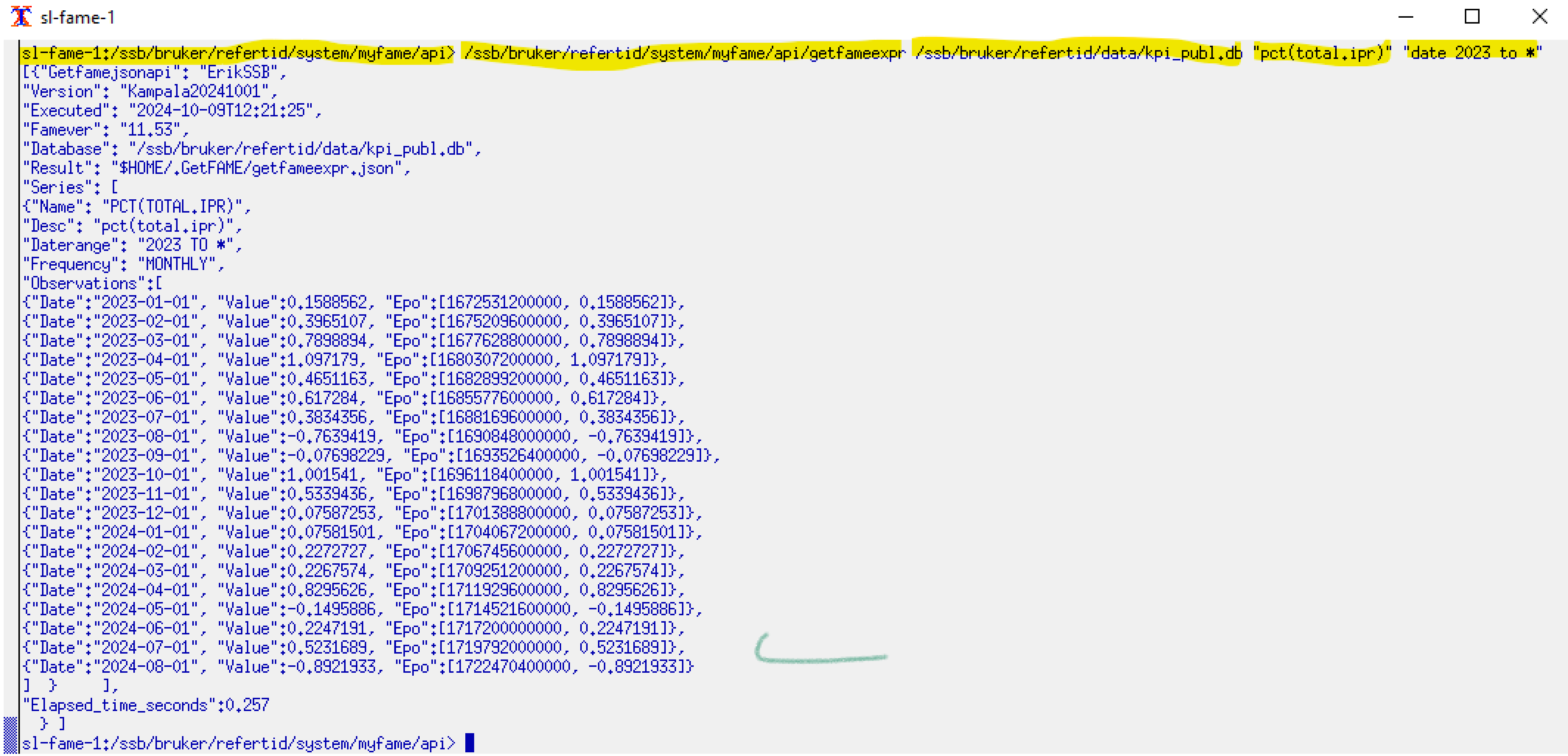
