

# TikTok

Version 1.0.0  
Version 1.0.1  
:  
Version 2.0.1

# HOW DO DEVELOPERS TRACK CODE AND COLLABORATE?



**1 Jobtensor.com**

The screenshot shows the Jobtensor.com homepage. At the top, there's a search bar with a placeholder 'Search' and a 'jt' logo icon. Below the search bar are buttons for '+ Add More', 'GitHub X', and 'Git X'. Underneath these are navigation tabs for 'Skills' (selected), 'Job Titles', 'Levels', 'Companies', and 'Locations'. A large section titled 'Skills' allows users to select multiple skills like GitHub, Git, Continuous Integration, Version Control, CD, Redis, and GitLab. To the right of this is a question mark icon and a three-dot menu. Below this are statistics: '814 Jobs Matched' (with a red dashed box around it), '375 Companies', and '116 Locations'. At the bottom, there are sections for 'DevOps Engineer' (with a blue 'N' icon) and 'Belfast'.

**2 JobStreet.com**

The screenshot shows a job description for a DevOps Engineer position on JobStreet.com. The title 'Job Description' is at the top. Below it is a 'Must-have:' section with several bullet points. A red arrow points from the 'Must-have:' section to the 'Required skills:' section. The 'Required skills:' section contains a list of requirements, also with a red arrow pointing to it. The requirements include experience with VueJS, PHP, Git, Composer, modern code, Laravel, SQL, and various cloud platforms and tools like Terraform, Ansible, Kubernetes, Docker, and OpenShift.

Job Description

Must-have:

- Proficient with VueJS framework.
- Experience in PHP. What kind of abstractions make sense, how do you structure and implement them?
- Experience with the most common tooling: Git, Composer.
- Ability to write modern, type-safe code
- Experience with Laravel. You should know how a modern framework works - front controller, routes, etc.
- SQL. You'll mostly be working with ORMs or query builders, but decent SQL skills are a requirement.
- General nice to have stuff:

Required skills:

- Familiarity with Shell scripting, Linux Commands, version control systems like Git and Linux Operating Systems
- Experience with infrastructure configuration and cloud provisioning tools (terraform, ansible,...)
- Experience in any one of the Cloud Native development on platforms like kubernetes, virtualization platforms like OpenShift and Vmware
- Knowledge and experience in operation and administration of docker, kubernetes, OpenShift platform
- Has exposure to Open Source (adoption and contributions)
- Experience using & building containers and containerized applications

# Industry Need Git & GitHub Skills!

## NEWS

Home | Israel-Gaza war | War in Ukraine | Climate | Video | World | Asia | UK | Business | Tech

Science



## Most scientists 'can't replicate studies by their peers'

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# Research reproducibility issue?

# NATURE

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Editor's Page

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Language Modelling Zero-Shot Text-to-Image Generation

★ 943  
13.19 stars/hour

Paper  
Code



**Research Paper with  
Code  
(Share @ GitHub)**

OnePose: One-Shot Object Pose Estimation without CAD Models

zju3dv/OnePose • 24 May 2022

We propose a new method named OnePose for object pose estimation.

