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Al syntax

# Arduino Language Syntax

## 1 Introduction

This is a syntax guide to the Arduino Language (AL). There are several aspects to the Arduino Language that are different than the conventional programming language: the core being the language is centered on reading like English and is loosely-typed. AL is an imperative and procedural programming language. The intention of this language is to educate people who desire to learn programming. The ease and flexibility of the language allows for a dynamic experience along with a sense of learning.

# 2 Reserved Word List

1. and: the conjunction of two statements in a Boolean expression. Ex: if x == 3 and y == 4
2. array: a collection of objects in AL. Ex: let y = array[5] (y is a collection of 5 objects whose type will be determined at run time by the first object to be inserted)
3. as: operator that allows you to perform certain types of conversions between compatible reference types. Ex:
4. begin:  the keyword associated with beginning a block of code
5. break:  used to resume program execution at the statement immediately following the current enclosing block or statement
6. case: the case keyword is used to create individual cases in a switch statement
7. catch: defines an exception handler
8. constantly: for defining a variable to be constant and maintain the same value
9. continue:  used to resume program execution at the end of the current loop body
10. do:  used in conjunction with a while to create a do-while loop, which executes a block of statements associated with the loop and the then tests a Boolean expression associated with the while
11. else:  used in conjunction with if to create an if-else statement which tests a Boolean expression
12. end:  the key word associated to ending a block of code
13. exit: the keyword used to completely exit the program
14. false: the keyword used to say if something is not true
15. file: the keyword used to access a file that is found on the hard drive
16. finally: used to define a block of statements for a block defined previously by the try keyword
17. for: the for keyword is used to create a for loop
18. function: defines a method in the before the main execution block
19. if: the if keyword is used to create an if statement, which tests a Boolean expression
20. in: the keyword used to compare an object and to see if it is ‘in’ a collection

1. is:
2. loops:

1. null
2. not
3. of
4. or
5. otherwise
6. program
7. repeat
8. set
9. switch
10. then
11. to
12. true
13. try
14. unimplemented
15. until
16. uses
17. while
18. with