primal v1.0

Mike Hansen

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man pages primal-configure.s generate-pdf.sh assemble-project:

- convenient compilation with pdflatex and latex \rightarrow dvi \rightarrow pdf
- automatic handling of glossaries and multiple BiBTEX databases
- clean workspace and robust, repeatable compilation
- straightforward customization primal is a few small bash scripts
- templates for journal formats, cover letters, paper rebuttals, etc.
- integration with popular LETEX editors

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From a terminal, enter

\$ git clone https://github.com/michael-a-hansen/primal.git

which will clone the repository into a new directory named primal.

Here you can find:

- doc/ documentation
- src/ source code
- templates/ template documents
- primal-configure.sh configure script

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man pages primal-configure.s generate-pdf.sh assemble-project.: Whenever you clone, pull, or make changes to your local repository, run the configure script from inside the primal directory.

```
$ cd primal
$ ./primal-configure.sh
```

This will build the configured directory that contains scripts for primal's main functionality and testing.

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man pages primal-configure.s generate-pdf.sh assemble-project.s primal may fail for a number of reasons, such as paths not being set correctly¹ or errors committed when customizing the scripts.

To test primal go to the configured directory and run runtests.sh.

\$ cd configured
\$./runtests.sh

This will confirm that each template in primal successfully assembles into a project and builds a pdf.

^{1&#}x27;Paths not being set correctly' means that your system can't find executables such as pdflatex or MT=X packages or style files.

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man pages primal-configure.s generate-pdf.sh assemble-project. To make a blank primal project in directory projname, simply enter:

\$ <primal-path>/configured/assemble-project.sh
--name=projname --template=blank

where <primal-path> is the primal directory from earlier.

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The assembled project directory projname has four directories and a local configuration file:

- projname/src/ contains at least the main tex file
- projname/output/ pdf, dvi, ps output files are copied to this directory after document compilation
- projname/log/ the MEX log file is stored here after compilation
- projname/tmp/ temporaries from LaTeX and subprocesses (e.g. glossaries) are moved here after compilation
- projname/primal-project-config see next

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man pages primal-configure.sh generate-pdf.sh assemble-project.sh The project configuration file, projname/primal-project-config, sets the following variables necessary for document compilation:

- mainname= the main tex file
- texdir= path of the pdflatex executable
- primalbasedir= path of the cloned primal directory
- texer= the executable (pdflatex or latex)
- pdfinsrc= set to 'y' to keep a copy of the pdf in the src directory, necessary for editors that sync the pdf continously
- tmpexts= comma-separated (no spaces) list of extensions²
 belonging to the temporary files moved to projname/tmp

primal ships with several templates

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man pages primal-configure.s generate-pdf.sh assemble-project. Templates have necessary class/style files, packages, and a document with placeholders (e.g. title, authors, abstract, keywords). Formats such as SIAM papers that require a $latex \rightarrow dvi \rightarrow pdf$ build will automatically set the project configuration accordingly.

To assemble a project with a template below, simply use the -template= argument to assemble-project.sh.

- blank a blank document
- article simple document of article class
- cover letter basic cover letter using the letter class
- paper rebuttal document of article class with a package for writing responses to reviews
- journal/conf. formats: elsevier-article, siam, combustion-theory-modelling, combustion-meeting

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man pages primal-configure.sh generate-pdf.sh assemble-project.sh write-project.sh If you find yourself writing the same document over and over again, you can easily make it a new primal template.

- Make a new folder in the primal/templates/ directory
- 2 Add your tex files, class/style files, etc.
- $\ensuremath{\mathfrak{3}}$ Change the name of the main $\ensuremath{\mathtt{tex}}$ document to $\ensuremath{\mathtt{main.tex}}$

primal will automatically find the new template and include it in testing. You should run the tests after making a new template.

If your template requires $latex \rightarrow dvi \rightarrow pdf$, create an empty file named USE_LATEX in the new template directory. Projects of this type will then be configured to use $latex \rightarrow dvi \rightarrow pdf$ instead of pdflatex.

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