

## **CSH1F2 Introduction to Computer Science Week 3: Algorithm**

**Author: Lecturer Team** 

Bachelor of Engineering, School of Computing





## **Minecraft**

- Minecraft is a game of putting some blocks and adventures.
- In Minecraft hour code, there is a usage of 'if statement' and repeating block.



## **Class Project - Session 3**

#### 1. You have 15 minutes to run commands below:

- 1. Upload .sb2 file to https://scratch.mit.edu:
  - a) Do the following from your working directory from last session (Session 2): git pull origin master
  - b) Find a file called CSH1F2\_2018\_Session3\_Class-Project.sb2 and upload it to Scratch editor with this menu: File > Upload from Your Computer
  - C) Select Ball Sprite in Scratch (on the bottom left on Scratch editor screen) and solve the scrambled pieces of code (on the right side of Scratch editor screen)
- 2. Check the status of your repository with this: git status
- 3. Check the commit history in your repository with this: git log --oneline
- 4. Create your branch in local repository dan enter to the branch: git checkout <your\_student\_id>
- 5. Submit Class Project file (.sb file for Scratch) with these series of commands:
  - a) Download Scratch Stuff with this menu: File > Download to Your Computer
  - b) Save file as CSH1F2\_2018\_Session3\_Class-Project\_<your\_student\_id>.sb2
  - C) Add the file to local repository: git add CSH1F2\_2018\_Session3\_Class-Project\_<your\_student\_id>.sb2
  - d) Commit the file to local repository : git commit CSH1F2\_2018\_Session3\_Class-Project\_<your\_student\_id>.sb2 -m "<your\_full\_name> <your\_student\_id>"
  - e) Update your work to remote repository: git push origin <your\_student\_id>



### **Bonus**

If you are on subject "Algorithm and Programming", you can also check this project in scratch.mit.edu:

visualization of sorting algorithms: https://scratch.mit.edu/projects/149793697/#

primality testing algorithm: https://scratch.mit.edu/projects/94519097/

string search algorithm:

https://scratch.mit.edu/projects/107691199/

Other Scratch-similar application is "Minecraft Hour of Code " (<a href="https://code.org/mc">https://code.org/mc</a> or install offline). You can play until minimum level 7 or up to level 15 to understand algorithm.



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