

Lab_2

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1 EE460J Lab 2

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```
[21]: import math
import numpy as np
import pandas as pd
import seaborn as sns
from matplotlib import pyplot as plt
import scipy
```

1. Correlations

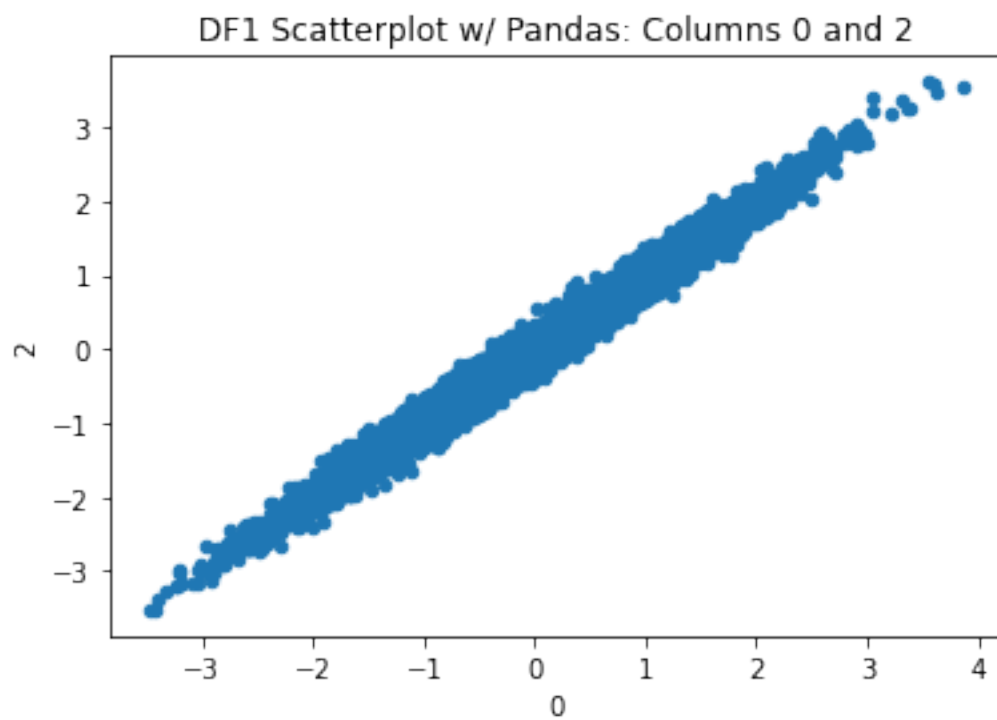
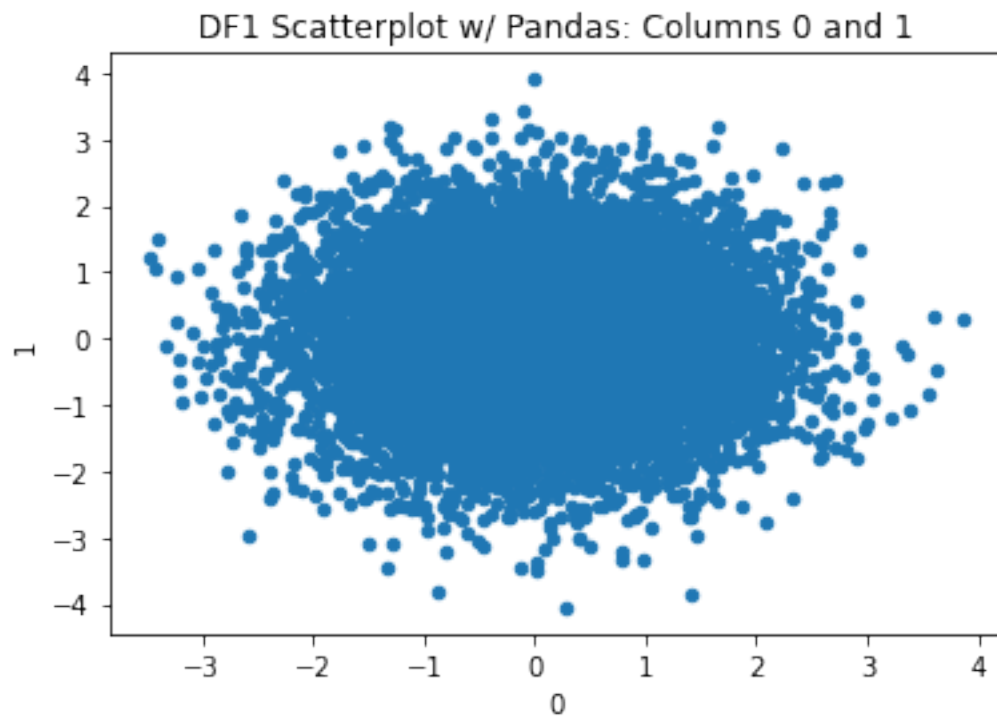
>- When given a data matrix, an easy way to tell if any two columns are correlated is to look at a scatter plot of each column against each other column. For a warm up, do this: Look at the data in DF1 in Lab2 Data.zip. Which columns are (pairwise) correlated? Figure out how to do this with Pandas, and also how to do this with Seaborn.

>- Compute the covariance matrix of the data. Write the explicit expression for what this is, and then use any command you like (e.g., np.cov) to compute the 4×4 matrix. Explain why the numbers that you get fit with the plots you got.

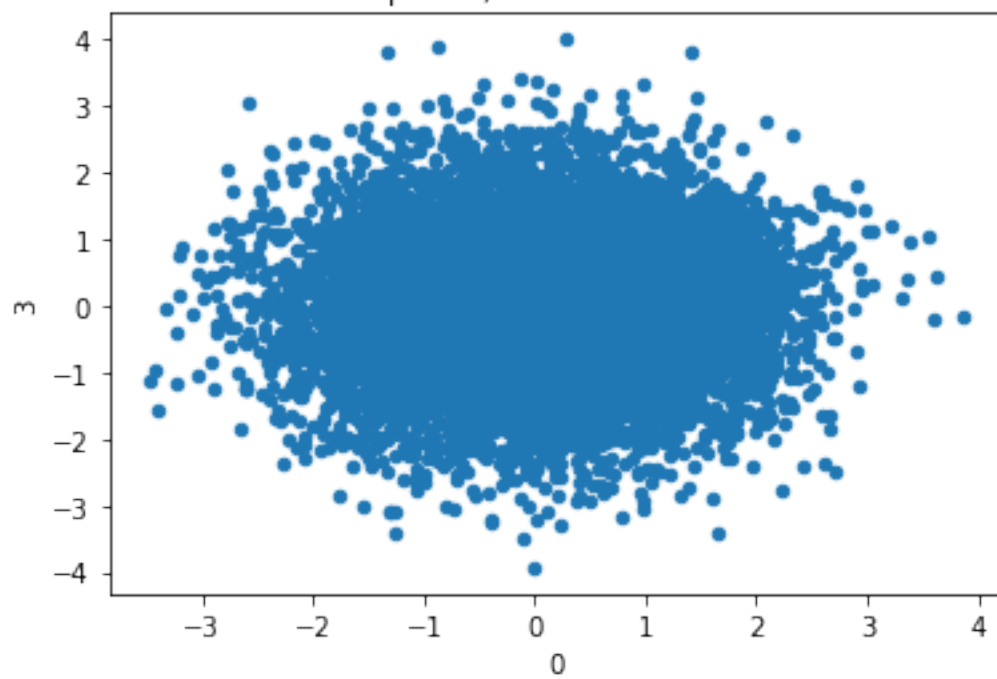
>- The above problem in reverse. Generate a zero-mean multivariate Gaussian random variable in 3 dimensions, $Z = (X1, X2, X3)$ so that $(X1, X2)$ and $(X1, X3)$ are uncorrelated, but $(X2, X3)$ are correlated. Specifically: choose a covariance matrix that has the above correlations structure, and write this down. Then find a way to generate samples from this Gaussian. Choose one of the non-zero covariance terms (C_{ij} , if C denotes your covariance matrix) and plot it vs the estimated covariance term, as the number of samples you use scales. The goal is to get a visual representation of how the empirical covariance converges to the true (or family) covariance.

```
[22]: # fetch DF1 CSV file
df_1 = pd.read_csv("DF1", header=0).iloc[:, 1:]