6D Pose Estimation Graph Attention +1

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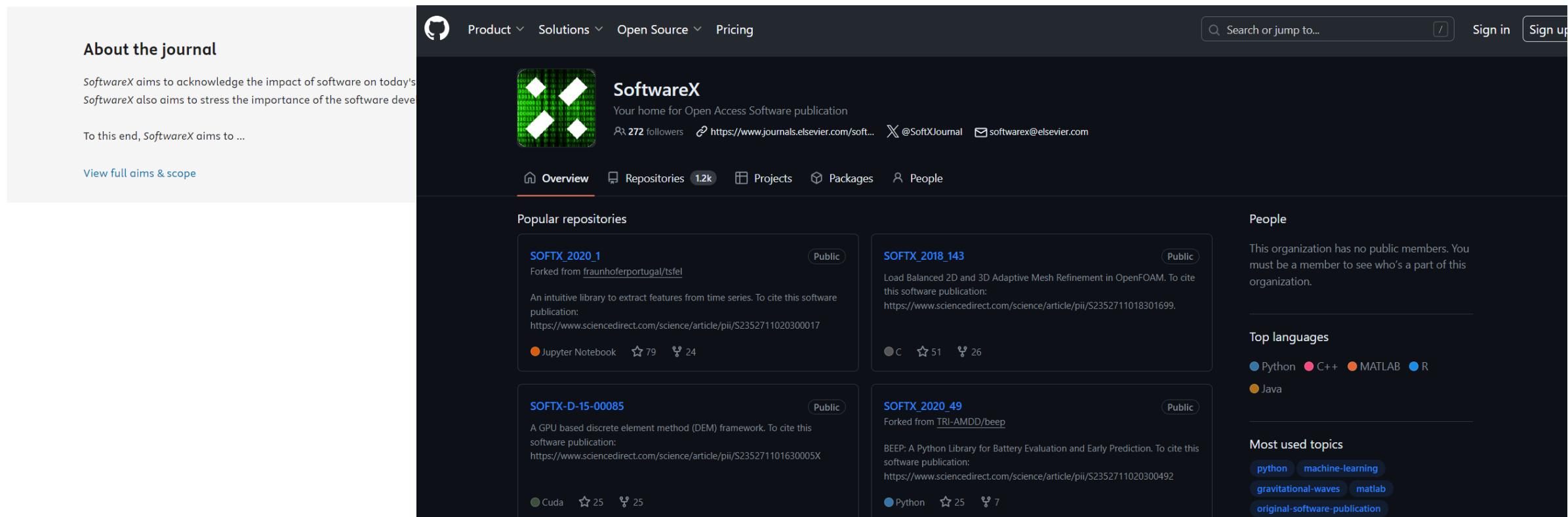


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<https://www.sciencedirect.com/science/article/pii/S2352711020300017>  
Jupyter Notebook ⭐ 79 ⚡ 24
- SOFTX\_2018\_143** Load Balanced 2D and 3D Adaptive Mesh Refinement in OpenFOAM. To cite this software publication:  
<https://www.sciencedirect.com/science/article/pii/S2352711018301699>  
C ⭐ 51 ⚡ 26
- SOFTX-D-15-00085** A GPU based discrete element method (DEM) framework. To cite this software publication:  
<https://www.sciencedirect.com/science/article/pii/S235271101630005X>  
Cuda ⭐ 25 ⚡ 25
- SOFTX\_2020\_49** Forked from [TRI-AMDD/beep](#) Public BEEP: A Python Library for Battery Evaluation and Early Prediction. To cite this software publication:  
<https://www.sciencedirect.com/science/article/pii/S2352711020300492>  
Python ⭐ 25 ⚡ 7

**People**  
This organization has no public members. You must be a member to see who's a part of this organization.

**Top languages**  
Python C++ MATLAB R Java

**Most used topics**  
python machine-learning gravitational-waves matlab original-software-publication

Module 1 : Introduction to Version Control System

# VERSION CONTROL SYSTEM!



**git**

Module 2 : Introduction to Git



**GitHub**

Module 3 : Introduction to GitHub

Module 4 : Working with Git & GitHub

# MODULE 1 : INTRODUCTION TO VERSION CONTROL SYSTEM

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Universiti Teknologi Malaysia



