

COM5507 Social Media Data Acquisition and Processing

Week 1c. Tools Installation

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Getting started: Tools

1. Talking to your computer: Command line interface (CLI)
2. Text Editor: Atom, or Sublime Text, or [others](#)
3. Platform for publishing and socializing: Git and GitHub, and Markdown language
4. The tool: Python 3.x and Jupyter Notebook

Command Line Interface (CLI) basics

- Open CLI: spotlight search – “terminal”
- An interesting [tutorial](#)
- Basic commands of CLI:
 - pwd
 - date
 - mkdir
 - echo
 - ls
 - cd
 - touch
 - cp
 - rm
 - mv
 - clear

Git

- Git is a “version control system”: records changes to a file or set of files over time and users can recall specific versions later.
 - Useful for collaboration project
 - Git: Linux, a popular version control system
- [Download](#) and install Git
- Setting up your Git account
 - `git config --global user.email "your@email.com"`
 - `git config --global user.name "your name"`

GitHub

- GitHub is a web-based hosting service for software development projects that use Git version control system.” (Wiki)
- Push and pull
- Public repositories
- The social aspects of GitHub (share, fork, star)
 - A profile that shows your portfolio

GitHub

- Creating your GitHub repository (“repo”)
 - Creating your own repo (with a Readme file)
 - “Fork” another user’s repository
- Creating a local copy
- Clone the Repo
- Pull request and collaborative projects

Git and GitHub Tutorials

- Official [help page](#)
- A good [tutorial](#) on Git version control in general
- [Tutorial](#): Setting up your own webpage on GitHub
- [Tutorial](#): Git and GitHub for personal usage

Text Editor

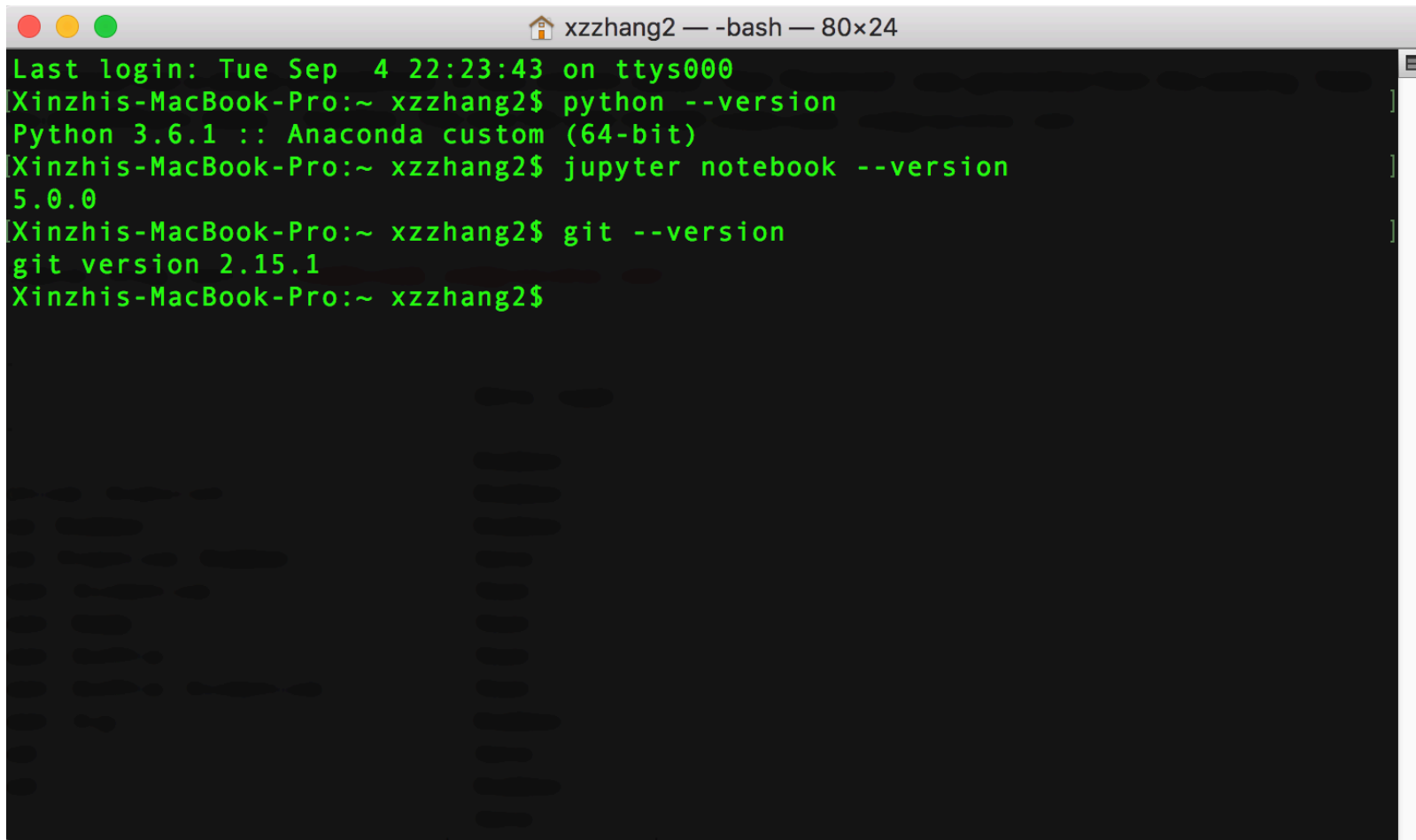
- [Atom](#) ([A very cool trailer](#))
- [Sublime Text](#)
- [Notepad ++](#)

Markdown language

- filename.md
- Markdown language quick guide [[Link](#)]
- Work with markdown language
 - Atom Preview
 - A small example [[cucn DDJ workshop](#)]
 - A much more professional one [[Tour to Python](#)]

Installing Python and Jupyter Notebook

- Python 3.x
 - [Python downloading](#)
- Jupyter Notebook (based on Anaconda)
 - [Anaconda](#)
 - [Jupyter Notebook documents](#)



```
xzzhang2 — -bash — 80x24
Last login: Tue Sep  4 22:23:43 on ttys000
Xinzhis-MacBook-Pro:~ xzzhang2$ python --version
Python 3.6.1 :: Anaconda custom (64-bit)
Xinzhis-MacBook-Pro:~ xzzhang2$ jupyter notebook --version
5.0.0
Xinzhis-MacBook-Pro:~ xzzhang2$ git --version
git version 2.15.1
Xinzhis-MacBook-Pro:~ xzzhang2$
```

check your existing versions

Your first Python program

- Two ways of printing “Hello World!”
 - via CLI
 - via Jupyter Notebook
- `import this`
- `import antigravity`

Week 1 Activities

- See the attachment
(COM5507_W1_20180907).