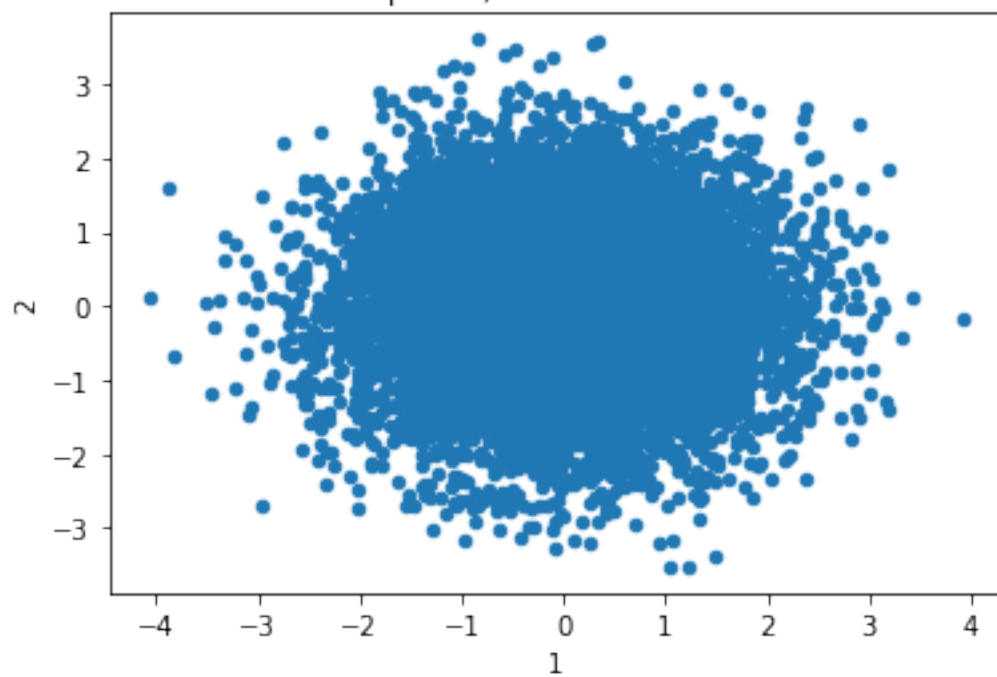
# plot with Pandas
for i in range(4):
    for j in range(i+1,4):
        df_1.plot.scatter(x=str(i), y=str(j), title=f'DF1 Scatterplot w/ Pandas:
        ↪ Columns {i} and {j}')
```

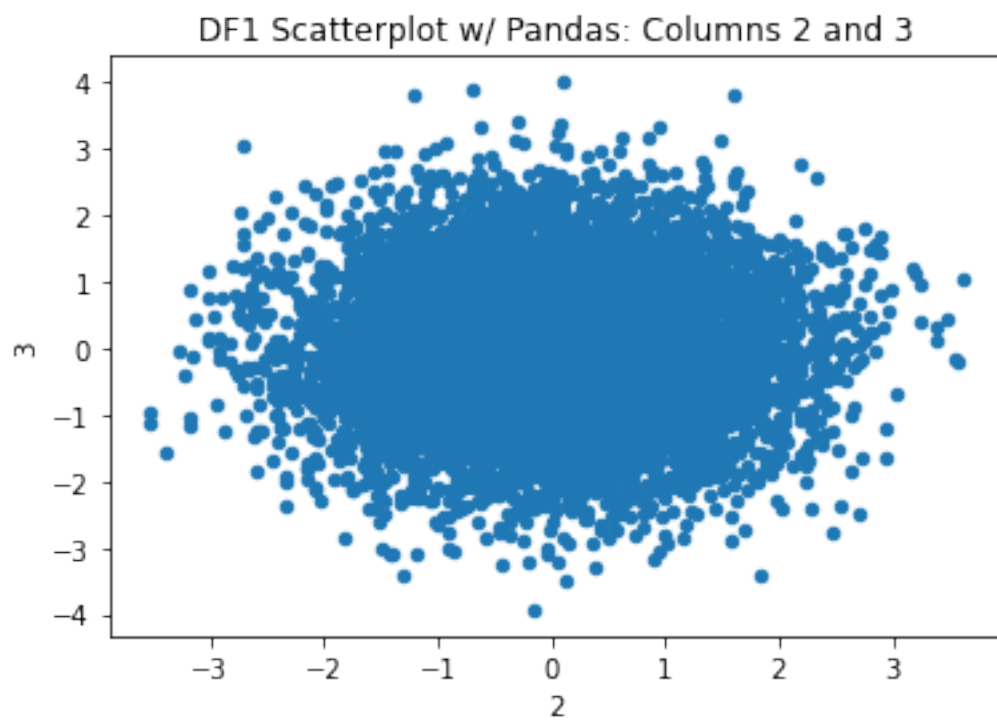
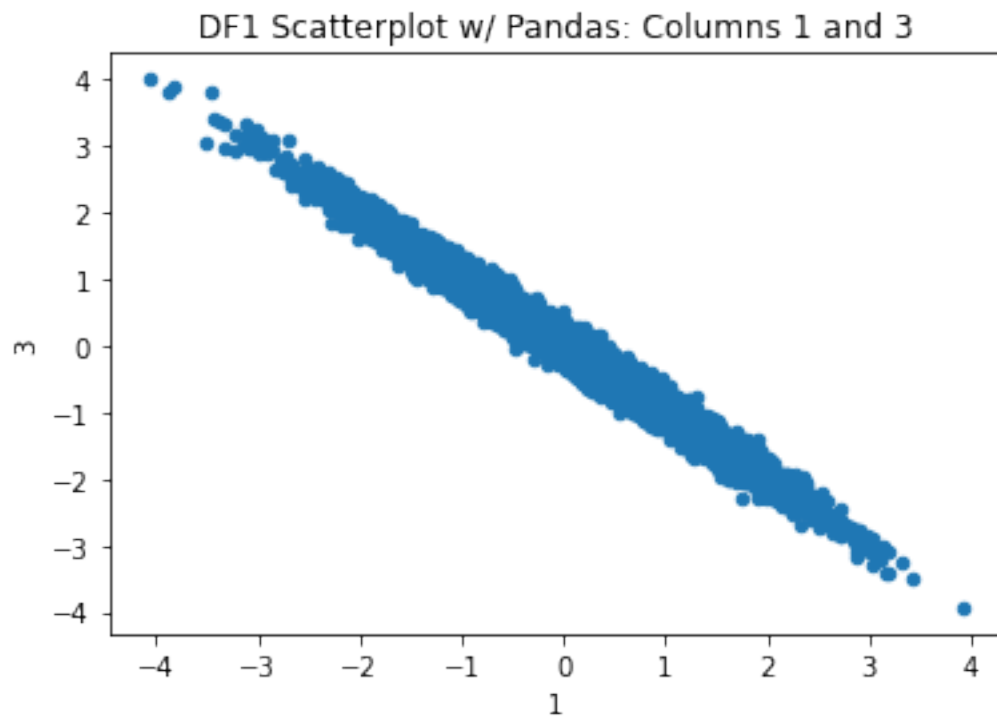


DF1 Scatterplot w/ Pandas: Columns 0 and 3

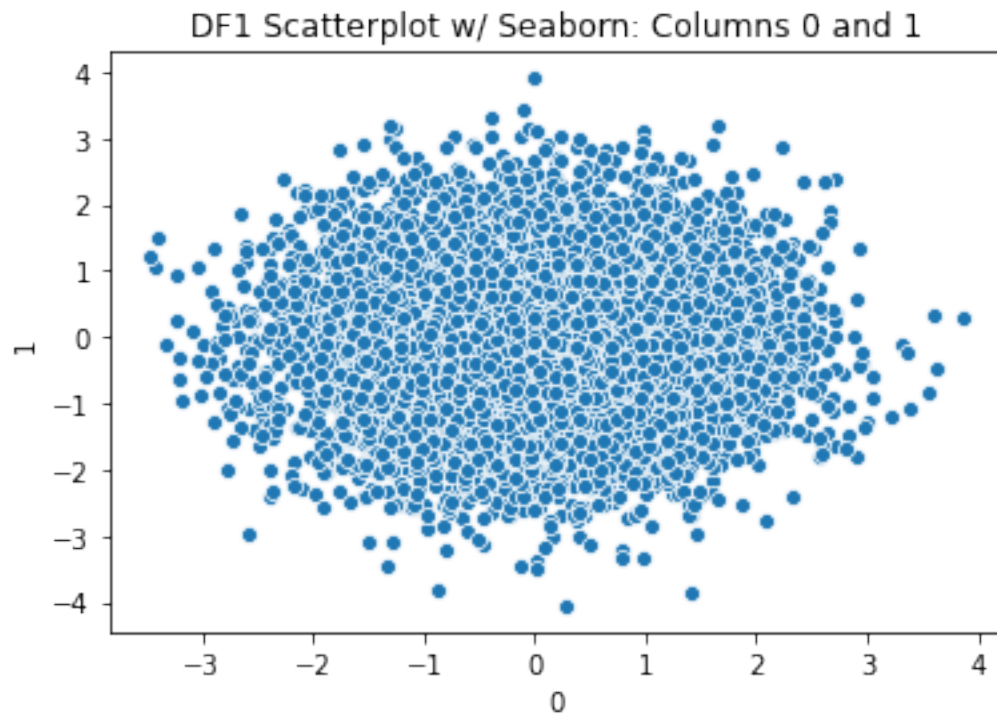


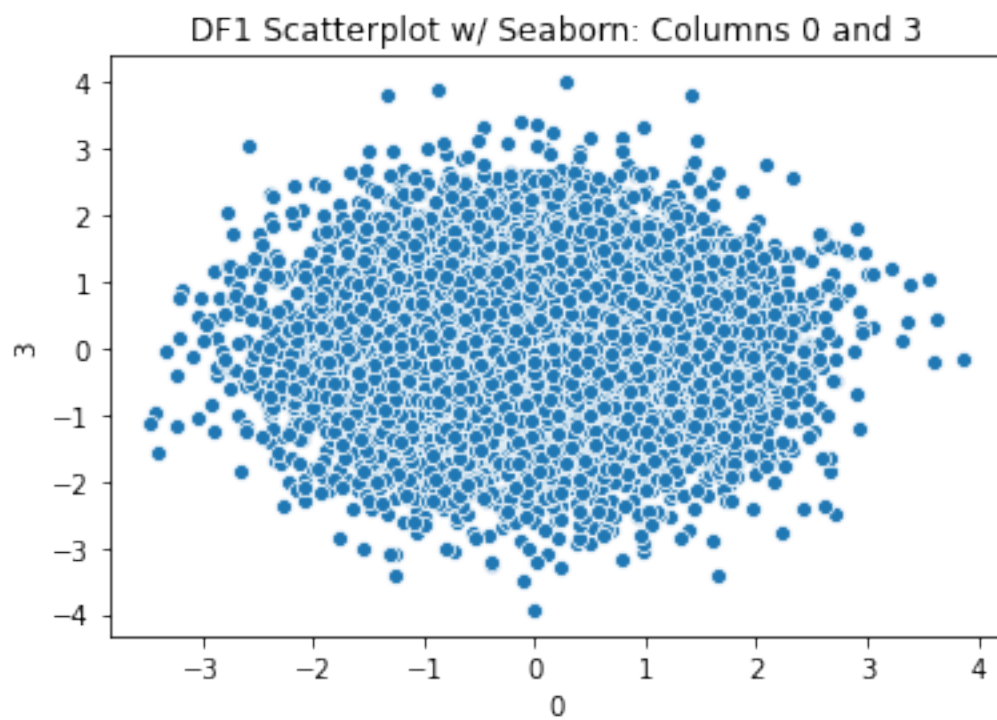
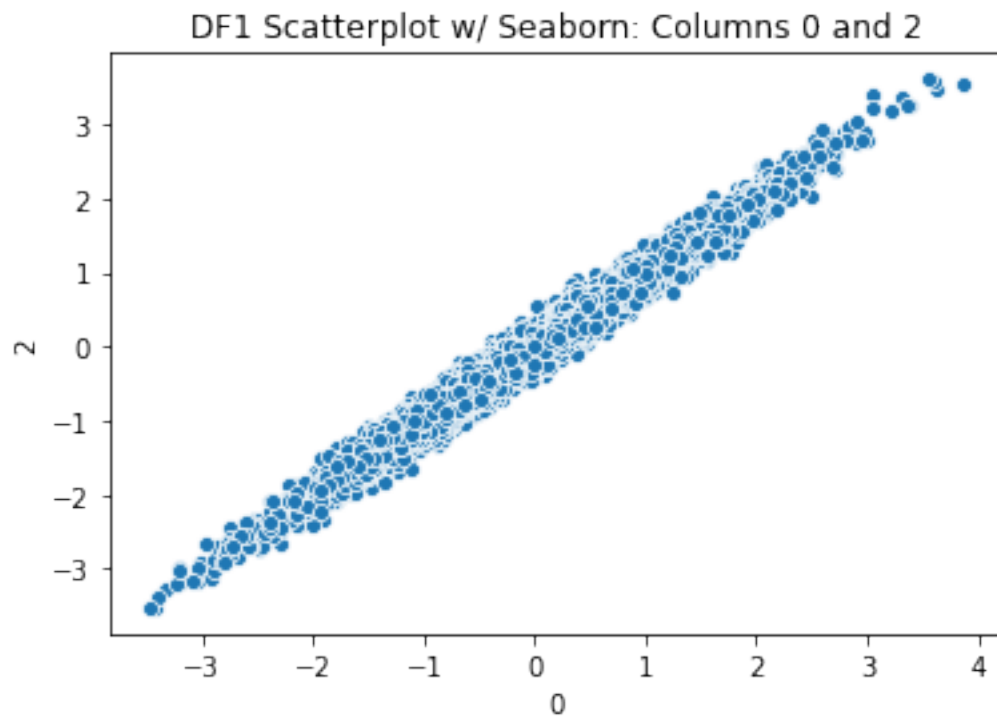
DF1 Scatterplot w/ Pandas: Columns 1 and 2

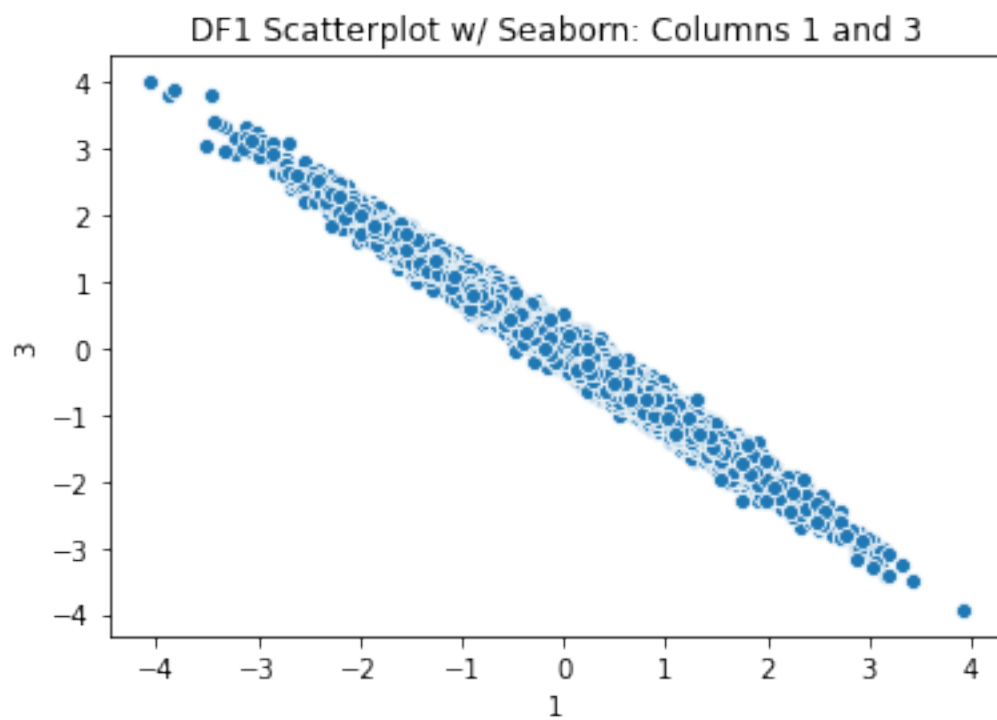
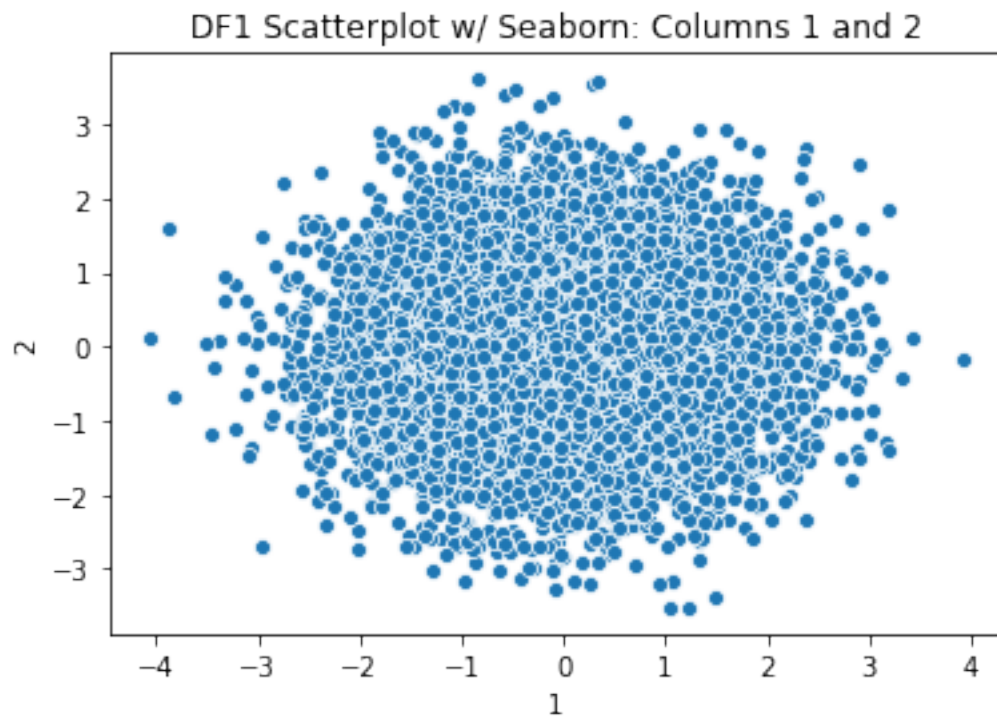


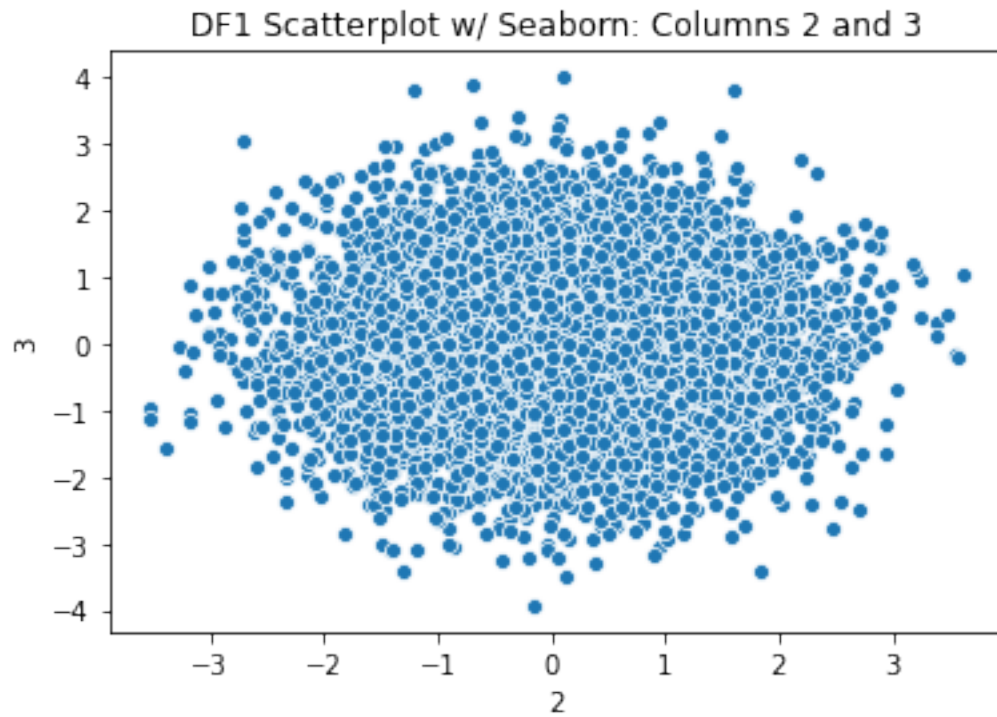