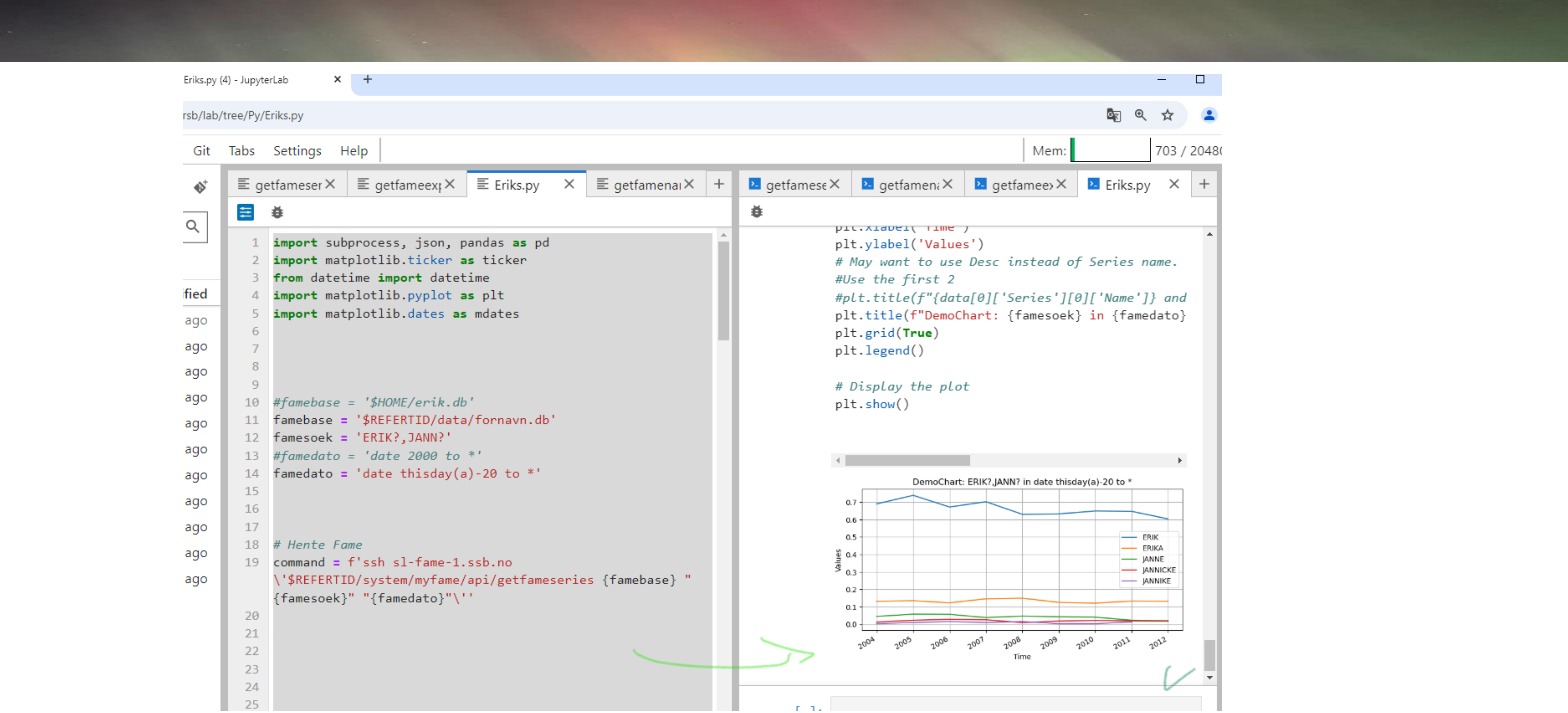
getfame

