FS 102
Software Everywhere
Spring 2017

Practical 3
Assigned: Wednesday, February 22, 2017
Due: Wednesday, March 1, 2017 at the start of class
"Checkmark" grade

Introduction

Writers and presenters on the cutting-edge of technology often use a version control system to manage most of the artifacts produced during the phases of drafting and delivering an article or a talk. In this practical assignment, you will learn how to create a mobile-ready version of the slides for a presentation. The source code for your presentation will be hosted in a GitHub repository and displayed by the RawGit content delivery network (CDN). After finishing this assignment you should be able to view both a local version of your slides running on your development computer and a publicly available version of the slides that are available in both GitHub and RawGit. As you are completing this practical assignment, please make sure that you consider the following admonitions about using GitHub and RawGit to complete a presentation assignment.

- **If possible, use the laboratory computers.** If it is absolutely necessary for you to work on a different machine, be sure to regularly transfer your presentation to the Alden machines and check their correctness. Please remember that, as stated in the syllabus, students should try to complete assignments using the specialized workstations in the laboratory. If you cannot use a laboratory computer, then, when you are asking questions, please carefully explain the setup of your laptop to a teaching assistant or to the course instructor.
- **Follow each step carefully.** Slowly read each sentence in every assignment sheet, making sure that you precisely follow each instruction. Take notes about each step that you attempt, recording your questions and ideas and the challenges that you faced. If you are stuck, then please tell a teaching assistant or instructor what step you recently completed.
- **Regularly ask and answer questions.** Please log into Slack at the start of a class or practical session and then join the appropriate channel. If you have a question about one of the steps in an assignment, then you can post it to the designated channel. Or, you can ask a student sitting next to you or talk with a teaching assistant or the course instructor.
- **Store your files in Git**. Starting with this laboratory assignment, you will be responsible for storing all of your files in a Git repository. Please verify that you have saved your source code in your Git repository by typing "`git status`" and ensuring everything is up to date.
- **Keep all of your files!** Don't delete your programs, output files, and reports after you hand them in—you will need them again later when you study for the quizzes and examinations and work on the other laboratory, practical, and final project assignments.
- **Back up your files regularly**. Use a flash drive, Google Drive, or your favorite backup method to keep a copy of your files in reserve. In the event of a system failure, you are responsible for ensuring that you have access to a recent backup copy of all your files.

Configuring Git and GitHub

As you complete the next part of this practical assignment please make sure that you follow each step carefully. If you make a mistake in one of these steps it may require you to start over and follow all of the steps again. If you are not sure how to do one of the requested actions, then please ask the course instructor or a teaching assistant. To start this phase of the assignment, please visit and read the following web sites that contain the source code for two presentations that were recently given by the course instructor: `https://github.com/gkapfham/seke2015-panel-presentation` and `https://github.com/gkapfham/townhall2016-presentation`. You should also study these web sites for the presentation programming framework that we will adopt in this class: `http://lab.hakim.se/reveal-js/` and `https://github.com/hakimel/reveal.js/`. Finally, you should learn about how the RawGit CDN works by visiting `http://rawgit.com/`.

1. Your first task is to pick one of the presentation Git repositories created by the course instructor and fork it, using the knowledge and skills that you developed in the previous practical and laboratory assignments. Once you have forked your chosen repository repository, you need to go into its settings and rename it to "`fs102Spring2017-presentation1-<your GitHub user name>`". The key task in this step is to create a presentation in a GitHub repository.

2. Using SSH — and not HTTPS! — you should now clone the repository to your laboratory computer. You will do this by clicking the green "Clone" button, copying the address to the clipboard, and then typing "`git clone`" and pasting the address in your terminal window. At this point, you should see the download of the source code for your new web site to your workstation. Ask the instructor for help if you think that this did not work correctly.

3. Now, use the Atom text editor to explore the source code of your chosen presentation. For instance, if you picked the "`seke2015-panel-presentation`" then you should look at the file called "`seke2015_panel.html`". Make sure that you understand all of the key features of this template (e.g., title slide, the use of color, and a background image). Next, you should delete all but one example of each type of slide and then customize each slide exemplar with content from a recent writing assignment. Of course, make sure that you have a title slide!

4. Finally, update the `README.md` file so that it introduces your presentation and then explains how to install and view it. You should test to make sure that your colleague can click on the title of your presentation and easily view your presentation in a web browser. Ultimately, you should have a simple presentation demonstrating that that you know how to program slides.

Summary of the Required Deliverables

This practical assignment invites you to complete the following tasks:

1. A cloned version of a presentation programmed by the course instructor, for use as a template.
2. A customized version of the presentation that connects to any of the prior writing assignments.
3. A customized version of the `README.md` file that is in your web site's repository.

In adherence to the Honor Code, you should complete this practical assignment on an individual basis. While you may have high-level conversations with others, any deliverables that are nearly identical to the work of others will be taken as evidence of violating Allegheny College's Honor Code.