```
[23]: # plot with Seaborn
for i in range(4):
    for j in range(i+1,4):
        plt.figure()
        sns.scatterplot(data=df_1, x=str(i), y=str(j)).set_title(f'DF1_
↪Scatterplot w/ Seaborn: Columns {i} and {j}')
```









In this dataset, Columns 0 and 2 are correlated, as well as Columns 1 and 3.

```
[24]: # use Pandas covariance matrix function
cov_df_1 = pd.DataFrame.cov(df_1)
sns.heatmap(cov_df_1, annot=True, fmt='g')
plt.show()
```




The explicit expression is:

$$\begin{bmatrix} \text{var}(0) & \text{cov}(0,1) & \text{cov}(0,2) & \text{cov}(0,3) \\ \text{cov}(1,0) & \text{var}(1) & \text{cov}(1,2) & \text{cov}(1,3) \\ \text{cov}(2,0) & \text{cov}(2,1) & \text{var}(2) & \text{cov}(2,3) \\ \text{cov}(3,0) & \text{cov}(3,1) & \text{cov}(3,2) & \text{var}(3) \end{bmatrix}$$

From the covariance matrix, we can see that the covariance between Columns 0 and 2 is 0.991624 (cells [0,2] and [2,0] above), which is a large positive covariance in our matrix. This reflects the scatterplot between Columns 0 and 2, which show them as positively correlated data.

The same applies for Columns 1 and 3, which have a large negative covariance of -0.995457 (cells [1,3] and [3,1]), and are shown as negatively correlated in their scatterplot.

```
[25]: # definitions for our 3D zero-mean multivariate Gaussian RV
cov_Z = [[1.000, 0.005, -0.005],
         [0.005, 1.000, 0.995],
         [-0.005, 0.995, 1.000]]
mean_Z = [0, 0, 0]

# lists to use for plotting
cov_results = []
samples_list = []

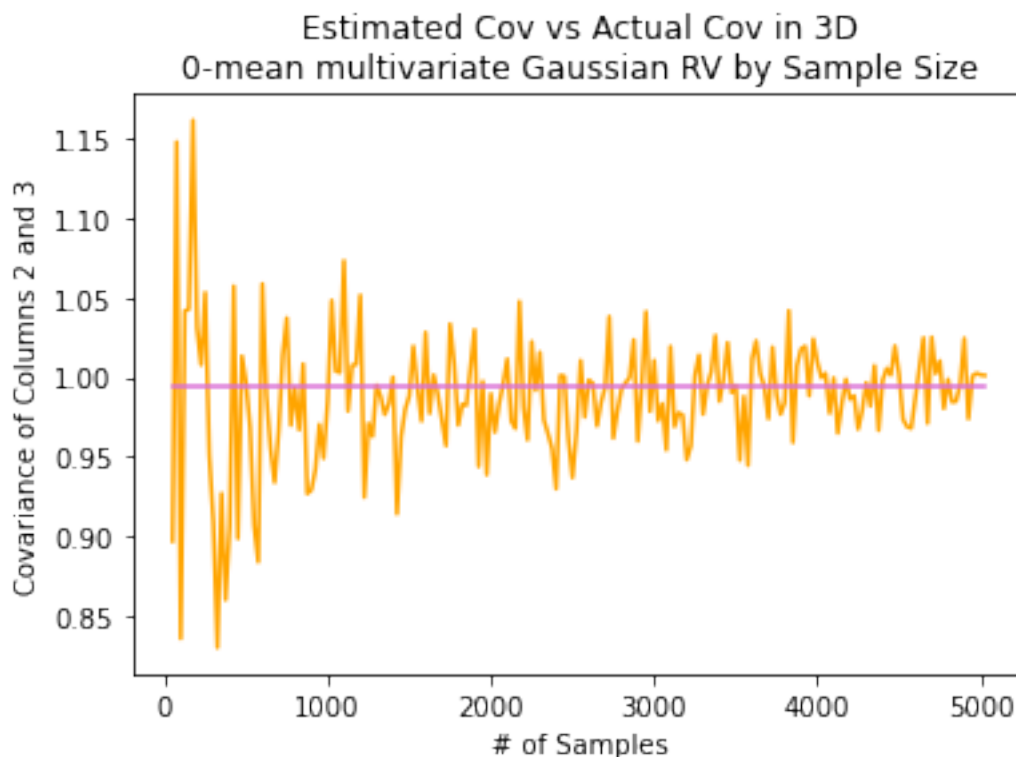
# get covariance of columns 2 and 3 in the 3D RV every 25 samples
samples = 25
```

```

while samples <= 5000:
    # generate multivariate Gaussian RV
    samples_Z = np.random.multivariate_normal(mean_Z, cov_Z, samples)
    df_Z = pd.DataFrame(data=samples_Z)
    cov_Z_estimated = pd.DataFrame.cov(df_Z)
    # add covariance results + sample size
    cov_results.append(cov_Z_estimated[1][2])
    samples += 25
    samples_list.append(samples)

# generate line plots to compare how estimated covariance compares to actual
# → covariance
# as number of samples scales
plt.title('Estimated Cov vs Actual Cov in 3D\n'
          '0-mean multivariate Gaussian RV by Sample Size')
plt.xlabel('# of Samples')
plt.ylabel('Covariance of Columns 2 and 3')
plt.plot(samples_list, cov_results, 'orange',
         samples_list, [0.995 for i in samples_list], 'orchid')
plt.show()

```



2. Outliers. >Consider the two-dimensional data in DF2 in Lab2 Data.zip. Look at a scatter plot of the data. It contains two points that look like potential outliers. Which one is “more” outlying?

Propose a transformation of the data that makes it clear that the point at $(-1, 1)$ is more outlying than the point at $(5.5, 5)$, even though the latter point is “farther away” from the nearest points. Plot the data again after performing this transformation. Provide discussion as appropriate to justify your choice of transformation.

Hint: if y comes from a standard Gaussian in 2D (i.e., with covariance equal to the two by two identity matrix), and

$$Q = \begin{bmatrix} 2 & 0.5 \\ 0.5 & 2 \end{bmatrix}$$

what is the covariance matrix of the random variable $z = Qy$? If you are given z , how would you create a random Gaussian vector with covariance equal to the identity, using z ?

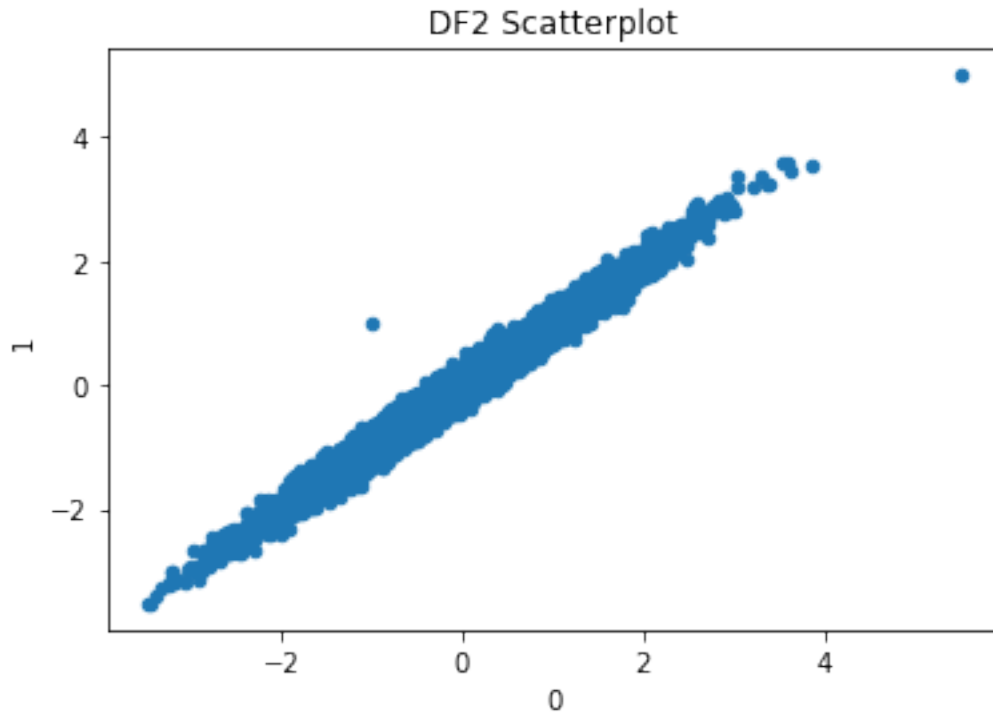
```
[26]: # fetch DF2 CSV file
df_2 = pd.read_csv("DF2", header=0).iloc[:, 1:]
print(df_2)

# plot with Pandas
df_2.plot.scatter(x='0', y='1', title=f'DF2 Scatterplot')
```

```
0          1
0    1.038502  0.835053
1    0.320455  0.149079
2    0.055480  0.271672
3   -0.007260 -0.126550
4   -1.237390 -1.049932
...
9995 -0.632309 -0.797517
9996  0.679417  0.526470
9997  0.890697  1.072751
9998  0.475293  0.536909
9999  1.207406  1.230797
```

