PATCHES

Some Useful PATCH-based Commands for NetLogo

Obs	clear-all	са	са	Observer clears the world	
Patch	set	set	set pcolor blue	Patch turns blue	
Obs	ask	ask	ask patches [set pcolor blue]	Observer asks all of the patches, " <i>make your color blue</i> "	
Any	random		random 10	Returns a number between 0 and 9	
Example: using set and random			set pcolor random 10	Patch sets its color to a number between 0	
together				and 9 (these are shades of gray).	

Built-In Patch Variables and Aliases

Patch	pxcor	X coordinate of the patch	(can't be	ask patches with [pxcor = 10]
			changed)	[set pcolor red]
Patch	pycor	Y coordinate of the patch	(can't be	ask patches with [pycor = 25]
			changed)	[set pcolor yellow]
Patch	pcolor	Number between 0 and	set pcolor red	Patch turns red (see
		140, also constants for all		Tools>Color Swatches for all of
		basic colors		the colors in NetLogo)
Any	blue,	These color-words are just	set pcolor pink	(see Tools>Color Swatches for
	red, etc	names for NetLogo color		all of the colors in NetLogo)
		numbers		

Some other fundamental NetLogo Phrases

ask []	ask patches [set pcolor blue]	Observer asks all patches, " <i>turn blue</i> "
if[]	if $(pxcor < 50)$ [set pcolor	Patches think, "If I am to the left of 50, <i>I turn</i>
	white]	white"
if[]	ask patches [if $pcolor > 10$	Observer asks all patches, "If you are reddish
	and pcolor < 20 [set pcolor	(red colors are in the range between 10 & 20),
	white]]	turn white."
one-of	ask one-of patches [set pcolor	Observer asks one of the patches (a random
	green]	one), " <i>turn green</i> "
neighbors	ask one-of neighbors [set	Patch asks one of its (eight) neighboring
	pcolor green]	patches, "turn green"
with []	ask one-of patches with	Observer asks one of the patches to the left of
	[pxcor < 20] [set pcolor	20, "turn green"
	green]	

To "teach the computer a new word," add to the Code tab, using the paired keywords "to <new command>" and "end"