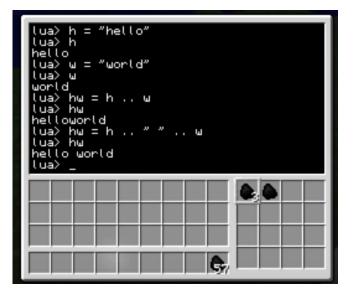
Programming Tutorial with Minecraft Turtles -- Ep. 2: Variables and Boolean

Logic



https://www.youtube.com/watch?v=bKGw7MfO1gw

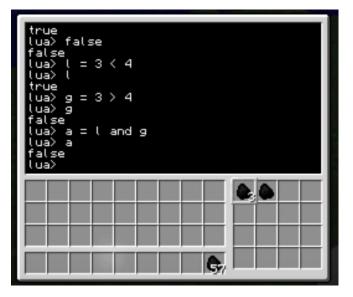
CONCATINATIOR



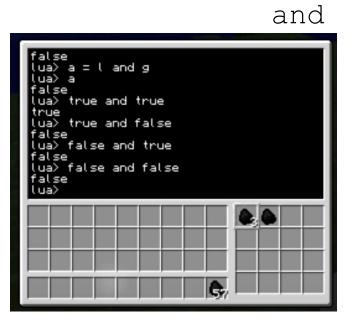
JAVA: +

A concatinator "adds" strings together

BOOLEAN Variables



Variables with True or False vales



JAVA: & &

В	ool1	and	Bool2	Retu	rns
	Т	& &	Т	T	
	Т	& &	F	F	
_	F	& &	Т	F	
-	F	& &	F	F	

false lua> o = l or g lua> o true lua> true or true true lua> true or false true lua> false or true true lua> false or false false lua>

JAVA: ||

Bo	pol1	or	Bool2	Returns
_	Т		Т	Т
	Т		F	T
	F		Т	Т
_	F		F	F

or



Yes lua> not true false lua> not false true lua> a = true lua> a = not a lua> a false lua> a = not a lua> a true lua> a	
	I
	I

JAVA: !

	not	Bool	Returns
		Т	F
•	!	F	Т

Write a program!

edit move3

a = turtle.forward() b = turtle.forward() c = turtle.forward()
if a and b and c then print "Moved successfully" else print "Unable to reach destination" end_
Press Ctrl to access menu Ln 9
Press Ctrl to access menu Ln 9
Press Ctrl to access menu Ln 9

edit movetest

fuelStart = turtle.getFuelLevel() turtle.forward() turtle.forward() fuelEnd = turtle.getFuelLevel()

print("Used " .. fuelEnd-fuelStart .. "

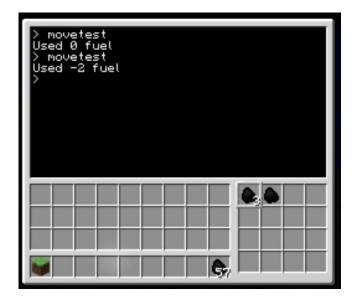
Press Ctrl	to access menu	Ln 6
		Contract of the second s

	\$ 7	

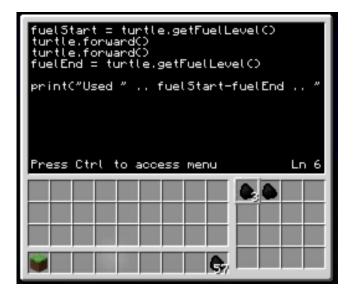
t = turtle.getFuelLevel() orward() orward() = turtle.getFuelLevel()		
sed " fuelEnd-fuelStart " fuel")		
Press Ctrl to access menu Ln 6		

G, I

What went wrong?



Thats better!



*That's called DEBUGGING code

You Try!

Write a program that will tell your turtle to move forward 5 spaces and move <u>over</u> objects **IF** there is something in their way.

Write a program that will move forward 5 spaces and move backward **IF** something is in its way.