Pretor User's Manual For Students

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1 Introduction

1.1 What is Pretor?

Pretor is a grading assistant program which makes programming assignments easier for students and for instructors. From the perspective of student users of Pretor, a primary advantage is that Pretor will handle packing up your assignments for submission. Gone are the days of guessing what format your professor wants your assignment in, or debating between tar cvfz project1.tgz project1/and tar cvfz project1.tgz project1/*. When you pack your submissions with Pretor, you can rest assured that your professor will have no difficulty grading your code.

1.2 What is a PSF?

PSF stands for "Pretor Submission File". These are produced and interacted with by executing the pretor-psf command (more on that later). A PSF contains all the code or other materials you may have written for a given assignment, and also contains metadata such as your user or group ID, section number, course, semester, and so on. A PSF is readable as a zip file, so simply keeping the PSF you turned in for a given assignment is a great way to archive your work for future reference.

Remember while a PSF file may be read as a zip file, you should not attempt to create your own using a zip archiving tool - submissions not generated with the pretor-psf command will be missing information required for grading.

2 Using pretor-psf

2.1 Preparing Your Project

Before you can create a PSF file, you must place a pretor.toml file in the top-level directory of your project. The pretor.toml file contains information about how your PSF file should be packed. Your professor will provide an appropriate pretor.toml for each assignment.

Remember each assignment will have a different pretor.toml, be careful not to mix-and match between assignments. In other words, the pretor.toml for Assignment 1 can not be interchanged with the one for Assignment 2.

As an example, consider the project structure shown in figure 1. We would place the pretor.toml file in the highest directory of the project, as a peer to the Makefile and README, as shown in figure 2. Keep in mind that this is simply an example for a hypothetical C-based project; your project structure may be different depending on your course, professor, language, and development environment.



Figure 1: Sample project structure before adding pretor.toml.

Figure 2: Sample project structure after adding pretor.toml.

2.2 Generating a PSF

Hint: when you see monospaced text prefixed with a \$ symbol, this shows a command that you should run in a terminal. for example, \$ echo hello means you should type "echo hello" into your terminal and press enter.

Now that you have a project ready to submit with a pretor.toml placed correctly in the project's root directory, let's generate a submission file.

First, cd into your project directory:

\$ cd /path/to/project

Now, call pretor-psf to pack up your project.

\$ pretor-psf --create

An example output of this command for a user named cad might be:

```
INFO: creating PSF...
INFO: reading data from .
INFO: generating metadata...
INFO: writing output...
INFO: PSF written to '/home/cad/Desktop/Fall 2019-CSCE313-1-cad-Assignment 1.psf'
```

2.3 Specifying Your Group

By default, the group ID stored in your assignment file is simply the username you are logged into your computer with. In the case of group projects, or if you need to specify a student ID which is different from the username of the logged in user, you may do so by specifying the --group flag. For example, if you were part of the group "group1", you might run the command:

\$ pretor-psf --create --group group1

Hint: you can heck the group ID that generated a PSF file with the command \$ pretor-psf --metadata --input SOME_FILE.psf

2.4 Troubleshooting

2.4.1 ERROR: '.../pretor.toml' does not exist, refusing to generate PSF

If you encounter this error message, then there are two possibilities:

- You have run pretor-psf from the wrong directory, cd to your project directory and try again.
- You forgot to add an appropriate pretor.toml to your project directory.

2.4.2 ERROR: ... was not specified.

This error message suggests that your pretor.toml file is present, but may be missing information. Make sure that you are using the pretor.toml provided by your professor, and that you have followed any special instructions your professor may have provided.

2.4.3 ERROR: output file '...' exists, refusing to overwrite

This error message indicates that the target output file that pretor-psf would generate already exists. If you definitely want to replace this file, you can either move or delete it, or you can use the --force flag to pretor-psf, which will cause it to overwrite the file.