Lesim-mode: Edit Learning Simulator scripts in Emacs

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Lesim-mode is an Emacs major mode to write and run Learning Simulator scripts. To learn more about the Learning Simulator, see this short article and the online documentation.

Lesim-mode helps to ensure that a script is correct by highlighting common errors, like misspelled keywords and stimulus elements.¹

You can run Learning Simulator scripts directly from lesim-mode buffers. Errors are reported in the minibuffer and highlighted in the script buffer.

For integration with org-mode, see ob-lesim mode.

1 Installing

Install from MELPA, then add (require 'lesim-mode) to your Emacs init file (e.g., .emacs.d/init.el).

2 Using

Syntax highlighting is enabled automatically.

C-c C-c runs the script in the Learning Simulator, highlighting any error.

Even without running a script, some common errors are highlighted (not 100% accurate).

Hovering on an error with the mouse pops up a description. C-c C-n moves to the next error, displaying a description in the minibuffer.

TAB and Shift-TAB in move between fields in phase blocks, and by word elsewhere. They also align phase blocks at | signs and parameter blocks at = signs.

C-c C-t inserts a template script (see 3).

C-c C-l re-highlights the whole script, in case something looks funny.

3 Configuration

Using M-x customize-group lesim you can configure:

¹However, lesim-mode does not understand the full Learning Simulator syntax. That is a job for Superman, that is, Learning Simulator chief software architect Markus Jonsson.

Figure 1: Sample screenshot

- The command used to run the Learning Simulator (default: lesim.py).
- The key bindings mentioned in the previous section.
- Whether to insert a template script when opening an empty .les file (default: nil).

4 Bugs and planned features

Please use issues on Github for bug reports and feature requests.