Contributing

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Standards

While we welcome contributions to our project, we want to ensure that all contributions are of high quality and adhere to the standards set forth by this project. As such, we have a few requirements:

- All materials must be written in IATEX and compiled into pdfs
- The documents must be free of grammar or spelling mistakes
- Materials must be aptly named with a short and descriptive title
- The template.tex file provided in <u>templates/</u> must be used as the starting point for every document
- The materials must be relevant to the topic and be as complete as possible (i.e. No half written explanations on methods or classes)
- Any .java files must adhere to the standards of .java files that exist in src/
- Do not include any 'helper' files (*.out, *.aux, *.log, etc) in your commit, they will be ignored by default with .gitignore

Style

This section discusses the recommended practices with regard to special formatting of file paths, file names, commands, and URLs.

TL;DR

Use <u>underline</u> to show location, use typewriter to emphasize content, and use **boldface** to represent a recurring concept.

- Underline all descriptors of files and directories using '\underline', including relative or absolute paths (e.g., /git/projects/docs/README.txt and myDirectory/)
- Add a forward slash ('/') to specify a directory. (The path <u>path/to/location/</u> indicates that 'location' is a **directory**, where as path/to/location indicates that 'location' is a **file**)
- When referring to a file by its filename and not its path, use '\texttt' to emphasize its name (e.g., Counter.java and .gitignore)
- Use '\texttt' to emphasize a particular terminal command or program (e.g., sudo apt-get upgrade and python2.7)
- Use '\url' to indicate the placement of a URL (e.g., https://google.com/ and git@github.com:TimMagoun/ProgrammingLesson.git). This command is included in the url package
- Use '\textbf' to emphasize a vocabulary or important concept in a lesson (e.g., **Variables** and **Inheritance**)
- Use the package minted to format and display code in all documents

Environment Set-Up

This section aims to briefly describe the steps to set up the environment required to compile template.tex

- 1. Install OS-specific version of LATEX (MacTex, MiKTeX, TexLive, etc)
- 2. Install or Update python2.7
- 3. Install pip if you don't already have it and make sure that it is at the most recent version. https://pip.pypa.io/en/stable/installing/

- 4. Install pygments by running: pip install Pygments
- 5. Install minted from either the LATEX distro's package manager or install manually from here: https://github.com/gpoore/minted
- 6. To compile template.tex, run pdflatex -shell-escape template.tex in template/. This should create a template.pdf file in the same directory as template.tex, as well as many auxiliary files such as template.log and template.aux

Organization

Now that you're ready to compile LATEX, let's look at the structure of this repository.

- bin/, src/, and .project are all part of an Eclipse project
- .git and .gitignore are essential parts of this repository
- contributing/ is the directory above this instructional pdf and tex file. It serves to be an informational guide to those who wants to contribute to this project
- environment/ contains extensive guides for installing tools needed to program
- <u>lessons/</u> contains documents that supplement this lesson. They could also be used as standalone resources for teams without prior programming experience
- resources/ contains helpful guides found on the internet that we thought would be helpful to those who are starting out
- problem_bank/ contains a set of problems that may be used for a pre/final assessment. It also contains homework problem sets for each lesson, which could be reviewed in class for further discussion
- \bullet syllabus/ contains the syllabus for the lessons, and it includes the instruction to set up \bullet Eclipse
- template/ contains the template file for creating new documents
- tests/ contains the compiled tests