PreTeXt Quick Reference: Command Line Interface (CLI)

CLI version 0.8.0, 6/24/2022

Setup

Check requirements

Note: `ython} might be called {\verb` ython3 on MacOS/Linux.

`python --version` : the CLI requires Python version 3.8 or later

`pip --version` : pip is the package installer for Python

`xelatex --version` : some PreTeXt features require LaTeX

Install PreTeXt

`python -m pip install pretext-cli` : install PreTeXt

`pretext --version` : check version to verify install

Create a new project

`pretext new book` : creates a new PreTeXt book in `new-pretext-project`

`pretext new article` : creates a new PreTeXt article `new-pretext-project`

Update a project to use the CLI

`pretext init`: creates project manifest (`project.ptx`), and publication file (`publication/publication.ptx`). Edit these files appropriately before proceeding.

`pretext pretext init --refresh`: creates new copies of project manifest and publication file to compare for new features.

Upgrade PreTeXt

`python -m pip install --upgrade pretext-cli`: upgrade to latest stable release

Get Help

`pretext --help`: show general help

`pretext build --help`: show help for build command. Each subcommand has its own help.

Basic Usage

Build a PreTeXt document

`pretext build`: Builds the project to the format of the first target in `project.ptx`.

`pretext build web`: Create html version (assuming `<target name="web">`) is in `publication.ptx`

`pretext build print`: Create print (pdf) version

Generate source images and WeBWorK

If your book has any WeBWorK, latex-image, asymptote, sageplot, interactive, etc. you need to generate these from source.

`pretext generate`: Generate all assets for first target in `project.ptx`.

`pretext generate webwork`: Generate webwork for first target in `publication.ptx`

`pretext generate sageplot -t print`: Generate sageplot for target "print".

`pretext generate latex-image -x img-graph1`: Generate latex-image with xml:id "img-graph1" (for first target).

View a PreTeXt document (local)

`pretext view`: Creates a local server to preview the first target in `project.ptx`

`pretext view print`: Views the "print" target

`pretext view -w`: Builds, starts server, and rebuilds every time the project is saved

`CTRL+C` to close the server

Deploy to GitHub Pages

`pretext deploy` : deploys Git-managed project to GitHub Pages

`pretext deploy -u` : deploys and also uploads source files

Useful Shortcuts

`pretext build -g`: build and generate in one step

`pretext build web -g latex-image`: build web target and generate latex-images

`pretext view -b`: build before you preview

`pretext view -g`: generate assets before you view

`pretext view -bg`: build and generate assets before you view

Project Manifest The file `project.ptx` describes your build targets. Each target has a *name* (e.g. "print-latex") that you build with `pretext build print-latex`

publication.ptx

Information about the publication file goes here.

Examples

Examples go here.

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