```
[10000 rows x 2 columns]
```

```
[26]: <AxesSubplot:title={'center': 'DF2 Scatterplot'}, xlabel='0', ylabel='1'>
```



```
[27]: # use Pandas covariance matrix function
cov_df_2 = pd.DataFrame.cov(df_2)

# Calculate eigenvalues and eigenvectors of DF2 covariance matrix
A = np.array(cov_df_2)
eigenvalues, eigenvectors = np.linalg.eig(A)

# Eigendecomposition
# Covariance matrix = P * D * P-1
P = eigenvectors
D = np.array([[eigenvalues[0], 0], [0, eigenvalues[1]]])

# calculate Q matrix
Q = P @ np.sqrt(D)

# store transformed data to create dataframe later
transformed_data = {}

for index, row in df_2.iterrows():
    transformed_data[str(index)] = np.linalg.inv(Q) @ np.array(row)

df_2_transformed = pd.DataFrame(transformed_data).T
```

```

print(f'Transformed [-1,1] coordinates:\n {np.linalg.inv(Q) @ np.array([[ -1],  

→ [1]])}\n')
print(f'Transformed [5.5,5] coordinates:\n {np.linalg.inv(Q) @ np.array([[5.5],  

→ [5]])}\n')

# plot with Pandas
df_2_transformed.plot.scatter(x=0, y=1, title='DF2 Scatterplot')

```

```

Transformed [-1,1] coordinates:
[[-1.22780900e-04]
 [ 1.40294582e+01]]

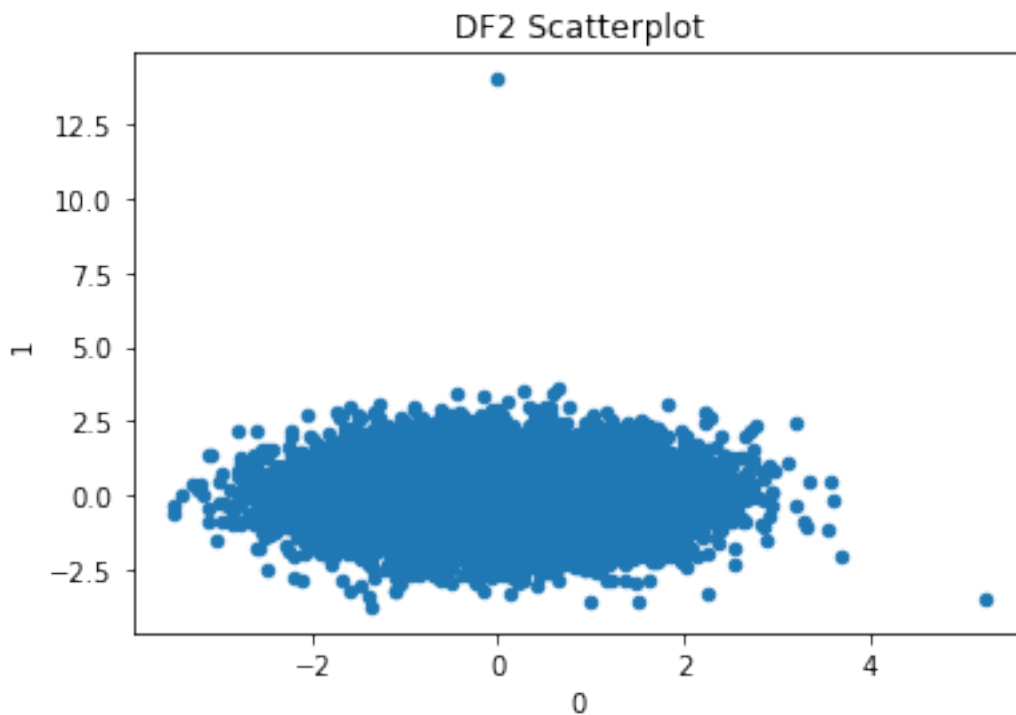
```

```

Transformed [5.5,5] coordinates:
[[ 5.25180851]
 [-3.49832423]]

```

```
[27]: <AxesSubplot:title={'center':'DF2 Scatterplot'}, xlabel='0', ylabel='1'>
```



Here, we can see that point $[-1, 1]$ transformed to coordinates $[-0.00012278, 14.0294582]$, and it is clearly much more of outlier compared to the transformed $[5.5, 5]$ at $[5.25, -3.50]$. The choice of transformation used here is using the given samples covariance and eigendecomposing it to find details for discovering the transformation matrix. The reason behind taking an approach like this is that since we are dealing with multivariate Gaussian data (we plotted them separately and found that they were normally distributed), we can plot them together into a bell curve (this current plot

would be bird's eye view) that gives us a better idea of where data stands.

3. Even More Standard Error

Compute this empirically, as follows: We will generate data for a regression problem, solve it, and see what the error is: Generate data as follows: $x_i \sim N(0, 1)$, $e_i \sim N(0, 1)$. Generate y by $y_i = 0 + x_i + e_i$, where $\beta_0 = -3$ and $\beta = 0$. Note that since $\beta = 0$, this means that y and x are unrelated! The question we are exploring here is as follows: when we solve a regression problem, we are not going to find $\hat{\beta} = 0$ – we will find that $\hat{\beta}$ takes some other values, hopefully close to zero. How do we know if the value of $\hat{\beta}$ we get is statistically meaningful? – By creating fresh data and each time computing $\hat{\beta}$ and recording $\hat{\beta} - \beta$, compute the empirical standard deviation of the error for $n = 150$. By running a linear regression of y vs. noise, we find $\hat{\beta} = -0.15$. Given your empirical computation of the standard deviation of the error, how significant is the value -0.15 ?

```
[28]: np.seterr(divide='ignore', invalid='ignore')
beta_0 = -3
beta = 0

def emp_std_dev(n):
    errors = []
    for i in range(n):
        xi = np.random.normal(0, 1, n)
        ei = np.random.normal(0, 1, n)
        yi = beta_0 + xi * beta + ei
        beta_hat = scipy.stats.linregress(yi, xi).slope
        errors.append(beta_hat - beta)
    return np.std(errors)

print("emp_std_dev(150) = {}".format(emp_std_dev(150)))
```

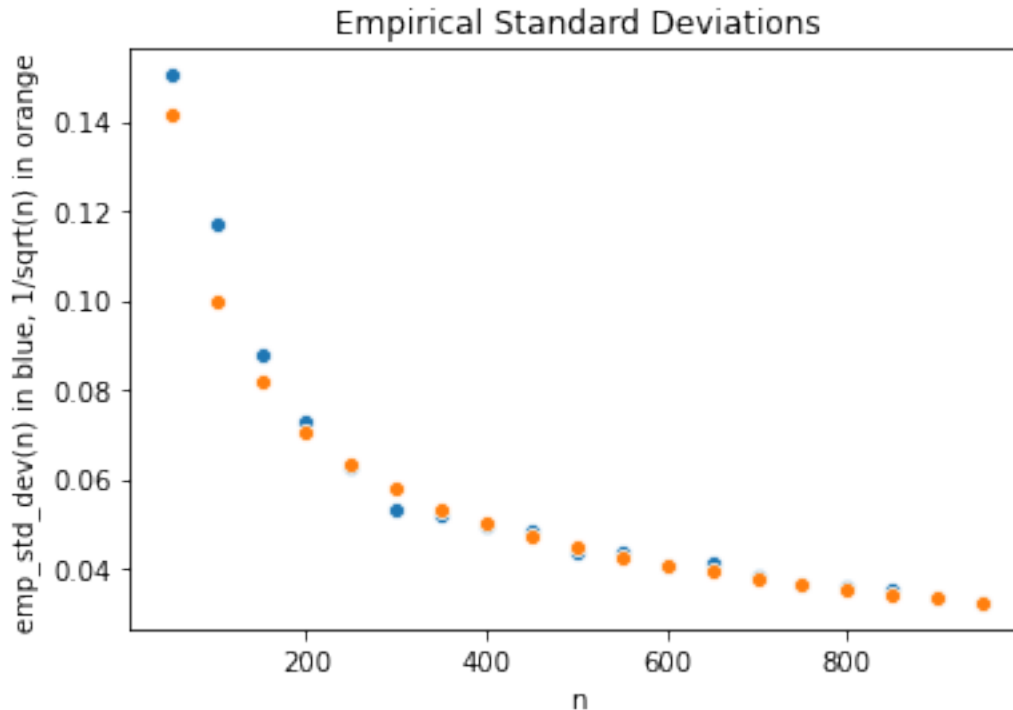
```
emp_std_dev(150) = 0.08303530440827186
```

Empirical standard deviation of ~ 0.08759280925519247 at 150 samples is close to 0, so we assume that the noise is responsible for the $\hat{\beta}$ value of -0.15 , meaning that it is not statistically significant.

- Now repeat the above experiment for different values of n . Plot these values, and on the same plot, plot $1/\sqrt{n}$. How is the fit?

```
[29]: deviations = []
n_s = np.array(range(0, 1000, 50))
n_mod = 1. / np.sqrt(n_s)
for i in n_s:
    deviations.append(emp_std_dev(i))
sns.scatterplot(x="n_s", y="deviations", data={
    "n_s": n_s, "deviations": deviations
});
sns.scatterplot(x="n_s", y="n_mod", data={
    "n_s": n_s, "n_mod": n_mod
});
```

```
plt.title("Empirical Standard Deviations");
plt.xlabel("n");
plt.ylabel("emp_std_dev(n) in blue, 1/sqrt(n) in orange");
plt.figure();
```



<Figure size 432x288 with 0 Axes>

We can see that as n increases, the Empirical Standard Deviation of the linear regression approaches 0 at the same rate/shape as $1/\sqrt{n}$, confirming our findings in the previous step.

4. Names and Frequencies

1. Write a program that on input k and XXXX, returns the top k names from year XXXX.
2. Write a program that on input Name returns the frequency for men and women of the name Name.
3. It could be that names are more diverse now than they were in 1880, so that a name may be relatively the most popular, though its frequency may have been decreasing over the years. Modify the above to return the relative frequency. Note that in the next coming lectures we will learn how to quantify diversity using entropy
4. Find all the names that used to be more popular for one gender, but then became more popular for another gender
5. (Optional) Find something cool about this data set

[30]: *#1. Write a program that on input k and XXXX, returns the top k names from year_*
→ XXXX.

```
def topNames(k, year):
    nameDF = pd.read_csv("Names/yob" + year + ".txt")
    cols = nameDF.columns[2]
    print(nameDF.nlargest(k, cols))
```

[31]: *#show topNames works*
topNames(10, "2015")
topNames(10, "1880")

```
Emma  F  20355
0      Olivia  F  19553
18992    Noah  M  19511
18993    Liam  M  18281
1      Sophia  F  17327
18994    Mason  M  16535
2      Ava    F  16286
18995    Jacob  M  15816
18996  William  M  15809
3    Isabella  F  15504
18997    Ethan  M  14991
      Mary    F  7065
941    John    M  9655
942  William  M  9531
943    James  M  5927
944  Charles  M  5348
945    George  M  5126
946    Frank   M  3242
947   Joseph  M  2632
0      Anna   F  2604
948   Thomas  M  2534
949    Henry   M  2444
```

[32]: *#2. Write a program that on input Name returns the frequency for men and women_*
→ of the name Name.

