

This project is on FDIC failed banks.

```
In [26]: #I obtained this information from data mining the failed banks on the fdic website..
```

```
In [2]: import numpy as np
import pandas as pd
import seaborn as sns
import cufflinks as cf
import matplotlib.pyplot as plt
%matplotlib inline
```

```
In [29]: from datetime import date
now = date.today()
now
```

```
Out[29]: datetime.date(2024, 8, 26)
```

```
In [2]: from IPython import display
display.Image('/home/harlohutch77/pictures/fdic1.jpeg', height=400, width=800)
```



```
In [2]: df = pd.read_html('https://www.fdic.gov/resources/resolutions/bank-failures/failed-bank-list/')
```

```
In [3]: df[0]
```

	Bank Name	City	State	Cert	Aquiring Institution	Closing Date	Fund
0	Republic First Bank dba Republic Bank	Philadelphia	Pennsylvania	27332	Fulton Bank, National Association	April 26, 2024	10546
1	Citizens Bank	Sac City	Iowa	8758	Iowa Trust & Savings Bank	November 3, 2023	10545
2	Heartland Tri-State Bank	Elkhart	Kansas	25851	Dream First Bank, N.A.	July 28, 2023	10544
3	First Republic Bank	San Francisco	California	59017	JPMorgan Chase Bank, N.A.	May 1, 2023	10543
4	Signature Bank	New York	New York	57053	Flagstar Bank, N.A.	March 12, 2023	10540
5	Silicon Valley Bank	Santa Clara	California	24735	First Citizens Bank & Trust Company	March 10, 2023	10539
6	Almena State Bank	Almena	Kansas	15426	Equity Bank	October 23, 2020	10538
7	First City Bank of Florida	Fort Walton Beach	Florida	16748	United Fidelity Bank, fsb	October 16, 2020	10537
8	The First State Bank	Barboursville	West Virginia	14361	MVB Bank, Inc.	April 3, 2020	10536
9	Ericson State Bank	Ericson	Nebraska	18265	Farmers and Merchants Bank	February 14, 2020	10535

```
In [4]: df[0].describe().transpose()
```

	count	mean	std	min	25%	50%	75%	max
Cert	10.0	26754.6	17455.039471	8758.0	15756.50	21500.0	26961.75	59017.0
Fund	10.0	10540.3	3.945462	10535.0	10537.25	10539.5	10543.75	10546.0

```
In [6]: df[0][['Bank Name','Fund','Closing Date']]
```

	Bank Name	Fund	Closing Date
0	Republic First Bank dba Republic Bank	10546	April 26, 2024
1	Citizens Bank	10545	November 3, 2023
2	Heartland Tri-State Bank	10544	July 28, 2023
3	First Republic Bank	10543	May 1, 2023
4	Signature Bank	10540	March 12, 2023
5	Silicon Valley Bank	10539	March 10, 2023
6	Almena State Bank	10538	October 23, 2020
7	First City Bank of Florida	10537	October 16, 2020
8	The First State Bank	10536	April 3, 2020
9	Ericson State Bank	10535	February 14, 2020

```
In [30]: #10 banks that have closed
```

```
In [32]: df[0]['Fund'].count()
```

```
Out[32]: 10
```

```
In [33]: #total amount of funds from all banks 105403
```

```
In [8]: df[0]['Fund'].sum()
```

```
Out[8]: 105403
```

```
In [9]: df[0]['Closing Date'].head()
```

```
Out[9]: 0    April 26, 2024
1    November 3, 2023
2    July 28, 2023
3    May 1, 2023
4    March 12, 2023
Name: Closing Date, dtype: object
```

```
In [34]: df[0]['Closing Date'].sort_values()
```

```
Out[34]: 0    April 26, 2024
8    April 3, 2020
9    February 14, 2020
2    July 28, 2023
5    March 10, 2023
4    March 12, 2023
3    May 1, 2023
1    November 3, 2023
7    October 16, 2020
6    October 23, 2020
Name: Closing Date, dtype: object
```

```
In [13]: #first date of the first bank failure was on February 14, 2020 per this data
#last date of the last bank failure was on April 26, 2024 per this data
```

```
In [14]: df[0]['Closing Date'].unique()
```

```
Out[14]: array(['April 26, 2024', 'November 3, 2023', 'July 28, 2023',
        'May 1, 2023', 'March 12, 2023', 'March 10, 2023',
        'October 23, 2020', 'October 16, 2020', 'April 3, 2020',
        'February 14, 2020'], dtype=object)
```

```
In [15]: df[0]['Closing Date']
```

```
Out[15]: 0    April 26, 2024
1    November 3, 2023
2    July 28, 2023
3    May 1, 2023
4    March 12, 2023
5    March 10, 2023
6    October 23, 2020
7    October 16, 2020
8    April 3, 2020
9    February 14, 2020
Name: Closing Date, dtype: object
```

```
In [18]: #ten banks that failed per this data - 10,000.00 == Fund
```

