Getting Started with Lynx

<u>Turtle Cheat Sheet</u>

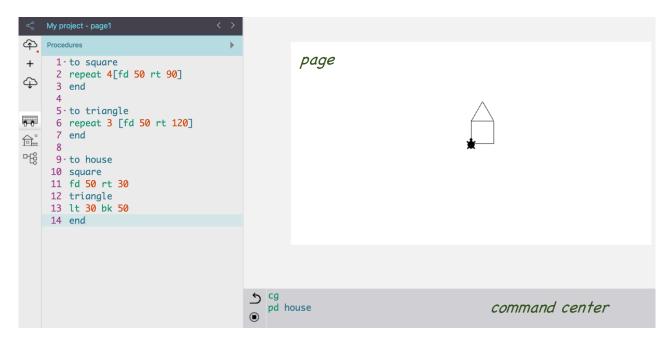
Notes:

- **#** is the sign for inserting a number as the input to a command
- Be sure to use spaces between words and numbers!

Forward #	Back #	Right #	LEFT #
FD #	BK #	RT #	LT #
For example, fd 50			
CG	Clean	PU	PD
clear graphics	Clears the screen, but	Pen up	Pen down
Clears the screen and puts	leaves the turtle where it is		
the turtle at the center			
REPEAT # [list of commands]		SETC #	
For example, repeat 4[fd 62 rt 90]		set color	
		SETC 57	
		SETC "black	
		SETC "red	
SETPOS [# #]		SHOW POS	
For example:		Displays the current position of the turtle (in coordinates)	
setpos [10 20]		in the command center	
setpos [-25 10]			
setpos [-10 -20]			
setpos [20 -25]			
SHOW 3 *4			
Shows the product of 3 and 4 in the command center. This is the same as asking the turtle to multiple 3 X 4			
Show runs a reporter or operation and displays the result in the command center.			

Writing and Running Procedures

A procedure is a list of instructions with a name. All procedures begin with to and end with end.



Procedures to Define

Enter the following procedures into the procedures area of Lynx.

You may test each procedure in the command center by typing its name.

```
to square
repeat 4[fd 50 rt 90]
end
to triangle
repeat 3 [fd 50 rt 120]
end
to house
square
fd 50 rt 30
triangle
lt 30 bk 50
end
```

Procedures with inputs

Just like forward or right are commands that require additional information as input, we can create our own procedures with inputs. Inputs allow us to use a procedure with different values.

A : with a letter or word next to it in the title line of a procedure creates an input. Procedures may have one or more input.

Change the procedures above in the procedures area to read like these.

```
to square :steps
repeat 4[fd :steps rt 90]
end
to triangle :side
repeat 3 [fd :side rt 120]
end
to house :x
square :x
fd :x rt 30
triangle :x
lt 30 bk :x
end
```

Test each procedure in the command center to see if it works. Don't forget to include a number as input!

For example: square 30 square 50 square 15 triangle 25 house 10 + 50