#### **EvalLogo: an overview**

This document provides a brief overview of the features available to *evalLogo*. This is a single page application that evaluates a subset of the drawing commands found in the Logo programming language.

This overview assumes that the grunt http server is up and running listening on port 1234. The steps to achieve this can be found in README.md (located under the repository's root directory).

#### **Command Evaluation**

The logo evaluator can be accessed through the url <a href="http://localhost:1234/evalLogo/logo">http://localhost:1234/evalLogo/logo</a>. The page shown in illustration 1 should be displayed. The list of available commands (maintained through the back office page, discussed in the next section) is shown on the left hand side. The text area that allows a user to input the commands is found at the bottom.

The commands area evaluated by pressing any of these button located at the bottom left corner:

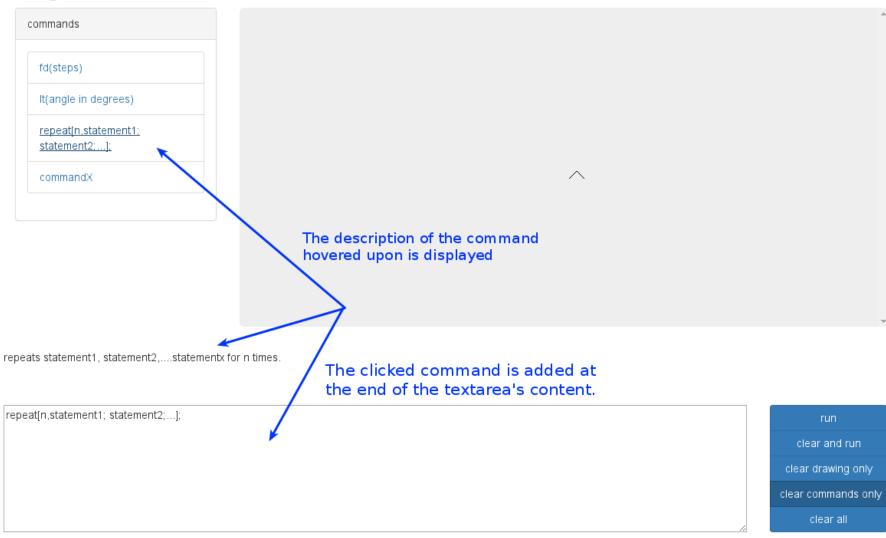
- run: evaluates and draws the image from the inputted commands. The previously placed drawing is not cleared.
- Clear and run: the previous drawing is cleared and the turtle is placed again at the centre before starting the current command evaluation.

The three other button offer the following functionality:

- Clear drawing only: clears the current drawing but not the command text area.
- Clear command only: clears the commands text area but not the current drawing.
- Clear all: clears both the commands text area and the current drawing.

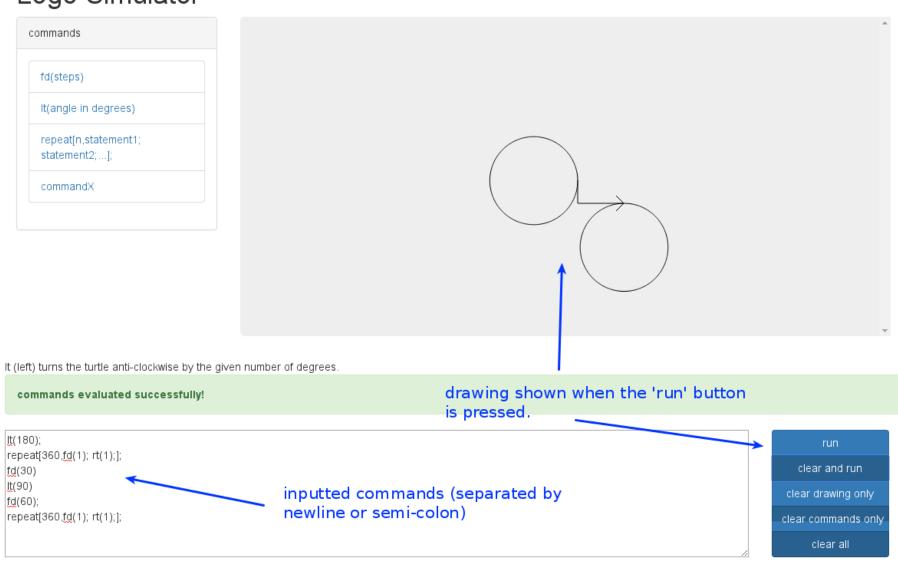
As depicted in illustration 2, the application will display the description of the command hovered upon. Furthermore, the command text area will be appended with the clicked command. Illustration 3 shows a diagram drawn after a series of commands were evaluated. An alert message between the drawing and command text area alerts the user whether the commands were executed or if the evaluation failed due to an error.

