Arduino Programming Cheat Sheet

Structure & Flow

Basic Program Structure
```
void setup() {
  // Runs once when sketch starts
}
void loop() {
  // Runs repeatedly
}
```

Control Structures
```
if (x < 5) { ... } else { ... }
while (x < 5) { ... }
for (int i = 0; i < 10; i++) { ... }
break;      // Exit a loop immediately
continue;   // Go to next iteration
switch (var) {
  case 1:
    ...
    break;
  case 2:
    ...
    break;
  default:
    ...
}
return x;   // x must match return type
return;     // For void return type
```

Function Definitions
```
int double(int x) { return x*2; }
```

Operators

General Operators
```
=   assignment
+   add           -   subtract
*   multiply      /   divide
%   modulo
==  equal to      !=  not equal to
<   less than     >   greater than
<=  less than or equal to
>=  greater than or equal to
&&  and           ||  or
!   not
```

Compound Operators
```
++  increment
--  decrement
+=  compound addition
-=  compound subtraction
*=  compound multiplication
/=  compound division
&=  compound bitwise and
|=  compound bitwise or
```

Bitwise Operators
```
&   bitwise and   |   bitwise or
^   bitwise xor   ~   bitwise not
<<  shift left    >>  shift right
```

Pointer Access
```
&   reference: get a pointer
*   dereference: follow a pointer
```

Built-in Functions

Pin Input/Output
```
Digital I/O - pins 0-13 A0-A5
  pinMode(pin,
    [INPUT, OUTPUT, INPUT_PULLUP])
  int digitalRead(pin)
  digitalWrite(pin, [HIGH, LOW])

Analog In - pins A0-A5
  int analogRead(pin)
  analogReference(
    [DEFAULT, INTERNAL, EXTERNAL])

PWM Out - pins 3 5 6 9 10 11
  analogWrite(pin, value)
```

Advanced I/O
```
tone(pin, freq_Hz)
tone(pin, freq_Hz, duration_ms)
noTone(pin)
shiftOut(dataPin, clockPin,
  [MSBFIRST, LSBFIRST], value)
unsigned long pulseIn(pin,
  [HIGH, LOW])
```

Time
```
unsigned long millis()
  // Overflows at 50 days
unsigned long micros()
  // Overflows at 70 minutes
delay(msec)
delayMicroseconds(usec)
```

Math
```
min(x, y)    max(x, y)    abs(x)
sin(rad)     cos(rad)     tan(rad)
sqrt(x)      pow(base, exponent)
constrain(x, minval, maxval)
map(val, fromL, fromH, toL, toH)
```

Random Numbers
```
randomSeed(seed) // long or int
long random(max) // 0 to max-1
long random(min, max)
```

Bits and Bytes
```
lowByte(x)       highByte(x)
bitRead(x, bitn)
bitWrite(x, bitn, bit)
bitSet(x, bitn)
bitClear(x, bitn)
bit(bitn)   // bitn: 0=LSB 7=MSB
```

Type Conversions
```
char(val)    byte(val)
int(val)     word(val)
long(val)    float(val)
```

External Interrupts
```
attachInterrupt(interrupt, func,
  [LOW, CHANGE, RISING, FALLING])
detachInterrupt(interrupt)
interrupts()
noInterrupts()
```

Libraries

```
Serial - comm. with PC or via RX/TX
begin(long speed) // up to 115200
end()
int available() // #bytes available
int read() // -1 if none available
int peek() // Read w/o removing
flush()
print(data)      println(data)
write(byte)      write(char * string)
write(byte * data, size)
serialEvent() // Called if data rdy

SoftwareSerial.h - comm. on any pin
SoftwareSerial(rxPin, txPin)
begin(long speed) // Up to 115200
listen()   // Only 1 can listen
isListening()   // at a time.
read, peek, print, println, write
  // Equivalent to Serial library

EEPROM.h - access non-volatile memory
byte read(addr)
write(addr, byte)
EEPROM[index] // Access as array

Servo.h - control servo motors
attach(pin, [min_uS, max_uS])
write(angle)  // 0 to 180
writeMicroseconds(uS)
  // 1000-2000, 1500 is midpoint
int read()   // 0 to 180
bool attached()
detach()

Wire.h - I2C communication
begin()    // Join a master
begin(addr)  // Join a slave @ addr
requestFrom(address, count)
beginTransmission(addr) // Step 1
send(byte)        // Step 2
send(char * string)
send(byte * data, size)
endTransmission()  // Step 3
int available() // #bytes available
byte receive()  // Get next byte
onReceive(handler)
onRequest(handler)
```

