

Pandas

Purpose of Lab

The purpose of this lab is to help you understand pandas

Lab Deliverables

Please upload your code Lab7.py, along with the us_presidents.csv file. Also, please upload a file called comments.txt that answers the following questions:

1. How was this easier than the previous lab which looked at the presidential data?
2. How was this harder than the previous lab which looked at the presidential data?
3. In what ways do you think Pandas would be helpful in your major or job?
4. If you worked in a group, please note the contributions that you made to the code . If you did not, please write “I worked by myself.”

Lab

We will be revisiting the presidents.csv file from earlier in the semester. DO NOT USE THE PREVIOUS CSV FILE. I have cleaned the dates so that the file only contains years – not dates as well.

Create a function that will take a start year and an end year, and output the presidents that have served during that time. Also, there are five parties that are in the CSV file: Nonpartisan, Whig, Democratic-Republican, Republican, and Democratic. Count the number of presidents in each party, and output a list of presidents that served during that time.

HINT 1: You can find how many lines are in a dataframe df by calling len(df)

HINT 2: You can create a list from a Pandas column c by calling df['c'].to_list(). Be sure that the name of the column is in quotes.

```
Please enter start year: 1959
Please enter end year: 2009
['Dwight D. Eisenhower', 'John F. Kennedy', 'Lyndon B. Johnson', 'Richard Nixon',
 'Gerald Ford', 'Jimmy Carter', 'Ronald Reagan', 'George H. W. Bush', 'Bill Clinton',
 'George W. Bush', 'Barack Obama']
Nonpartisan 0
Whig 0
Democratic-Republican 0
Republican 0
Democratic 5
```

```
Please enter start year: 1789
Please enter end year: 1860
['George Washington', 'John Adams', 'Thomas Jefferson', 'James Madison', 'James
 Monroe', 'John Quincy Adams', 'Andrew Jackson', 'Martin Van Buren', 'William Henry
 Harrison', 'John Tyler', 'James K. Polk', 'Zachary Taylor', 'Millard Fillmore',
 'Franklin Pierce', 'James Buchanan']
Nonpartisan 1
Whig 4
Democratic-Republican 4
Republican 0
Democratic 5
```