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# Machine Learning

## General Tutorial

MLTAs  
ntumlta2019@gmail.com

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# Outline

- Github Setup
- OS rules
- Virtual Environment

# Github Setup



- Github Sign Up

- 請使用ntu信箱辦理帳號 [\[link\]](#)
  - 申請Github Education較方便(才能免費使用 private功能)
  - 日後還可以綁定其他常用信箱
- 請使用此帳號申請學生版附加功能 [\[link\]](#)
  - 點選右上角 Join Github Education
  - 勾選 Student/Individual account
  - 勾選 ntu 信箱
  - 在How do you plan to use Github? 填寫 "For NTU Machine Learning Lecture"
  - 點選 Submit Request (通常需要一到三天時間)

# Github Setup

- New Repository
  - 請將repo命名為 **ML2019SPRING**
  - 請將權限設定為 **private**
  - 若命名或者權限有任何問題將可能導致作業 0分, 請務必注意
- Add Collaborator
  - 請將助教帳號加入該 repo 的 collaborator
  - 助教帳號為: **ntumlta2019**
- Fill the Repo Form
  - 請在 2/24 Sun. 23:59:59 前填寫完畢
  - github repo url 請填 HTTPS
  - [Github Repo表單](#)

# Github Setup

## Create a new repository

A repository contains all project files, including the revision history.

Owner

 hyes92121 ▾

Repository name \*

ML2019SPRING ✓

Great repository names are short and memorable. Need inspiration? How about **animated-meme**?

Description (optional)

☐

**Public**

Anyone can see this repository. You choose who can commit.

☒

**Private**

You choose who can see and commit to this repository.

☐

**Initialize this repository with a README**

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: **None** ▾

Add a license: **None** ▾



Create repository

# Github Setup

The screenshot shows the GitHub repository creation interface. At the top, the navigation bar includes links for Code, Issues, Pull requests, Projects, Wiki, Insights, and Settings. The 'Settings' link is highlighted with a red box. Below the navigation bar, the 'Quick setup' section is titled 'Quick setup — if you've done this kind of thing before'. It features a row of options: 'Set up in Desktop', 'or', 'HTTPS', 'SSH', and a text input field containing 'https://github.com/' and '/ML2019SPRING.git'. The 'HTTPS' option is highlighted with a red box. To the right of this row is a repository icon, also highlighted with a red box. Below the 'Quick setup' section, there are three main sections for creating a new repository: 1. '...or create a new repository on the command line' with a code block containing: 

```
echo "# ML2019SPRING" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin https://github.com/ /ML2019SPRING.git
git push -u origin master
```

 2. '...or push an existing repository from the command line' with a code block containing: 

```
git remote add origin https://github.com/ /ML2019SPRING.git
git push -u origin master
```

 3. '...or import code from another repository' with a sub-header 'You can initialize this repository with code from a Subversion, Mercurial, or TFS project.' and an 'Import code' button.

Navigation: <> Code | Issues 0 | Pull requests 0 | Projects 0 | Wiki | Insights | **Settings**

**Quick setup — if you've done this kind of thing before**

Set up in Desktop or **HTTPS** SSH `https://github.com/ /ML2019SPRING.git`

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

**...or create a new repository on the command line**

```
echo "# ML2019SPRING" >> README.md
git init
git add README.md
git commit -m "first commit"
git remote add origin https://github.com/ /ML2019SPRING.git
git push -u origin master
```

**...or push an existing repository from the command line**

```
git remote add origin https://github.com/ /ML2019SPRING.git
git push -u origin master
```

**...or import code from another repository**

You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

[Import code](#)

# Github Setup

[Options](#)

**Collaborators**

[Webhooks](#)

[Notifications](#)

[Integrations & services](#)

[Deploy keys](#)

## Collaborators

Push access to the repository

This repository doesn't have any collaborators yet. Use the form below to add a collaborator.

### Search by username, full name or email address

You'll only be able to find a GitHub user by their email address if they've chosen to list it publicly. Otherwise, use their username instead.

Add collaborator



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# Github Tutorial

- <https://github.com/hyes92121/ml-tutorial/tree/master/github>



# OS rules

- Please use OSX (MAC OS) or linux as your operating system in this class.
- Windows is not prohibited but is strongly discouraged and the student should take full responsibility for any consequences.
- Questions on how to install linux on a windows machine can be found on Google. The TA's will not teach you how to install linux.

# Virtual Environment

- Each year, there are students importing prohibited modules and causing them to lose points.
- So this year we are trying something new.
- For each HW, we will release the exact grading environment using Miniconda.
- More information can be found here. [\[link\]](#)

# Virtual Environment

- Note that this mechanism is NOT a guarantee that your code will run successfully on our machine but merely a sanity check.
- Any error occurrence while executing your code on our machines will still receive a penalty.
- This is the first time we are experimenting with this, so the TA's reserve the rights to make the final decision regarding any unexpected events.

# Virtual Environment Tutorial

[Virtual Environment Tutorial](#)