```
def nameFreq(name):
    mCount = 0
    fCount = 0
    for year in range(1880, 2016):
        currDF = pd.read_csv("Names/yob" + str(year) + ".txt", header=None)
        johnDF = currDF.loc[currDF[0] == name]
        femDF = johnDF.loc[johnDF[1] == 'F']
        malDF = johnDF.loc[johnDF[1] == 'M']
        fCount += femDF[2].sum()
        mCount += malDF[2].sum()
    return mCount, fCount
```



```
[33]: name = "John"
guys, girls = nameFreq(name)
print("Males with name " + name + ": " + str(guys) + "    Females with name " +
↪name + ": " + str(girls))
```

Males with name John: 5095674 Females with name John: 21657

```
[34]: #3. It could be that names are more diverse now than they were in 1880, so that
↪a name may be relatively the most popular,
# though its frequency may have been decreasing over the years. Modify the
↪above to return the relative frequency.
def relativeFreq(name, year):
    currDF = pd.read_csv("Names/yob" + str(year) + ".txt", header=None)
    nameCount = currDF.loc[currDF[0] == name][2].sum()
    totalNamesThatYear = currDF[2].sum()
    return nameCount/totalNamesThatYear
```

```
[35]: name = "John"
year = 2014
relFreqPercent = math.trunc(100. * 1000. * relativeFreq(name, year)) / 1000.
print("Percentage of people in {} with name {}: {}%".format(year, name,
↪relFreqPercent))
```

Percentage of people in 2014 with name John: 0.289%

```
[36]: #4. Find all the names that used to be more popular for one gender, but then
↪became more popular for another gender.

popularity = pd.DataFrame({ "name": [] }, columns = [ "name" ])
counter = 0
for year in range(1880, 2015 + 1):
    counter += 1
    if counter % 10 == 0:
        print()
        print('{} '.format(year), end='')
        df = pd.read_csv("Names/yob" + str(year) + ".txt", header=None)
        df.columns = ["name", 'gender', 'frequency']
        df = df[df['gender'] == 'M'].merge(df[df['gender'] == 'F'], on='name',
↪how='outer')
        df = df.fillna(value=0)
        df[str(year)] = df["frequency_x"] - df["frequency_y"]
        popularity = popularity.merge(df[['name', str(year)]], on='name',
↪how='outer')
popularity = popularity.fillna(value=0)
print()
```

1880 1881 1882 1883 1884 18851886 1887 1888

1889 1890 18911892 1893 1894 18951896 1897 1898
 1899 19001901 1902 19031904 1905 190619071908
 1909 1910191119121913 1914191519161917 1918
 19191920 192119221923 192419251926 19271928
 1929 1930 193119321933 1934 193519361937 1938
 193919401941 1942 194319441945 1946 19471948
 1949 1950 195119521953 1954 195519561957 1958
 195919601961 19621963 196419651966 19671968
 1969 197019711972 197319741975 197619771978
 197919801981 19821983 19841985 19861987 1988
 1989 19901991 19921993 19941995 199619971998
 19992000 2001200220032004200520062007 2008
 2009201020112012201320142015

