DataLab ‘19
About Projects, Tasks, Project Management and Tools

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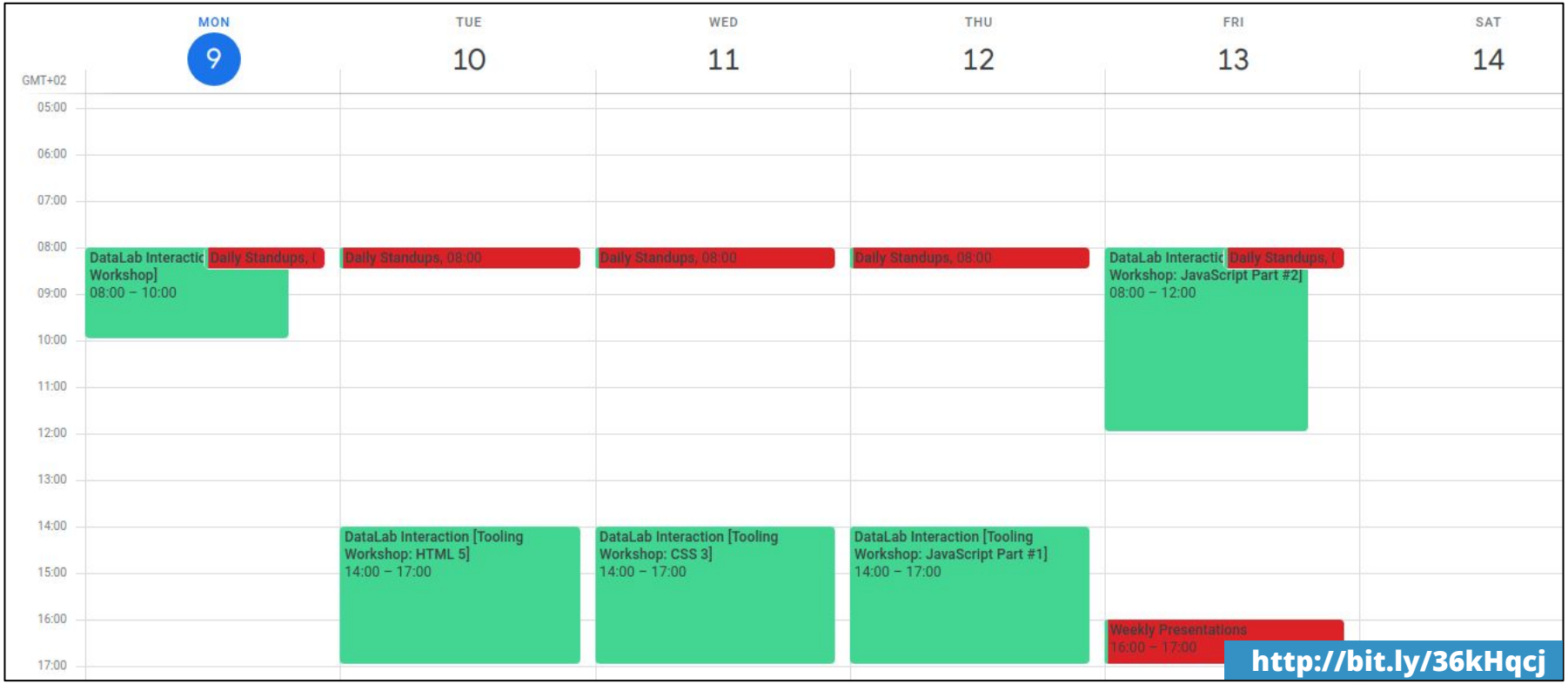
http://bit.ly/datalab-repository

