

Importing Libraries

In [1]:

```
import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
```

Importing Datasets

In [2]:

```
df=pd.read_csv("rainfall in india.csv")
df
```

Out[2]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
0	0	ANDAMAN & NICOBAR ISLANDS	1901	49.2	87.1	29.2	2.3	528.8	517.5	365.1	481.1	332.6	388.5
1	1	ANDAMAN & NICOBAR ISLANDS	1902	0.0	159.8	12.2	0.0	446.1	537.1	228.9	753.7	666.2	197.2
2	2	ANDAMAN & NICOBAR ISLANDS	1903	12.7	144.0	0.0	1.0	235.1	479.9	728.4	326.7	339.0	181.2
3	3	ANDAMAN & NICOBAR ISLANDS	1904	9.4	14.7	0.0	202.4	304.5	495.1	502.0	160.1	820.4	222.2
4	4	ANDAMAN & NICOBAR ISLANDS	1905	1.3	0.0	3.3	26.9	279.5	628.7	368.7	330.5	297.0	260.7
...
4111	4111	LAKSHADWEEP	2011	5.1	2.8	3.1	85.9	107.2	153.6	350.2	254.0	255.2	117.4
4112	4112	LAKSHADWEEP	2012	19.2	0.1	1.6	76.8	21.2	327.0	231.5	381.2	179.8	145.9
4113	4113	LAKSHADWEEP	2013	26.2	34.4	37.5	5.3	88.3	426.2	296.4	154.4	180.0	72.8
4114	4114	LAKSHADWEEP	2014	53.2	16.1	4.4	14.9	57.4	244.1	116.1	466.1	132.2	169.2
4115	4115	LAKSHADWEEP	2015	2.2	0.5	3.7	87.1	133.1	296.6	257.5	146.4	160.4	165.4

4116 rows × 14 columns



Data Cleaning and Data Preprocessing

In [3]:

```
df=df.dropna()
df
```

Out[3]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
0	0	ANDAMAN & NICOBAR ISLANDS	1901	49.2	87.1	29.2	2.3	528.8	517.5	365.1	481.1	332.6	388.5
1	1	ANDAMAN & NICOBAR ISLANDS	1902	0.0	159.8	12.2	0.0	446.1	537.1	228.9	753.7	666.2	197.2
2	2	ANDAMAN & NICOBAR ISLANDS	1903	12.7	144.0	0.0	1.0	235.1	479.9	728.4	326.7	339.0	181.2
3	3	ANDAMAN & NICOBAR ISLANDS	1904	9.4	14.7	0.0	202.4	304.5	495.1	502.0	160.1	820.4	222.2
4	4	ANDAMAN & NICOBAR ISLANDS	1905	1.3	0.0	3.3	26.9	279.5	628.7	368.7	330.5	297.0	260.7
...
4111	4111	LAKSHADWEEP	2011	5.1	2.8	3.1	85.9	107.2	153.6	350.2	254.0	255.2	117.4
4112	4112	LAKSHADWEEP	2012	19.2	0.1	1.6	76.8	21.2	327.0	231.5	381.2	179.8	145.9
4113	4113	LAKSHADWEEP	2013	26.2	34.4	37.5	5.3	88.3	426.2	296.4	154.4	180.0	72.8
4114	4114	LAKSHADWEEP	2014	53.2	16.1	4.4	14.9	57.4	244.1	116.1	466.1	132.2	169.2
4115	4115	LAKSHADWEEP	2015	2.2	0.5	3.7	87.1	133.1	296.6	257.5	146.4	160.4	165.4

4090 rows × 20 columns



In [4]:

```
df.columns
```

Out[4]:

```
Index(['index', 'SUBDIVISION', 'YEAR', 'JAN', 'FEB', 'MAR', 'APR', 'MAY', 'JUN', 'JUL', 'AUG', 'SEP', 'OCT', 'NOV', 'DEC', 'ANNUAL', 'Jan-Feb', 'Mar-May', 'Jun-Sep', 'Oct-Dec'], dtype='object')
```

In [5]:

```
df.info()
```

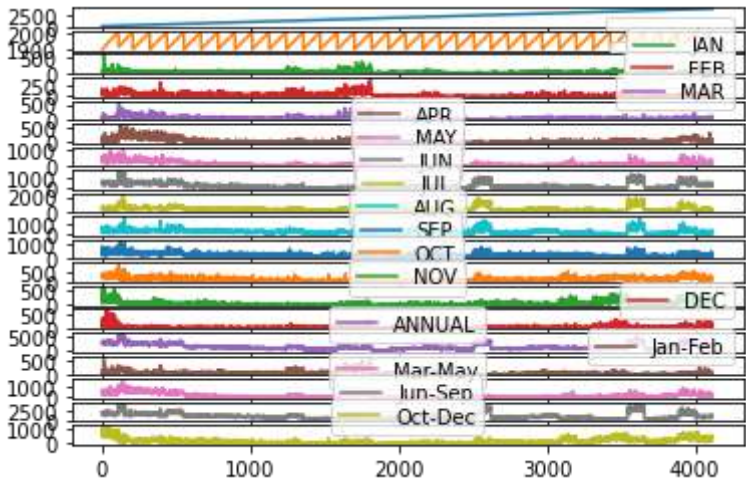
```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 4090 entries, 0 to 4115
Data columns (total 20 columns):
#   Column          Non-Null Count  Dtype
---  -
0   index           4090 non-null  int64
1   SUBDIVISION     4090 non-null  object
2   YEAR            4090 non-null  int64
3   JAN             4090 non-null  float64
4   FEB             4090 non-null  float64
5   MAR             4090 non-null  float64
6   APR             4090 non-null  float64
7   MAY             4090 non-null  float64
8   JUN             4090 non-null  float64
9   JUL             4090 non-null  float64
10  AUG             4090 non-null  float64
11  SEP             4090 non-null  float64
12  OCT             4090 non-null  float64
```

```
13 NOV          4090 non-null float64
14 DEC          4090 non-null float64
15 ANNUAL       4090 non-null float64
16 Jan-Feb     4090 non-null float64
17 Mar-May     4090 non-null float64
18 Jun-Sep     4090 non-null float64
19 Oct-Dec     4090 non-null float64
dtypes: float64(17), int64(2), object(1)
memory usage: 671.0+ KB
```

