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## Language Reference

Arduino programming language can be divided in three main parts: funvalues (variables and constants), and structure.

## **Functions**

For controlling the Arduino board and performing computations.

Digital I/O	Advanced I/O	Math
digitalRead()	noTone()	abs()
digitalWrite()	pulseln()	constrain()
pinMode()	pulseInLong()	map()
	shiftIn()	max()
A	shiftOut()	min()
Analog I/O	tone()	pow()
analogRead()		sq()
analogReference()		sqrt()
analogWrite()	Time	
	delay()	
Zana Dana O MAKD Familia	delayMicroseconds()	Trigonometry
Zero, Due & MKR Family	micros()	cos()
analogReadResolution()	millis()	sin()
analogWriteResolution()		tan()

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HA) (DWARE	SOFTWARE	CLOUD	DOCUMENTATION	COMMUNITY	BLOG	ABOUT Jinterrupts()
		isAscii isCont isDigit	rol()	Bits and Bytes	C	ommunicatioı
		isGrap isHexa isLowe isPrint isPund isSpac isUppe	eh() adecimalDigit() erCase() able() et()	bit() bitClear() bitRead() bitSet() bitWrite() highByte() lowByte()	SI St W	erial Pl cream Vire SB eyboard
				External Interrupts attachInterrupt() detachInterrupt()		

## **Variables**

Arduino data types and constants.

Constants	Conversion
HIGH   LOW	(unsigned int)
INPUT   OUTPUT   INPUT_F	(ned long)(العاملية)
LED_BUILTIN	byte()
true   false	char()
Floating Point Constants	float()
Integer Constants	int()
	long()
	word()



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		DUUI		scope		
		boolea	n	static		
		byte		volatile		
		char				
		double		114:11:41		
		float		Utilities		
		int		PROGMEM		
		long		sizeof()		
		short				
		size_t				
		string				
		String(	)			
		unsign	ed char			
		unsign	ed int			
		unsign	ed long			
		void				
		word				

## Structure

The elements of Arduino (C++) code.

Sketch	<b>Control Structure</b>	<b>Further Syntax</b>
loop()	break	#define (define)
setup()	continue	#include (include
	dowhile	/* */ (block comr
	else	// (single line cor
	for	; (semicolon)
	goto	{} (curly braces)
	if	
	return	
	switchcase	
	while	Help

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