Outline

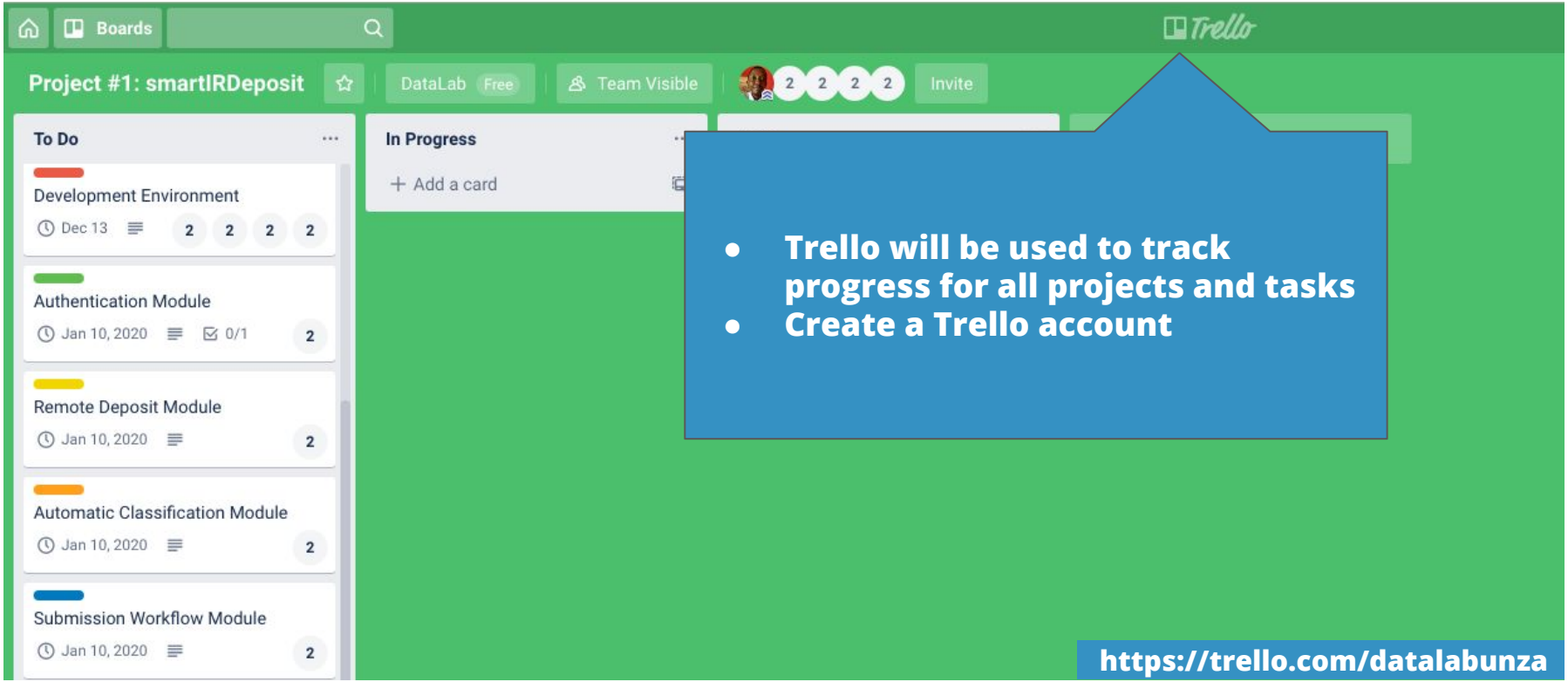
- The Workflow
- Tasks and Projects

Regular Interactions

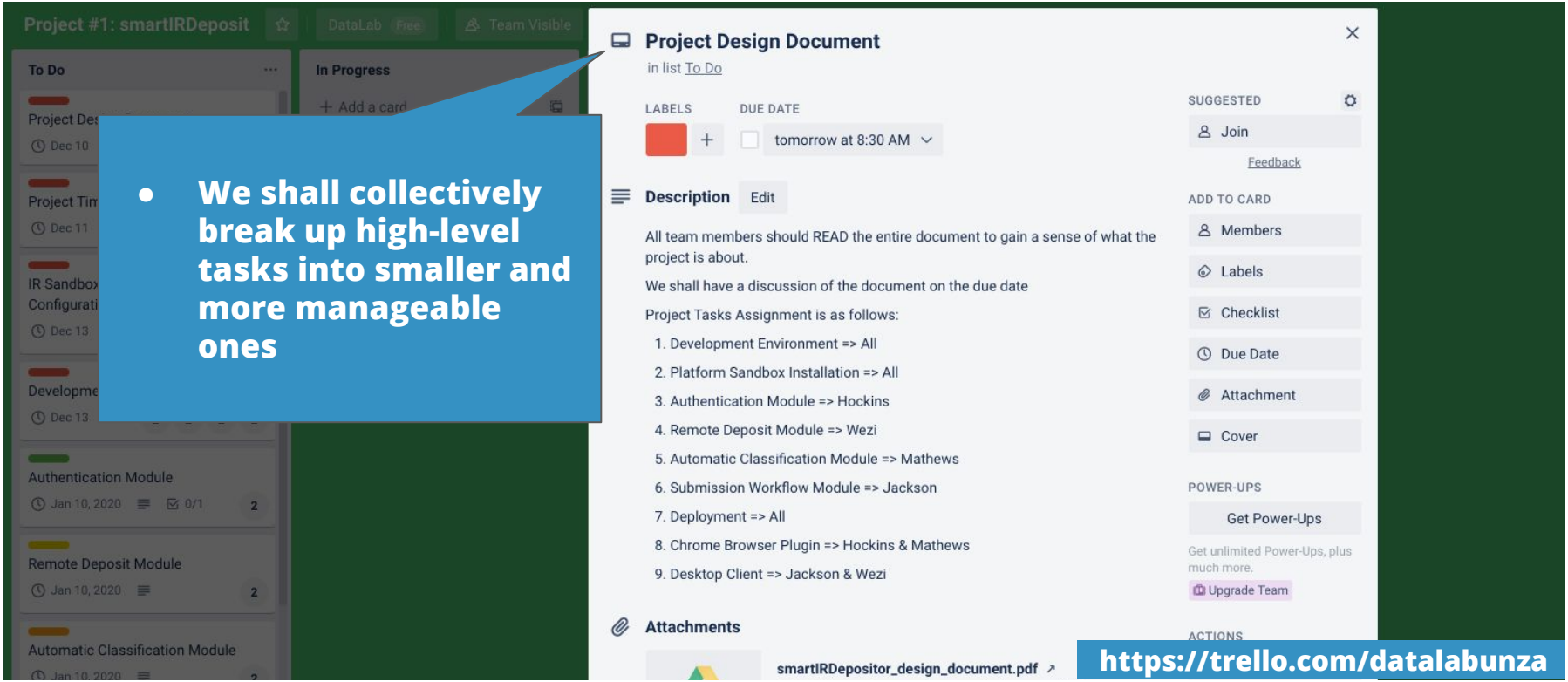


http://bit.ly/36kHqcj

Project Management (1/2)



Project Management (2/2)



- **We shall collectively break up high-level tasks into smaller and more manageable ones**

https://trello.com/datalabunza