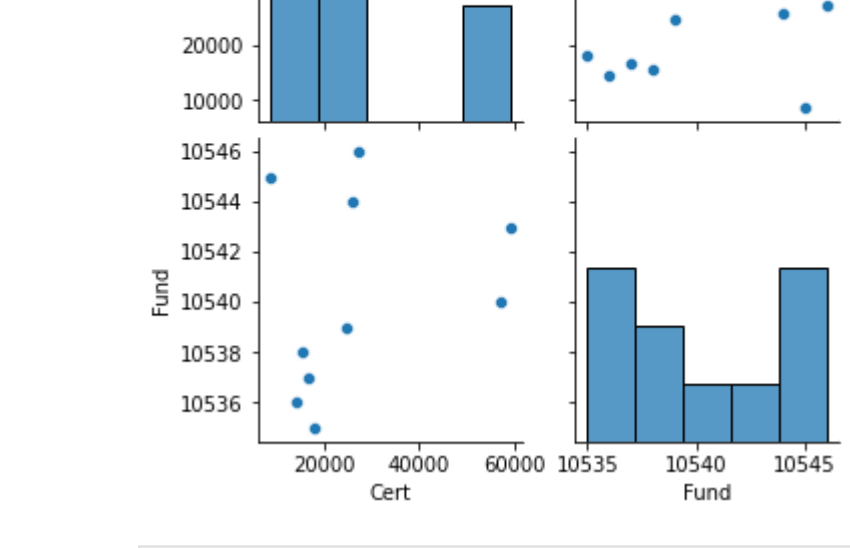
```
In [19]: df[0][df[0]['Fund']>=10000][['Bank Name']]
```

```
Out[19]: 0    Republic First Bank dba Republic Bank
1    Citizens Bank
2    Heartland Tri-State Bank
3    First Republic Bank
4    Signature Bank
5    Silicon Valley Bank
6    Almena State Bank
7    First City Bank of Florida
8    The First State Bank
9    Ericson State Bank
Name: Bank Name, dtype: object
```

```
In [21]: df[0]
```

	Bank Name	City	State	Cert	Aquiring Institution	Closing Date	Fund
0	Republic First Bank dba Republic Bank	Philadelphia	Pennsylvania	27332	Fulton Bank, National Association	April 26, 2024	10546
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```
In [22]: sns.pairplot(df[0])
```



