

CS151L Fall 2013

Week 7: NetLogo Command Cheat Sheet

Command	Command Description
breed [plural_name singular_name]	<p>This keyword defines a breed. It is used at the beginning of the Code tab, before any procedure definitions. The first input defines the name of the agentset associated with the breed (the group of all member of that breed)– it is given the plural name of the breed. The second input defines the name of a single member of the breed.</p> <p>Example: breed [frogs frog] ;; defines the breed frogs, with the individual member of the breed being called frog</p>
create-<breeds> number create-<breeds> number [commands]	<p>Creates <i>number</i> new breed_agents at the origin. New breed_agents have random integer headings and the color is randomly selected from the 14 primary colors. If <i>commands</i> are supplied, the new breed_agents immediately run them. This is useful for giving the agents a different color, heading, or whatever. (The new agents are created all at once then run one at a time, in random order.)</p> <p>Example: create-snakes 10 ;; creates 10 snakes create-frogs 15 [set color green] ;; creates 15 green frogs</p>
set-default-shape turtles “string” set-default-shape <breeds> “string”	<p>Specifies a default initial shape for all turtles or, or for a particular breed of turtles. When a turtle or a breed is created, or it changes breeds, its shape is set to the given shape. This command doesn't affect existing agents, only agents you create afterwards. The given breed must be already defined breed. The given string must be the name of a currently defined shape, which can be created in the Turtle Shapes Editor or chosen from the Turtle Shapes Editor library. In new models, the default shape for all turtles is "default". Note that specifying a default shape does not prevent you from changing an agent's shape later. Agents don't have to be stuck with their breed's default shape.</p> <p>Example: set-default-shape cars “car” ;;sets the default shape of the breed cars to car shape available in the Turtle Shape Editor Library</p>
set shape “ShapeName”	<p>Used in the ask turtles or ask <breeds> command brackets to set the shape of a turtle or a breed.</p> <p>Example: ask turtles [set shape "wolf"] ;;sets turtle shape to wolf</p>
ask <breed> # [set attribute #] ask <breeds> [set attribute #]	<p>Tells the given agent or group of agents (agentset) to set a specific attribute (NEtLogo specified agent variable) to a particular value</p> <p>Example: ask frog 4 [set color red] ;; sets frog 4's color to red ask frogs [set size 5]</p>