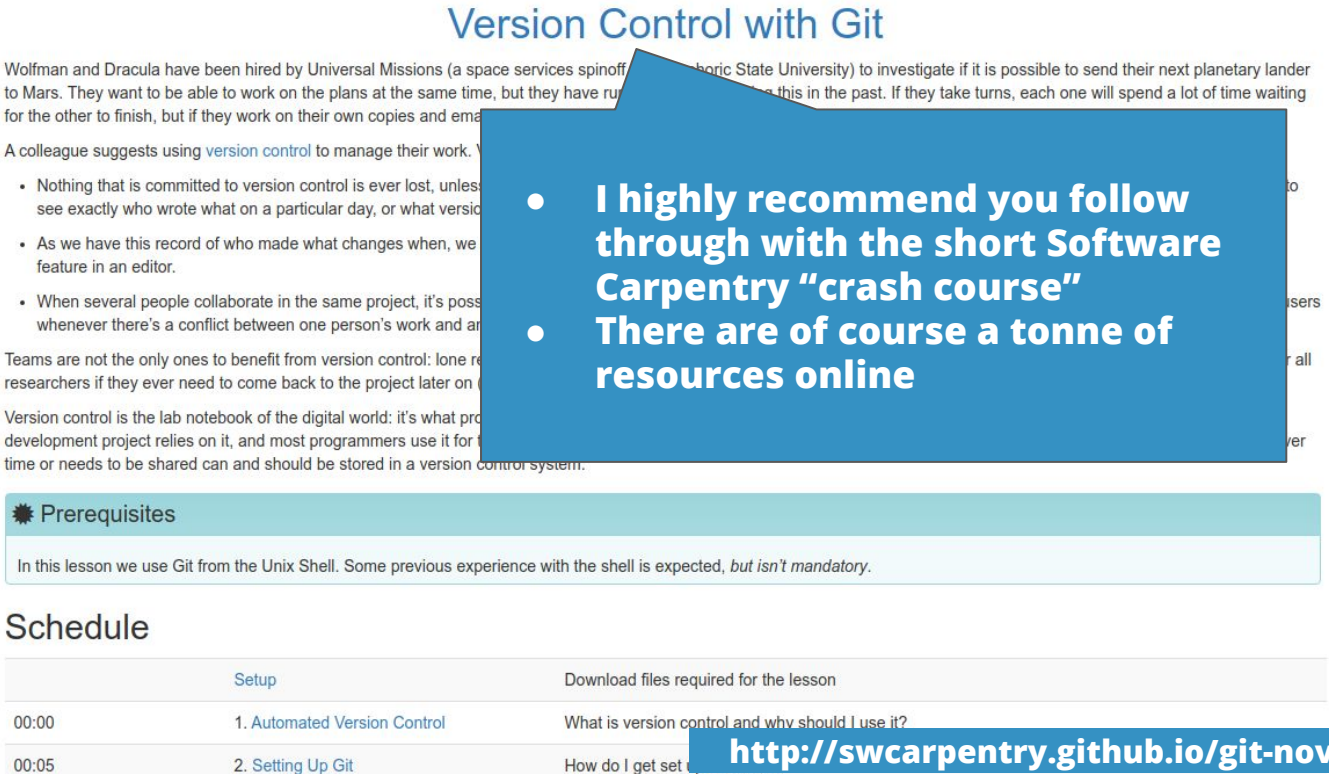
Versioning Your Work (1/5)

```
commit 9f83b39e08a827b7f073b9cf5d84f4f9dd24ea5f
Author: Lighton Phiri <lighton.phiri@gmail.com>
Date:   Thu Oct 3 21:49:12 2019 +0200

    Minor changes to Tex input file

commit 69ac59bfaf68381c6d95f9d696e95a03b3691e07
Author: Lighton Phiri <lighton.phiri@gmail.com>
Date:   Thu Oct 3 21:03:17 2019 +0200
```