FAME Json api 2024

Erik



```
sl-fame-1:/ssb/bruker/refertid/system/myfame/api> /ssb/bruker/refertid/system/myfame/api/getfameexpr /ssb/bruker/refertid/data/kpi_publ.db "pct(total.ipr)" "date 2023 to *"
[{"Getfamejsonapi": "ErikSSB",
"Version": "Kampala20241001",
"Executed": "2024-10-09T12:21:25",
"Famever": "11.53",
"Database": "/ssb/bruker/refertid/data/kpi_publ.db",
"Result": "$HOME/.GetFAME/getfameexpr.json",
"Series": [
{"Name": "PCT(TOTAL.IPR)",
"Desc": "pct(total.ipr)",
"Daterange": "2023 TO *",
"Frequency": "MONTHLY",
"Observations":[
{"Date":"2023-01-01", "Value":0.1588562, "Epo":[1672531200000, 0.1588562]},
{"Date":"2023-02-01", "Value":0.3965107, "Epo":[1675209600000, 0.3965107]},
{"Date":"2023-03-01", "Value":0.7898894, "Epo":[1677628800000, 0.7898894]},
{"Date":"2023-04-01", "Value":1.097179, "Epo":[1680307200000, 1.097179]},
{"Date":"2023-05-01", "Value":0.4651163, "Epo":[1682899200000, 0.4651163]},
{"Date":"2023-06-01", "Value":0.617284, "Epo":[1685577600000, 0.617284]},
{"Date":"2023-07-01", "Value":0.3834356, "Epo":[1688169600000, 0.3834356]},
{"Date":"2023-08-01", "Value":-0.7639419, "Epo":[1690848000000, -0.7639419]},
{"Date":"2023-09-01", "Value":-0.07698229, "Epo":[1693526400000, -0.07698229]},
{"Date":"2023-10-01", "Value":1.001541, "Epo":[1696118400000, 1.001541]},
{"Date":"2023-11-01", "Value":0.5339436, "Epo":[1698796800000, 0.5339436]},
{"Date":"2023-12-01", "Value":0.07587253, "Epo":[1701388800000, 0.07587253]},
{"Date":"2024-01-01", "Value":0.07581501, "Epo":[1704067200000, 0.07581501]},
{"Date":"2024-02-01", "Value":0.2272727, "Epo":[1706745600000, 0.2272727]},
{"Date":"2024-03-01", "Value":0.2267574, "Epo":[1709251200000, 0.2267574]},
{"Date":"2024-04-01", "Value":0.8295626, "Epo":[1711929600000, 0.8295626]},
{"Date":"2024-05-01", "Value":-0.1495886, "Epo":[1714521600000, -0.1495886]},
{"Date":"2024-06-01", "Value":0.2247191, "Epo":[1717200000000, 0.2247191]},
{"Date":"2024-07-01", "Value":0.5231689, "Epo":[1719792000000, 0.5231689]},
{"Date":"2024-08-01", "Value":-0.8921933, "Epo":[1722470400000, -0.8921933]}
]  }      ],
"Elapsed_time_seconds":0.257
  } ]
sl-fame-1:/ssb/bruker/refertid/system/myfame/api>
```



```
import subprocess, json, pandas as pd
import matplotlib.ticker as ticker
from datetime import datetime
import matplotlib.pyplot as plt
import matplotlib.dates as mdates




#famebase = '$HOME/erik.db'
famebase = '$REFERTID/data/fornavn.db'
famesoek = 'ERIK?,JANN?'
#famedato = 'date 2000 to *'
famedato = 'date thisday(a)-20 to *'



# Hente Fame
command = f'ssh sl-fame-1.ssb.no \'$REFERTID/system/myfame/api/getfameseries {famebase} "{famesoek}" "{famedato}"\''
```

```
plt.xlabel('Time')
plt.ylabel('Values')
# May want to use Desc instead of Series name.
#Use the first 2
#plt.title(f"{data[0]['Series'][0]['Name']} and
plt.title(f"DemoChart: {famesoek} in {famedato}
plt.grid(True)
plt.legend()

# Display the plot
plt.show()
```

