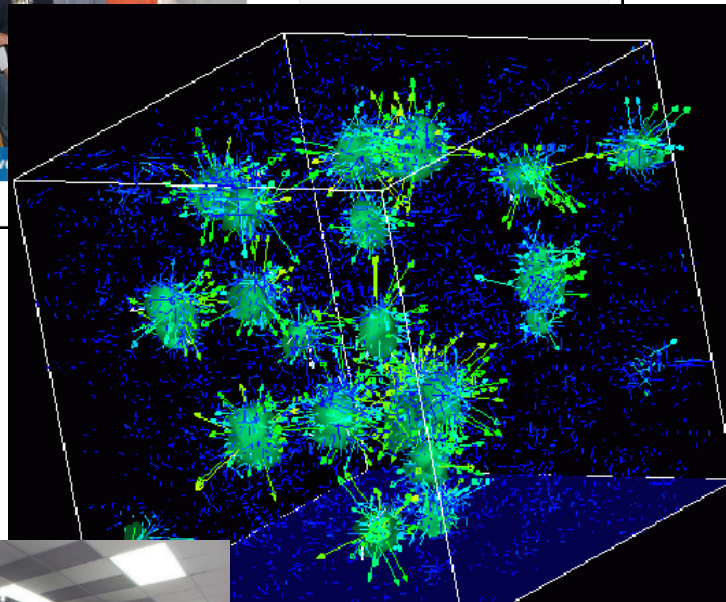


Survey of Scientific Computing (SciComp)



```

1 using System;
2 using System.Collections.Generic;
3 using System.ComponentModel;
4 using System.Data;
5 using System.Drawing;
6 using System.Linq;
7 using System.Text;
8 using System.Windows.Forms;
9
10 namespace SimpleEvent1
11 {
12     public partial class Form1 : Form
13     {
14         Person person = new Person();
15
16         public Form1()
17         {
18             InitializeComponent();
19             person.FirstName = "Christian";
20             person.LastName = "Pano";
21         }
22
23         private void button1_Click(object sender, EventArgs e)
24         {
25             person.HairColor = textBox1.Text;
26         }
27     }
28 }

```

Unit 1
Codecademy
GitHub

Goals

- Sign-up for Codecademy
 - Register for classes
- Learn about GitHub
 - Pull Unit 1

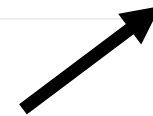
Go to Codecademy.com

*We will use this as supplemental lessons

- Signup
 - Use your normal email or google account

Find something to learn

[Go to Catalog](#)



Welcome to Codecademy
Let's find something for you to learn

Give me a custom
recommendation



I want to explore on my
own



Select the following courses

- Learn C++
- Learn the Command Line
- Learn Git

After selecting your first course go to the homepage by clicking the codecademy icon in the top left corner



Select My Courses

The screenshot shows the Codecademy website interface. At the top, there is a navigation bar with the Codecademy logo, links for 'Catalog' and 'Pricing', a purple button that says '7 Days Left - Get Pro', and icons for search, notifications, and a user profile. Below this is a dark purple header bar for the user 'Nicholas Corleto', who is a 'Pro Trial Member'. On the right side of this bar, it shows '0 Badges' and '1 Courses'. Below the header is a horizontal tab bar with three tabs: 'Today', 'My Courses' (which is highlighted in blue), and 'Practice'. To the left of the 'My Courses' tab, there is a section titled 'Career Paths' with a 'PRO' badge. Below this title is a white box with a plus icon and the text 'Choose a Career Path'. A blue arrow points upwards from the 'Choose a Career Path' box towards the 'My Courses' tab.

Scroll to the bottom and Click “Add another course”

***course must be started to be saved to your courses**

What is GitHub?