```
In [24]: #Cufflinks Visualizations
```

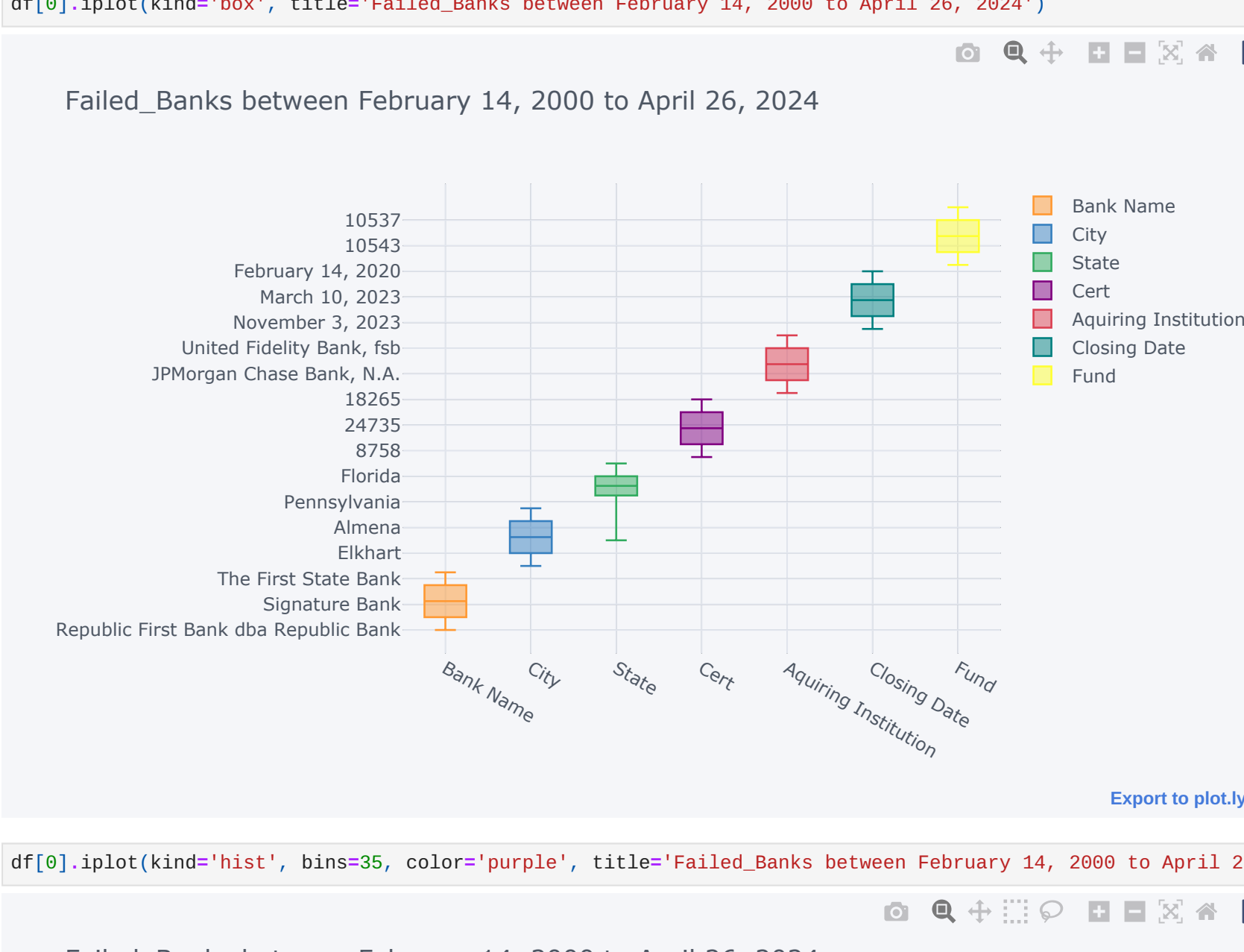
```
In [25]: from plotly import __version__
from plotly.offline import download_plotlyjs, init_notebook_mode, plot, iplot
print(__version__) # requires version >= 1.9.0

