Course Policy

GeoComput & ML

2021-04-08 Thur

GeoComputation

Linux environment

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- Geo computational tools : gdal/ogr, pktools, grass, etc.

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GeoModelling

GeoMath

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GeoModelling

- GeoMath
- GeoStats
- GeoCoding

• HW available

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- HW solutions available

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- Completion at your will

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- No grading/comments unless under request

Course Project

required for evaluation : pass or fail

Format

- written report : jupyer-notebook and its pdf
- oral defense (30 min): 20 min presentation + 10 min Q&A

Basic content

- project description
- data acquisition, operation and exploration
- model construction, evaluation, selection and interpretation
- final delivery

Grading

- report, by instructors : 60%
- oral defense, by instructors and peers : 40%

Communications

- slack channel
- additional meetings, by appointment only

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Example

```
$ cd ~/SE_data
```

- \$ ls -a
- . .. exercise .git lectures README.md

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. .. exercise .git lectures README.md

Basic Practice

- only the first time
- \$ cd; git clone https://github.com/selvaje/SE_data
- # (source copy, no work inside here)
- \$ cp -r ~/SE_data /media/sf_LVM_Shared/my_SE_data
- # (working copy for yourself, taking notes, etc.)

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Basic Practice

\$ cd ~/SE data

routine after the first time

```
$ git pull # (sync. w/ server)
$ rsync -hvrPt --ignore-existing ~/SE_data/* \
   /media/sf_LVM_Shared/my_SE_data
#(sync. only new files)
$ cd /media/sf_LVM_Shared/my_SE_data # (work here)
```

- Common practice to separate source and working copies
- Important : NOT working in the source copy

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- good for professional development
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Initialisation

```
$ mkdir my_Project ; cd my_Project
$ git config --global user.name "your name"
$ git config --global user.email "your email"
$ git init
Initialized empty Git repository in ...
$ ls -a
. . . . git
```

Add files \$ touch README.md \$ git status Untracked files: (use "git add <file>..." to include in what will be committed) R.E.A.DME., md \$ git add README.md ; git status Changes to be committed: (use "git rm --cached <file>..." to unstage) new file: README.md \$ git commit -m "added README" ; git status nothing to commit, working tree clean

Modify file contents

```
$ echo -e "Project for BIO401-01/598-02\n" > README.md
$ git status
(use "git add <file>..." to update what will be committed)
modified: README.md

$ git add README.md ; git commit -m "modified README"
[master 002362a] modified README
1 file changed, 2 insertions(+)
$ git status
nothing to commit, working tree clean
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1 file changed, 2 insertions(+)
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nothing to commit, working tree clean
```

Move or remove files

```
$ git mv <old file> <new file>
$ git rm <filename>
remember to commit after mv or rm actions
```

Link repo to GitHub

create a GitHub account
create a repo on GitHub
follow the instructions on the GitHub setup page

- \$ git remote add origin git@github.com:/your/project
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ref: Git version control training