

# Speaking of Git VCS

## Basic Information

- Lecturer: Mr. Junru Zhong
- Biography:
- Length: 1 hour
- Date & Time: 12:00-13:00, Dec 15, 2017
- Language: Chinese
- Pre-requirement: Install Git software first, bring your laptop. (Installing instruction will be provided later)
- Last modification: Dec 3, 2017

## Outline

- History, purpose of version control system
- History of Git
- Concept clarify: Git & GitHub
  - Git: A version control system
  - GitHub: A company / website provides Git repository hosting
- **Git Workflow**
  - Distributed repository model vs. *centralized model*
  - **Main steps**
    - Initialize a Git repository: `git init`
      - *Remember to add a .gitignore file.*
    - Modify some file
    - Stage changes `git add .`
      - See difference `git diff`
    - Commit changes `git commit`
      - Write commit message
      - *Principles of commits*
    - Push changes to remote `git push`
      - Set up remote repository
      - Tell me about you
  - Collaborating with people
    - Using GitHub
    - Forks, issues, pull requests

- Handling conflicts
- More than main steps
  - Tracking status `git status`
  - Find out what's new `git pull`