# For Notebooks - jupyter notebook
init_notebook_mode(connected=True)

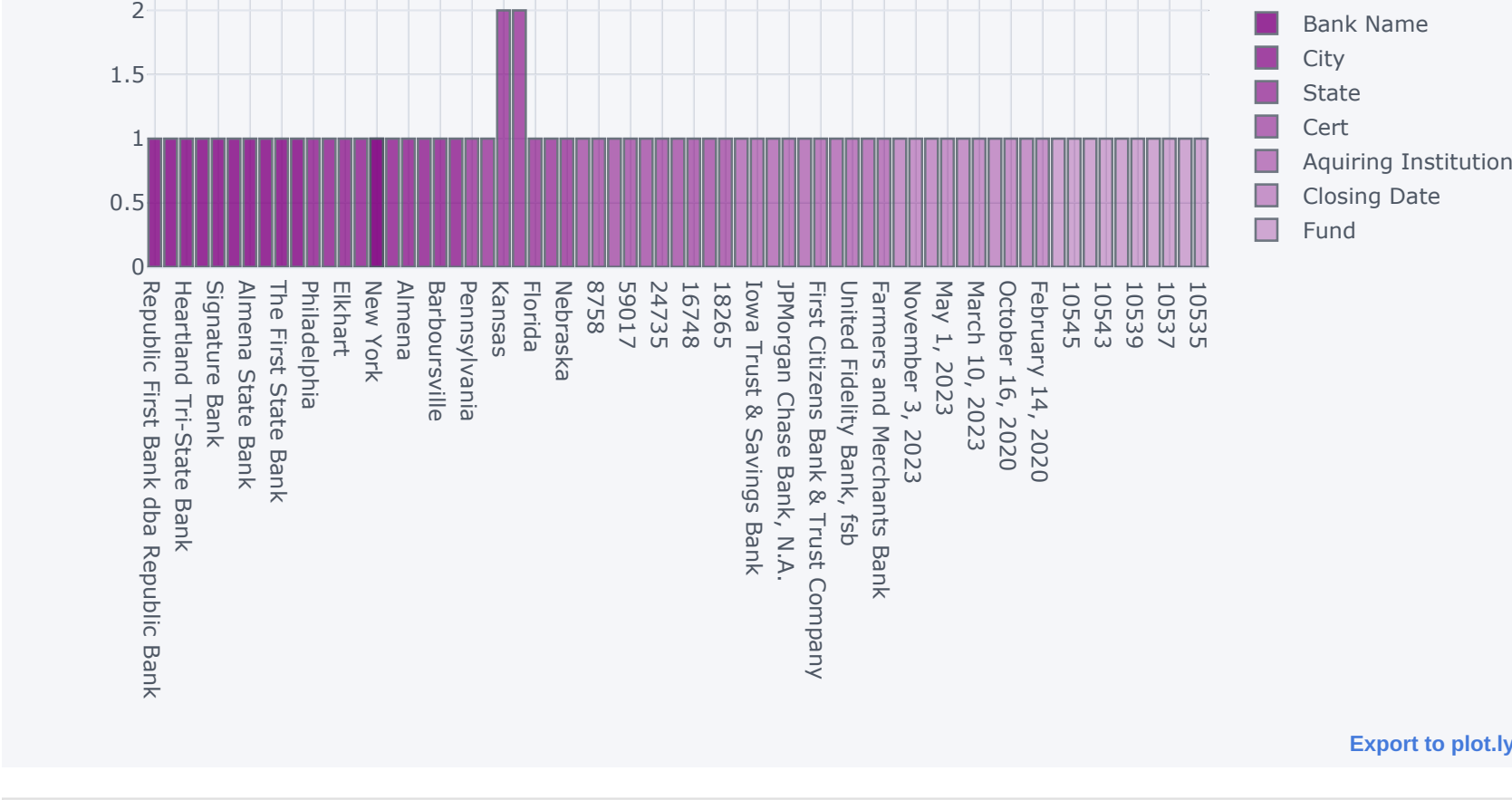
cf.go_offline()

5.7.0
```

```
In [27]: df[0].iplot(kind='box', title='Failed_Banks between February 14, 2000 to April 26, 2024')
```



```
In [28]: df[0].iplot(kind='hist', bins=35, color='purple', title='Failed_Banks between February 14, 2000 to April 26, 2024')
```



```
In [122]: #What is the issue?
#Are the banks not vetting customers better
#Economy
#Politics
```

The data below comes from The Conversation website.

```
In [125]: #https://theconversation.com/why-economists-are-warning-of-another-us-banking-crisis-224092
```

#The red letter day is March 11, when US central bank the Federal Reserve will end the bank term
#funding program (BTFP), a year after it began in response to the failures of regional banks Signature,
#Silvergate and Silicon Valley. These banks were brought down by customers withdrawing deposits en masse,
#both because many were tech or crypto businesses that needed money to cover losses, and because there
#were better savings rates available elsewhere.

The data below was obtained from the CNBC website

```
In [ ]: #The forces that consumed three regional lenders last March have left hundreds of smaller banks wounded,  
#as merger activity – a key potential lifeline – has slowed to a trickle.  
#Klaros Group analyzed about 4,000 institutions and found 282 with both high levels of commercial real  
#estate exposure and large unrealized losses from the rate surge – which may force these lenders to raise  
#fresh capital or merge.  
#Behind the scenes, regulators have been prodding banks with confidential orders to improve capital levels  
#and staffing, according to Klaros co-founder Brian Graham.
```

FDIC live video via YouTube Channel