https://git-scm.com

- **Setup and familiarise yourself on how to use Git**
  - Getting started is extremely easy and you shall mostly use the commit, push and pull options

Versioning Your Work (2/5)



Version Control with Git

Wolfman and Dracula have been hired by Universal Missions (a space services spinoff [illegible]horic State University) to investigate if it is possible to send their next planetary lander to Mars. They want to be able to work on the plans at the same time, but they have ru[illegible] this in the past. If they take turns, each one will spend a lot of time waiting for the other to finish, but if they work on their own copies and ema[illegible]

A colleague suggests using version control to manage their work. V[illegible]

- Nothing that is committed to version control is ever lost, unles[illegible] see exactly who wrote what on a particular day, or what versio[illegible]
- As we have this record of who made what changes when, we [illegible] feature in an editor.
- When several people collaborate in the same project, it's poss[illegible] whenever there's a conflict between one person's work and a[illegible]

Teams are not the only ones to benefit from version control: lone r[illegible] researchers if they ever need to come back to the project later on [illegible]

Version control is the lab notebook of the digital world: it's what pro[illegible] development project relies on it, and most programmers use it for t[illegible] time or needs to be shared can and should be stored in a version control system.

- **I highly recommend you follow through with the short Software Carpentry "crash course"**
- **There are of course a tonne of resources online**