Line chart

```
In [6]: df.plot.line(subplots=True)
```

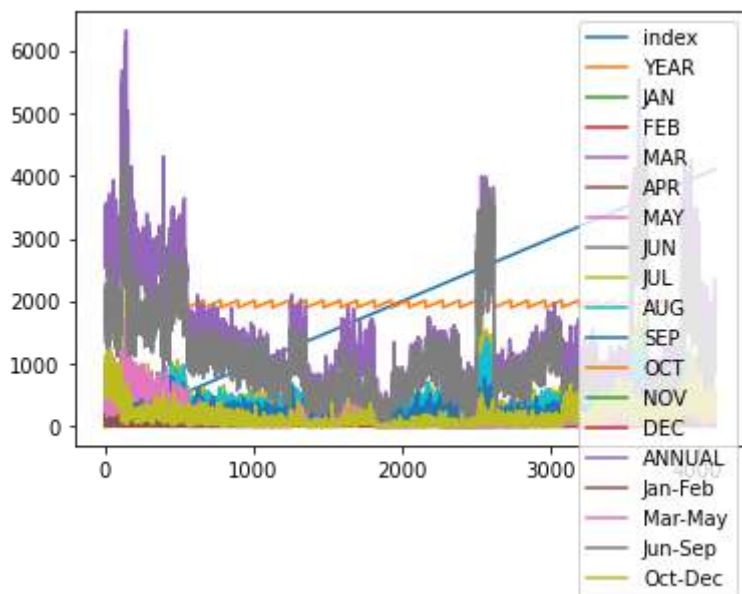
```
Out[6]: array([<AxesSubplot:~>, <AxesSubplot:~>, <AxesSubplot:~>, <AxesSubplot:~>,
<AxesSubplot:~>, <AxesSubplot:~>, <AxesSubplot:~>, <AxesSubplot:~>,
<AxesSubplot:~>, <AxesSubplot:~>, <AxesSubplot:~>, <AxesSubplot:~>,
<AxesSubplot:~>, <AxesSubplot:~>, <AxesSubplot:~>], dtype=object)
```