```
[37]: popularity["min_diff"] = popularity.min(axis=1, numeric_only=True)
popularity["max_diff"] = popularity.max(axis=1, numeric_only=True)
popularity["switched"] = np.where(((popularity["min_diff"] > 0) &
    ↳ (popularity["max_diff"] < 0)) | ((popularity["min_diff"] < 0) &
    ↳ (popularity["max_diff"] > 0)), True, False)
names = popularity[popularity["switched"] == True]['name'].to_numpy()
print("{} names".format(len(names)))
counter = 0
for n in names:
    counter += 1
    if counter % 10 == 0:
        print()
    print(n, end=' ')
```

4882 names
 Charley Marion Jessie Sidney Leslie Alva Harley Ollie Monroe
 Emery Riley Emory Taylor Morgan Elisha Allie Lynn Pink Elza
 Emerson Jimmie Loren Madison Aubrey Dee Addison Merritt Sandy Cary
 Merle Pleasant Jules Larkin Dell Fay Smith Tobe Tommie Lou
 Raleigh Young Carey Elzie Merrill Augustine Bailey Beverly Clair Dana
 Jean Pat Sol Sydney Early Fate Finley Lindsey Verne Billie
 Emma Orie Palmer Shirley Sumner Valentine Avery Freddie Lacy Llewellyn
 Ossie Theo Ashley Bertie Fayette Ivory Odie Oral Otha Shade
 Shelby Algie Arlie Bird Chancy Gene Golden Hollis Ivey Lindsay
 Lonie Allison Alpha Clarke Cruz Davie Erie Ernie Harrie Hollie
 Jessee Michel Oda Reese Sammie Stacy Tracy Vernie Yee Almer
 Alvia Artie Ashby Augusta Babe Chesley Cleo Edie Gee Halsey
 Handy Hermon Holly Jodie Justice Kelly Kit Lavern Loran Lorin
 Merida Nate Nova Orla Orrie Payton Presley Rene Santos Schuyler
 Starling Unknown Woodie Worthy Georgie Bell Donnie Vinnie Lue Frankie
 Ludie Patsy Avis Cordie Claudie Clemmie Joan Nevada Sina Beryl
 Lennie Mallie Salome Anner Arie Corda Donie Indiana Vada Dove
 Jewell Ocie Osie Leone Olie Onie Osa Alba Alla Ara
 Arrie Byrd Clemie Mena Robbie Genie Guadalupe Isa Love Ottie

Rennie Tennessee Texas Vannie Bee Paris Harper Jule Roe Collins
Ashton Collie Curley Lorenza Murphy Adrien Arden Blair Campbell Coley
Dennie Ebbie Ellison Emry Garnett Jere Kirby Loy Mannie Marrion
Monte Page Robin Shannon Waverly Wing Adell Elvie Glennie Nana
Audie Carry Courtney Dossie Gillie Jonnie Mell Ason Christie Gail
Jeffie Jo Lannie Ova Hilary Lemon Pearley Shelly Alexis Auguste
Lesley Linn Vester Alby Burnett Cortez Ellery Garnet Harlow Kay
Kelley Leigh Lenzy Orva Toby True Val Eura Ivie Altie
Dezzie Franc Laurie Shellie Willia Odell Tandy Toy Atlas Chancey
Charle Gale Gay Harlie Ingram Joy Linzy Loney Meredith Orel
Orra Perl Laurel Rossie Carlie Cena Earlie Ermine Arkie Ether
Laney Otie Whitney Son Tollie Vollie Cleon Simmie Zollie Ah
Charly Elgie Gentry Iver Jas Lauren Luby Man Maryland Peyton
Vere Maxie Vennie Clevie Arta Nealy Trinidad Arley Oney Arvie
Damie Darcus Jamie Martie Monnie Myrle Ovie Temple Lark Laverne
Milan Cris Elon Henri Lisle Onnie Orlie Perle Refugio Sloan
Wallie Imo Macy Montie Cornie Essa Ruey Scottie Dannie Lindy
Lupe Murl Timmie Merl Lacey Lovell Tomie Acey Amil Britt
Christy Harlin London Meddie Tobie Ura Vergil Yancy Clemence Lear
Levie Lu Lummie Amey Chaney Eppie Massie Tonie Ethelbert Arnie
Bliss Hillery Orr Prentiss Ran Anis Hala Myrl Nollie Ozzie
Romaine Carlisle Angel Burnie Casey Hillary Holland Le Moe Posey
Zennie Cannie Valley Vonnie Ilo Adel Elba Emer Ever Neely
Ozie Wren Maury Foy Lish Abie Alver Claiborne English Lemmie
Linden Romie Swan Marvel Ary Lattie Ala Aquilla Arda Ardell
Ermie Hermie Hildred Miley Opie Perlle Sing Mckinley Auburn Carrol
Arbie Bera Haley Atta Luddie Mackie Tallie Verle Sheridan Berkley
Jolly Kelsey Lake Gayle Cuba Monta Mozell Aldine Ercell Junnie
Musa Saint Wadie Encarnacion Hartley Amzie Cam Carlyle Murel Robie
Deane Okie Shelley Ardie Ariel Brownie Clydie Ervie Limmie Murriel
Vernal Estel Mayo Aubra Avon Ferris Doll Elwyn Leighton Percie
Sonnie Omega Juel Orba Burnice Ivery Larue Drue Mearl Wavie
Oddie Audy Esley Cola Juda Clennie Clio Eron France Marcelle
Martine Gaither Guthrie Lindley Verl Averil Afton Artha Germaine Virgin
Adna Albie Lael Natividad Silver Offie Acy Estle Irby Ivor
Kennie Lyn Rue Avo Lavon Rickie Hilder Mardell Kara Lolo
Orlean Pilar Rosario Dabney Diamond Ezell Carnell Farris Winslow Blythe
Zenith Rama Vernell Ysabel Arba Mickey Embry Carmon Lin Macon
Murrel Murrell Dewie Lennis Ezzie Gradie Victory Antonie Honore Lacie
Ludy Mayne Oval Reyes Rotha Zell Haven Elizah Berlin Perrin
Waddie Ardis Jackie Oza Richie Edris Ermal Tola Wilsie Sinclair
Bobby Lowry Azel Iley Chandler Elver Kinnie Lugene March Pet
Sunny Teddie Ermon Stellar Australia Climie Leatha Tellie Curlie Dorsie
Ferrol Lorain Macey Modie Sharon Vader Carman Every Rainey Loyce
Lyndall Gordie Kaye Dea Feliz Mardie Nieves Farrell Arleigh Earnie
Jan Mel Orbie Samie Sun Ozell Quilla Carlee Celester Laddie
Murle Ronnie Rosemond Tommye Velmer Vesper Jame Dailey Fidelis Laurice
Lavelle Sylvesta Cordell Alder Asencion Beryle Loris Syd Tannie Gerry

Aubry Cletis Gates Carle Linsey Evon Berlie Berthal Bertice Nema
 Reda Zannie Adie Carmie Cleophas Emerald Matty Renner Veryl Wynne
 Merced Carlin Michele Norvell Armer Autie Vee Alea Artee Burlie
 Odia Othello Zephyr Othel Hadley Reggie Vearl Arlis Kendall Natale
 Wray Zeddie Edel Ercel Osceola Alie Burnette Elgia Lavaughn Oria
 Rozelle Tyne Aime Wille Arville Bo Byrl Dacie Hawley Ivon
 Jimie Langley Vestal Luverne Loye Montez Arlee Fair Lyndell Lavone
 Meryle Rodie Tamer Verdell Ynez Zonnie Linzie Allyn Nicola Currie
 Malon Merlyn Rollins Fonnies Aldean Enis Mabry Marvelle Ventura Cosby
 Kelsie Nebraska Rosell Velmar Arlen Del Laverne Morley Selby Wilmoth
 Luise Addis Oree Algia Cordy Cozy Edner Foye Enes Jemmie
 Jency Quillie Ronie Trellis Halley Arlin Merrill Jody Rivers Bobbie
 Choice Curlee Daily Johan Laurin Marlow Maron Romey Tee Thelmer
 Veron Gean Arnell Elvy Bunnie Chelsea Christen Fayne Montana Ovell
 Royce Rudell Santana Sherley Colie Atlee Garnie Ival Hiawatha Wallis
 Welcome Almo Carney Clarion Constant Elis Fiore Holley Karol Keller
 Lavette Marshel Merrell Michal Tobbie Ersel Alvine San Eudell Patsey
 Verneal Vivan Audre Frenchie Ivis Lamoine Linnell Ramie Reecie Shirly
 Theoda Vertis Sherrill Bernis Bernell Americus Monico Athel Beverley Delaney
 Loys Ruble Sutton Takeshi Carles Elzia Garnell Happy Hastings Lauri
 Lemoyne Lewellyn Marcell Mc Orian Stirling Thayer Udell Amor Ardean
 Argyle Arlyn Aster Bela Boots Carley Carlis Carroll Channing Claudy
 Crosby Dail Delore Dominique Greer Henley Hyland Jacque Jacy Johann
 Jonie Jonny Kennedy Kim Lauris Lenox Lundy Luvern Marlowe Masami
 Meril Merritt Patterson Pressley Salem Sander Tevis Wendelin Windsor Wynn
 Glennis Unice Baby Concepcion Donnis Edell Liberty Artice Eldra Fran
 Leary Maris Rannie Toye Verlyn Angelus Averill Bronnie Dayle Dian
 Eddis Erbie Esper Frankye Ilia Marvell Melvine Merriel Novis Rebel
 Autry Arnel Clester Corliss Stacey Akira Carrington Katsumi Mirl Moran
 Berthel Clois Hanley Marlyn Arvis Aubrey Berkeley Casimir Darby Ferrel
 Marin Marshall Maurie Normal Rexie Rudie Talbot Vernel Vernet Willett
 Abney Amando Ansley Barber Carmin Connell Duffie Felis Garcia Hue
 Kimble Ladell Lavell Lennon Lenzie Leverne Lorrin Lovis Lowe Lyndal
 Mar Merel Numa Quincey Ramey Rassie Reagan Staley Starlin Verdi
 Eris Ermel Asuncion Mickie Rozell Trini Donis Dorie Elvi Izell
 Verdis Alvern Arguster Cleodith Commie Deon Doyne Henrie Kellie La
 Lorrain Lurie Vernis Wynell Devon Dallis Paige Quay Autrey Germain
 Kearney Lanier Santi Adair Alley Ercil Harvest Levis Marley Nemiah
 Ritchie Starr Aldie Arlow Bradie Chriss Clancy Gilliam Greeley Ireland
 Maxey Nickie Odel Remy Sherrell Summers Valery Weslie Wilkie Abbey
 Amel Ascension Azell Brooke Challis Charl Charleston De Hillory Idris
 Jerre Kam Kaoru Key Kimber Loral Maitland Mallory Malone Myrel
 Olis Onell Ovel Penrose Posie Reddie Rino Rockie Seeley Talley
 Whitley Marvis Aloise Demaris Odean Dosie Ezelle Alter Earlee Saxon
 Annas Argusta Clea Lanell Marvie Maywood Nesbit Talma Tobey Yoshi
 Aris Coree Coye Daris Haru Lorell Lynell Marciel Orell Sakae
 Truth Tyra Verley Zelmer Faris Julis Darcy Shirl Kazumi Lynden
 Carrell Desire Emmerson Marlen Clary Dorian El Leotis Quinn Remi

Ridley Willet Bristol Carnie Kenna Marlo Marx Merion Tonnies Amory
 Andie Arcie Augie Caryl Courtenay Daley Day Egan Eslee Fortune
 Gaylen Gwyn Jessy Joey Lunnies Marce Maylon Money Muril Orian
 Parish Pernell Plumer Ronda Shady Tracey Vel Veril Arbor Brook
 Bunny Clellie Espie Georg Glendale Glendell Hager Hannon Harlee Hollice
 Irie Jammie Jene Kendal Lace Lesslie Lorren Lorry Lory Mearle
 Merdith Murlyn Myrlyn Nevel Olice Ordie Paz Pendleton Redell Ren
 Revel Vail Vandy Wardie Willoughby Sunnie Artemis Berdell Ordell Bona
 Cleofas Dakota Lovelle Toshi Kimi Othell Stephane Theone Ange Edwidge
 Elve Juddie Laverle Martelle Ursel Veo Vervyle Yoshimi Yuki Alfie
 Andree Ascencion Bennette Billi Binnie Dester Geral Glenis Hiro Joda
 Joie Josey Latrelle Martell Memphis Myril Nigel Oriel Orlanda Romelle
 Truly Varnell Verble Waldean Karel Lile Artell Eldie Gwin Gwynn
 Harlo Hilery Hollan Jaime Leith Sunday Berlyn Donel Emary Erlin
 Fiori Hensley Jobie Lanis Loel Marchel Montrose Tharon Yvon Zan
 Aner Arel Arvi Bay Burnes Carmi Codie Coma Corry Dickie
 Dorcie Eldean Emeral Emsley Ensley Grier Hally Harlowe Izzy Jadie
 Jhonnie Leaster Lotis Mancy Merley Meron Oswin Rowan Seraphin Zebbie
 Michi Idel Danie Flores Jolan Neddies Raffie Trine Vondell Wannies
 Adis Allah Ather Cedell Coda Coren Dare Doye Eldrid Elize
 Everal Iria Kazu Lean Levonne Loice Luegene Merideth Narvell Norvelle
 Novel Olle Ovis Shadie Themis Vero Bracy Darris Malen Arliss
 Doral Arzell Eden Kennis Larrie Lenis Linley Loddie Sibley Void
 Arless Camile Kary Kinley Kinsey Lasalle Rochell Ardel Ardine Bev
 Bond Camiel Cleary Corley Dene Dietrich Elree Emo Estee Finnie
 Flory Kiah Lamoyne Landry Landy Lovely Marris Massey Mckenzie Mckinney
 Medley Meridith Nicky Pal Parris Payson Raney Saylor Trenidad Vale
 Florenz Juna Laurell Cleotha Eddy Byrle Arlynn Cloudie Daurice Lenell
 Abell Akie Arlice Cordelle Delane Dorcus Elmi Ioan Kiyomi Michie
 Murtha Olee Seena Wildred Wilmeth Marne Real Summer Atley Cyrille
 Glyndon Hilaire Cantrell Chanel Criss Layne Cubie Eldee Emra Lay
 Perrie Ripley Adley Arion Barnell Carlas Chancie Claudell Corlis Eurie
 Garrie Issie Ivel Jae Juell Kellis Kenzie Lavan Lonell Merit
 Warnell Jonell Truby Elgene Elice Nellis Bille Delone Fernie Larie
 Odene Zay Amo Armistice Austine Bernett Collen Corie Freedom Illinois
 Italy Jama Jessa Junis Jurell Lafrance Lovern Marzell Mosie Onyx
 Ore Orea Sharron Adrin Gaynor Carris Harlyn Ledell Cay Chan
 Gearl Innis Leal Linell Roddie Tinsley Venis Waverley Alfonsa Andrell
 Azriah Bentura Blaney Claren Dory Embree Ferron Ferry Gael Hilliary
 Hollace Jessie Jissie Lanny Lesly Lindsay Mckinly Murphey Sequoyah Star
 Stevie Tenny Vermont Virdell Clydell Lavert Waver Juno Leonides Marice
 Ogie Aleph Donzell Future Gold Iren Ive Laverl Marnell Orise
 Seiko Shinobu Tama Veral Yuri Danel Jesse Emmery Blakely Charlis
 Chee Fain Kaname Kei Lessley Mckenley Nazareth Paulie Rease Bowie
 Brazil Cashmere Conda Dois Doren Gwynne Hiromi Hyatt Jaye Larren
 Mabrey Meritt Ming Regan Rio Ynes Darling Asie Aza Brunell
 Edis Natha Romell Velvet Adrine Fela Kerry Lafon Lo Madrid