# MODULE OUTLINE



**01** What is Version Control System (VCS)

**02** What is Git?

**03** Overview of GitHub as Hosting Platform

**04** Version Control System – Purpose & Benefits

**05** Version Control System – Tracking Changes & Maintaining History

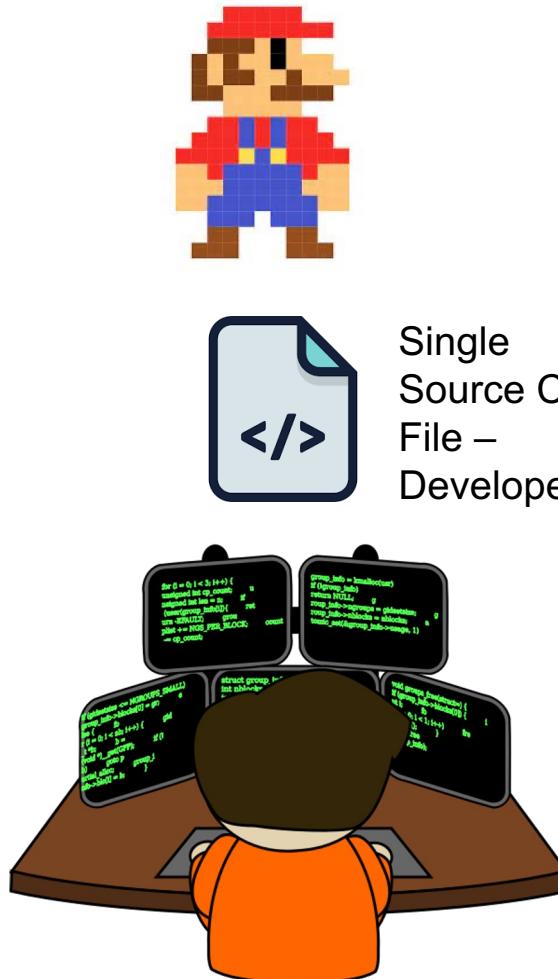
**06** Version Control System – Collaborative Development & Concurrent Work

01

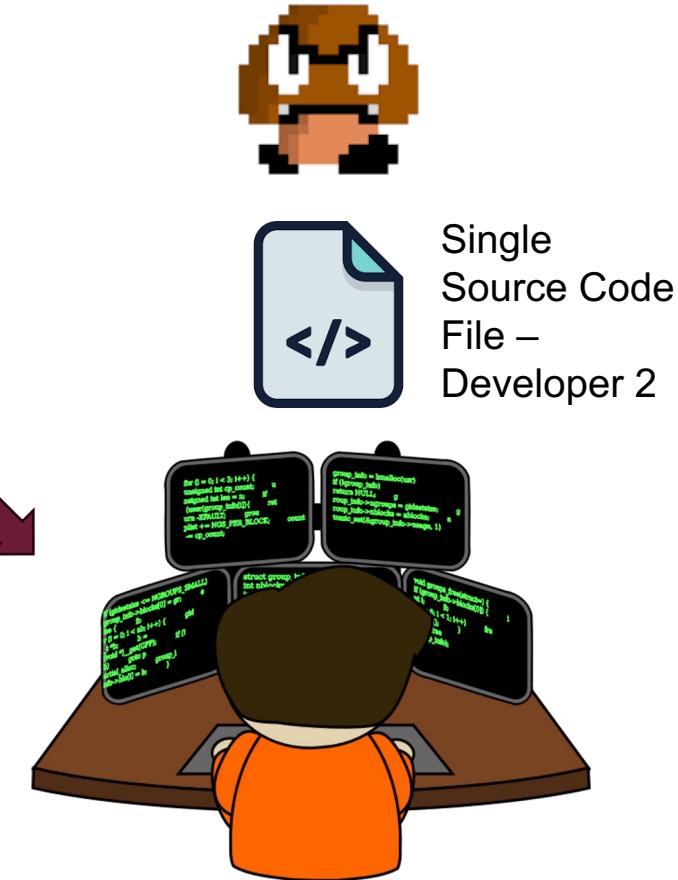
# WHAT IS VERSION CONTROL SYSTEM (VCS)



## Character Movement &amp; Controls



## Enemy Behaviour



**NO MULTIPLE FILE CREATED FOR EACH USER**

Script\_v1.py  
Script\_v2.py

Script\_v5.py

Developer 1



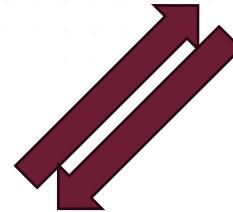
## NO MULTIPLE FILE CREATED FOR EACH USER

Script\_v1.py

Script\_v2.py

.