Variables, Arrays, and Data

Data Types
```
boolean        true | false
char           -128 - 127, 'a' '$' etc.
unsigned char  0 - 255
byte           0 - 255
int            -32768 - 32767
unsigned int   0 - 65535
word           0 - 65535
long           -2147483648 - 2147483647
unsigned long  0 - 4294967295
float          -3.4028e+38 - 3.4028e+38
double         currently same as float
void           i.e., no return value
```

Strings
```
char str1[8] =
  {'A','r','d','u','i','n','o','\0'};
  // Includes \0 null termination
char str2[8] =
  {'A','r','d','u','i','n','o'};
  // Compiler adds null termination
char str3[] = "Arduino";
char str4[8] = "Arduino";
```

Numeric Constants
```
123      decimal
0b01111011  binary
0173     octal - base 8
0x7B     hexadecimal - base 16
123U     force unsigned
123L     force long
123UL    force unsigned long
123.0    force floating point
1.23e6   1.23*10^6 = 1230000
```

Qualifiers
```
static    persists between calls
volatile  in RAM (nice for ISR)
const     read-only
PROGMEM   in flash
```

Arrays
```
int myPins[] = {2, 4, 8, 3, 6};
int myInts[6];  // Array of 6 ints
myInts[0] = 42; // Assigning first
                // index of myInts
myInts[6] = 12; // ERROR! Indexes
                // are 0 through 5
```


ARDUINO UNO

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Stuart Nicholas

Arduino Coding Guide:

  Arduino Programming Damon Parker, Are you new to Arduino programming Would you like to expand your knowledge base about Arduino programming Do you desire to enjoy the fantastic features of Arduino technology If you said YES to any or all of the questions above this book is all you need Starting Arduino programming allows you to rapidly and intuitively develop your programming abilities through sketching in code This book provides you with an understanding of the standard structure for developing Arduino code including the functions syntax structure and libraries needed to produce future tasks It is specifically written to help you get the understanding required to master the fundamental aspects of writing code on the Arduino platform and will have you all set to take the next step to explore new project ideas new kinds of hardware and contribute back to the open source community and even take on more programming projects With this book you can go from an Arduino beginner to an Arduino pro in a much shorter time This is a resource book to get started with if you want to find out about the world of Arduino and how it changes the world we live in This book will help you comprehend the basic principles of Arduino its advantages benefits and applications in numerous markets and platforms Completely simplified for easy understanding this bestselling guide explains how to compose well crafted sketches using Arduino s modified C language You will discover how to configure software and hardware develop your own sketches deal with built in and custom made Arduino libraries and check out the Internet of Things all with no prior programming experience required It teaches you everything you require to become proficient in Arduino from scratch Learn the variants in Arduino find out how to select Arduino boards and their technical specs learn how to install Arduino IDE That s what you ll find What Is Arduino Programming Introduction to Arduino Programming Language How to Configure Arduino Why Arduino The Arduino KIT Arduino Board Description Arduino Program Structure Arduino Variables and Constants String Arrays Character Manipulating String Arrays Functions to Manipulate String Arrays Arduino String Object Stating Arrays Pins Configured as INPUT Benefits and Disadvantages of Identical Communication And a lot more You will also find out how to configure your Arduino interface board to pick up the physical world control light movement and sound and create objects with interesting features This ultimate guide gets you up to speed quickly teaching all the concepts and syntax through simple language and clear guidelines developed for outright beginners It contains lots of top quality illustrations and easy to follow examples Are you ready to explore the amazing benefits of this book Grab your copy now   *Arduino Programming* Rama Nolan,2025-02-02 Master Arduino Programming A Hands On Guide to Electronics and Coding Have you ever wanted to control switches LEDs sensors and more with just a few lines of code without the hassle of replacing an entire circuit when something goes wrong Arduino is the ultimate platform for building electronic projects trusted by beginners and experts alike for its simplicity flexibility and affordability With its microcontroller based board you can create modify and experiment with ease Whether you re designing interactive gadgets automating tasks or learning to code hardware Arduino makes it