 Mavin Navada Oakie Ramelle Carlon Henny Noris Nay Paxton Aven

Brit Christain Dorn Emel Lawrene Troyce Chesleigh Ellington Gwinn Iran
 Jeffrie Jennis Lejeune Loverne Lovette Lyndol Melvis Nickey Raven Romney
 Sage Sherrel Soon Adean Delona Elean Monell Sheryl Wonnies Lyndel
 Nima Robby Dorean Francell Georgi Kareen Lutrell Elliotte Evern Hailey
 Mikey Semon Laury Marchell Ramsay Beebe Breland Challie Chapin Chappell
 Corby Excel Henly Imon Janus Jona Jones Mays Ronel Tai
 Donelle Fontaine Algene Cleaster Micky Corris Dariel Doney Jen Lennell
 Montra Pita Toki Wandell Hong Laren Ragan Southern Verlen Wellesley
 Bevan Emlyn Seraphim Adgie Jermaine Corneal Ertis Nathel Vivin Barrie
 Cory Devan Terral Bivian Dwan Jeryl Kenley Ozel Tam Irish
 Yona Abba Deone Gen Renell Valgene Arona Georgio Gerd Laray
 Luzell Osha Shelvy Joddie Prue Sherril Aren Arly Franky Johnne
 Merce Raynell Johnell Olly Selester Varian Adison Tally Tanis Albany
 Chong Kayo Markie Marrin Michell Aree Carmell Donne Luan Reve
 Videll Maclyn Bevely Dann Dusty Jensen Jessel Laurien Linzey Si
 Patt Roen Justyn Lind Corky Alexius Caley Mosley Alyn Bergen
 Gwendell Hollister Lyric Lajuan Lavonn Lougene Luckie Lydell Nesta Paddy
 Raydell Verdel Daune Harly Frankey Robbin Sharman Jayce Dione Toma
 Carlen Choyce Kelcy Alix Daun Duanne Ladon Shearl Bonell Fernell
 Jaris Karna Darle Shirrell Darriel Rudi Delynn Shawn Sherill Alonzia
 Conny Gaylin Jamison Jerol Costello Gere Jerris Joen Wydell Mannon
 Laramie Mylan Terril Linder Romy Shay Haroldean Jann Danne Delayne
 Valdean Delain Ebby Izel Sheril Sherl Jette Deonne Jonel Sherron
 Devonnie Karon Michael Raymell Lavalley Myran Ronell Shelvie Jaycee Karry
 Sherald Shirrel Sheron Mikell Tobi Ammer Jonquil Laine Vallee Haile
 Corrin Marle Ravon Caron Cayce Levarn Malin Terryll Jacki Su
 Kerin Levone Renny Darley Alexie Larell Renn Durelle Karan Sharan
 Janas Joal Yong Darnel Rogue Danney Karey Kris Pepper Ravin
 Starley Tal Charon Lei Darien Davine Jacquin Jung Marquette Karle
 Rommy Gari Jaren Jeris Lannis Layle Lorel Raydean Karron Carron
 Davene Farron Janeil Karlin Ricki Darian Karrol Brinkley Carliss Joby
 Tay Roni Sharone Zee Dyan Fredi Garie Joell Mikie Teryl
 Tarry Trevis Luren Ronnye Sherell Torrance Janiel Karroll Latrell Karlen
 Sande Coby Rell Findley Glenly Lany Stonie Ronelle Danell Dorien
 Jaice Michon Tannis Kerby Kem Delmis Kristian Rox Rise Ronne
 Adriann Terre Aundra Chun Garlyn Jari Kayron Nichola Ondra Tani
 Terrace Mikal Courtney Rooney Cheron Stanlee Dru Dondra Nickola Shayne
 Daine Darnelle Jimmi Randie Rikki Denys Ferrin Jamey Lavern Rande
 Ricci Rondie Rowen Shan Wyn Barri Stormy Freddi Jade Jimi
 Roi Tanny Charron Danis Jonatha Renne Shanon Thoma Carlan Danyne
 Breck Colyn Delacy Dinnie Terran Terris Kristan Riki Shayron Angle
 Dari Kitt Rayne Sami Sung Dalis Galyn Ridgely Dany Ki
 Krist Storm Tary Torry Franki Jaimie An Deni Di Cheyenne
 Chrys Demetrice Doni Edy Maurya Mical Peni Bryn Tory Mauri
 Shalom Daney Dorin Tolly Donnelle Karn Kelcie Larri Shermaine Adrean
 Dayl Gal Keron Kyung Suan Terrylee Verlynn Rian Jersey Lan
 Brand Desi Guadalupe Kayle Jamelle Kriss Lawren Mardy Shawne Cher
 Danni Dore Kevyn Nikola Revon Keary Michael Dandy Johnel Demetris

Graylin Arlanda Kippy Monti Rossi Rorie Ranell Christia Gudalupe Kimm
 Cidney Nikita Rendy Scotti Shon Skeeter Bevin Vonn Ainsley Darcel
 Koren Shann Shea Daniele Dareen Davee Geryl Kasey Kym Nanda
 Shaune Unk Choya Daniell Kimmy Aly Cappy Christon Darrie Lindsley
 Lynel Rajah Sugar Tippy Win Darcell Robbe Valen Jamae Ronnelle
 Shell Tarrie Neri Randyl Davi Dannel Farren Marke Mcrae Tae
 Terriel Kimmie Danon Roben Tris Vali Christan Keran Marte Buff
 Devone Kalen Krys Larkie Li Mecca Mica Rai Sky Ohara
 Reilly Rein Rocklyn Dalas Torey Pier Joa Sher Delyn Denell
 Brendell Finesse Shiron Taren Dace Karee Min Mischa Monserrate Nike
 Robben Callen Tyran Kendel Olanda Rimas Skyler Anjel Deven Kellen
 Kimothy Mckinsey Tinker Dodi Dandrea Gabriele Mendy Mika Tonee Daryn
 Tarin Jernell Jet Lawan Nicoli Undra Dary Kippie Devine Graylyn
 Lyndale Mickell Shaya Stevy Denni Robi Lashawn Micha Storme Terah
 Aquila Corin Dalyn Indy Karmel Angell Dannell Deion Derby Derrie
 Des Mori Shanan Tane Terez Troye Wan Dondi Kameron Ande
 Andri Larsen Pharon Bren Coty Larin Raegan Roche Tirrell Seneca
 Adraine Kacy Darragh Jaki Dalynn In Jode Korby Marchella Beni
 Jamy Jayni Jole Karmon Kayne Kendis Keni Radell Rain Raynel
 Teren Terrian Darrelle Stevee Torre Tyronza Callan Farrin Kiernan Krishna
 Peppi Rus Tres Jael Teal Kenni Trayce Jaleen Laroyce Cameo
 Devery Ja Lashon Sharn Zo Dae Dreamer Hyun Jai Jojo
 Khris Ladale Lian Song Tegan Kellan Briane Bryne Corinthian Danyl
 Demetric Jammy Tovia Kelcey Kiva Jamine Sloane Davonne Jodey Kobi
 Portland Terryn Demetress Kahne Kiley Machel Troi Skylar Kalin Ciaran
 Tore Dezi Kalani Undrea Tremaine Yael Loi Terrin Dekota Dobbie
 Lashaun Mitchell Montrice Arnez Raymie Stace Carrey Nico Devry Erice
 Javon Kimbrell Macheal Mechel Shia Tiki Jovon Eddi Danta Jance
 Johnni Mirza Renel Sabre Jin Arin Danieal Kenyatta Kery Lavoris
 Tabor Kriston Rayme Jacquiel Lashun Jaque Kaylon Shalon Trea Codi
 Deniz Donyell Edi Gabby Gamble Ilya Kendle Lanel Nery Ody
 Roshan Soo Taris Schell Yarnell Andrian Niko Raylen Tarrell Quanah
 July Brette Deshawn Dorren Ka Konya Montoya Sha Shuron Simi
 Stevey Jaydee Kallen Blakley Demetre Elan Eri Farin Jem Rami
 Taron Domonique Kona Miko Jaimy Jamille Sherone Klark Kenndy Nephtali
 Shawnn Ronit Errin Channon Chevon Dorain Ibis Jatton Dynell Danyel
 Dennell Detric Dondrea Dresden Jacquese Jobi Kindle Leshawn Marvelous Mishawn
 Pasha Rosean Tameron Vanness Shenandoah Alexi Shenan Darly Jer Krister
 Shanton Twan Xan Gemini Jonnell Jovonnie Kindall Chavon Chawn Dahn
 Detrich Dominique Dominique Roshawn Shandon Shawan Taj Tamari Tarron Terraine
 Dejon Britain Demetrie Deshon Bria Karson Savoy Terren Donyale Trenell
 Javonne Rashawn Kiran Shamarie Corbie Dushon Rashon Beckett Chalon Demeatrice
 Donyel Dustine Jowell Jajuan Kele Marquise Quan Roshawn Sonni Tashi
 Tavi Tayne Eran Sascha Shone Raja Shanen Yuval Camaro Delancey
 Jordi Kamron Lesile Telly Christien Camara Lasean Kodi Mali Demarie
 Demetrius Deshaun Esa Gaalen Keita Kely Ariann Georgy Jamell Ji
 Justi Martrice Reshon Roshon Shawndell Shondel Taran Blue Brandyn Brittain
 Chaka Criston Erike Yardley Cassidy Dannon Dashawn Dayan Deshane Han

Jerzy Khristian Phalon Phoenix Sacha Tristen Tristin Shondell Channin Kristien
Leshon Neko Tashawn Cobi Damari Joo Joset Kelin Lashane Leshan
Malikah Marquel Shai Shawndel Shiva Sony Deshun Java Shiloh Darriell
Imari Edil Jia Kimani Lior Neftaly Rayshawn Rhyen Sheon Taiwan
Torence Yu Dameron Deshannon Donique Shamon Kyrie Taji Deshone Devlyn
Meko Rashaun Arian Demetrise Dharma Jadeen Marshawn Mikko Mishael Montrese
Neco Ra Rane Rochon Roshun Shamar Ashanti Aries Shilo Cheney
Jayde Osiris Chi Iram Koy Mico Tao Wei Aeron Arrin
Arrington Blu Cheyney Jalon Jericho Kyley Marqui Mikele Montique Perryn
Shaka Tarren Tarrin Tawan Tayari Trinell Wai Kyri Janal Turi
Chanon Nikko Torii Aquarius Brae Brantlee Jawan Marki Mashawn Noa
Shonnon Shylo Torino Andrean Gabriell Jaquel Luv Raeshawn Reshawn Taree
Altonia Brittin Catlin Chae Chez Cristan Dashell Deaundra Jadean Jamaine
Kijana Krish Laquan Maki Marshon Nicco Shajuan Shanne Shawon Tavish
Terrice Timber Tishawn Toshua Yasha Demea Adi Alika Joon Aaren
Dashan Ori Aki Ako Amery Jermanie Torance Baraka Britten Kenyata
Rasheen Andrel Arrow Billyjo Briar Chane DeeJay Deshan Diarra Heathe
Irin Josha Kindell Nairobi Rejean Semaj Toriana Ta Shamone Chianti
Ayodele Brandis Aryn Shey Traice Ashante Kindel Leshun Marchand Meiko
Mishon Rondelle Chea Lashaun Shaheen Tyrese Abraxas Adrienn Chene Darshan
Jandy Johari Katrell Kenyotta Maika Ocean Parminder Rael Rya Shondale
Tacoma Teva Tyan Zuri Keyon Akili Kenyatte Videll Iman Vashon
Tramaine Dorrian Kenyada Kiowa Rashid Shale Azriel Taiwo Cayle Cedar
Mercury Sham Antiona Arren Azariah Fallon Keyan Lashaw Mikah Sai
Taki Tash Tierre Yoni Meco Uganda Nicko Ayo Chandar Tajuan
Tanish Cobie Jovonne Moon Neema Tanaka Tekoa Danyal Destine Runako
Samar Shawndale Yarrow Akida Bianco Donyea Gaberial Ajene Kalei Keshawn
Nehal Apurva Brandell Denim Deshay Eren Hany Jaimey Jalani Jorey
Jourdan Jullian Micaiah Ragen Rayn Yannis Nature Mackenzie Aaryn Avian
Gin Kareem Malikia Demitrice Idrissa Kashawn Kristain Magic Olayinka Soma
Abimbola Adama Charone Chrishawn Jacquise Koree Ly Na Nashawn Pele
Ryna Shermain Tashon Uchenna Vershawn Free Nakai Cimarron Jaimeson Zaire
Amari Donae Erine Kodie Nakie Tu Yuma Charlemagne Chey Deundra
Jamilé Juri Kairi Kierre Lequan Ryen Yamani Latrail Devyn Elham
Kweli Mega Shadon Shi Trinity Apache Brittan Camryn Chantra Danila
Deondrea Jolen Kayse Kessler Kyan Lawon Maiko Markelle Naki Neshawn
Rei Saron Satya Shadow Shawntrell Tian Tranell Snehal Shalin Tran
Caton Dung Nguyen Tyrie Akai Kamil Shadi Adisa Amen Arrion
Islam Kesley Luka Najja Nuri Santonia Suhail Anh Asante Ash
Ayan Azizi Danai Delancy Jasdeep Jawon Kashka Kennyatta Kenyota Matti
Naphtali Puneet Raylan Scotland Shantez Shukri Tallis Teran Tien Yun
Azure Collyn Clancey Emmanuelle Kenyell Lien Mykel Shaquan Tavita Trishawn
Yamel Cha Chau Damarie Hoa Jaree Mykal Nakoma Naseem Omotayo
Thanh Gerren Corian Alexy BaoMichah Aarin Abrian Divine Fonta
Jontae Mandeep Aiman Audi Avion Bandy Blakeley Brannigan Brionne Casey
Chaska Dai Gabreil Gabriel Jacyn Jwan Khanh Manpreet Marquie Samora
Senica Sevan Shoney Sincere Tarran Trenity Jehan Nyia Jihan Niger
Yanick Jacole Tennell Ehrin Oluwatosin Brecken Hien Mattia Shalen Shamell

Temitope Arsha Arshia Doan Domanique Domingue Jee Jovi Kishon Nickita
 Noha Ping Quanta Salud Tamarr Teshawn Jontue Rhian Lam Chen
 Joshlin Keagan Daylin Donsha Garyn Keonte Mazi Rameen Ti Abijah
 Amadi Deavon Demery Jaquay Joss Kamali Kehinde Mako Montea Norell
 Schyler Surya Maxi Abiola Nijah Femi Jentry Ramee Chai Dior
 Keyonta Kirin Lavonta Nassim Royale Tamba Devvon Jovonn Kalle Keante
 Kerian Kili Ling Maciel Marjon Shamik Shavaughn Talin Tanay Arien
 Kene Jonta Anoop Davan Koa Laquinn Shammah Donye Kamari Khali
 Lakota Riko Shin Amandeep Aryan Camren Chastin Donshay Elisah Jacquay
 Joplin Keonta Koty Mychel Shadee Shamarr Deaven Camil Shu Un
 Aba Adebola Brin Copper Hannan Kumari Shevy Sri Yoon Antwana
 Bryann Cypress Jasey Mehan Quian Tionne Kiko Atari Germany Saman
 Ramiah Shiraz Ishi Jemiah Quante Shamari Brookes Cairo Chade Kealoha
 Kelechi Lerin Narayana Adali Adeyinka Amrit Ashlin Azhar Bai Bleu
 Dakotah Jamaris Marquee Meng Ryn Tone Vegas Ju Lakee Vy
 Devinn Harpreet Jaryn Jovann Shola Terin Camen Coti Deavin Janvier
 Kimari Mong Oshea Seville Shamere Shamil Shaylon Shemaiah Kao Dontia
 Alaa Jamere Seng Tuyen Emon Nai Tho Ying Abriel Adryan
 Ajai Brenn Doua Gurpreet Jahara Jariah Nghi Shoua Tylar Yari
 Kang Avanti Dao Krishawn Nasim Soua Sully Airen Cameran Ching
 Krishnaun Aby Canan Fatin Jacquis Kaimi Kalae Kendre Kiante Macaire
 Mycah Nalin Nao Sae Savonne Tamaris Yi Argelis Houa Yang
 Kylen Skylor Jamiah Jaspreet Bora Bracey Ge Jasmon Keishawn Masada
 Sabri Uzoma Afsheen Alexis Cache Deontra Desmone Diamon Giang Jasman