Line chart

```
In [7]: df.plot.line()
```

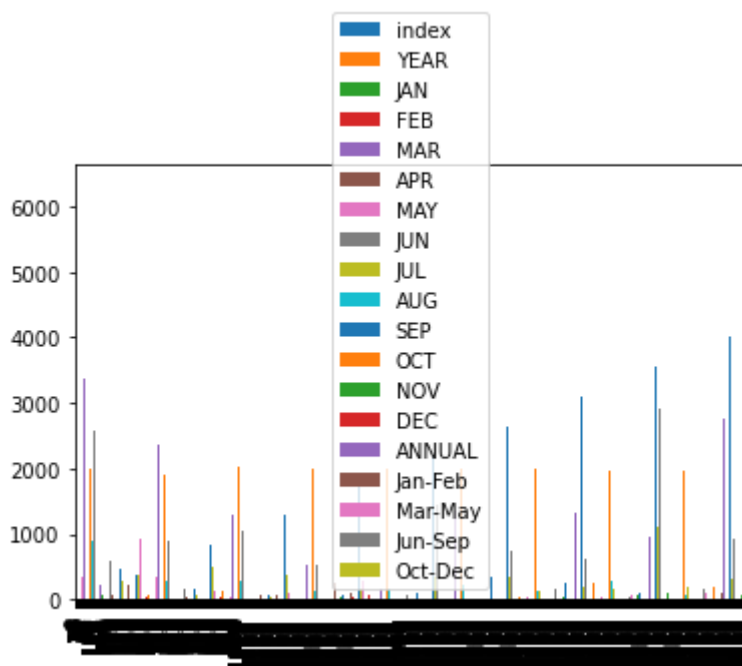
Out[7]: <AxesSubplot:>



Bar chart

In [8]: `df.plot.bar()`

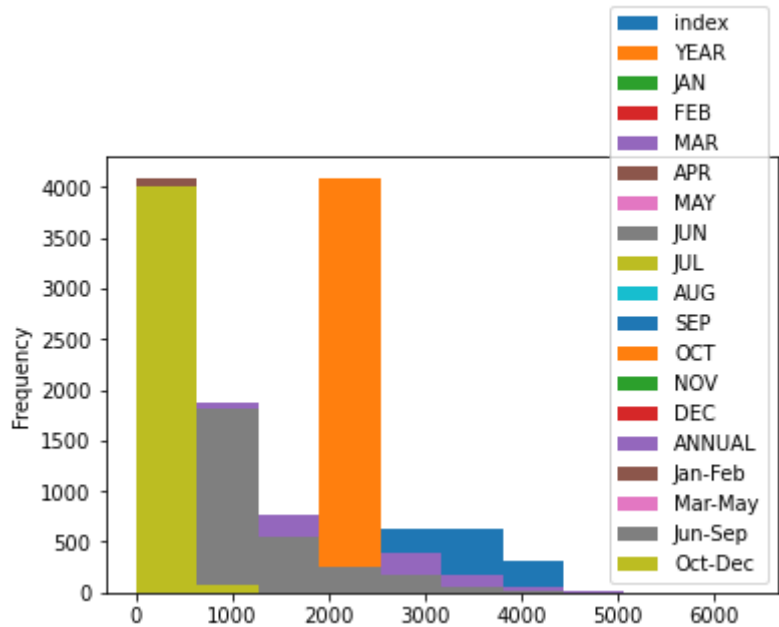
Out[8]: <AxesSubplot:>



Histogram

In [9]: `df.plot.hist()`

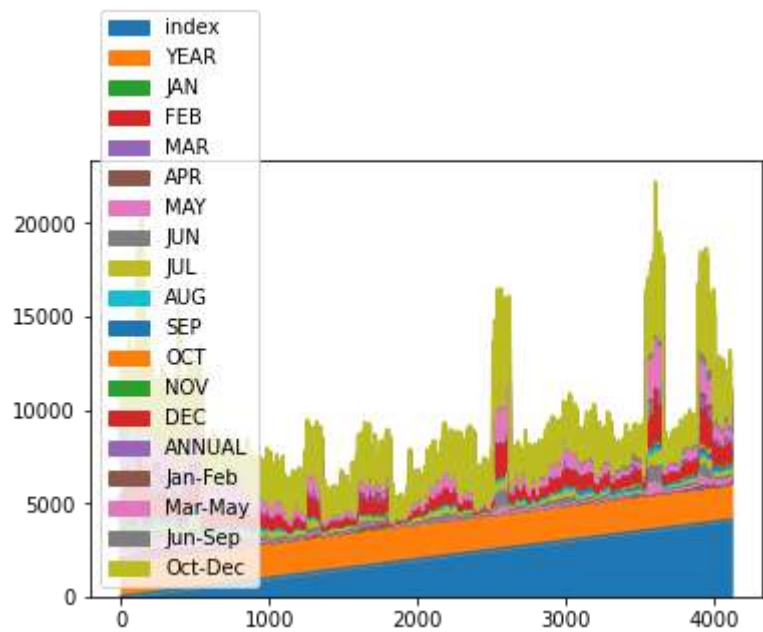
Out[9]: <AxesSubplot:ylabel='Frequency'>



Area chart

```
In [10]: df.plot.area()
```

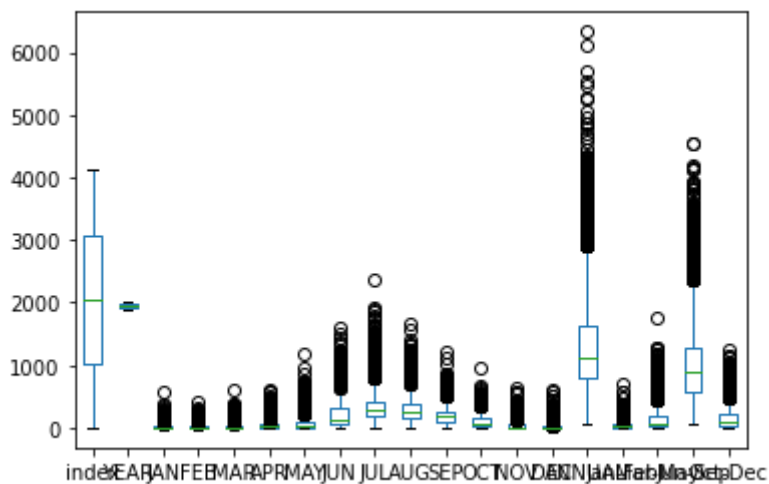
Out[10]: <AxesSubplot:>



Box chart

```
In [11]: df.plot.box()
```

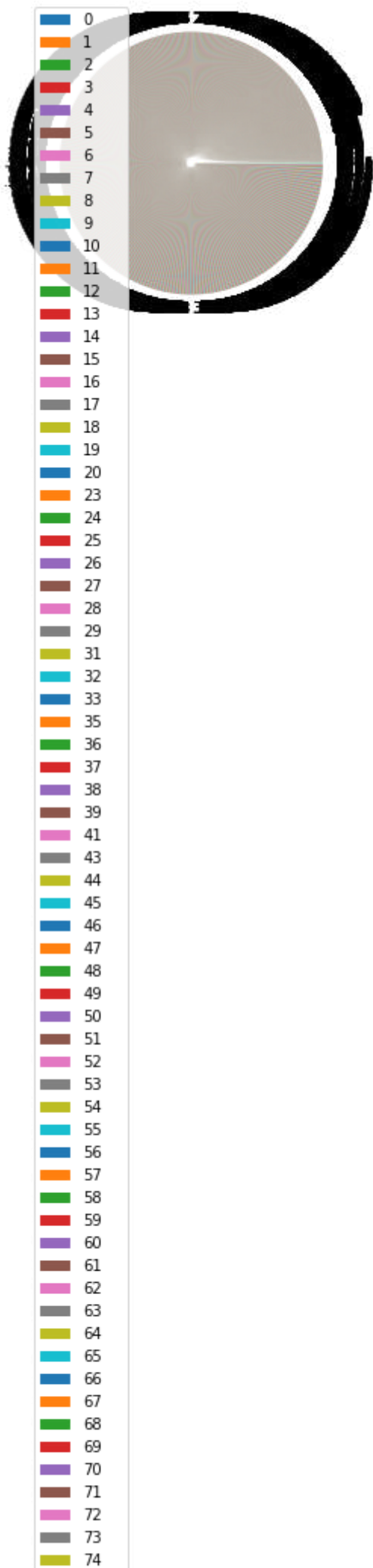
Out[11]: <AxesSubplot:>

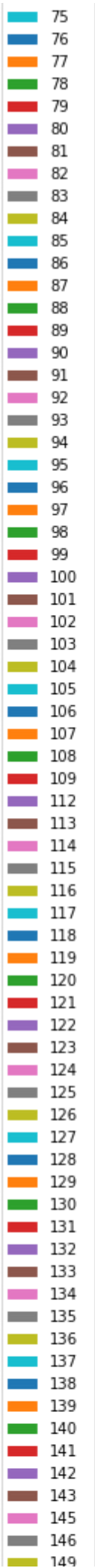


Pie chart

```
In [12]: df.plot.pie(y='index')
```

```
Out[12]: <AxesSubplot:ylabel='index'>
```