Prerequisites

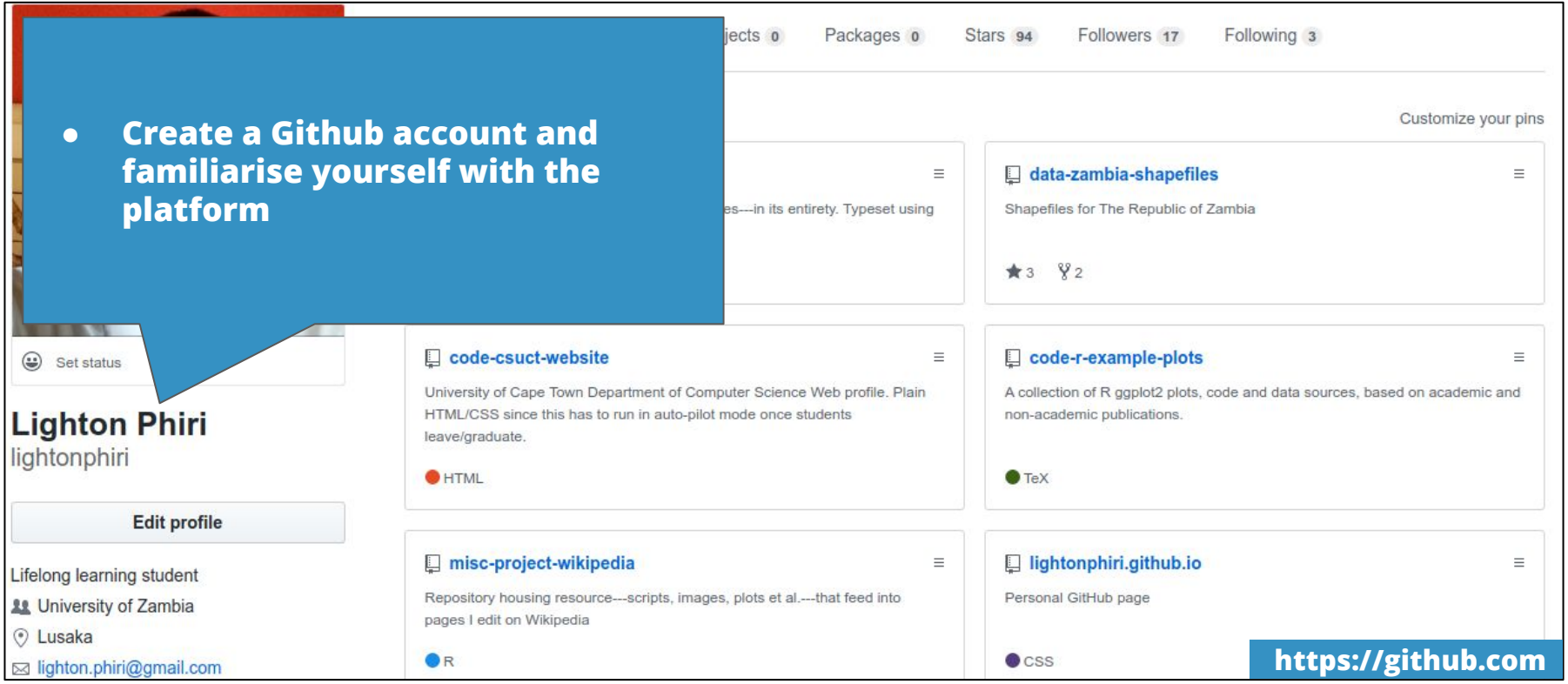
In this lesson we use Git from the Unix Shell. Some previous experience with the shell is expected, *but isn't mandatory*.

Schedule

	Setup	Download files required for the lesson
00:00	1. Automated Version Control	What is version control and why should I use it?
00:05	2. Setting Up Git	How do I get set [illegible]

