Common YOLOL

From Starbase wiki

A collection of small common scripts meant to be easily copied and understood for the YOLOL beginners.

This page is a "Work In Progress". Don't hesitate to contribute! Just make sure to respect the following rules:

- Avoid complex codes. As said, These must be easily understood by beginners. If you can't simplify your scripts, please add some comments to explain the most technical parts.
- Avoid as possible to modify the <u>device fields</u>. If necessary, it must be specified which field has to be renamed (left column) and/or set to a given value (right column).

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Flight Control Unit

Single Forward/Backward Lever

Requires a center lever bound to "**FcuForward**". *Note: You can easily modify the default regular lever from most prebuilt ships and cockpit modules to be used as a center Lever. Just change the "LeverMinOutput"* value from 0 to -100. Also don't forget to modify your control binds ("V" on keyboard by default).

```
:FcuBackward=-:FcuForward goto1
```

Speed Limiter

Requires to modify the lever bound to "FcuForward" which shall be renamed "Fwd" and another regular lever with "LeverState" renamed "Limiter". This script allow you to set a maximum forward speed to your ship, which is useful when you need more accurate movements (e.g. while mining or docking).

```
:FcuForward=:Fwd/100*:Limiter goto1
```

Note: If you already modified your "FcuFoward" lever to be used as a "Single Forward/Backward Lever" (see above), you can use the "Backward" lever made useless as the "Limiter" lever. Just make sure you have "FcuForward" renamed "FwdBwd" instead so you can modify forward and backward thrust individually. This way your YOLOL scripts should be written as follows:

```
:FcuForward=:FwdBwd/100*:Limiter goto1
:FcuBackward=-:FwdBwd goto1
```

Turtle Mode

Similar to the previous script but with a button instead of a lever. "ButtonState" should be renamed "Turtle" and "ButtonStyle" set to "1". In addition set the "ButtonOffStateValue" to "100" and the "ButtonOnStateValue" to the desired speed reduction. For example having "30" means 30% of maximum speed when the button is active.

```
:FcuForward=:Fwd/100*:Turtle goto1
```

Fuel Chamber

Shin Dart

The following scripts are made to be used with the ship "Laborer Module" rewarded during the tutorials. To make it compatible with other prebuilt or own-made ships, refer to the table below for the corresponding modifications in the device fields. Note: Most scripts make the "Generator" button irrelevant as it replace its use. Some may make another use of it.

Ship Part	Default Fleid Name	Laborer Module Fleid Name
Hybrid Button	ButtonState	Generator
Fuel Chamber	FuelChamberUnitRateLimit	Generator
First Battery	StoredBatteryPower	Battery_1
Second Battery	StoredBatteryPower	Battery_2

Dofault Field Name

Also, ships will require enough batteries to act as buffers during the generator spool up time. *Note: When in use, all batteries discharge at the same rate. The more batteries you have, the slower the discharge is.*

Gradual Generator Script

Makes the fuel rate limit of the fuel chamber inversely proportional to the charge level of the batteries.

```
:Generator=100-:Battery_1/100 goto1
```

Alternatively, the script below will keep the batteries fuller by setting the fuel rate limit to its maximum when batteries are below 90% of charge.

```
:Generator=1000-:Battery_1/10 goto1
```

Additionally, you can use the "Generator" button by renaming it "Eco" so it switch fuel saving on and off with the following script. Useful for more power consuming activities like mining.

```
:Generator=100-:Eco*:Battery_1/100 goto1
```

Flagged Generator Script

This script set the fuel rate limit to 25% (just enough to supply 2 box thrusters with a bit of spare charge) if the level of the batteries is below 9999 and adding 50% if below 5000. 0.001% is enough fuel rate to let the generator "sleep" when the ship stand still and the batteries are full.

```
:Generator=25*(:Battery_1<9999)+50*(:Battery_1<5000)+0.001 goto1
```

Advanced Generator Script

This script is tweakable to your ship configuration. Field names are those of the Laborer Module, except for the **"Generator"** button which should be renamed **"PWR"** so the script can control the fuel rate while the button still being functional. Optionally you can add an override lever with **"LeverState"** renamed **"PWR"** as well.

It is assumed that the following device fields are set as explained (*Note: The "PWR" button is already set up in the Laborer Module*):

Ship Part	Field Name	Set Field value
"PWR" Button	ButtonOnStateValue	100
"PWR" Button	ButtonOffStateValue	0
"PWR" Button	ButtonStyle	1
"PWR" Lever (optional)	0	
"PWR" Lever (optional)) LeverMaxOutput	200

"PWR" Lever (optional) LeverCenteringSpeed 0

Material Point Scanner

Material Point Scanner Script

Requires two displays for "Material" and "Volume", two buttons to toggle the "Active" and "Scan" fields of the scanner, and a third button with "ButtonState" renamed "Next" and "ButtonStyle" set to "1".

```
:Index=(:Index+:Next)*(:Index<:ScanResults) :Next=0
:Material=:Material :Volume=:Volume goto1
```

Automatic Material Point Scanner Script

This is a modified version of the above script so it can be used when the scanner is "**Active**" without the need of any additional buttons. *Note: launching a new scan reinitialize the index to* "o".

```
:Scan=1
//Pause
:Index=Next
Next=(Next+1)*(Next<:ScanResults)
:Material=:Material :Volume=:Volume goto1
```

Mining Laser

Note: Mining Lasers were updated to have an activation cost, which is why pulsing lasers is not economic anymore.

Pulsed Mining Laser

Requires a button with "ButtonState" renamed "Mining" and "ButtonStyle" set to "1". Reduces power consumption by continuously switching mining laser "On" and "Off" while the button is active.

```
:MiningLaserOn=(1-:MiningLaserOn)*:Mining goto1
```

Configurable Pulsed Mining Laser

Similar to the previous script but with configurable timers for the "On" and "Off" phases of the laser. *Note: Each phase is calculated in a number of YOLOL "tick" (0.2sec)*. So in the example, the "On" phase last 2*0.2=0.4sec and the "Off" phase 3*0.2=0.6 sec, which makes the power comsumption just a bit lower than the power production of a regular generator module (= one fuel chamber and three generator units, all in tier 1).

On=2 Off=3 :MiningLaserOn=(T<On)*:Mining T++ T*=T<(On+Off) goto:

Navigation Receiver

Received Signal Display

Requires a text panel with "PanelValue" renamed "Nav".

```
if :SignalStrength>0 then goto2 else :Nav="No Signal" goto1 end
:Nav=:Message+"\n"+(1000000-:SignalStrength)/1000+"km" goto1
```

Ore Collector

Mining Laser/ Ore Collector Swapping Power

Requires a button with "ButtonState" renamed "Collecting" and "ButtonStyle" set to "1". Reduces power consumption by switching ore collector "On" only if the button is active And the mining laser is "Off". Note: this script works best alongside the "Pulsed Mining Laser" scripts.

```
:ToggleOn=(1-:MiningLaserOn)*:Collecting goto1
```

Ship Transponder

Outside Safezone Warning

Requires an active transponder and either a warning button or a safety lid button. The button blink whenever you're outside of the safe zone. *Note: the button needs to be active in order to blink.*

```
:ButtonEnableBlink=1-:InsideSafeZone goto1
```

:ButtonEnableBlink=:StationsAllowed goto1

Stations Building Availability

Same as the previous one, but the button blink wherever you're allowed to build a station.

```
______
```

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