Reading & Discussion: Pandas Basics

TASK

Your task for this discussion is to read the first two sections of chapter 3, [Data Manipulation With PandasLinks to an external site.](https://jakevdp.github.io/PythonDataScienceHandbook/03.00-introduction-to-pandas.html). This can be found in the link provided or the [pdf version of the textbook](https://elearning.mines.edu/courses/52392/files/5459013/download?wrap=1)[Download pdf version of the textbook](https://elearning.mines.edu/courses/52392/files/5459013/download?download_frd=1)for the class that we have provided. You will then post a discussion and a reply below!

DISCUSSION REQUIREMENTS

Once you have completed this weeks reading, you are asked to complete the following tasks:

1. Post a 1-2 sentence response from the reading for 2 of the three below prompts:

a. What is a Pandas Data frame and what are they built off of? (Describe one!)

b. If my data frame called 'df' has columns ['date', 'time', 'month'] how to I only get the 'month' column? Why might this be useful?

c. Provide a free-response: this can be anything from clarification questions, something that piqued your interest, or maybe a personal experience you have with what was discussed in the book section.

2. Post a meaningful reply to another student's question/post.

# **Instructional Videos & Learning Materials: Pandas Basics**

## WATCH

Watch this week's video, download the working files so you can follow along and experiment with the platform we'll be using for the course.

**Pandas Basics Video**

WORKING FILES

You will need the following files to get set up for this week. They include the following:

* Jupyterhub notebook (download to a personal device then upload to your Jupyterhub). Also, download the image and place it in the same directory in your Jupyterhub notebook.
  + [Pandas Basics](https://elearning.mines.edu/courses/52392/files/5459244/download?wrap=1)[Download Pandas Basics](https://elearning.mines.edu/courses/52392/files/5459244/download?download_frd=1)
  + [Supporting Image](https://elearning.mines.edu/courses/52392/files/5459017/download?wrap=1)[Download Supporting Image](https://elearning.mines.edu/courses/52392/files/5459017/download?download_frd=1)
* PDF files that contains the same information as the Jupyterhub notebooks, in case your Juypterhub is not yet working.
  + [Pandas Basics PDF](https://elearning.mines.edu/courses/52392/files/5459240/download?wrap=1)[Download Pandas Basics PDF](https://elearning.mines.edu/courses/52392/files/5459240/download?download_frd=1)

ADDITIONAL RESOURCES

The links below are supplementary resources to help you review or strengthen the topics we have discussed:

* [Pandas Cheat Sheet](https://elearning.mines.edu/courses/52392/files/5459053/download?wrap=1)[Download Pandas Cheat Sheet](https://elearning.mines.edu/courses/52392/files/5459053/download?download_frd=1)
* [10 Minute Intro to PandasLinks to an external site.](https://pandas.pydata.org/pandas-docs/stable/user_guide/10min.html)
* [Pandas Indexing and SelectionLinks to an external site.](https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html)