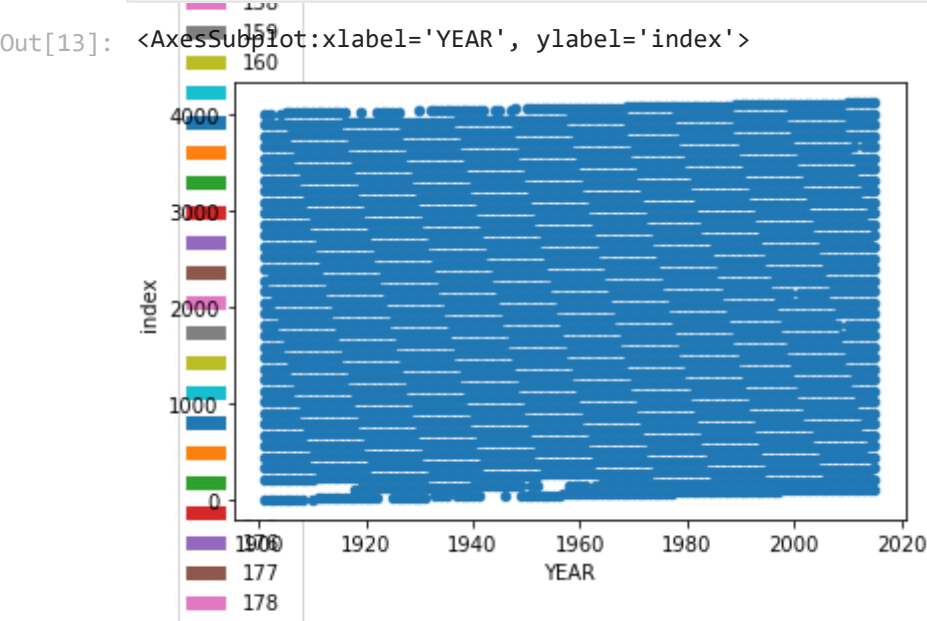




Scatter chart

In [13]:

df.plot.scatter(x='YEAR' ,y='index')



In [14]:

df.info()

```
<class 'pandas.core.frame.DataFrame'>
Int64Index: 4090 entries, 0 to 4115
Data columns (total 20 columns):
#   Column              Non-Null Count  Dtype  
---  -
0   index                4090 non-null  int64  
1   SUBDIVISION          4090 non-null  object  
2   YEAR                 4090 non-null  int64  
3   JAN                  4090 non-null  float64 
4   FEB                  4090 non-null  float64 
5   MAR                  4090 non-null  float64 
6   APR                  4090 non-null  float64 
7   MAY                  4090 non-null  float64 
8   JUN                  4090 non-null  float64 
9   JUL                  4090 non-null  float64 
10  AUG                  4090 non-null  float64 
11  SEP                  4090 non-null  float64 
12  OCT                  4090 non-null  float64 
13  NOV                  4090 non-null  float64 
14  DEC                  4090 non-null  float64 
15  ANNUAL               4090 non-null  float64 
16  Jan-Feb              4090 non-null  float64 
17  Mar-May              4090 non-null  float64 
18  Jun-Sep              4090 non-null  float64 
19  Oct-Dec              4090 non-null  float64 
dtypes: float64(17), int64(2), object(1)
memory usage: 671.0+ KB
```

In [15]:

df.describe()

Out[15]:

	index	YEAR	JAN	FEB	MAR	APR	MAY
count	4090.000000	4090.000000	4090.000000	4090.000000	4090.000000	4090.000000	4090.000000
mean	2057.638875	1958.321271	18.818484	21.644792	27.252494	42.714548	84.868044

	<div><div></div>220</div>	<div><div></div>221</div>	index	YEAR	JAN	FEB	MAR	APR	MAY
std	1182.612736		33.148944	33.521719	35.762010	46.829179	67.264863	122.556801	
min	0.000000		1901.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
25%	1034.250000		1930.000000	0.600000	0.600000	1.000000	3.000000	8.500000	
50%	2057.500000		1959.000000	5.900000	6.600000	7.800000	15.500000	36.050000	
75%	3080.750000		1987.000000	21.950000	26.600000	31.100000	49.375000	94.975000	
max	4115.000000		2015.000000	583.700000	403.500000	605.600000	595.100000	1168.600000	1