# Logo Simulator



*Illustration 1: clicking and hovering over the available commands* 

# Logo Simulator



*Illustration 2: command evaluation* 

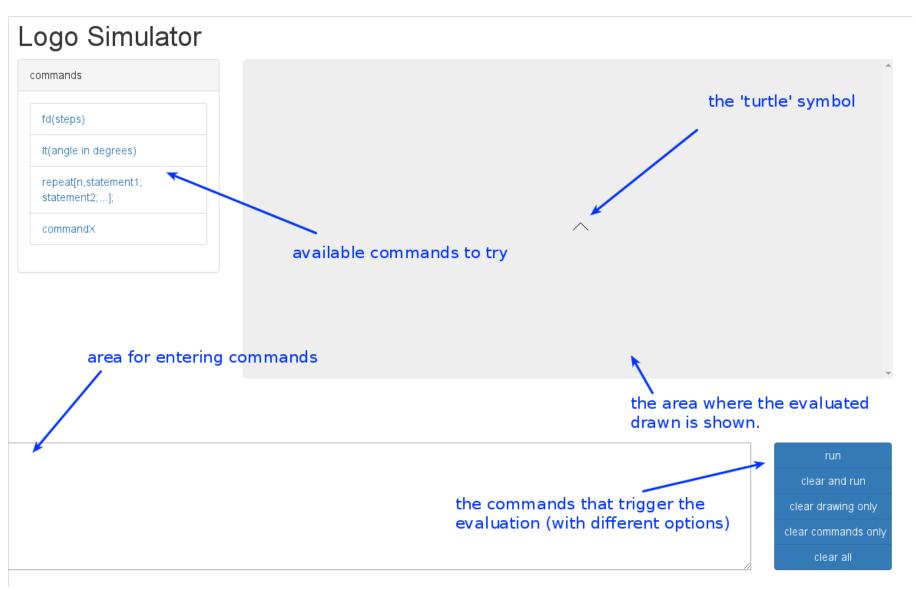
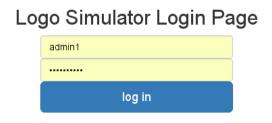


Illustration 3: EvalLogo upon loading

#### **Command Administration:**

An administrator can access EvalLogo's backoffice section through <a href="http://localhost:1234/evalLogo">http://localhost:1234/evalLogo</a>. A login page is prompted as shown in illustration 4. One can currently access this page using users george or admin1 with their respective passwords being gbon0001 and passadmin1. Please see README.md for further details on how the password is stored.



*Illustration 4: Backoffice login prompt* 

The backoffice page allows an administrator to add or remove commands as well as modifying the description of the individual commands. As mentioned previously any changes or additions to the command is reflected in the command evaluation page.

# Logo Commands

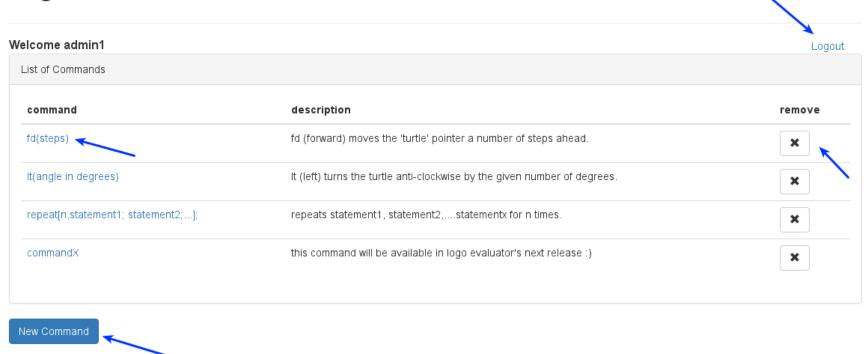


Illustration 5: Command Adminstration functions: addition, modification and removal