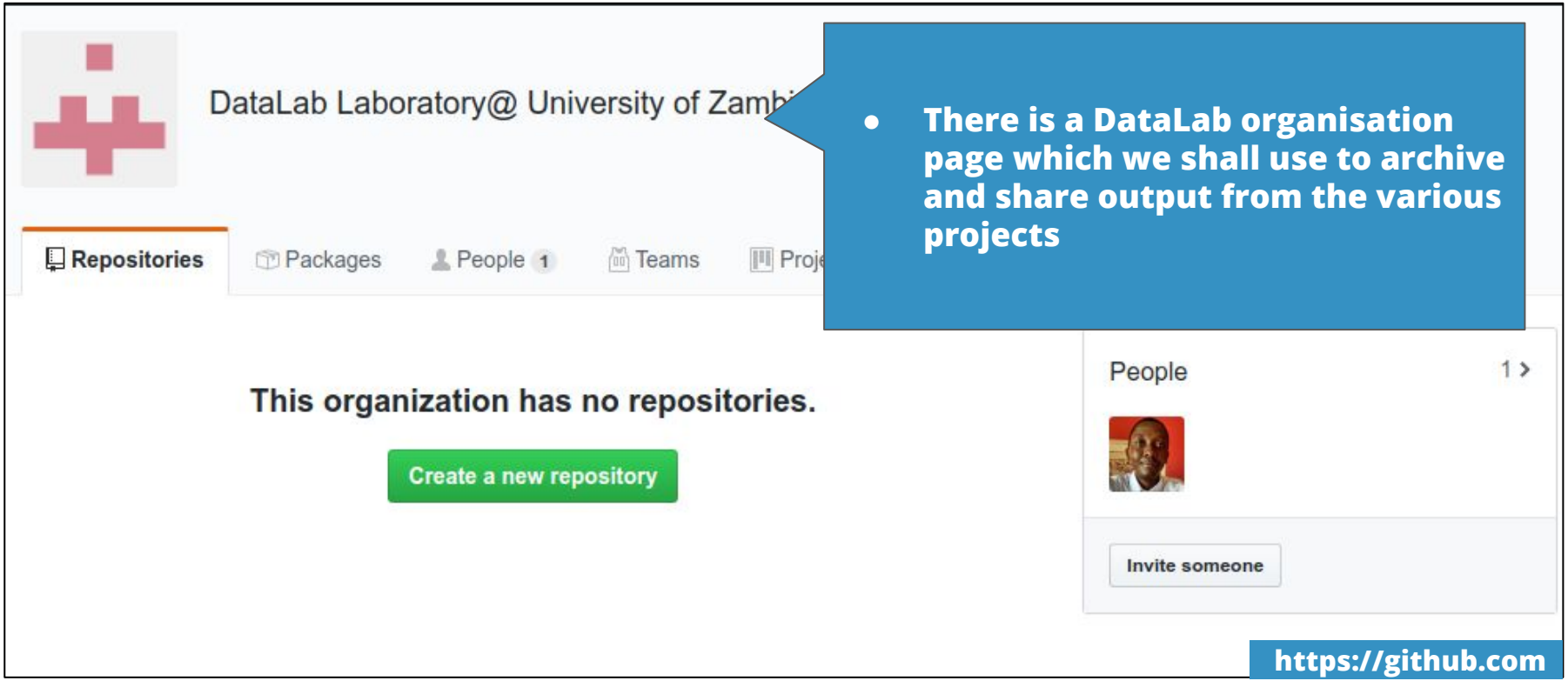
http://swcarpentry.github.io/git-novice

Versioning Your Work (3/5)



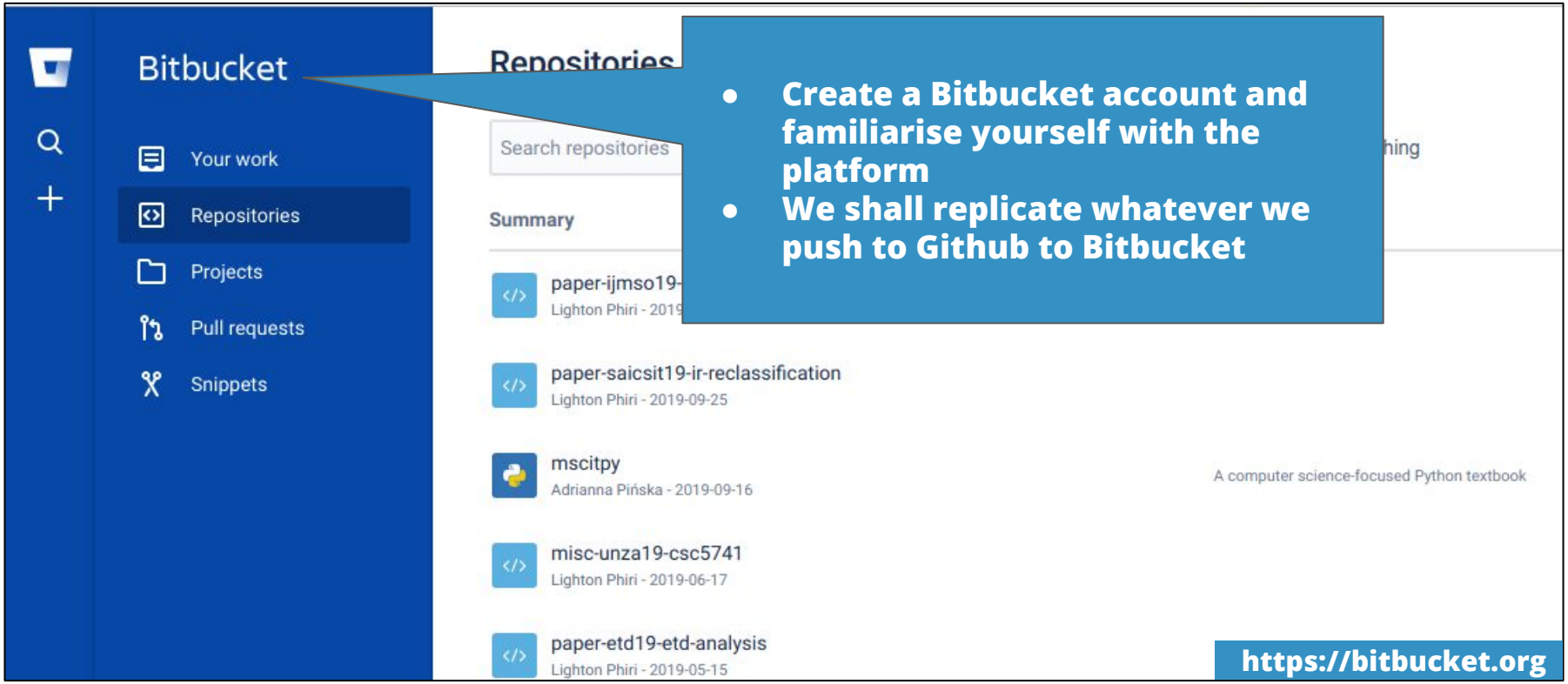
- **Create a Github account and familiarise yourself with the platform**