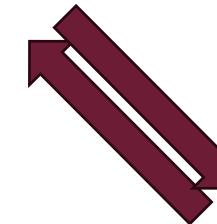
Script\_v5.py



Single Source  
Code File –  
Researcher 1



Researcher 1



Single Source  
Code File –  
Researcher 3



Researcher 3



Single Source  
Code File –  
Researcher 3



Researcher 2

# WHAT IS VERSION CONTROL SYSTEM (VCS)?

- **Time Machine for Files** : go back in time and see every changes you've made to a document or project – keep track all the changes you make to your files over time
- **Track Changes Easily** : who made changes, what changes were made and when they were made
- **Collaboration Made Simple** : Everyone work on the same files
- **Undo Mistakes** : Accidentally delete something or mess up a file? Easily roll back to a previous file ☺



# 02

# WHAT IS GIT?



# WHAT IS GIT?



- **Command** used in **Version Control System (VCS)**
- **Set of commands** that users can **use to perform various version control tasks**
- Version control tasks : make copy of file, changes in file, file status, file history etc

Chan's machine



Maria's machine



D'Angelo's machine



03

# OVERVIEW OF GITHUB AS HOSTING PLATFORM



# OVERVIEW OF GITHUB AS HOSTING PLATFORM

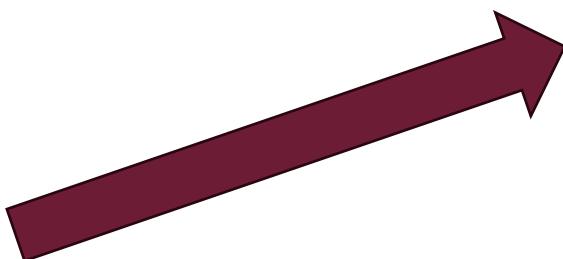
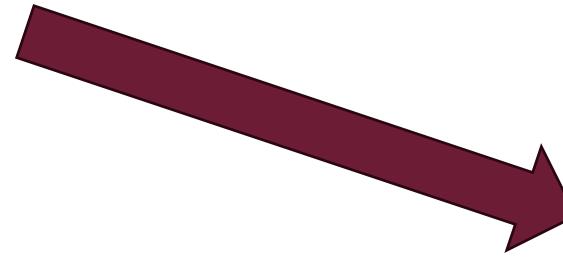
Maria's machine



Chan's machine



D'Angelo's machine



# GitHub

Web-based hosting platform for developers can share their work

# OVERVIEW OF GITHUB AS HOSTING PLATFORM



GitLab



Bitbucket



GitHub



04

# VERSION CONTROL SYSTEM PURPOSE & BENEFITS



# PURPOSE & BENEFITS OF USING VERSION CONTROL SYSTEM



Programmer  
(Web Apps, Desktop Apps,  
Mobile Apps) / Researcher



Command Line Interface (CLI)



To track changes, modify and  
version control:

version1

version2

.

.