```
In [85]: #This syntax allows you to goto the YouTube Channel
```

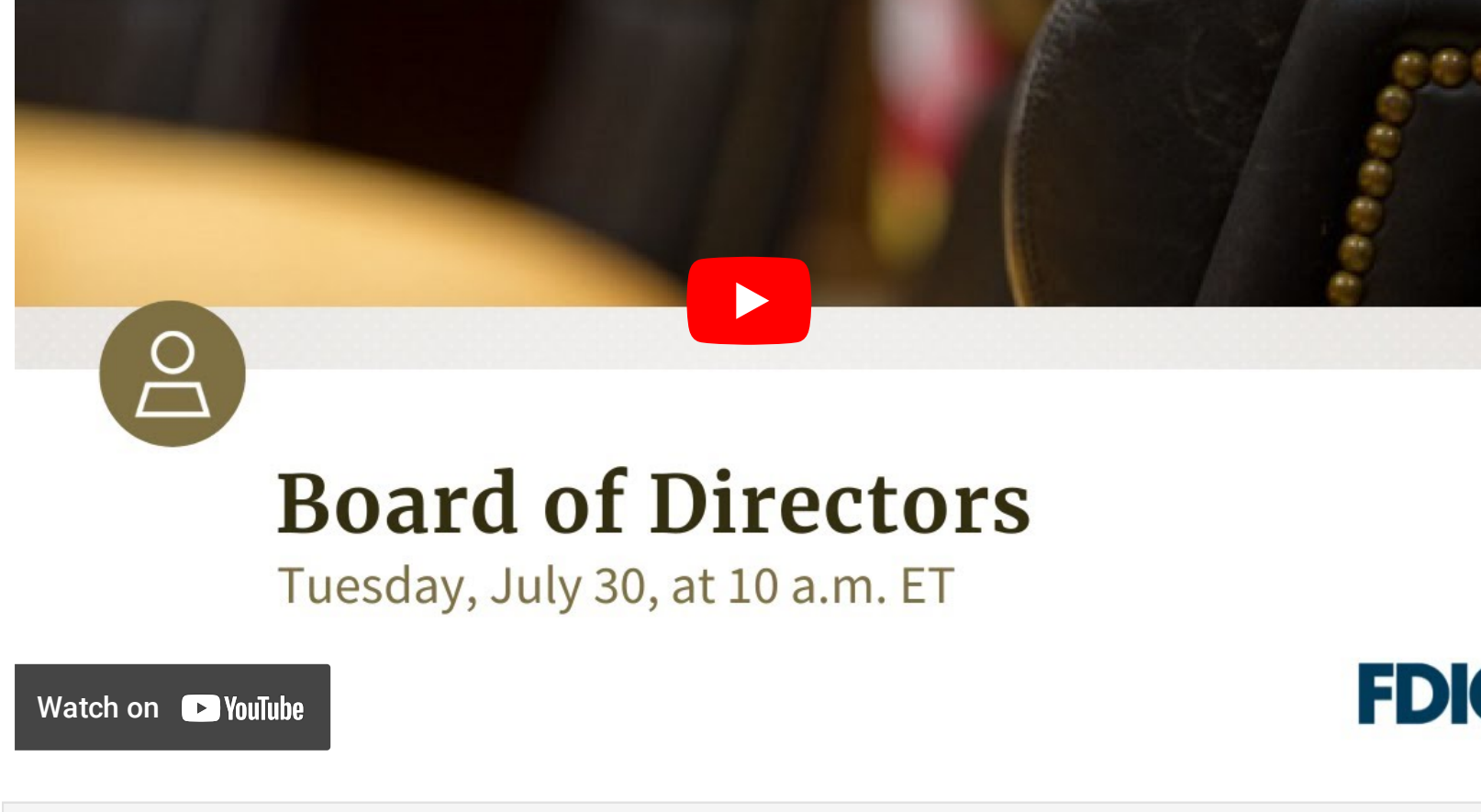
```
In [127]: %BROWSER https://www.youtube.com/watch?v=X6IAaFbvz5g
```

```
In [119]: #This is the FDIC YouTube Channel updates- streaming
```

```
In [121]: from IPython.display import IFrame

# GIF link used as IFrame
iframe_url = "https://www.youtube.com/embed/X6IAaFbvz5g?si=lqm-9Nhfs7YcqH2"

# resized output IFrame
IFrame(src=iframe_url, width=800, height=500, title="YouTube video player")
```



```
In [122]: from IPython import display
display.Image('/home/harlohutch77/pictures/fdic1.jpeg', height=400, width=800)
```



```
In [ ]:
```