 Jasmond Jermany Johntae Jupiter Kenly Khalis Kham Mital Nur Ryley
 Wen Sokha Astin Jovanne Yury Jury Journey Xai Xue Javone
 Jerusalem Katari Brandel Bridge Chrisna Corren Deshante Diep Dristen Jeryn
 Jordin Kelyn Phan Shaylan Siu Sopheap Tokunbo Vallon Trystan Arya
 Chaise Chezare Cagney Kha Chayse Jabri Kayon Kelen Oluwaseun Sa
 Say Sok Tauren Yue Caylen Donshae Halen Jontay Nissan Raheel
 Auren Tristyn Vanny Austyn Phalen Thuong Jaylin Mckell Tolulope Tyrea
 Vallen Cailen Dristin Kashmir Kaylor Simran Trashawn Airin Briley Brittian
 Codee Cotie Daylyn Jarae Kamerin Kanan Lakai Neng Sea Valon
 Infant Colbey Hau Perris Airon Brighton Brogan Hardeep Jazmon Jordie
 Perseus Tuong Amauri Arias Branigan Callahan Cameren Cartier Chantha Coey
 Da England Jazz Kailen Ker Keyshawn Krystian Rany Rorey Uchechukwu
 Tyger Shamair Colbie Asten Camerin Evann Sarin Tra Caylan Elya
 Chiron Damaris Dima Jaqui Kamaron Nekoda Nohea Sheen Shing Sukhjit
 Sylver Allex Ragene Chatham Navdeep Corrigan Talor Zong Anmol Brye
 Kharis Marquelle Ratha Skyy Sophear Soriya Ya Santanna Ting Evyn
 Jazzman Daneal Deaundrea Kevi Yarden Anay Arryn Brione Dominique Emanuelle
 Ferrari Kolbi Mykell Temitayo Tylyn Valin Xiao Narin Britian Mattison
 Rhen Sophana Anik Bayan Brya Carsen Larelle Shie Alin Brenin
 Darean Jardin Ko Salam Shayon Shyler Skyeler Dominique Doninique Ashtin
 Colbi Ashten Channy Sitha Kamrin Shamire Camarie Chandara Domineque Jontel
 Kayde Micale Shaughnessy Sokhom Teagen Domenik Dominek Dominique Kallan Kendelle
 Mykah Rothana Sophanna Suad Suman Tamare Teegan Mykael Alexx Caylon
 Jazmond Kashmere Mackenzy Mikale Sayre Tha Armani Cayton Ku Makana

Nazaret Schylar Shahed Faran Ferran Sothea Jaqua Olamide Shande Ashden
 Ashlon Baley Cayse Destri Kace Samon Sovanna Weslyn Camrin Channing
 Cyan Jandel Kaelen Kyre Lunden Sonam Talyn Tarae Teigan Karrington
 Kolya Aley Chayanne Alexandr Asriel Daryan Delorian Devian Esli Jireh
 Kylin Lexington Neima Riely Sagan Sarom Shakti Wrenn Yinessa Ashtan
 Jante Laquay Mckenzy Pariss Abir Amyre Shaquel Abrar Amanpreet Bless
 Kayler Kionte Laquarius Melek Myan Shavontae Yeshia Braylin Kodee Maison
 Wisdom Hamdi Jamisen Lundon Qamar Saber Armone Breion Dacota Dayln
 Dor Evian Jhordan Matteson Mishal Zhi Sagen Kairee Mateja Blakelee
 Daly Kailan Dontavia Kawena Rotem Se Alexiz Asheton Aury Cordae
 Elian Emari Honour Jaquell Jaquise Jasmeet Kameryn Kashe Kolbie Leeor
 Mang Matisse Mckel Quincee Raylee Unnamed Yuuki Dasmine Kerrington Kiari
 Ryian Avante Chisom Davionne Desmin Jaz Jesee Nil Ryin Toryn
 Cai Cree Deavion Francesc Graysen Kahri Kazi Kersey Kiare Mykeal
 Shinya Shiya Ski Skiler Skyelar Tylin Ye Zacharee Jordain Navjot
 Blayke Britan Cortlyn Gabreal Gagan Shaddai Tagan Asian Avry Breyan
 Brier Damilola Esly Giavonni Jacinth Jacquell Jaquese Javoni Jaydeen Jermani
 Kallin Kameran Karsen Keontay Keyunta Kristyan Larken Mykale Rayel Shamichael
 Swayze Tajai Tavonne Tyme Kiree Ameya Dylin Haiden Keyontae Mayson
 Sukhdeep Brentlee Breonte Chanler Chayan Darae Gurjot Hady Kairy Kayland
 Khyrie Korbyn Rielly Senai Shaquella Shayde Adonai Armoni Cailean Donyae
 Giordan Jesy Jimin Kolbey Manjot Raevon Reiss Samuela Samuelle Skylier
 Tanveer Taylen Ismar Malakia Breshawn Javonni Jourden Mayan Samari Broghan
 Jourdin Kadian Leny Caelan Giani Harjot Jahzeel Jinan Keaire Kelynn
 Kwanzaa Majd Mekel Morgon Mylin Sameen Santrell Zavia Diamante Infantof
 Dillyn Jodeci Nakota Taje Tieler Khorl Ofir Courtlin Jaiden Caylor
 Gagandeep Hadyn Imar Kamani Keilen Logen Manmeet Mccauley Aijalon Ivory
 Blaike Capree Elijah Jamani Javae Kevonne Londen Mani Raylin Sachary
 Shakell Takari Taylan Terae Xzavia Shaquell Cashe Giavanni Ayrian Kahlee
 Andriel Kylar Liron Mor Elishah Gabrieal Jaquae Shamonte Tazmin Tiante
 Ariya Ashay Ayomide Breaun Connelly Dylann Ireon Jacobia Jadin Kalai
 Kariel Kemari Kionne Manveer Miciah Mirage Nahid Nyjah Reiley Shaden
 Shayvon Trysten Yarin Demaria Grae Dacotah Darrein Dilyn Keylin Chrishaun
 Dakkota Harsimran Mackinley Peris Reily Reny Tenzin Zacari Brenryn Caelin
 Dali Darryan Demaree Deryn Deshonte Destyn Devyne Dilpreet Dilynn Alison
 Haben Hikaru Kaegan Simranjit Bradee Trystin Aziah Kauri Najae Ravneet
 Slone Agape Arrian Kayton Lyan Makell Preet Avriel Cambridge Chaquan
 Darrean Jaelin Jianni Kyrin Malachia Oluwadamilola Oshai Shaquane Damarea Jayln
 Dakodah Dakotta Dekoda Jaelan Rajdeep Breckin Dilyn Mclane Rien Shams
 Tyjae Arri Fathi Haydin Heli Jaloni Jensy Kyante Machenzie Miccah
 Mikhal Rayen Sklyer Tylo Ugonna Victorious Zacaria Zhane Tajae Chandler
 Daryen Majestic Ariyan Justise Mikayle Dariyan Loghan Sakari Ashe Blessed
 Cady Camari Jandell Jaqualyn Kady Login Mahin Naje Paiden Yani
 Adar Aleksis Amaree Chidera Gabryel Haidyn Ilian Jadian Keatyn Kirian
 Mursal Rajae Shaquez Taite Tilar Timari Jadan Kenyari Laredo Chigozie
 Makay Pheonix Prabhjot Riyan Jaydin Kayman Kemani Oluwaseyi Regen Rylin
 Zyaire Avere Braxtyn Callaghan Jaydn Jlyn Kire Lakoda Mian Nesly
 Nocona Phenix Reign Rieley Seton Skylur Subin Tahjae Tahje Kache

Najai Emone Aoi Eniola Jaedyn Ajae Aubin Jaidan Mckinnley Ogechukwu
 Sukhpreet Aalijah Callaway Daryian Jahaan Khalyn Malijah Nijae Sheldyn Shine
 Skyland Unkown Ahmari Avrey Demauria Tru Mccartney Ryver Aerion Jamarea
 Jamoni Aeon Aryon Bradlie Gurkirat Jailin Kahlen Tahari Tahjai Tahsin
 Abishai Aimen Amran Asanti Braelin Brenyn Damoni Dashane Graye Jahdai
 Jaire Jamonie Kahlan Kahlin Kerrion Maeson Masyn Mattingly Reace Sarang
 Sathya Schuylar Sneh Jaidyn Bralyn Jahnai Kamalei Alija Alyric Baylin
 Braylyn Dashel Hilal Jasi Kierin MacLaine Maysen Mykelti Reven Rhiley
 Tupou Aivan Ayaan Kalijah Kierny Kymani Logyn Lyrik Ryce Saje
 Kirklyn Riese Aleks Jie Trystyn Areon Erian Jaedin Jahni Jailan
 Jamar Kamaree Kimoni Laakea Maciah Takai Aaris Arshdeep Bar Coi
 Jaskirat Kamarri Kindred Kiren Rhyse Semaje Taige Tieran Zarin Bayly
 Sayge Jonnah Keimani Keymani Asonte Bailyn Katin Lyrick Maisen Rahja
 Tiegian Amoré Bralen Chapel Cire Opeyemi Reilley Sukhman Tasi Tochi
 Tajay Rahat Reise Trew Chevie Aidyn Alaye Breylin Delijah Demoni
 Gianni Harmeet Jasiri Kemoni Madden Nation Scyler Tyjah Xian Amisadai
 Armanni Camdyn Jaziah Kahler Kahmari Keaghan Keylen Mahari Maui Michiah
 Onyekachi Peniel Remmy Sailor Tyjai Tyrion Zohar Amarri Dessiah Armanie
 Yacine Kadison Calyx Jatori Rmani Alijha Armonee Bristen Bryley Dawnte
 Lamari Psalms Temiloluwa Armari Ashai Chastain Danye Elim Haiven Ijah
 Ilhan Jaydyn Johany Laterrian Mathison Mekiah Nirel Paxtyn Ridha Riel
 Stav Syan Taegen Taijae Tamron Tatem Tresor Pacey Eisley Tenzing
 Dawsyn Harkirat Amori Braidy Braidyn Graceson Harmanpreet Julani Kamoni Kmari
 Nakari Skylr Tagen Tziah Aireon Aldyn Alique Arreon Calvary Damonie
 Graison Jaylyne Khole Layke Lenyn Peregrine Rahi Sakai Somtochukwu Yanis
 Ariyon Arieon Aurion Areyon Cailan Yareth Amarii Juelle Deaveon Jaidin
 Taytem Ayron Huntyn Kaidyn Oyindamola Rafa Tsion Aareon Anias Aubren
 Azari Brynne Deovion Haedyn Jhai Kamdyn Kamyron Konnar Kymoni Lijah
 Lotanna Maven Noname Shemari Temani Zaide Notnamed Reyhan Zamari Zekiah
 Kaedyn Siah Zion Cyncere Finnley Janari Teigen Adyn Chinemerem Kemonie
 Kolbee Najay Pranjali Rily Shion Deivion Emauri Jariah Kamauri Kanai
 Karion Kelijah Nasiah Navi Nijay Odera Psalm Sevin Skylen Gemini
 Amillion Anael Oreoluwa Ifeoluwa Tallyn Yaret Aurion Deoveon Jadis Karsin
 Tateum Aideen Caidyn Camlin Cassiel Dalys Eaden Esosa Jhordyn Leelynn
 Sakhi Solace Safi Sani Ariez Fenix Jaylenn Tione Jaden Lochlyn
 Naziah Nermin Qi Rhythm Riece Romani Soul Taymar Arya Benet
 Davae Ekene Ekin Hananiah Isia Jassiah Kaydn Kyi Kymari Lennix
 Riley Thienan Trust Harnoor Hero Iyari Braydee Brighten Jorah Sekai
 Tsering Amaurie Aviyon Dearion Haydyn Jarie Jorryn Kenya Khamryn Maycen
 Mcallister Aarian Amary Breece Deylin Eriyon Io Kaydyn Kiryn Manhattan
 Neylan Oshen Rhyen Sahej Tijay Shyne Lennyn Jahel Paycen Reyan
 Tamauri Taygen Atzin Bly Jael Jhayden Quetzal Rhylan Zaly Abey
 Boluwatife Burkley DailinDmani Jeylen Kency Nyaire Taelin Taigen Teagin
 Tkai Toluwanimi Ziyen Taygan Jewelian Oluwatoni Jahmiah Jakaylin Macaiah Macayle
 Zi Cashmir Jaxyn Kilyn Mati Shamaree Aamari Amahri Amaziah Ayooluwa
 Ayren Bemnet Bentley Camryn Dariell Dezmy Eastyn Elysium Graesyn Juliani
 Kayen Khiari Oluwatomisin Raeden Shamauri Taydem Zai Krishni Denym Aimar
 Simar Teagon Kosisochukwu Zaiah Jasiyah Jaylien Kayan Dionni Shailen Conlee

Danari Jaydenn Julianni Kemaury Kensly Lakeland Neziah Oluwademilade Peja Theryn
 Torryn Ajalon Brylin Kylian Maize Namari Rayli Aliyan Mizan Oluwapelumi
 Rumi Yuriah Brekyn Gracin Ibukunoluwa Joud Juni Kashi Maclaren Mckenly
 Nor Raedyn Reili Khamani Kunga Eisa Life Ruari Chosen Kamori
 Nyel Samaury Temidayo Wrigley Bostyn Ezariah Gurnoor Jadenn Khalee Nyre
 Skyller Tayde Omani Abyan Jasmir Nessiah Wriley Aryian Azarya Emrey
 Kadynn Oluwanifemi Rhyley Rmoni Tacori Amanti Espn Camani Agam Jasyah
 Khamoni Zy Azaryah Hemi Jiwoo Jostyn Keymoni Prabhnoor Sanay Amarey
 Anesti Edden Kanari Keimari Markai Yali Yoltzin Zaelyn Kaena Toluwalase
 Tayen Makayden Toluwani Jaydence Keating Oluwatomi Shadyn Abiyah Amouri Amryn
 Declyn Fiyinfoluwa Hudsyn Jaimison Jaydynn Kaidynn Kaigan Kamsiyochukwu Kanyen
 Krymson
 Loyalty Sabriel Sehaj Trelynn Uriyah Zani Kailand Ale Tegen Camaury
 Espyn Yandy Jadyne Jeremy Lamoni McLaren Paysen Avyn Ayomikun Creedance
 Myaire Owynn Sovereign Azeriah Emjay Acelin Kennison Maddyx Maziah Hargun
 Jamyri Mesiyah Nylen Rihan Zailyn Ramzee Vinci Harbor Macari Makhari
 Yarel Athens Jazaiah Keagyn Ngawang Nouri Xyon Zeal Alii Atreya
 Bailor Breslin Ekam Jaylein Jazari Kamaurie Lenix Madyx Messiyah Seraph
 Sinceer Inioluwa Erza Grasyn Breez Cashlin Jermyah Kamorie Rainn Syren
 Admire Akon Alai Amarin Baxley Bentli Euriah Honest Jaidence Jamesyn
 Keimoni Nylin Ryelin Shiah Theory Traeh Tylei Zyian Jayel Kemori
 Zaylyn Harjas Linkyn Riyaan Zoel Adryn Eh Imri Kamarii Nassiah
 Skyland Adason Adoniah Aires Laylen Munachimso Ryel Success Temari Zakariyah
 Graycin Graisyng Kaygen Maitreya Aidynn Azayah Jahzel Skyylar Teygan Zahari
 Bradynn Finnly Jaazaniah Musiq Steely Peyson Camaree Dangel Drelynn Haize
 Lohgan Memphis Riven Xyion Altair Audyn Morrissey Remey Winner Yandi
 Zamarie Zaryn Munachiso Gabriyel Jasyiah Kacyn Oluwadarasimi Harlym Moo Connolly
 Jorah Nyx Peyden Tinashe Zalyann Haydenn Lennex Pennington Armahni Greylin
 Haram Moyosoreoluwa Oluwatise Phinley Yuchen Kaisyn Kentley Ziel Ashdyn Khouri
 Knightley Munachi Rhemi Juneau Khilyn Krosby Raily Syree Vishva Brees
 Bentley Cadrian Demilade Finau Zihan Ayele Kingslee Lawsyn Poe Rhemy
 Oluwasemilore Bixby Loxley Phoenixx Addington Arys Azaniah Byntlee Dah Irah
 Jayonni Joyden Semajae Caisyn Hser Soe Astyn Braylenn Crosley Jeylani
 Rozay Aroosh Bravery Jeel Laylan Lenyx Lyndan Maesen Oluwaseyifunmi Reylin
 Waylynn Kylenn Chigozirim Neyamiah Erioluwa Soryn Yuxuan Mathai Braxtynn Kentlee
 Moxley Collynn Finnlee Rauri Aavyn Ayoola Bristin Khalei Levian Lyrix
 Oluwajomiloju Zixuan Chikamso Huntlee Braxlee Noah Credence Meba Alexiel Savva
 Sehej Gatlynn Huxlee Sehajpreet Elliston Revyn Elshaddai Yinuo Aari Logahn
 Yixuan Kamsi Amzi

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