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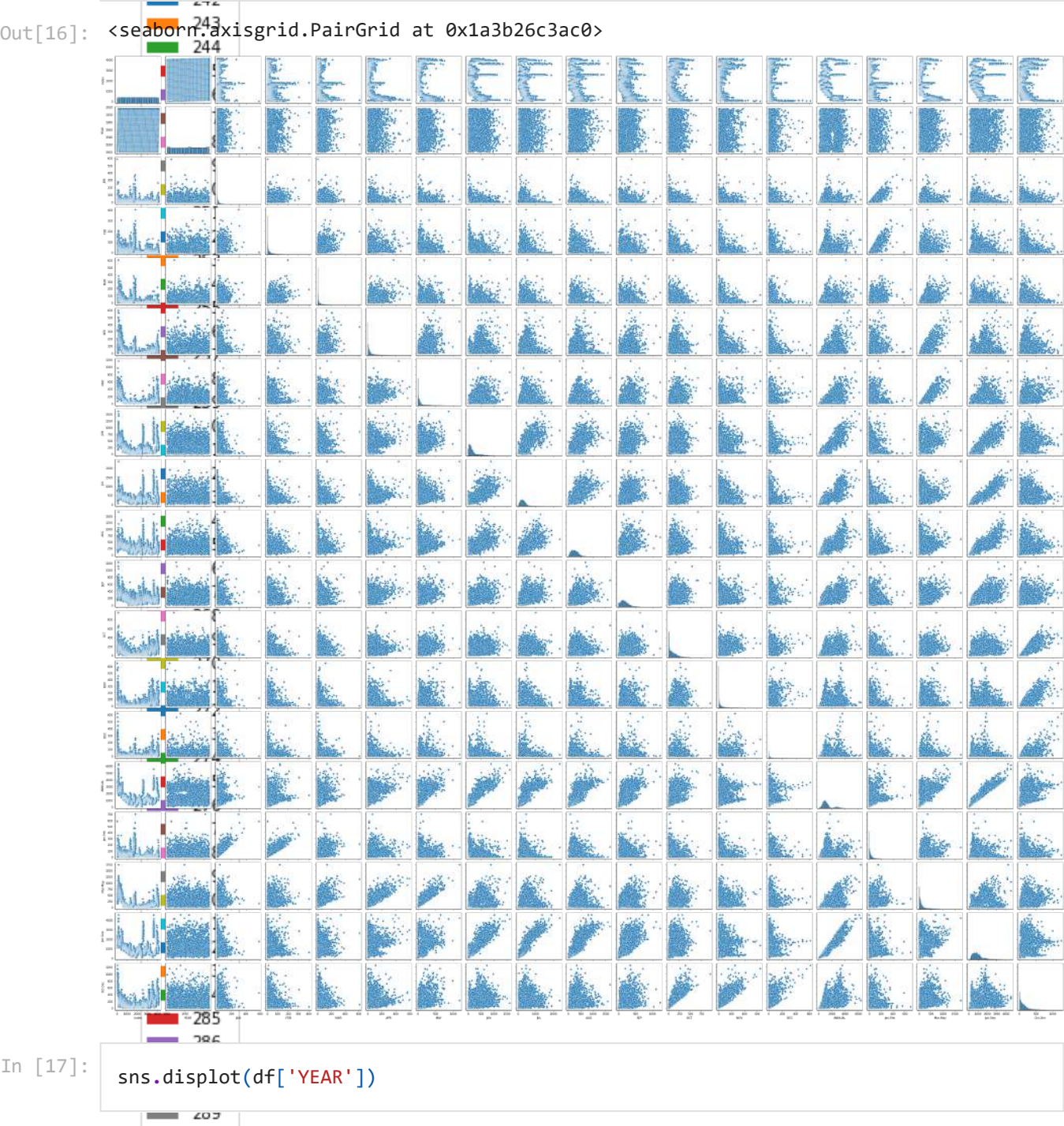
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In [16]:

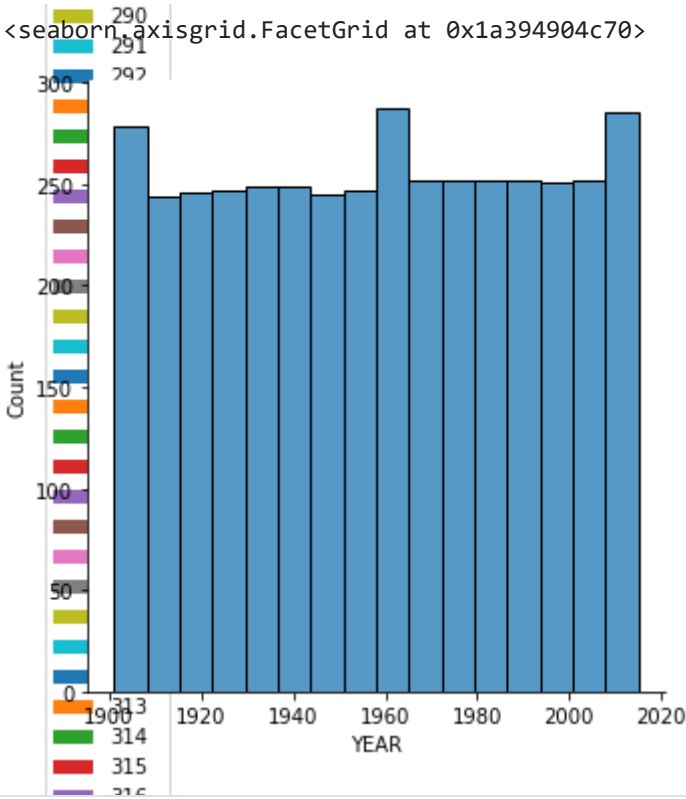
sns.pairplot(df)



In [17]:

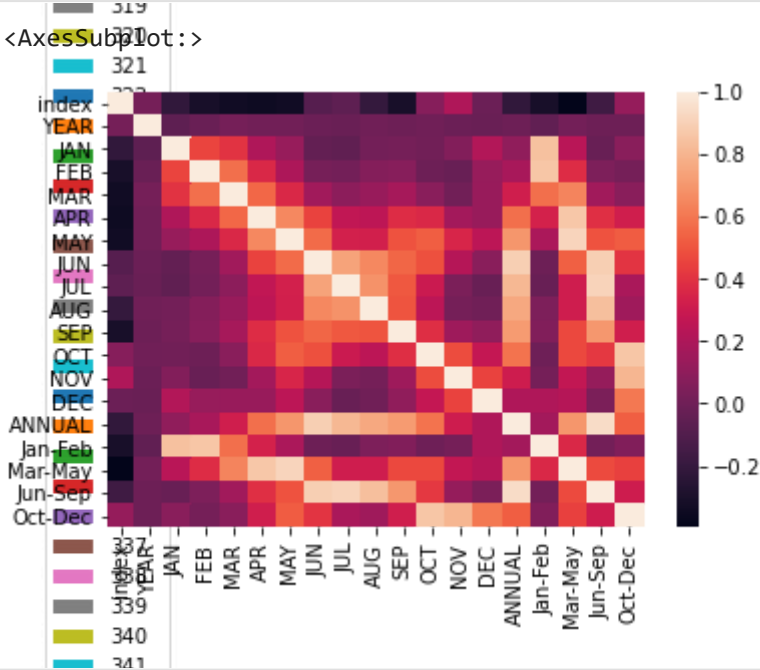
sns.displot(df['YEAR'])

Out[17]: <seaborn.axisgrid.FacetGrid at 0x1a394904c70>

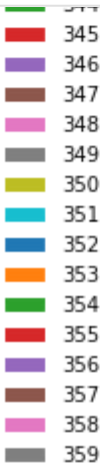


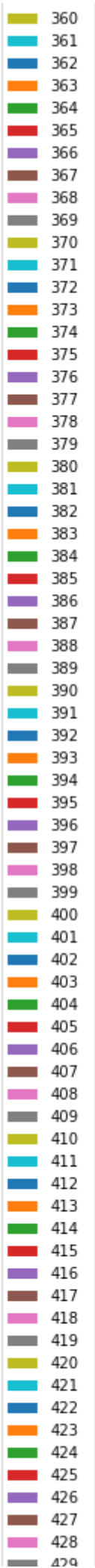
In [18]: sns.heatmap(df.corr())

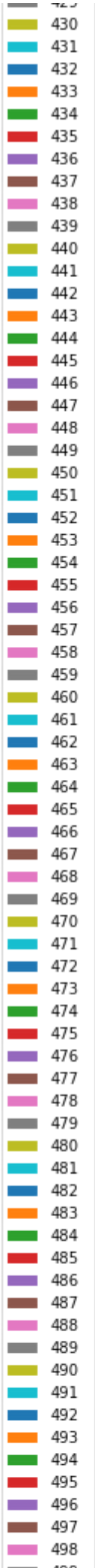
Out[18]: <AxesSubplot:>

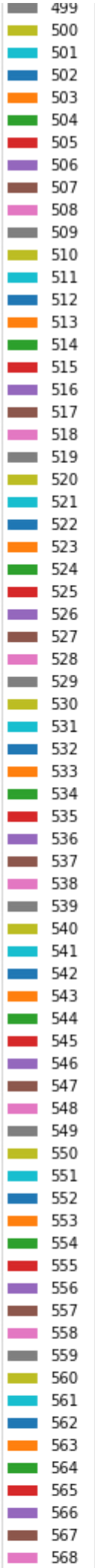


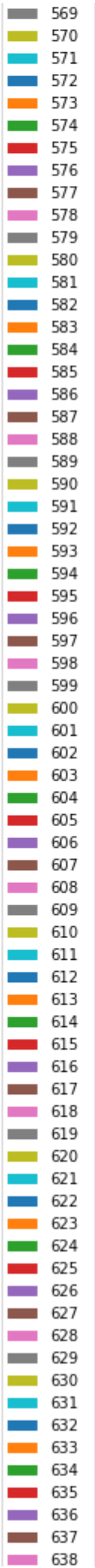
In []:

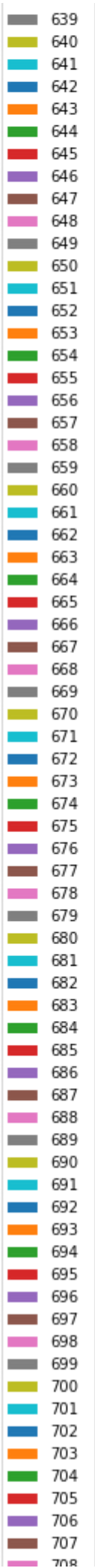


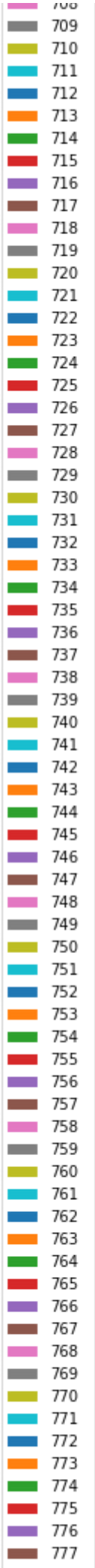


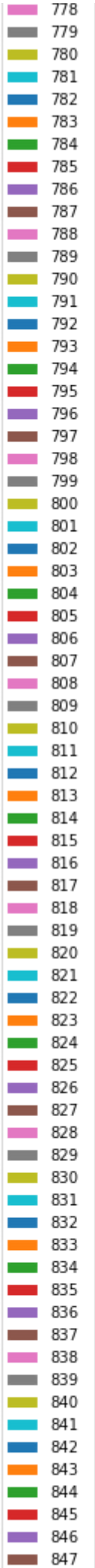


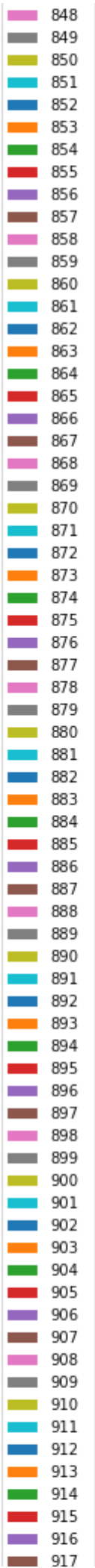


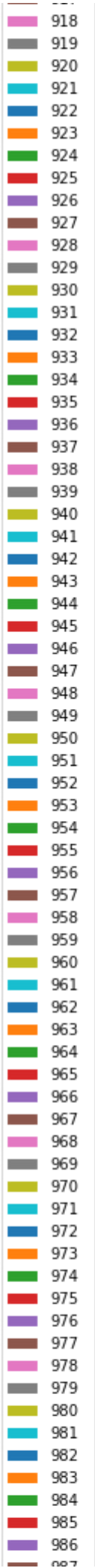


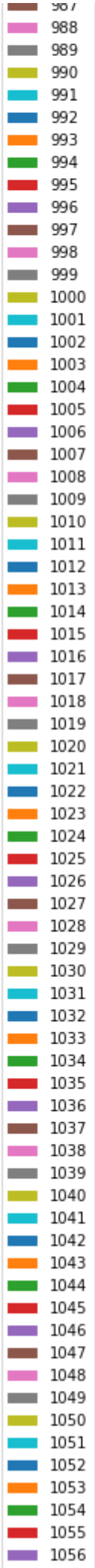






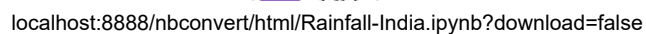






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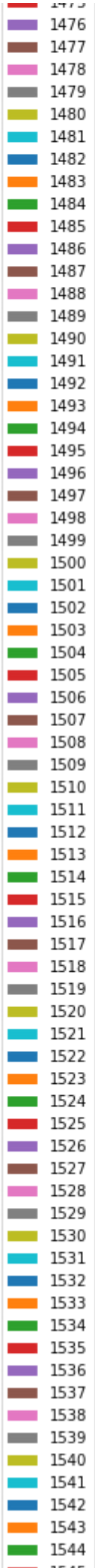
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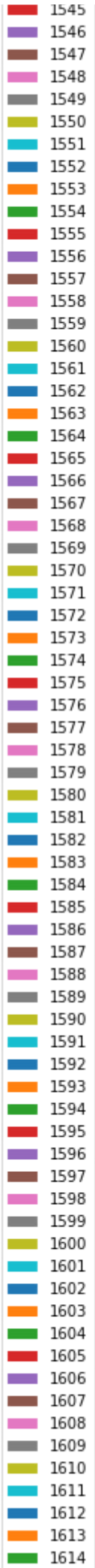


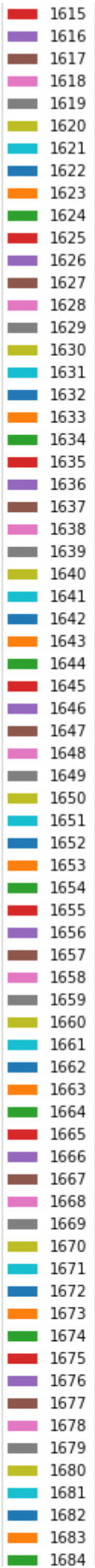
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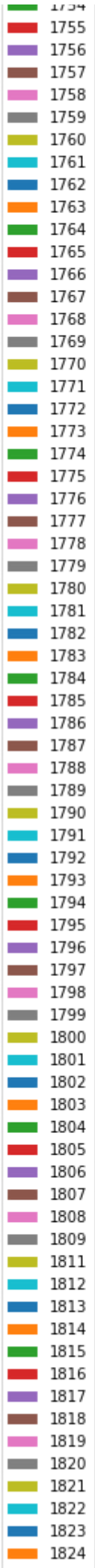
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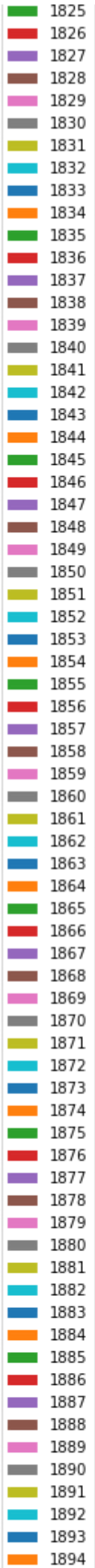




