Valence Log Viewer

Nathaniel Hoefer – October 27th, 2017

# Primary Purpose:

To display specified logs from the log output when running Valence in a clear, concise manner, being able to change output based on the user's need.

### Desired Completion Date:

December 31, 2017

# Requirements:

This is the core functionality of this application.

* Quickly display logs as they are generated by Valence suite.
* Allow user to specify what log types to view, i.e. INFO, DEBUG, STEPS, etc.
* Colorize specific portions of the log for clear visibility.
* Dictionaries, Lists and other long structures are collapsed unless clicked.
* Application to be easily accessible, possibly through web interface.

# Development Markers:

Specific points that need to be reached to achieve the primary purpose.

1. Determine technologies to use based on requirements.
2. Design Implementation and planning.
3. Display logs 1:1 in application.
4. Remove selected log types by passing arguments.
5. Automatically minimizing portions of logs that contain info not readily needed.
6. Interactively maximizing portions of logs that have been minimized.
7. Colorize specific portions of logs.
8. Implement settings function to allow for user color options/log type display.

# Foreseeable Issues:

Hurdles that will need to be jumped when creating this application.

* If using web UI, properly implementing without experience.
* Retrieving Valence logs from process to print logs to UI.
* Creating a hyperlink for the minimized portion of logs, so that when clicked, the minimized section is now displayed.
* Applying view changes to the logs already displayed and incoming logs.

# Additional Ideas:

Features that could possibly be added after the requirements are met and time is available.

* Quick search for specific log
* Import logs already generated