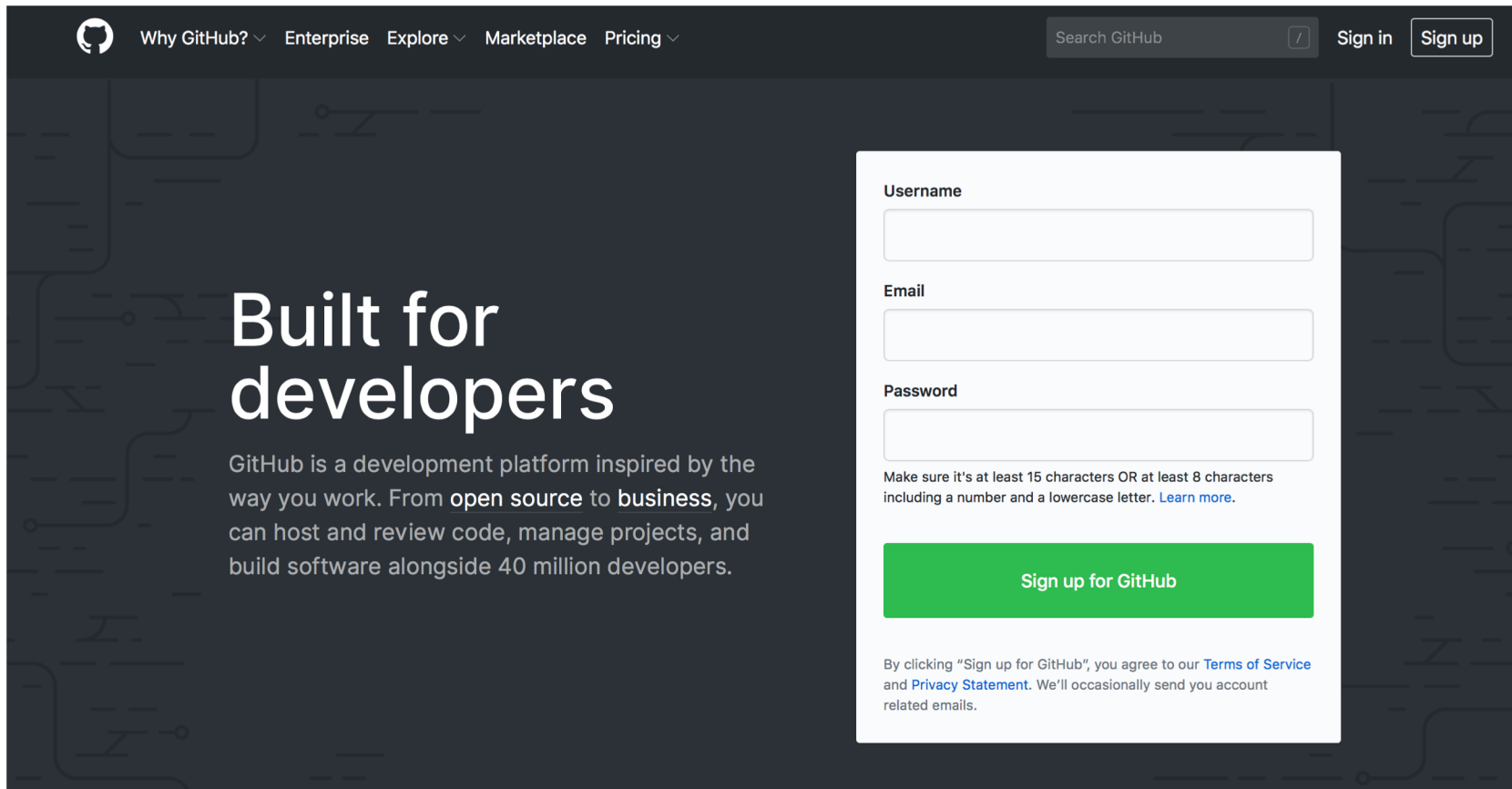
- ❖ GitHub is a collaboration platform built on top of a distributed version control system called Git. One does not have to worry about losing data on his hard drive or managing a project across multiple computers - one can sync from anywhere. You can track issues, build & test the things and finally deploy.

Why Use of GitHub for Projects?

- ❖ **Version Control** (Allows experiments and mistakes without messing up in final product)
- ❖ Keep your **Code in One Place**
- ❖ Great **Collaboration** Platform
- ❖ Git, GitHub, GitHub.com, GitHub Desktop,
- ❖ Hello World - <https://guides.github.com/activities/hello-world/>
- ❖ GitHub Guide - <https://guides.github.com/>

Setting Up With GitHub

❖ Make an account



The screenshot shows the GitHub homepage with a dark background and a light-colored sign-up form on the right. The form includes fields for Username, Email, and Password, followed by a green 'Sign up for GitHub' button. The background text on the left reads 'Built for developers' and describes GitHub as a development platform for open source and business projects.

Why GitHub? ▾ Enterprise Explore ▾ Marketplace Pricing ▾ Search GitHub / Sign in Sign up

Built for developers

GitHub is a development platform inspired by the way you work. From **open source** to **business**, you can host and review code, manage projects, and build software alongside 40 million developers.

