

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, type, name(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 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 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)  
tone(pin, freq_hz, duration_ms)  
noTone(pin)  
shiftOut(dataPin, clockPin,  
  [MSBFIRST, LSBFIRST], value)  
unsigned long shiftIn(pin,  
  [MODE, MODE])
```

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)
```

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', 'B', 'C', 'D', 'E', 'F', 'G', 'H'};  
// Includes null terminator  
char str[8] =  
  {'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H'};  
// 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
1.234	1.2375E+0 - 1234000

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 Indexes  
// are 0 through 4
```



Arduino Coding Guide

Daniel Bell



Arduino Coding Guide:

Arduino Coding Guide Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Arduino Coding Guide**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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