versionN

# GitHub

Storage Space Your Project  
Repo/Online Hosting

05

# VERSION CONTROL SYSTEM TRACKING CHANGES & MAINTAINING HISTORY



# TRACKING CHANGES & MAINTAINING HISTORY

To track changes, modify and update version of software

# GitHub



Software  
Developer/Programmer/Researcher



Share to the Users

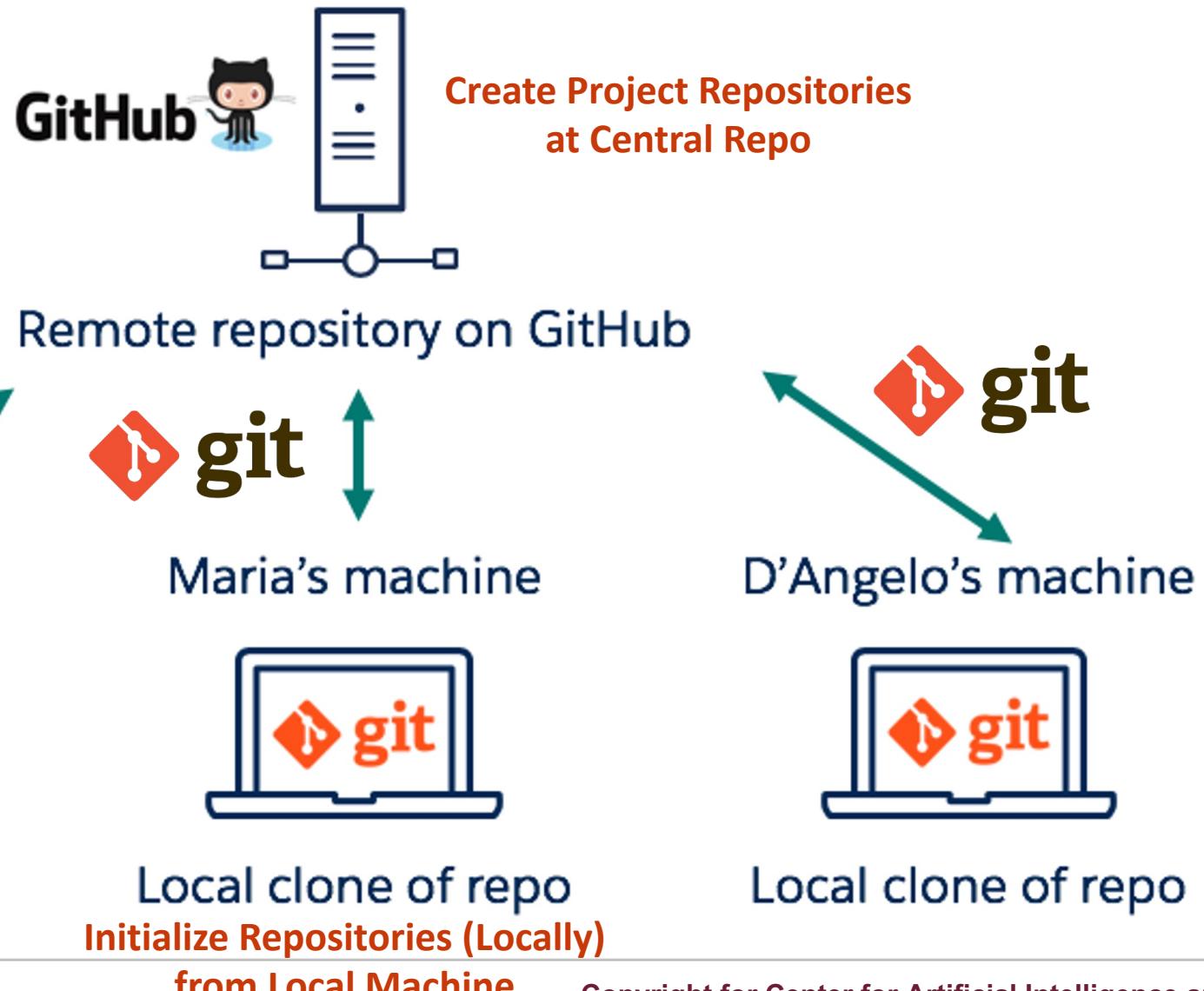
06

# VERSION CONTROL SYSTEM COLLABORATIVE DEVELOPMENT & CONCURRENT WORK



# COLLABORATIVE DEVELOPMENT & CONCURRENT WORK

- Git Installation & Configuration
  - `git config --global user.name "[firstname lastname]"`
  - `git config --global user.email "[valid-email]"`





# THANK YOU



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