows how to use F elegantly for a wide variety of practical programming tasks The world's foremost experts in F show you how to program in F the way they do

**Computational Intelligence for Modelling, Control & Automation** Masoud Mohammadian, 1999 This edited Book is dedicated to the theory and applications of Evolutionary Computation and Fuzzy Logic for Intelligent Control Knowledge Acquisition and Information Retrieval The book consists of 86 selected research papers from the 1999 International Conference on Computational Intelligence for Modelling Control and Automation CIMCA 99 The research papers presented in this book cover new techniques and applications in the following research areas Evolutionary Computation Fuzzy Logic and Expert Systems with their applications for Optimisation Learning Control Scheduling and Multi Criteria Analysis as well as Reliability Assessment Information Retrieval and Knowledge Acquisition *Mathematical uncertainties and their*

*applications* Illia Danilishyn, Oleksandr Danilishyn, 2025-05-30 The monograph first task to understand hierarchy of energies in the Universe and the principles of functioning of living energy living organism in particular human subtle energies and then using these principles to construct artificial living energies let's call them pseudo living energies It is possible to significantly expand the horizons of science in particular physics by studying the subtle energies in the Universe On the basis of mathematical uncertainties new mathematical structures are formed allowing us to describe processes and objects that are fundamentally not determined by conventional deterministic methods Here is considered new mathematical uncertainties Objective uncertainties in any case can mean manifestations of processes and objects that are fundamentally not determined by conventional deterministic methods Many energies are indeterminate because they are based on uncertainties from the perspective of traditional science large concentrations of specific energy in a chaotic state The foundation of dynamic mathematics lies in working with uncertainties which makes it possible to manipulate these indeterminate energies using direct accumulative direct parallel neural networks The second task of the monograph is to construct a new mathematical apparatus for neural networks of a fundamentally new type direct parallel and direct accumulative action We construct models of singularities for singular work with them through neural networks analogues of the human CNS Ordinary regular work with them in ordinary science is fundamentally unable to realize their capabilities Therefore singular science realized on a neural network an analogue of the human CNS will be much more natural Unfortunately we do not have funding to perform the necessary experiments and the practical creation of a technical model of such a neural network There is a need to develop an instrumental mathematical base for new technologies The task of the work is to create new approaches for this by introducing new concepts and methods Our mathematics is unusual for a mathematician because here the fulcrum is the action and not the result of the action as in classical mathematics Therefore our mathematics is adapted not only to obtain results but also to directly control actions which will certainly show its benefits on a fundamentally new type of neural networks with directly parallel calculations for which it was created Any action has much greater potential than its result It is time for physicists to begin studying not only the manifestations of living energies but also the living energies themselves which are by no means expressed through objectivity and ordinary energies although they are capable of manifesting themselves through a lower level objectivity and ordinary energies We as mathematicians offer a new corresponding apparatus for understanding nature and studying living energies Significance of the article in a new qualitatively different approach to the study of complex processes through new mathematical hierarchical dynamic structures in particular those processes that are dealt with by Synergetics The significance of our article is in the formation of the presumptive mathematical structure of subtle energies this is being done for the first time in science and the presumptive classification of the mathematical structures of subtle energies for the first time The experiments of the 2022 Nobel laureates Asle Ahlen John Clauser Anton Zeilinger and the experiments in chemistry Nazhipa Valitov eloquently demonstrate that we are right and

that these studies are necessary. Be that as it may, we created classes of new mathematical structures, new mathematical singularities, i.e. made a contribution to the development of mathematics.

**Real-World Functional Programming with Examples in F# and C#** Tomas Petricek, Jon Skeet, 2009. Functional programming languages like F#, Erlang and Scala are attracting attention as an efficient way to handle the new requirements for programming multi-processor and high availability applications. Microsoft's new F# is a true functional language and C# uses functional language features for LINQ and other recent advances. Real World Functional Programming is a unique tutorial that explores the functional programming model through the F# and C# languages. The clearly presented ideas and examples teach readers how functional programming differs from other approaches. It explains how ideas look in F#, a functional language, as well as how they can be successfully used to solve programming problems in C#. Readers build on what they know about .NET and learn where a functional approach makes the most sense and how to apply it effectively in those cases. The reader should have a good working knowledge of C#. No prior exposure to F# or functional programming is required.