accessible But here s the challenge many beginners struggle because they lack clear step by step guidance They either try to figure it out alone and get frustrated or follow confusing tutorials that don t explain the fundamentals properly That s where this book comes in Designed for complete beginners this hands on guide breaks down Arduino programming in a simple practical way You ll learn How to set up your Arduino board and understand its components The basics of coding with Arduino and writing your first program How to control LEDs sensors motors and other components effortlessly Troubleshooting techniques so you can fix issues without replacing your board How to bring your own creative electronics projects to life Don t let confusion or lack of experience stop you from mastering Arduino Whether you re a hobbyist student or aspiring engineer this book will equip you with the knowledge and confidence to start coding and building right away Unlock the power of Arduino and turn your ideas into reality get started today **Arduino Programming** Ryan Turner,2020-04-12 Are you looking for a simple programming language that will allow you to develop your computer skills Have you heard about Arduino and think it could be right for you Do you need a straight talking book that will help you get started quickly For anyone who wants to enter the world of computer programming a decent programming language that is easy to understand is usually a good place to start Arduino Programming delivers a step by step lesson on a simple platform that is perfect for anyone who wants to become skilled in this language and put it to good use Inside the pages of Arduino Programming The Ultimate Expert Guide to Learn Arduino Programming Step by Step you will find clear explanations on the subject through chapters that will help you with Understanding the basic principles behind Arduino How you can develop your skills quickly and efficiently Step by step programming advice Using Arduino to enhance your projects Where Arduino fits in to the Internet of Things And a whole lot more Filled with clear and concise explanations that are easy to follow for beginners visualizations to help you gain a quicker understanding of the processes and examples of where Arduino will fit in with your needs Arduino Programming is the ultimate expert guide that will deliver exactly what you want Scroll up and click Add to Cart for your copy now *Arduino Programming* Ryan Turner,2020-04-18 Are you ready to take your programming to the next level If you are unfamiliar with programming and are looking for an open source electronic interface then Arduino could be just the place to start With a range of Arduinos to choose from and an increasing variety of projects online or in person that are built on Arduino technologies the flexibility they offer and the ease of building gadgets with Arduino has attracted many people who are both novices and seasoned professionals Now with this new and informative guide Arduino Programming 3 books in 1 The Ultimate Beginners Intermediate Expert Guide to Learn Arduino Programming Step by Step you can learn all you need to get you started with this impressive resource with chapters that delve into Book 1 The history of Arduino 6 advantages of Arduino Anatomy and other terms of Arduino Understanding the choices that are on offer Setting up Arduino Data types Inputs outputs and sensors Book 2 Getting the most from Arduino Functions calculations and tables Linking the physical to the virtual Coupling and multiplexing How to digitalize sound Advanced techniques Networking Book

