

A banner for Pi Day @ NIH. The background is dark blue with a pattern of white numbers. The text "3.14159" is in yellow. "PI" is in large orange letters, "DAY" is in large light blue letters, and "@NIH" is in large light blue letters. To the right of "DAY", it says "MAY 18, 2017" and "NIH Clinical Center Building 10" in yellow.

3.14159

PI DAY @NIH

MAY 18, 2017  
NIH Clinical Center  
Building 10

Workshop on Reproducible Research

Open and Reproducible Science Using Python and GitHub

2:30 p.m. - 4:30 p.m., NIH Library Training Room, Building 10

```
mkdir piday_lesson
```

```
git config --global color.ui "auto"  
git config --global user.name "USERNAME"
```

```
git config --global core.editor "nano -w"  
git config --global user.email "email"
```

```
git config --list
```

```
nano generate_figure.py
```

```
# Copy/Paste the following into generate_figure.py
```

```
# coding: utf-8  
import matplotlib as mpl  
mpl.use('Agg')  
import seaborn as sns
```

```
df = sns.load_dataset('tips')  
seaborn_plot = sns.pairplot(df, hue = 'sex', kind = 'reg')
```

*# back in the command line...*

```
git init
git status
git add generate_figure.py
git commit -m "Add geynerate_figure.py"
git log
```

*nano generate\_figure.py*

*# Add the following line to generate\_figure.py*  
*seaborn\_plot.savefig('pairplot.png')*

*# back in the command line...*

```
git status
git add generate_figure.py
git commit -m "Save our plots"
```

```
python generate_figure.py
ls
git add pairplot.png
git commit -m "add plot"
git status
```

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

Adam & John on Github:

- <https://github.com/agt24>
- <https://github.com/leej3>

For more practice on Github, check: [try.github.io](https://try.github.io).