*System Software Reliability* Hoang Pham, 2006-10-25. Computer software reliability has never been so important. Computers are used in areas as diverse as air traffic control, nuclear reactors, real-time military industrial process control, security system control, biometric scan systems, automotive mechanical and safety control, and hospital patient monitoring systems. Many of these applications require critical functionality as software applications increase in size and complexity. This book is an introduction to software reliability engineering and a survey of the state-of-the-art techniques, methodologies, and tools used to assess the reliability of software and combined software-hardware systems. Current research results are reported and future directions are signposted. This text will interest graduate students as a course textbook, introducing reliability engineering; software reliability engineers as a broad up-to-date survey of the field; and researchers and lecturers in universities and research institutions as a one-volume reference.

*Computer Systems for Process Control* Reinhold Güth, 2012-12-06. The Brown Boveri Symposia are by now part of a firmly established tradition. This is the ninth event in a series which was initiated shortly after Corporate Research was created as a separate entity within our Company; the Symposia are held every other year. The themes to date have been: 1969 Flow Research on Blading; 1971 Real Time Control of Electric Power Systems; 1973 High Temperature Materials in Gas Turbines; 1975 Nonemissive Electrooptic Displays; 1977 Current Interruption in High Voltage Networks; 1979 Surges in High Voltage Networks; 1981 Semiconductor Devices for Power Conditioning; 1983 Corrosion in Power Generating Equipment; 1985 Computer Systems for Process Control. Why have we chosen these topics? At the outset we established certain selection criteria: we felt that a subject for a symposium should fulfill the following three requirements: It should characterize a part of a thoroughly scientific discipline; in other words, it should describe an area of scholarly study and research; It should be of current interest in the sense that important results have recently been obtained and considerable research effort is presently underway in the international scientific community; It should bear some relation to the scientific and technological activity of

our Company Let us look at the requirement current interest Some of the topics on the list above have been the subject of research for several decades some even from the v vi FOREWORD ginning of the century

**Data Engineering for Machine Learning Pipelines** Pavan Kumar Narayanan,2024-09-27 This book covers modern data engineering functions and important Python libraries to help you develop state of the art ML pipelines and integration code The book begins by explaining data analytics and transformation delving into the Pandas library its capabilities and nuances It then explores emerging libraries such as Polars and CuDF providing insights into GPU based computing and cutting edge data manipulation techniques The text discusses the importance of data validation in engineering processes introducing tools such as Great Expectations and Pandera to ensure data quality and reliability The book delves into API design and development with a specific focus on leveraging the power of FastAPI It covers authentication authorization and real world applications enabling you to construct efficient and secure APIs using FastAPI Also explored is concurrency in data engineering examining Dask s capabilities from basic setup to crafting advanced machine learning pipelines The book includes development and delivery of data engineering pipelines using leading cloud platforms such as AWS Google Cloud and Microsoft Azure The concluding chapters concentrate on real time and streaming data engineering pipelines emphasizing Apache Kafka and workflow orchestration in data engineering Workflow tools such as Airflow and Prefect are introduced to seamlessly manage and automate complex data workflows What sets this book apart is its blend of theoretical knowledge and practical application a structured path from basic to advanced concepts and insights into using state of the art tools With this book you gain access to cutting edge techniques and insights that are reshaping the industry This book is not just an educational tool It is a career catalyst and an investment in your future as a data engineering expert poised to meet the challenges of today s data driven world

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**Who This Book Is For** Data analysts data engineers data scientists machine learning engineers and MLOps specialists

**Microeconomics** R. Shone,2014-05-10 Microeconomics A Modern Treatment focuses on modern approaches to microeconomics Alternative systems are discussed including input output analysis as against neoclassical production theory The theory of choice and the preference and utility approaches to consumer theory are also considered along with linear and nonlinear theories of production the theory of market demand and supply and welfare economics Comprised of 11 chapters this book begins with an introduction to economic science and its propositions as well as the importance of establishing a clearly defined set of postulates on which the whole edifice of economic knowledge rests The discussion then turns to the theory of choice and the preference and

utility approaches to consumer theory neoclassical as opposed to modern consumer choice production theory and the production set of the economy and the theory of market demand and supply Subsequent chapters deal with the theory of exchange and general equilibrium welfare economics and stability and introductory dynamics This monograph will be of value to economists and those interested in microeconomics *Encyclopedia of Optimization* Christodoulos A.