Versioning Your Work (4/5)



- There is a DataLab organisation page which we shall use to archive and share output from the various projects

Versioning Your Work (5/5)

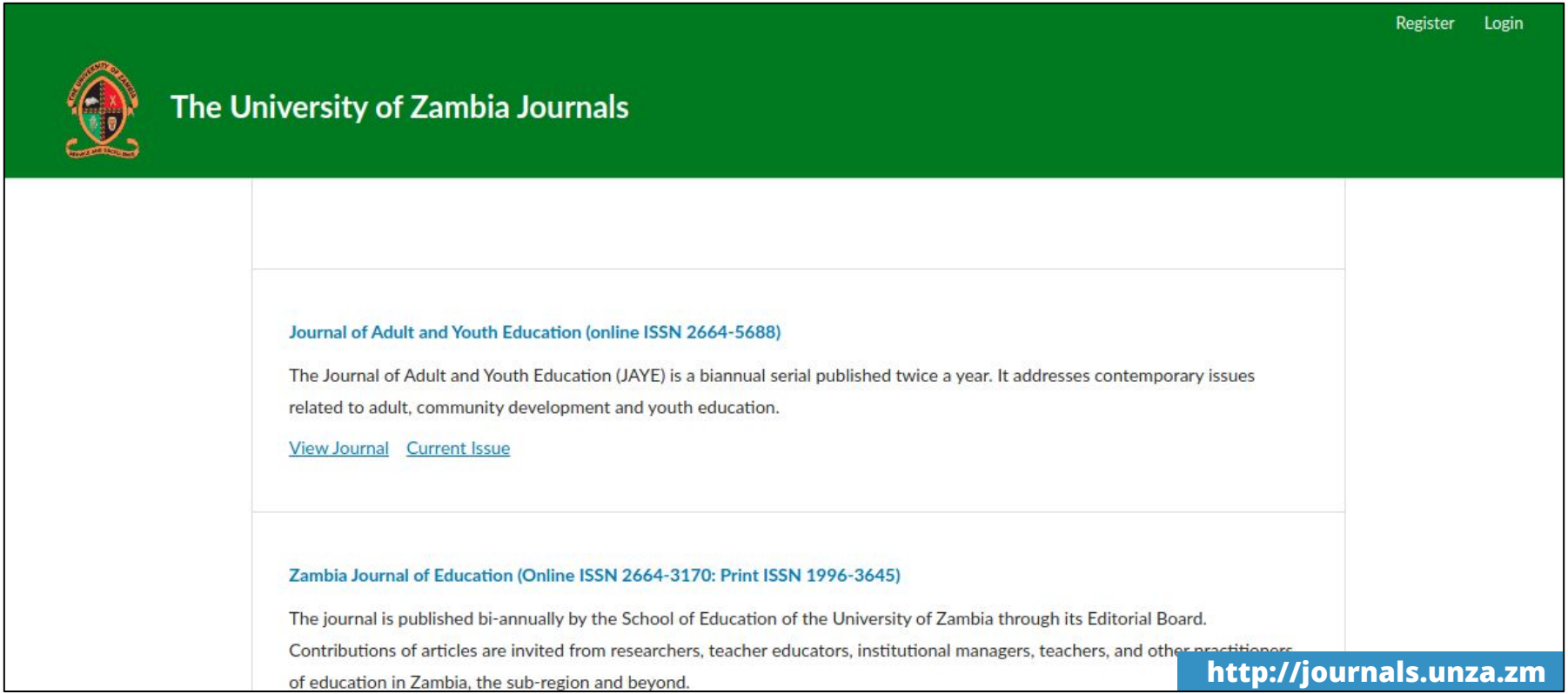


- **Create a Bitbucket account and familiarise yourself with the platform**
- **We shall replicate whatever we push to Github to Bitbucket**

