CS108L Computer Science for All		
Module 3 Netlogo Code Cheat Sheet		
Command / Variable	Description	
reset-ticks	Resets the tick counter to zero. Usually goes at the end of a setup procedure, and must come after clear-all.	
tick	Advances the tick counter by one. If the tick counter has not been started yet with <b>reset-ticks</b> , an error results. Normally goes at the end of a <b>go</b> procedure.	
ticks	Reports the current value of the tick counter. The result is always a positive number.	
random #	If # is positive, reports an integer selected uniformly at random from the interval [0,3).  If # is negative, reports an integer selected uniformly at random from the interval (-3,0].  If # is zero, the result is always 0.  Example:  show random 3 ;; shows 0, 1, or 2 in the Command Center  show random -3 ;; shows 0, -1, or -2 in the Command Center	
set pcolor # set pcolor color_name set pcolor R# G# B#	The command line sets the patch color. Color can be represented either as a NetLogo color (a single number or name) or an RGB color (with separate numerical values for the amount of red, green, and blue).  Example:  set pcolor 15  ;; all of these set the color of the patch to red set pcolor red set pcolor 255 0 0	
pxcor	Reports the x-coordinate or y-coordinate of a patch	
pycor	Example: ask patches [ if pycor < -5 [	

	set pcolor blue;; sets all patches with a y-coordinate less than -5 to blue
max-pxcor	Reports either the <b>max</b> or <b>min</b> coordinate along the x-axis (horizontal axis) of the NetLogo
min-pxcor	world. To get the max or min along the y-axis, use <b>max-pycor</b> or <b>min-pycor</b> . Note that min values are often negative numbers, depending on how the world is set up.
	Example:
	create-turtles 1
	setxy max-pxcor max-pycor;; creates 1 turtle and places it in the upper right corner
	create-turtles 1
	[ setxy min-pxcor max-pycor;; creates another turtle and places it in the upper left corner ]
random-pxcor	Reports a value selected uniformly at random from the possible x or y coordinates in the
random-pycor	NetLogo world.
	Example:
	create-turtles 200
	setxy random-pxcor max-pycor;; creates 200 turtles and places them randomly;; across the top of the NetLogo world