

TheOnlyLonely Quick Reference Manual

Main structure of a TheOnlyLonely program

The general structure of a program in TheOnlyLonely is:

```
Program programName;
```

```
vars
```

```
    foo, bar: dataType;
```

```
    baz: dataType;
```

```
returnType func functionName(qux: dataType, quux dataType);
```

```
vars
```

```
    corge: dataType;
```

```
    {
```

```
        statements
```

```
    }
```

```
main()
```

```
{
```

```
    statements
```

```
}
```

Supported data types

TheOnlyLonely supports the following data types:

- int: For integer values
- float: For floating point numbers
- char: for single characters
- void: exclusively for functions which don't return anything

Supported statements

TheOnlyLonely supports the following statements:

Statement	Description
return(expression);	To be used inside modules with a return type other than void
print(toPrint);	Prints either expressions or strings
if(condition) then { statements } else { statements };	If the condition is true, performs the statement(s) within the then-block,

	otherwise performs the statement(s) within the else-block, if any
from iterator = startingPoint to ceiling do { statements };	Starts by assigning a starting point to an iterator and will perform the statements as long as the iterator is smaller or equal to the ceiling provided, every time the block of statements is completed, the iterator is increased by 1
while(condition) do { statements };	While the condition is true, the statement(s) will be executed, otherwise they will be skipped
functionName(arguments);	Functions with return values can be called
line(length);	Draws a line of the given length in the direction the turtle is looking at
dot(diameter);	Draws a dot of the given diameter wherever the turtle is at
circle(radius);	Draws a circle of the given radius around the turtle
arc(radius);	Draws an arc of 180° of the given radius in front of the turtle
penup();	Raises the pen so that it doesn't draw anything as it moves
pendown();	Lowers the pen to resume drawing as it moves
size(size);	Sets the size of the pen to the given value
color("red" "blue" "green");	Changes both the fill and line color to that of the presented string, can only be either red, blue or green
reset();	Resets the screen to its default configuration, removing all drawings and setting the turtle back to the center
left(angle);	Rotates the turtle by the given angle to the left
right(angle);	Rotates the turtle by the given angle to the right

How to run a source code file

All you need to do is follow these steps:

1. Download the zip file with the executable file in it
2. Make sure to have your desired source code file on the very same directory as the "parser.exe" file.
3. Run the "parser.exe" file and when prompted to type in the name of the file to execute, do so, and always remember to include the file extension!
4. Enjoy!