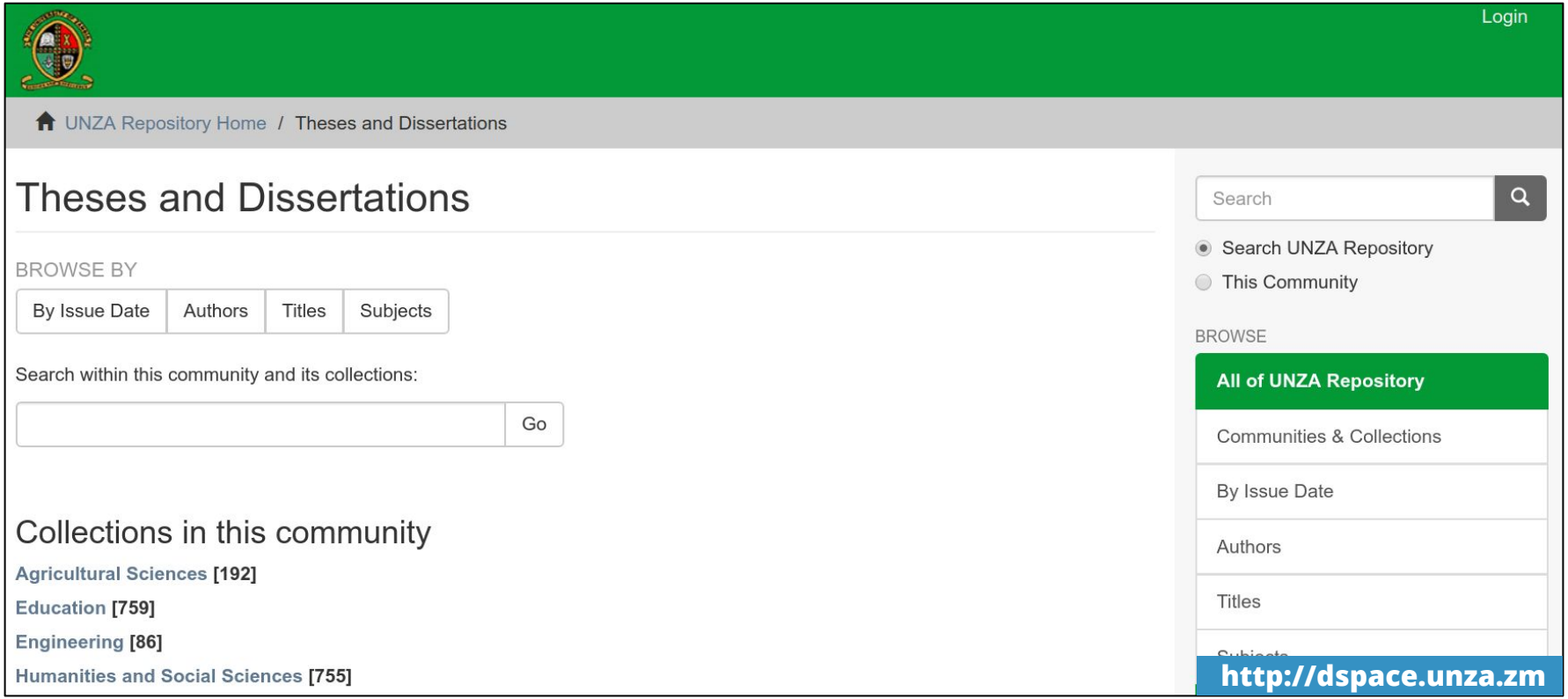
Project Assignments

- Project 1 | IR Deposit
- Project 2 | Subject Repository Ingestion
- Project 3 | Daily Mail Transcription
- Project 4 | OAI-PMH Portal
- Project 5 | lis.unza.zm
- Project 6 | datalab.unza.zm
- Project 7 | Pending | Labeling IR Objects
- Project 8 | DSpace Templating
- Project 9 | DRGS OJS Instances Content Ingestion

OJS Instances



UNZA Institutional Repository



Thank you for your time

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