3 Understanding the basic principles behind Arduino How you can develop your skills quickly and efficiently Step by step programming advice Using Arduino to enhance your projects Where Arduino fits in to the Internet of Things And much more With its combination of theory and practical advice Arduino Programming 3 books in 1 is the stand out book when it comes to building on your basic understanding of this fantastic programming resource Don t wait any longer and get your copy today Arduino is the answer you ve been looking for and Arduino Programming 3 books in 1 is the book that will provide the platform for your success **Arduino Programming** Daniel Geron Geron,2019-11-13 Are you looking for an easy way to learn programming one that can help you to really work on some strong programs and applications but will be easy enough for a beginner to understand Have you looked at some of the other options out there and feel like they are too in depth or hard to use for some of the basics that you want to know Have you been able to look at some of the circuit boards out there but they are not powerful enough or will not work with the operating system that you like to use There are a lot of people who want to work with coding and programming but they are stopped for one reason or another It is too hard they don t have the experience it doesn t work with the coding they want to do and so on This is where the Arduino technology can come into play and help us to finally learn some of the coding that we want This technology was actually designed for the beginner for those who have no technical experience at all to help them get a good grasp on the basics of coding This guidebook is going to explore more about this Arduino technology and how we are able to use it for our own needs Some of the topics that we are going to explore will include What the Arduino technology is all about and how even beginners are able to learn with it in no time Some of the benefits of working with this technology What types of boards are available for us to purchase and use based on the programming needs that we have How to get started with this language by learning some of the common terms that will help guide us through this process How to hook up the board to your computer so you can get started How to turn this board into a machine that is able to work on various projects Understanding how to work with a sketch and even some examples of how you can create some of your own sketches as well The basics of creating a basic user based function for your coding A look at the different functions that we are able to use in the Arduino language and what they all mean How to work with the Arduino API and some of the functions that help bring more power to this And so much more There are a lot of options out there when you are looking to get started with coding But if you are brand new to the process you may worry that they are going to be too hard and too difficult to focus on and get the results that you would like When you are ready to learn how to work with Arduino a system that was designed with the beginner and non technical person in mind make sure to check out this guidebook to help you get started Would you like to know more Scroll to the top of the page and select the BUY NOW button Arduino Programming Daniel Géron,2021-03-09 Are you looking for an easy way to learn programming one that can help you to really work on some strong programs and applications but will be easy enough for a beginner to understand Have you looked at some of the other options out there and feel like they are too in depth or hard to use for some

of the basics that you want to know Have you been able to look at some of the circuit boards out there but they are not powerful enough or will not work with the operating system that you like to use There are a lot of people who want to work with coding and programming but they are stopped for one reason or another It is too hard they don t have the experience it doesn t work with the coding they want to do and so on This is where the Arduino technology can come into play and help us to finally learn some of the coding that we want This technology was actually designed for the beginner for those who have no technical experience at all to help them get a good grasp on the basics of coding This guidebook is going to explore more about this Arduino technology and how we are able to use it for our own needs Some of the topics that we are going to explore will include What the Arduino technology is all about and how even beginners are able to learn with it in no time Some of the benefits of working with this technology What types of boards are available for us to purchase and use based on the programming needs that we have How to get started with this language by learning some of the common terms that will help guide us through this process How to hook up the board to your computer so you can get started How to turn this board into a machine that is able to work on various projects Understanding how to work with a sketch and even some examples of how you can create some of your own sketches as well The basics of creating a basic user based function for your coding A look at the different functions that we are able to use in the Arduino language and what they all mean How to work with the Arduino API and some of the functions that help bring more power to this And so much more There are a lot of options out there when you are looking to get started with coding But if you are brand new to the process you may worry that they are going to be too hard and too difficult to focus on and get the results that you would like When you are ready to learn how to work with Arduino a system that was designed with the beginner and non technical person in mind make sure to check out this guidebook to help you get started   *Arduino* James Arthur,2019-07-02 ARDUINO The Arduino technology started as an idea in 2003 by Hernando Barrag n to simplify the BASIC stamp microcontroller and reduce costs for students who wanted to purchase such technology Since 2003 the Arduino technology has rapidly expanded from its humble beginnings in Italy and is now available worldwide in a number of different models This book aims to educate beginners on all things Arduino and will take the reader from a complete novice to a competent user Within this book you will discover the different Arduino models you might like to choose from the key terms relating to Arduino the many functions of Arduino how to set up your Arduino how read and write code and finally how to use your Arduino to power some cool projects Here Is What You ll Learn About What Is Arduino The Key Terms To Know The Different Arduino Models How To Set Up The Arduino Coding For Arduino Arduino Projects Much Much More   **Arduino Programming** Steve Tudor,2020-10-20 Are you looking to learn a programming language that allows you to build cool hardware prototypes and gadgets such as robots and sensors and even allow to build your own custom electronic system for your unique needs If you want to master Arduino programming and bring your hardware ideas into real world applications and cloud connected gadgets and prototypes then keep reading

