

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; // A final return type
return; // For void return type
```

Function Definitions

```
int myType myFunc(parameters) { ... }
// e.g. int double(int x) {return x*2;}
```

Operators

Basic 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
- == || or
- ! not

Compound Operators

- ++ increment
- decrement
- += compound addition
- = compound subtraction
- *= compound multiplication
- /= compound division
- %= compound modulo and
- *= compound bitwise or

Bitwise Operators

- & bitwise and
- | bitwise or
- ^ bitwise xor
- ~ binary not
- << shift left
- >> shift right

Pointer Access

- * dereference: get a pointer
- & dereference: follow a pointer

Built-in Functions

Pin Input/Output

```
digital I/O - pins 0-13 (D0-D13)
pinMode(pin,
  [INPUT, OUTPUT, INPUT_PULLUP])
int digitalWrite(pin,
  [HIGH, LOW])
digitalWrite(pin, [HIGH, LOW])
```

Analog I/O - pins A0-A5

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

Pulse-Width Modulation (PWM) - pins 3, 5, 6, 9, 10, 11

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

Advanced I/O

```
tone(pin, freq_hz)
noTone(pin, freq_hz, duration_ms)
pulseIn(pin)
micros()
millis()
unsigned long microseconds(
  [pin, usec])
```

Time

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

Math

```
abs(x), y)
min(x, y)
max(x, y)
sin(rad)
cos(rad)
tan(rad)
exp(x)
pow(base, exponent)
constrain(x, lower, upper)
map(val, from_low, from_high, to_low, to_high)
```

Random Numbers

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

Bits and Bytes

```
lowByte(x)
highByte(x)
bitRead(x, bit)
bitWrite(x, bit, bit)
bitClear(x, bit)
bitSet(x, bit)
bitClear(x, bit)
bitRead(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 USB
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 rxd
```

```
SoftwareSerial - com. 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
// Incompatible to Serial library
```

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

```
Servo - 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 - I2C communication
begin() // Init a master
begin(addr) // Init 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

```
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 (e.g., no return value)
```

Strings

```
char str[8] =
  {'A', 'B', 'C', 'D', 'E', 'F', 'G', '\0'};
// Includes null terminator
char str2[8] =
  {'A', 'B', 'C', 'D', 'E', 'F', 'G'};
// Compiler adds null terminator
char str3[] = "Arduino";
char str4[] = "Arduino";
```

Numeric Constants

```
123 decimal
0x0112345 hex
0x7F octal - base 8
0x7F hexadecimal - base 16
123L force unsigned
123LL force long
123LL force unsigned long
123.4 force floating point
1.234E6 1.23750E6 = 1230000
```

Qualifiers

```
static persists between calls
volatile in RAM (also for I/O)
const read-only
mutable in flash
```

Arrays

```
int myints[] = {0, 4, 8, 1, 6};
int myints[5]; // array of 5 ints
myints[0] = 40; // Assigning first
// Index of myints
myints[4] = 10; // 00000 Indexes
// are 0 through 4
```



Arduino Coding Guide

Rachel S Tattersall



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