# Create the years an years = [2011,2012,20 durations = [103, 101 # Create a dictionary movie_dict = {'years' # Print the dictionar movie_dict 4]: {'years': [2011, 2012, 'durations': [103, 10] 2. Creating a Da To convert our dictionary moves want to inspect our DataFrance in the period of the convert our dictionary moves want to inspect our DataFrance in the period of the pe	13,2014,2015,2016,2	oy creating a Pyt	start would be the thon object cove	ars from 201 to probably :	start working	n a first crack at pelieve that the and the and the average movies with pandas . on: a dictionary!	average e duratio But first
# Import pandas under import pandas as pd # Create a DataFrame durations_df = pd.Dat # Print the DataFrame durations_df.head()	y 2013, 2014, 2015, 1, 99, 100, 100, 95 taFrame from vie_dict to a pandas ne to ensure it was creat its usual alias from the dictionary aFrame (movie_dict)	95, 96, 93, durations} 2016, 2017, 2 , 95, 96, 93, a diction DataFrame, we ed correctly. Let	90] 2018, 2019, 2 , 90]} ary e will first need t	to import the		er its usual alias.	We'll als
o 2011 103 1 2012 101 2 2013 99 3 2014 100 4 2015 100 3. A visual inspectable of the data. Given that the data is conting in minutes along the y-axis. but matploblib.pyplot is note: In order for us to correct provided in the cell below. You import matplotlib.pyplicity fig = plt.figure() # Import matplotlib.pyplot is plt.plot(durations_df # Create a title plt.title("Netflix Model of the plt.show()	nd's assertion that movie dous, a line plot would be this will allow us to easily sone of the most commently test your plot, you will u can continue to create yplot under its usual of as plt release_years and a ['years'], durations	e lengths have be lengths have be a good choice by spot any trend on packages to a large length of the length of t	e, with the dates in movie durated oso. The a matpLotLine have learned in create a figurate.	represented tions. There a b. pyplot F	great place along the xare many way	to start will be a axis and the ave ys to visualize da	visualiza erage len ata in Pyt
95.0 92.5 90.0	est of the data mething to the idea that imited in the further exp including: ok like over a longer perionething like the genre of the original CSV they used the "datasets/netflix_	movie lengths holorations we can od of time? f entertainment d to perform the	CSV ave decreased on perform. There refer analyses, they t's create another	e are a few que gladly oblig er DataFrame	uestions abo le and send i e, this time w	ut this trend tha t. We now have with all of the dat	t we are access to a. Given
rows. # Read in the CSV as netflix_df = pd.read_ # Print the first fiv netflix_df.head()	a DataFrame csv('datasets/netfl. e rows of the DataF. director João Migue NaN Comparato	ix_data.csv') rame cast count el, Bianca b, Michel Brace bomes, R r, Héctor errano, a Chung, wrence Singapo l, John C. Unit connelly State sss, Kevin Unit	date_added August 14, 2020 December 23, 2016 December 20, 2018 Red November 16, 2017 Red January 1,		duration 4 t 93 78 80	description In a future where the elite inhabit an island After a devastating earthquake hits Mexico Cit When an army recruit is found dead, his fellow In a postapocalyptic world, rag-doll robots hi A brilliant group of students become card-coun	g Internat Dra A
5. Filtering for modes, we have our data! Now Or can we? Looking at the first TV shows in the dataset! Modes the row is a movie or a show Fortunately, a DataFrame allowing information from all of the conformation from all of the conformation from all of the conformation from the confor	we can dive in and star st five rows of our new I reover, the duration of (perhaps the number of ows us to filter data quick clumns, so let's create a cion . skills to work! e for type "Movie" y = netflix_df[netf. umns of interest bset =netflix_df[['']] e rows of the new Down of the	DataFrame, we not column we plant from the series where the series with the series where the series were and the series where the series where the series where the series where the series was also as a series where the series where the series was also as a series where the series was also as a series where the series was a series wher	notice a column ned to use seems the number of s select rows when netflix_movi	s to represer seasons)? re type is les containi	Movie . Whi	alues depending le we're at it, we :le , country ,	on whe
1 2 3 4 7782 7783 7784 7785 Z 7786 ZZ TOP: THAT LITTLE OL: 7787 rows × 5 columns 6. Creating a sca	Zozo Zubaan Zulu Man in Japan Jumbo's Just Desserts BAND FROM TEXAS Unite	Brazil Intern Mexico Singapore Hor nited States nited States Sweden India NaN Doce Australia Intern d Kingdom Doce he raw data, sele	Dramas Action Dramas Dramas Dramas Dramas umentaries national TV umentaries	2020 2016 2011 2009 2008 2005 2015 2019 2019 2019	4 93 78 80 123 99 111 44 1 90	ur DataFrame to	our colu
This time, we are no longer was let's try a scatter plot insternation. Note: Although not taught in size of the plot (to help you so matplotlib) figure, referred. # Create a figure and fig = plt.figure(figs # Create a scatter pl plt.scatter(data=netf # Create a title plt.title("Movie Dura # Show the plot plt.show()	vorking with aggregates ead. We will again plot the Intermediate Python, we see the results), as well as a to the documentation. increase the figurative (12,8)) of of duration verselix_movies_col_subsection by Year of Release.	but instead with ne year of releas have provided y to assist with tes e size us year et , x ="rele ease")	n individual move on the x-axis a you the code fig	ies. A line pland the moving = plt.fi information of	e duration o gure(figsi n how to cred	n the y-axis. ze=(12,8)) to	increase
250 200 150 100 50	1940	1960	1980		2000		2020
7. Digging deep This is already much more in newer movies are overrepress Upon further inspection, son a duration under 60 minutes and duration under 60 minutes and duration short_movies = netflice # Print the first 20 short_movies.head(20) 6]: 0 5 11 12 16 24 SAINT SEIY	formative than the simple ented on the platform, renething else is going on. tes and look at the genress shorter than 60 m. x_movies_col_subset	some of these fees. This might give sees. The sees of th	ies have been re films are under a ive us some insig	leased in the in hour long ght into wha	e past two de ! Let's filter o t is dragging n'] < 60]	ecades. our DataFrame fo	or movies
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8. Marking non- Interesting! It looks as thoug "Documentaries". This is a lo We could eliminate these row genres on our data would be In Python, there are many we genre column. Much as we typical genres in a different of Note: Although we are using plots. For more information, y # Define an empty list colors = [] # Iterate over rows of	h many of the films that gical result, as these type ws from our DataFrame at to plot them, but mark ays to do this, but one fure did in Intermediate Pytheolor! the basic colors of red, blue ou can refer to the document	es of films are product the valuate them with a different way might be shon, we can then ue, green, and be mentation here!	robably often shues again. But and are rent color. To use a loop to an pass this list to lack, matplotl	orter than 90 nother interes o generate a o our plotting	O minute Hol sting way to list of colors g function in	explore the effect based on the co a later step to co	ster. ct of the ontents o olor all n
<pre># Deline an empty lis colors = [] # Iterate over rows o for lab, row in netfl if row['genre'] = colors.append</pre>	<pre>f netflix_movies_co. ix_movies_col_subser = "Children": ("red") == "Documentaries" ("blue") == "Stand-Up": ("green") ("black")</pre>	t.iterrows():					
colors.append # Inspect the first 1		st					

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