Floudas,Panos M. Pardalos,2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling **Combinatorial Pattern Matching** Alberto Apostolico,Masayuki

Takeda,2003-08-02 The papers contained in this volume were presented at the 13th Annual Symposium on Combinatorial Pattern Matching held July 3 5 2002 at the Hotel Uminonakamichi in Fukuoka Japan They were selected from 37 abstracts submitted in response to the call for papers In addition there were invited lectures by Shinichi Morishita University of Tokyo and Hiroki Arimura Kyushu University Combinatorial Pattern Matching CPM addresses issues of searching and matching strings and more complicated patterns such as trees regular expressions graphs point sets and arrays in various formats The goal is to derive non trivial combinatorial properties of such structures and to exploit these properties in order to achieve superior performance for the corresponding computational problems On the other hand an important goal is to analyze and pinpoint the properties and conditions under which searches cannot be performed efficiently Over the past decade a steady flow of high quality research on this subject has changed a sparse set of isolated results into a full edged area of algorithmics This area is continuing to grow even further due to the increasing demand for speed and efficiency that stems from important applications such as the World Wide Web computational biology computer vision and multimedia systems These involve requirements for information retrieval in heterogeneous databases data compression and pattern recognition The objective of the annual CPM gathering is to provide an international forum for research in combinatorial pattern matching and related applications *Get Programming With F#* Isaac Abraham,2017-07-14 SynCFusion and functional programming enthusiast Robert Pickering bring you F# your quick start guide to the F# programming language Starting with the classic Hello World program and the basics of identifiers recursion and operators and working through to graphics simulations and interactive forms this book is the ideal first step to becoming a fluent F# programmer F#'s integration with Visual Studio featuring IntelliSense expression completion and an interactive version of the language for dynamic code evaluation makes it the go to functional language of the .NET platform This updated and expanded second edition of Book provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject's core elements A flowing writing style combines with the

use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for all those interested in the subject We hope you find this book useful in shaping your future career Business *Television* ,1959 Catalogs of Courses University of California, Berkeley,1992 Includes general and summer catalogs issued between 1878 1879 and 1995 1997 **The Book of F#** Dave Fancher,2014-03-01 F brings the power of functional first programming to the NET Framework a platform for developing software in the Microsoft Windows ecosystem If you re a traditional NET developer used to C and Visual Basic discovering F will be a revelation that will change how you code and how you think about coding In The Book of F Microsoft MVP Dave Fancher shares his expertise and teaches you how to wield the power of F to write succinct reliable and predictable code As you learn to take advantage of features like default immutability pipelining type inference and pattern matching you ll be amazed at how efficient and elegant your code can be You ll also learn how to Exploit F s functional nature using currying partial application and delegation Streamline type creation and safety with record types and discriminated unions Use collection types and modules to handle data sets more effectively Use pattern matching to decompose complex types and branch your code within a single expression Make your software more responsive with parallel programming and asynchronous workflows Harness object orientation to develop rich frameworks and interact with code written in other NET languages Use query expressions and type providers to access and manipulate data sets from disparate sources Break free of that old school of programming The Book of F will show you how to unleash the expressiveness of F to create smarter leaner code *The Massachusetts register* ,1989 *Management Science* ,1983 Includes special issues The Professional series in the management sciences **United States Code Annotated** United States,1927 **California. Court of Appeal (1st Appellate District). Records and Briefs** California (State)., **"Code of Massachusetts regulations, 1987"** ,1987 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020

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