Git Branch

June 19, 2016

1 1. Git Branches

a branch is a copy of your code that you can change without affectng the original code. you can go back
and forth.

```
In [ ]: cd 'C:\Users\hrli1\Desktop\2016 Summer\INFO W18\week 3\Unit 5>'
        mkdir branch_demo
        cd .\branch_demo\
        touch namegame.py
        # do some coding in namegame.py
        /%
        name = input("Enter your name: ")
        for i in range(len(name), 0 ,-1):
            print( name[0:i], end = " ")
        %/
        git init  # create a new git repository
        git add *.py # this means everthing with .py should be added
        git commit -m "Added first file"
        # do some coding again in namegame.py
        /%
        name = input("Enter your name: ")
        for i in range(len(name), 0 ,-1):
            print( name[0:i], end = " ")
            for j in range(i, len(name)):
                print(" " * (j-i) + name[j], end="")
            print("")
        %/
        git commit -a -m "added letters that spread out"
        # now lets creat another branch named line_arg!
        git checkout -b line_arg
        git branch  # this checks which branch am I working on right now
        /%
        import sys

        if len(sys.argv) > 1:  # this nice thing will pass the first thing right
            name = sys.argv[1] # after the call of the program into the variable
        else:                  # name, if there is no, then prompt the user to input
            name = input("Enter your name: ")

        for i in range(len(name), 0 ,-1):
            print( name[0:i], end = " ")
            for j in range(i, len(name)):
                print(" " * (j-i) + name[j], end="")
```

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```
    print("")
%/
git commit -a -m "added command line input"
# now we like the changes and we
# want all our changes back on our master brance, now we need to merge them
git checkout master # we need to first go to the branch we want to merge
                    # notice when you do this, adam noticed it and will change
                    # the contant of the file! very cleaver
git merge line_arg  # merge the change into the master branch! we are done!
```