Username

Email

Password

Make sure it's at least 15 characters OR at least 8 characters including a number and a lowercase letter. [Learn more.](#)

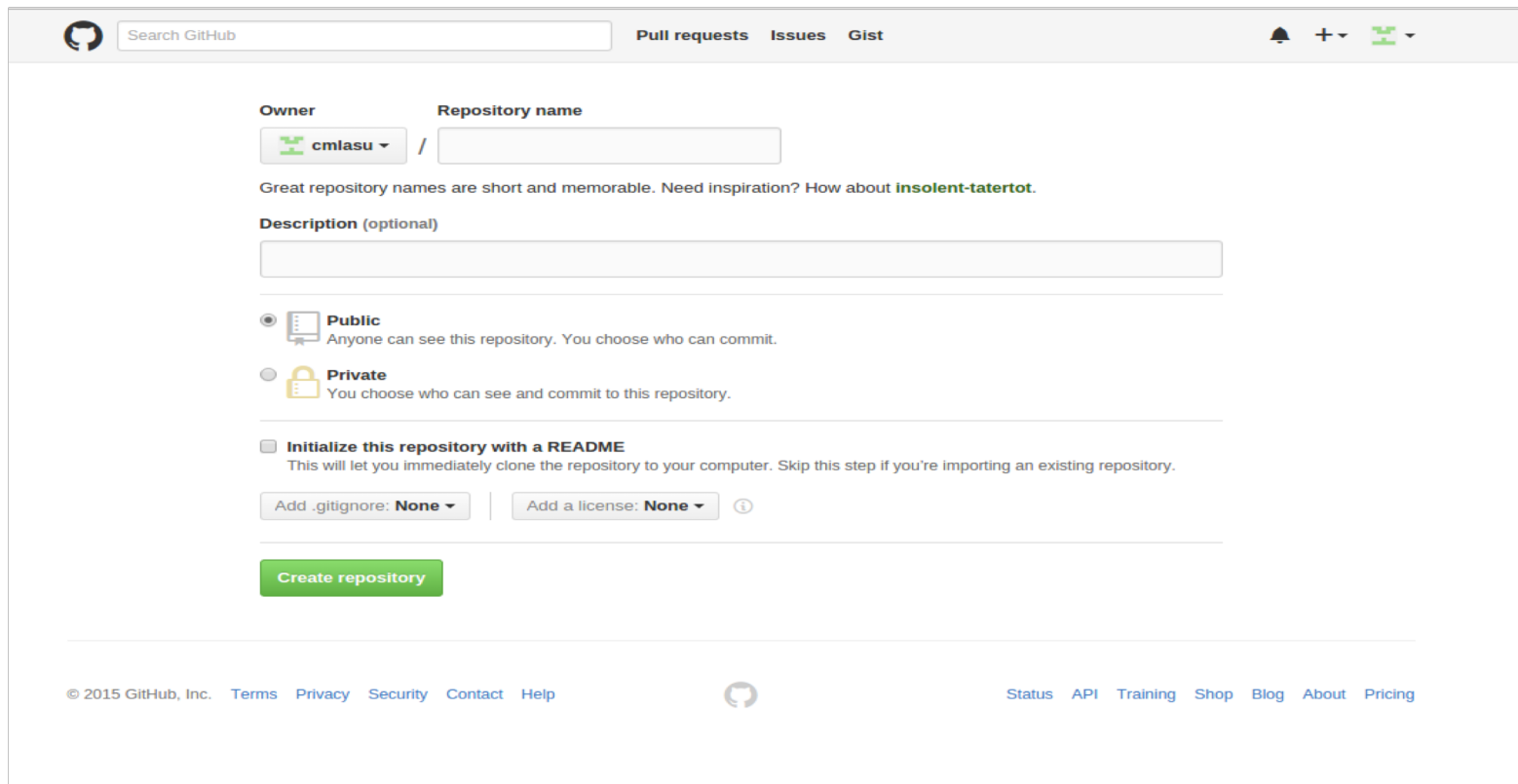
Sign up for GitHub

By clicking "Sign up for GitHub", you agree to our [Terms of Service](#) and [Privacy Statement](#). We'll occasionally send you account related emails.

We will use this later in the year for collaborative projects

GitHub Repositories

- ❖ Basic unit of GitHub, most commonly a single project. Repositories can contain folders and files, including images – anything your project needs. **ReadME** – Project Description
- ❖ Contains all of the project files (including documentation), and stores each file's revision history.