1. getfamenames $REFERTID/system/myfame/api/getfameseries

- List fame series & formulas with metadata, from fame database(s) given a list of series/wildcards:

```
$REFERTID/system/myfame/api/getfamenames "/ssb/bruker/refertid/data/kpi_publ.db, erik.db"   "K011?.ipr, k09?.ipr"
```

```
"Series":[
{"Name":"K011.IPR","Class":"SERIES","Observed":"AVERAGED","Desc":"Matvarer_indeks pris","Created":"2017-01-18T18:28:28","Updated":"2024-09-10T08:54:45"},
{"Name":"K0111.IPR","Class":"SERIES","Observed":"AVERAGED","Desc":"Brød og kornprodukter_indeks pris","Created":"2017-01-18T18:28:28","Updated":"2024-09-10T08:54:45"},
{"Name":"K01111.IPR","Class":"SERIES","Observed":"AVERAGED","Desc":"Ris_indeks pris","Created":"2017-01-18T18:28:28","Updated":"2024-09-10T08:54:44"},
{"Name":"K01111_11111.IPR","Class":"SERIES","Observed":"AVERAGED","Desc":"Ris_indeks pris","Created":"2017-01-18T18:28:28","Updated":"2024-09-10T08:54:44"},
{"Name":"K01112.IPR","Class":"SERIES","Observed":"AVERAGED","Desc":"Mel og andre kornprodukter_indeks pris","Created":"2017-01-18T19:24:41","Updated":"2024-09-10T08:54:44"},
{"Name":"K01112_11121.IPR","Class":"SERIES","Observed":"AVERAGED","Desc":"Mel_indeks pris","Created":"2017-01-18T18:28:28","Updated":"2024-09-10T08:54:44"}
.
```

2. getfameseries $REFERTID/system/myfame/api/getfameseries

- **Dataobservations, from a fame database given a list of wildcards, and an optional daterange:**

```
$REFERTID/system/myfame/API20/getfameseries  "/ssb/bruker/refertid/data/kpi_publ.db, $HOME/kpi.db"  "K01199?.ipr,K8?"  "freq m; date jul24 to aug24; deci 1"
```

```
"Series": [
{"Name": "K01199.IPR",
"Desc": "Andre matvarer ikke ellers nevnt_indeks pris",
"Daterange": "JUL24 TO AUG24",
"Frequency": "MONTHLY",
"Observations":[
{"Date":"2024-07-01", "Value":142.4, "Epo":[1719792000000, 142.4]},
{"Date":"2024-08-01", "Value":135.3, "Epo":[1722470400000, 135.3]}
] }   ,
{"Name": "K01199_11991.IPR",
"Desc": "Supper og kraft_indeks pris",
"Daterange": "JUL24 TO AUG24",
"Frequency": "MONTHLY",
"Observations":[
{"Date":"2024-07-01", "Value":151.6, "Epo":[1719792000000, 151.6]},
{"Date":"2024-08-01", "Value":143.3, "Epo":[1722470400000, 143.3]}
] }   ,
```

3. getfameexpr $REFERTID/system/myfame/api/getfameexpr

advanced mode

- Dataobservations, from fame database(s) given a fame-**expression:**

```
$REFERTID/system/myfame/api/getfameexpr " $REFERTID/data/fornavn.db "  "mave(ERIK,2)" "date 2000 to 2010"
$REFERTID/system/myfame/api/getfameexpr " $REFERTID/data/fornavn.db "  "Lsum(ERIK,EIRIK)"  "date 2000 to *"
$REFERTID/system/myfame/api/getfameexpr " $REFERTID/data/kpi_publ.db " "convert(total.ipr,annual,constant)" "date *; deci 1"
```

Produces same json outp..ut as getfameseries

Samples (produces help info, when no arguments)

1. $REFERTID/system/myfame/api/getfamenames
2. $REFERTID/system/myfame/api/getfameseries
3. $REFERTID/system/myfame/api/getfameexpr

For **jupiterlab** sample, see:

- https://github.com/statisticsnorway/getfame-json-api/blob/main/sample.py