Arduino is the open source electronics prototyping platform that has taken the world of electronics hobbyists and professional engineers by storm and it s easy to see why It s versatile ubiquitous and perfectly beginner friendly Perhaps more importantly it s cheap and easy to acquire In this highly practical guide you re going to take a comprehensive look under the hood of Arduino and learn how to start creating awesome DIY projects on your own From basic Arduino programming syntax to full fledged prototyping you ll discover everything you need to become an expert Arduino user Here s a sample of what you re going to discover in Arduino for Beginners Everything you need to know about what Arduino is as a beginner The intriguing history of Arduino and the potential it holds for the future Pros and cons of Arduino you absolutely need to be aware of Why you should learn Arduino programming today Step by step instructions to set up your first Arduino project All you need to know about the basics of Arduino coding from logic statements and loops to operators How to start coding and write your very first Arduino program Common mistakes beginners make when trying to create an Arduino project and how to troubleshoot them Practical projects and examples to help you practice with Arduino programming and reinforce what you ve learned and much more Whether you just love to tinker with electronics or you re an engineer looking for a detailed guide to help you build useful hardware the pages of this book are packed with tons of useful information and practical exercises that will guide you through your programming journey and will serve as the perfect compendium for and Arduino related project you ll embark on in the future Scroll to the top of the page and click the Buy Now button to get started today *Arduino Programming* Ryan Turner,2020-04-18 Are you ready to take your programming to the next level Are you already using Arduino and like the way it works Do you want to be able to build more powerful projects and applications Arduino is one of those programming languages that offers you much more than you expected at every stage you reach It provides effective tools that really work and can have you doing complex tasks quickly with its hands on approach Now with Arduino Programming The Ultimate Intermediate Guide to Learn Arduino Programming Step by Step you can take the next step on your Arduino journey and increase your knowledge and skills further with chapters on Getting the most from Arduino Functions calculations and tables Linking the physical to the virtual Coupling and multiplexing How to digitalize sound Advanced techniques Networking And more With its combination of theory and practical advice Arduino Programming is the stand out book when it comes to building on your basic understanding of this fantastic programming resource Get a copy today and enhance your knowledge while building ever more complex applications for your computer **Arduino** Miles Price,2018-04-18 Heads up it s the twenty first century It s easier than ever to make your own gadgets The Arduino is a hardware and software package that allows you to create your own gadgets from scratch It s essentially a microcomputer that you can hook all sorts of neat things up to and that you can make full fledged projects out of Programming your Arduino projects isn t terribly difficult but there are a lot of underlying concepts that you need to grasp if you really want to propel yourself forward as a programmer You re going to be working with pretty low level concepts so it s important that you

