

```
In [ ]: import covsirphy as cs
        from covsirphy._deprecated.jhu_data import JHUData
        import matplotlib.pyplot as plt
        import numpy as np
```

Receive Data From GitHub

```
In [ ]: data_loader = cs.DataLoader(directory="./input")
        jhu_data = data_loader.jhu()
```

Retrieving COVID-19 dataset from <https://github.com/lisphilar/covid19-sir/data/>

Retrieving datasets from COVID-19 Data Hub <https://covid19datahub.io/>

Please set verbose=2 to see the detailed citation list.

Retrieving datasets from Our World In Data <https://github.com/owid/covid-19-data/>

Retrieving datasets from COVID-19 Open Data by Google Cloud Platform <https://github.com/GoogleCloudPlatform/covid-19-open-data>

Receive data for specified country

```
In [ ]: country = "Sweden"

        jhu_data = JHUData(filename="input/covid19dh.csv")
        df = jhu_data.cleaned()
        cnt_df = df[df["Country"] == country]
        print(cnt_df)
```

	Date	ISO3	Country	Province	Confirmed	Infected	Fatal	Recovered	\
28537	2020-02-01	SWE	Sweden	-	0	0	0	0	
28538	2020-02-02	SWE	Sweden	-	0	0	0	0	
28539	2020-02-03	SWE	Sweden	-	0	0	0	0	
28540	2020-02-04	SWE	Sweden	-	1	1	0	0	
28541	2020-02-05	SWE	Sweden	-	1	1	0	0	
...	
29588	2022-12-18	SWE	Sweden	-	2658148	2636557	21591	0	
29589	2022-12-19	SWE	Sweden	-	2659902	2638308	21594	0	
29590	2022-12-20	SWE	Sweden	-	2662473	2640878	21595	0	
29591	2022-12-21	SWE	Sweden	-	2665176	2643581	21595	0	
29592	2022-12-22	SWE	Sweden	-	2665176	2643581	21595	0	

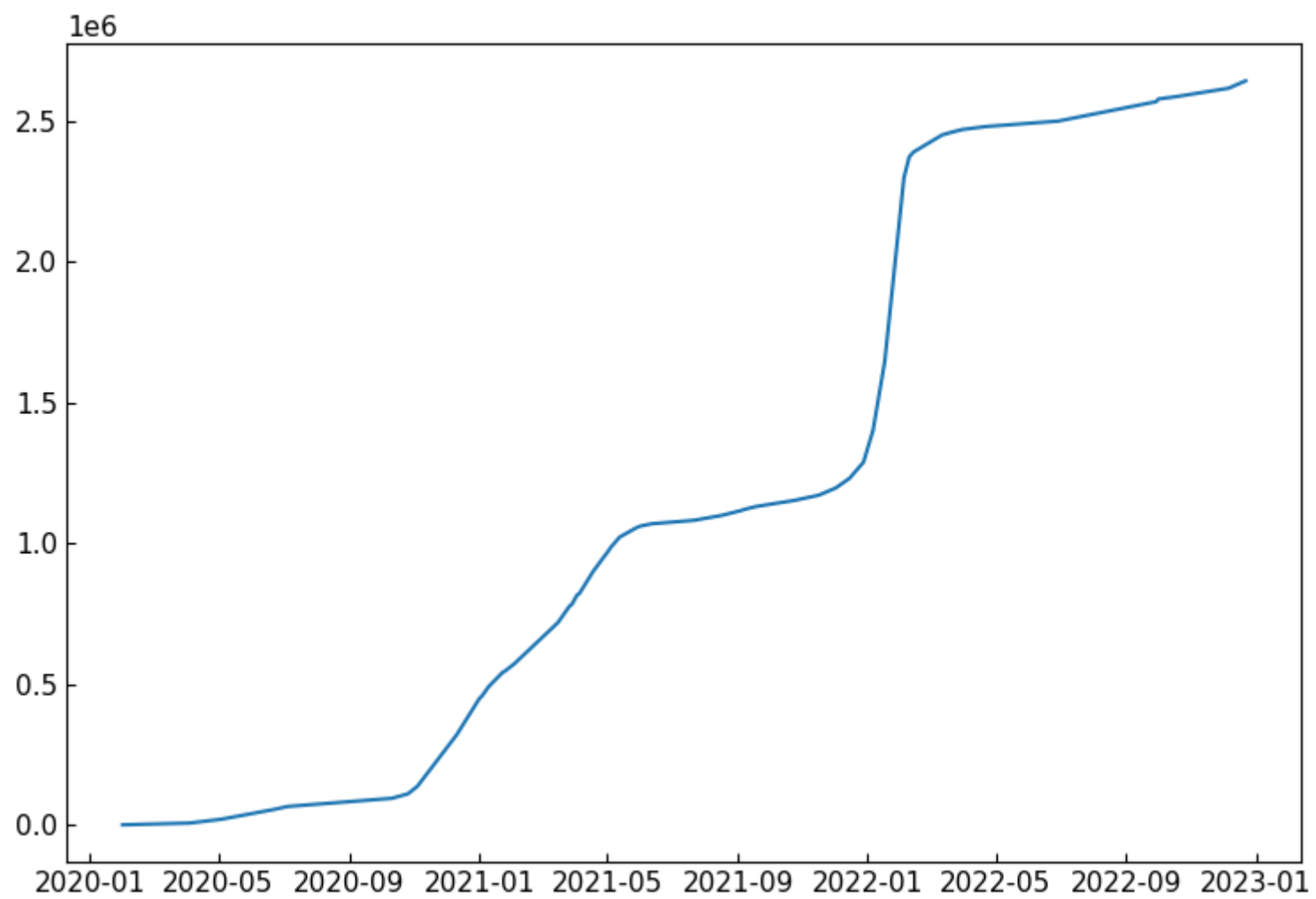
	Population
28537	10175214
28538	10175214
28539	10175214
28540	10175214
28541	10175214
...	...
29588	10175214
29589	10175214
29590	10175214
29591	10175214
29592	10175214

[1056 rows x 9 columns]

Process Data on Infected Cases

```
In [ ]: plt.plot(cnt_df["Date"], cnt_df["Infected"])
```

```
Out[ ]: [ <matplotlib.lines.Line2D at 0x215372ea370>]
```



```
In [ ]: plt.plot(cnt_df["Date"], cnt_df["Infected"])
date = np.datetime64("2022-04-01")
plt.plot([date, date], [0, 1000000])
```

```
Out[ ]: [<matplotlib.lines.Line2D at 0x2159148de50>]
```

