Recap:
Git - Python

2018-10-05

Git
On 3 Slides

BASH BASICS:

- **cd**: Change current work directory

- **ls**: List files in current work directory

- **pwd**: Print current work directory to command line

- **git:** Operate git for repository of current work directory

GIT BASICS:

Github server

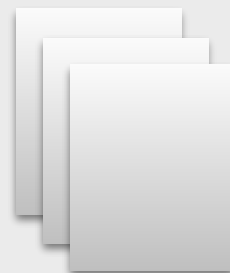Remote repository

Local repository

Pull | Push

Local computer

Checkout (…) | Commit (…)

Files

GIT BASICS:

Cloning an existing project
$ git clone [URL]

Creating a new project
$ git init

Editing your files

Adding new files to repo
$ git add [filename]

Commit all new files
$ git commit -a -m "Useful message"

Accept merge message in vim
by typing **:wq** and **RETURN**

Updating the local repo ("pulling")
$ git pull

Updating the remote repo ("pushing")
$ git push

Python
On 1 Slide

PYTHON BASICS:

- **Variable declarations**
  variable **=** value

- **Data types**

  - **Floats**   **-2.342**

  - **Integers**   **1234**

  - **Booleans**   **True** and **False**

  - **Strings**   **"string"** or **'string'**

  - **Lists**   **[**item0 **,**item1**,** item2**]**

  - **Dictionaries**   **{**"key1"**:** item1**,** "key2"**:** item2**}**

- **Functions**
  def function**(**argument1**,** argument2**):**

    ...

      return return_value

- **Operators**

- **Arithmetics**   **+**, **-**, *****, **/**, **//**, ******, **%**

- **Comparisons**   **==**,**!=**, **>**, **<**, **<=**, **>=**

- **Membership**   **in**, **not in**

- **Logical**   **and**, **or**, **not**

- **If-statements**
  if condition**:**

    ...
  else:

    ...

- **For-Loops**
  for item **in** iterable**:**

    ...

  and While-Loops
  while condition**:**

    ...

- **Import** **import** package

1) Jupyter Demo
2) Numpy, Matplotlib,
And Magic
3) Exercise