familiarize yourself with all of these before you jump into Arduino programming Take action today to take advantage of our limited time offer   Programming Arduino Upskill Learning,2016-11-10 Learn Arduino Programming in Less Than 24 Hours This book Programming Arduino Beginners Guide To Get Started With Internet Of Things will teach you to become an Arduino Master through proven step by step programming guide This book teaches you everything you need to become proficient in Arduino from scratch Learn the variants in Arduino learn how to select Arduino boards and their technical specifications learn how to install Arduino IDE and the complete programming manual to learn Arduino Programming and getting started with Your Own Project What You ll Learn From This Book Introduction to Arduino Programming Chapter 1 Arduino Chapter 2 Variants in Arduino Chapter 3 Arduino Boards Technical Specifications Chapter 4 Guide To Board selection Chapter 5 Step by step guide to Installing IDE Chapter 6 Get Started With Arduino Programming Chapter 7 Real time Examples for Arduino programming Chapter 8 Project Chapter 9 Moving Toward A Smarter Internet The Internet Of Things Chapter 10 Sculpting Your Career In IOT Learn how to use the Arduino to build Internet of Things IoT projects Using this book you can go from Arduino Beginner to Arduino Pro in a shorter time If you want to learn about the world of IOT and how it changes the world we live in this is a resource book to get started with This book will help you understand the basic concepts of IOT its benefits advantages and applications in various industries starting from Home Automation to Healthcare Monitoring to Industrial Transformation   Arduino Coding Norman Bowen,2024-04-14 Discover the power of Arduino programming with Arduino Coding by Norman Bowen This comprehensive guide offers clear explanations and practical examples to help you master the art of Arduino development   **Arduino for Beginners** Ethan Thorpe,2019-07-19 Quite a few technology boards are responsible for building digital devices They are actually the bedrock of how these devices function However Arduino boards are making immense waves in the digital production world nowadays as it is now primarily used for creating digital devices as well as other interactive materials with the capacity to control things physically around the human sphere To make things more clear this book will enlighten the readers to know more about what Arduino is all about and encourage the best practices for learning and executing Arduino programming from scratch This book will be a pathway where you ll learn everything you need to know about Arduino programming step by step Some of the few things you will be learning about Arduino in this book include Arduino s software and hardware as well as several others of the applications that you will be able to make use of in and about the Arduino board Different Arduino data types available Strings and Functions Codes for buildup Arrays and sensors Important necessities to remember so you can avoid making mistakes And a whole lot more This expansive book on Arduino programming for beginners is laced with quite a lot of useful information that will guide the readers throughout their Arduino programming journey holding you by hand and explaining in specific detail including visual aids to guide you So what are you waiting for Go get a copy now   **Arduino** Daniel Bell,2019-12-16 Arduino is the largest open source hardware platform in the world Arduino provides unlimited possibilities

that can be achieved using microcontroller based products This short and easy read book is a perfect way to dive into electronics and programming as you get all the basics that are required to start working with Arduino Download your copy NOW Book Objectives This book is about Arduino programming The following are the objectives of the author To help you know the various parts of the Arduino board To help you understand the uses of the various parts of the Arduino board To help you know how to program the Arduino board To help you understand how to create various projects by programming the Arduino board Who this Book is for This book as written with the following groups of people in mind Anyone who needs to understand the basics of the Arduino board Anyone who needs to be equipped with Arduino programming skills Anyone who needs to advance their Arduino programming skills Anyone who needs to learn how to develop hardware projects by programming the Arduino board Requirements You are required to have an Arduino board The author also expects you to have a computer The author will guide you on how to download the Arduino IDE and begin to use it on your computer for writing codes and uploading them to the Arduino board What is inside the book ARDUINO BASICS ARDUINO DATA TYPES VARIABLES AND CONSTANTS ARDUINO OPERATORS CONTROL STATEMENTS ARDUINO LOOPS ARDUINO FUNCTIONS ARDUINO ARRAYS ARDUINO STRINGS TIME IN ARDUINO I O FUNCTIONS IN ARDUINO From the back cover In this excellent guide the author introduces you to the basics of the Arduino board The goal is to help you understand what Arduino is where the board is used and familiarize you with the various parts of the board Then the author discusses the foundations of Arduino programming You will know what you need so as to begin programming the Arduino board The process of downloading and setting up the Arduino IDE has been discussed The various features that you can enjoy when programming Arduino has been discussed in depth including data types variables loops decision making functions operators etc The author has organized the book into chapters with each chapter having many sub chapters Codes have been added accompanied by thorough explanations of the code This book is recommended for absolute beginners *Arduino: 19 Sample Designs, Coding, and Advanced Crash Course Guide in Arduino Programming* Zach Webber,2018-09-08 Arduino is an incredibly powerful programming platform that can allow anyone from basic to advanced developers to create amazing projects using the platform It features ready to use boards straight out of the box and a simple to understand online software that allows the devices to be programmed and controlled to do any variety of things In this book you are going to learn about 19 incredible designs that you can begin using to support you in understanding Arduino and to successfully create some fascinating projects From learning to create a basic blinking LED light to creating a complex fingerprint based security system this book will show you all that you need to know when it comes to using Arduino Each chapter is dedicated to its own unique design which will walk you through how the design process its required components the fundamentals of code and how it works and why various parts are incorporated This way you can learn in action as you create phenomenal pieces and begin to understand how and why they work If you are ready to begin increasing your understanding of electronics and programming

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