Lesim-Mode: Edit Learning Simulator Scripts in Emacs

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1 Introduction

Lesim-Mode is an Emacs major mode to write and run Learning Simulator scripts. Its features are:

- Syntax highlighting.
- Align parameter blocks at the = sign.¹
- Align phase lines within a phase block at | signs.
- Highlight misspelled stimuli, behaviors, and line names in phase blocks.
- Handy movement by field in phase blocks.
- Insert script template.
- Run scripts through the Learning Simulator.

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.

2 Installation

Install from here for now, hopefully from MELPA later.

¹The earlier Learning Simulator syntax using : for assignments is not supported by Lesim-Mode.

3 Quick start

- Syntax coloring is enabled automatically. It also highlights some errors, line unassigned parameters.
- Press TAB anywhere in the buffer. This has different actions depending on context:
 - In a parameter block, it aligns the block.
 - In a phase block, it aligns the block, highlights misspelled stimulus elements, behaviors, and phase line names, and moves to the next field.
 - Everywhere else, it has currently no effect.
- Press C-c r to run the script in the Learning Simulator (see 5).
- Press C-c t to insert a template to get started on a script (see 5).

4 Learning Simulator

You can learn about the Learning Simulator from these sources:

- The Learning Simulator Website
- Learning Simulator documentation on Read The Docs
- Short article in the Journal of Open Source Software

5 Configuration

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

- The command used to run the Learning Simulator (default: lesim.py).
- The key binding to run scripts (default: C-c r).
- The key binding to insert a template script (default: C-c p).
- Whether to insert a template script automatically upon opening an empty .les file (default: nil).
- Other minor items explained in the customization buffer.

6 Planned features

- Look up parameter definitions in the online docs.
- Use online docs to set default parameter values.
- Parse assignments to highlight syntax and content errors.
- Highlight and validate plotting commands.
- Add Lesim menu.

Please suggests features as issues on Github.

7 Bugs

• Error links in compilation mode point to the wrong file.

Please report bugs as issues on Github.