The screenshot shows the GitHub 'Create repository' page. At the top, there is a search bar and navigation links for 'Pull requests', 'Issues', and 'Gist'. The main form has two input fields: 'Owner' (with a dropdown menu showing 'cmlasu') and 'Repository name' (an empty text box). Below these, a message states: 'Great repository names are short and memorable. Need inspiration? How about **insolent-tatertot**.' The 'Description (optional)' field is a large text area. The 'Visibility' section has two radio buttons: 'Public' (selected) and 'Private'. The 'Initialize this repository with a README' checkbox is checked. At the bottom, there are dropdown menus for 'Add .gitignore: None' and 'Add a license: None', followed by a green 'Create repository' button. The footer contains copyright information, links to 'Terms', 'Privacy', 'Security', 'Contact', and 'Help', the GitHub logo, and links to 'Status', 'API', 'Training', 'Shop', 'Blog', 'About', and 'Pricing'.

Fetch/Pull Repositories

❖ This is how we will get our course materials on to our Remote Desktops

❖ This will be done via the command line

❖ Import things to note

❖ You must be in the folder you want to download to

❖ Within your Remote Desktop open your terminal window

❖ Go to your desktop folder

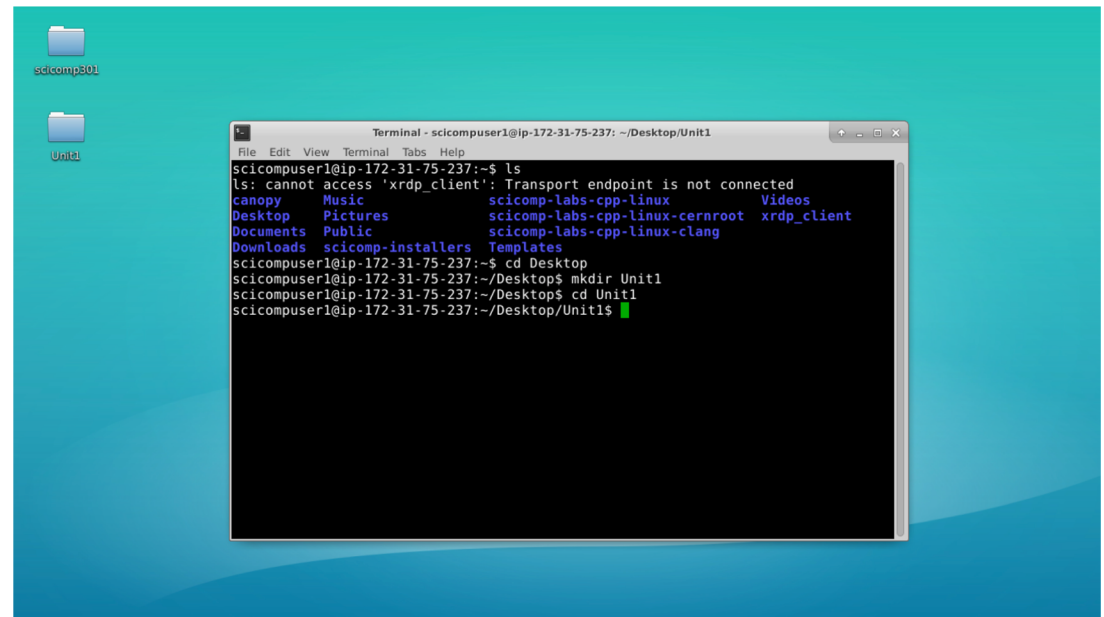
❖ Type “cd Desktop”

❖ Make a new folder “Unit1”

❖ Type “mkdir Unit1”

❖ Go to your Unit1 folder

❖ Type “cd Unit1”



User Accounts

- ❖ Your identity on GitHub. Can be member of any number of organizations. User account includes –
 - Unlimited public repositories and collaborators on all plans
 - Personal plans for private repositories
 - Ability to add unlimited repository collaborators
- ❖ Two permission levels – repository owner and collaborator(s)
- ❖ No need to have multiple accounts for different purposes like for business and for personal usage.
- ❖ User accounts are intended for humans, but you can give one to a robot, such as a continuous integration bot, if necessary.

Organization Teams

- ❖ Adding people into teams into organization-

<https://help.github.com/articles/adding-people-to-teams-in-an-organization/>

- ❖ Adding Users and teams

<https://help.github.com/enterprise/11.10.340/admin/articles/adding-users-and-teams/>

- ❖ Permission levels for organization Teams

<https://help.github.com/articles/permission-levels-for-an-organization-repository/>

Now you know...

- How to access your remote Amazon PC
- Linux with Xfce is quite similar to Microsoft Windows
- How to log out of your Linux (Ubuntu) desktop session