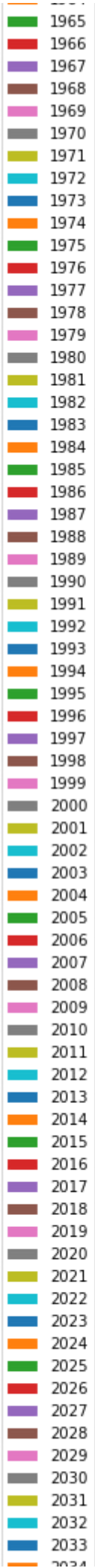


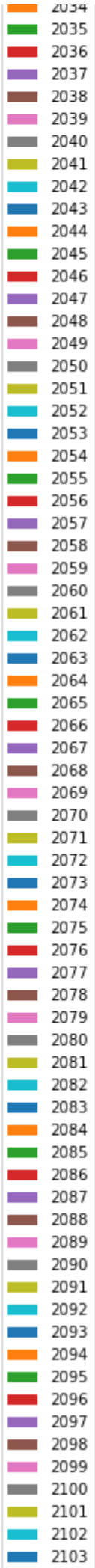










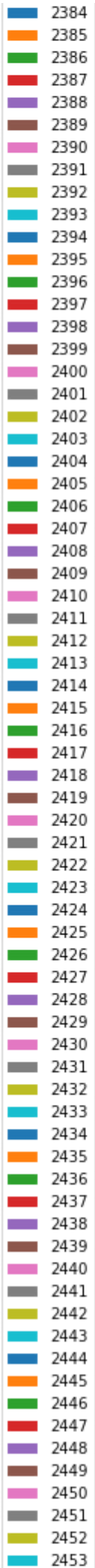


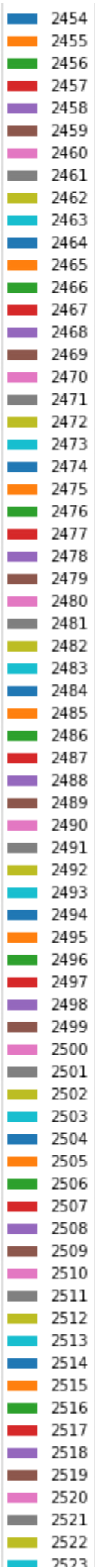
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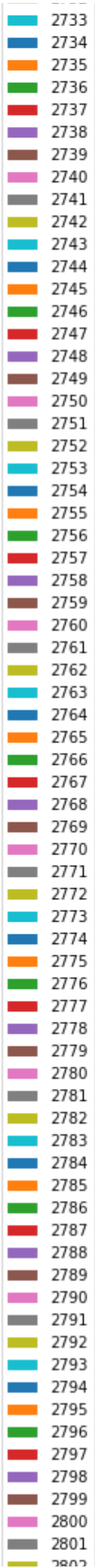


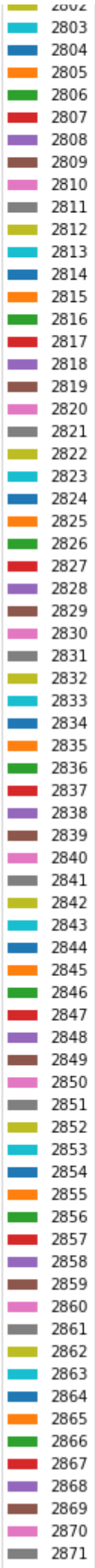


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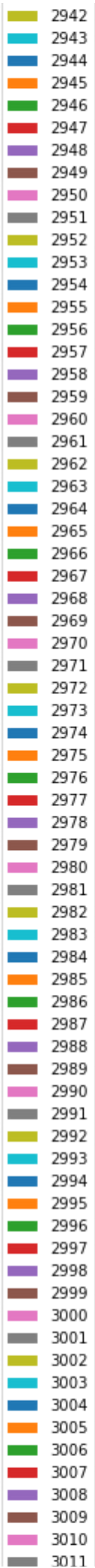
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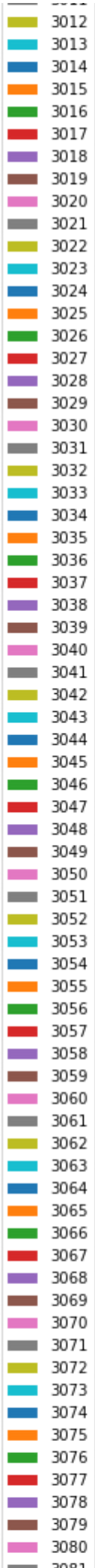
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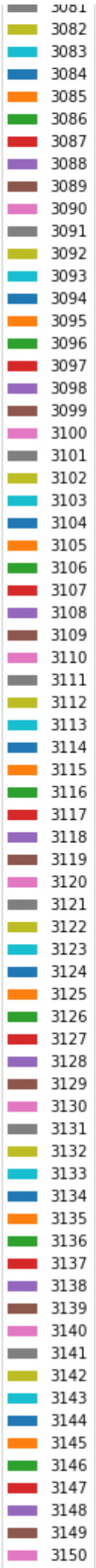




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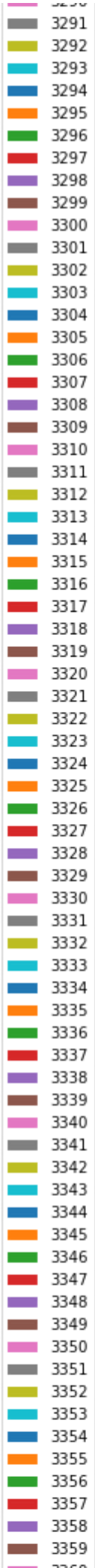






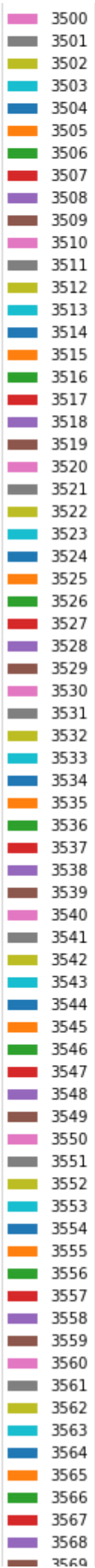
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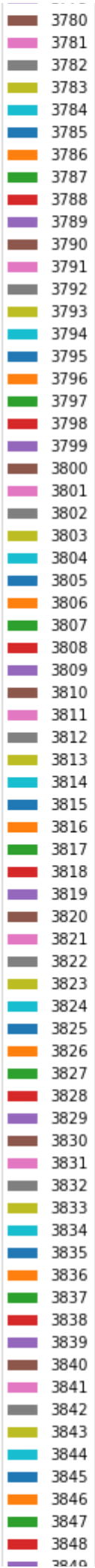
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