

Arduino Programming Cheat Sheet

Primary source: <http://arduino.cc/en/Reference/>

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 myType myFunc(parameters) { ... }  
e.g. 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 modulus and
- = compound assign and
- += compound addition 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 AH-AJ  
pinMode(pin,  
  [INPUT, OUTPUT, INPUT_PULLUP])  
int digitalWrite(pin,  
  digitalWrite(pin, [HIGH, LOW])
```

Analog I/O - pins AH-AJ

```
int analogRead(pin)  
analogReference(  
  [DEFAULT, INTERNAL, EXTERNAL])
```

Pulse-Width Modulation - pins 2-5 & 9-10

```
analogWrite(pin, value)
```

Advanced I/O

```
tone(pin, freq_hz)  
noTone(pin, freq_hz, duration_ms)  
noTone(pin)  
shiftOut(dataPin, clockPin,  
  [SHIFT_LEFT, SHIFT_RIGHT], value)  
unsigned long shiftIn(pin,  
  [clock, data])
```

Time

```
unsigned long millis()  
// Overflows at 50 days  
unsigned long micros()  
// Overflows at 70 minutes  
delay(ms)  
delayMicroseconds(us)
```

Math

```
sin(x, y) sin(x, y) sin(x)  
sin(rad) cos(rad) tan(rad)  
exp(x) pow(base, exponent)  
constrain(x, lowest, highest)  
map(val, fromLow, fromHigh, toLow, toHigh)
```

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, bit)  
bitWrite(x, bit, bit)  
bitSet(x, bit)  
bitClear(x, bit)  
bitWrite(x, bit, bit)  
bitRead(x, bit)
```

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 - com. with PC or via RS485  
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 - com. on any pin  
SoftwareSerial(rxPin, txPin)  
begin(long speed) // up to 115200  
listen() // delay 0 sec listen  
isListening() // at a time  
read, peek, print, println, write  
// Inherited to Serial library
```

```
EEPROM.h - access non-volatile memory  
byte read(addr)  
write(addr, byte)  
EEPROM[addr] // 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(addr, 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)
```

 by Mark Liffiton

Adapted from:
- Original: Gavin Smith
- SVG version: Frederic Dufourg
- Arduino board drawing: Fritzing.org

Variables, Arrays, and Data

Data Types

Data Type	Size
boolean	true false
char	-128 - 127, 'a' 'b' 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	-3.4028235e+38 - 3.4028235e+38
double	currently same as float
void	1.e.g. no return value

Strings

```
char str[8] =  
  {'A', 'r', 'd', 'u', 'i', 'n', 'o', '\0'};  
// Includes null terminator  
char str[8] =  
  {'A', 'r', 'd', 'u', 'i', 'n', 'o', '\0'};  
// Compiler adds null terminator  
char str[] = "Arduino";  
char str[8] = "Arduino";
```

Numeric Constants

Constant	Value
128	decimal
0x01158B1	hexary
0x71	octal - base 8
0x7F	hexadecimal - base 16
128L	force unsigned
128LL	force long
128LL	force unsigned long
128.f	force floating point
1.234e5	1.2375e5 = 123750

Qualifiers

Qualifier	Location
static	globals between calls
volatile	in RAM (value for I/O)
const	read-only
mutable	in flash

Arrays

```
int myData[] = {0, 4, 8, 1, 4};  
int myData[5]; // Array of 5 ints  
myData[0] = 40; // Assigning first  
// Index of myData  
myData[4] = 10; // 00000 Index  
// arr 0 through 4
```



Arduino Programming Guide

Sivakumar Munusami



Arduino Programming 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** 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

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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 Projects* Sivakumar Munusami,2019-10-04 Buy the Paperback Version of this Book and get the Kindle Book version for FREE Are you tired of trying to learn Arduino DIY Programming Can t you find a good way to learn Arduino DIY Projects Would you like to learn Arduino DIY Programming quickly If so continue reading this For everyone who wants to learn Arduino this book is very helpful This book is designed to fulfill your purpose Arduino s latest information is included in this book All of the information in this book is trustworthy If you buy this book you will definitely know about the Arduino DIY Programming It is definitely worth the oney and the time you spend By the time you read the last page of this book you will have become a talented Arduino Programmer Overall this book will be a treasure for you Now with this new and informative guide Arduino projects The Ultimate Beginner s Guide to Learn DIY Arduino Programming you can learn all you need to get you started with this impressive resource with chapters that delve into In our book you will find such important details as What is Arduino Board Five Type of Microcontroller Four Type of Arduino Board Parts of Arduino Uno Board Download the Arduino Software IDE Install Arduino Software IDE Arduino IDE Basic Structure

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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

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