

getfame

-n names

-s series

-e expression

getfame Json api 2024 / june 2025

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2025 Supports series w identical series names in different FAME databases, formulas can aggregate from several open databases

1. getfame -n = getfamenames gets FAME metadata

```
rsb@sl-fame-p1:ssb/bruker/refertid/system/myfame/api
```

```
sl-fame-p1:ssb/bruker/refertid/system/myfame/api> getfame -n "$REFERTID/data/kpi_publ, $REFERTID/data/kpi_erik.db" "Total?,K01111_?" [{"GetFAME_Json_Api": "Erik.Soberg@ssb.no", "Version": "Oslo-20250602", "Executed": "2025-06-03T10:42:35", "Famever": "2022.43", "Database": "/ssb/bruker/refertid/data/kpi_publ, /ssb/bruker/refertid/data/kpi_erik.db", "Open": "KPI_PUBL, KPI_ERIK", "Result": "$HOME/.GetFAME/getfamenames.json", "Wildcard": "TOTAL?,K01111_?", "Found": 22, "Notfound": 0, "Missing": "", "Series": [{"Name": "KPI_ERIK'K01111_11111.IPR", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Ris_indeks pris", "Created": "2017-01-18T18:28:28", "Updated": "2025-02-10T09:25:49"}, {"Name": "KPI_ERIK'K01111_11111.IPR.A", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Ris_indeks pris_Ersgjsn", "Created": "2017-01-18T18:28:28", "Updated": "2025-01-10T08:33:25"}, {"Name": "KPI_ERIK'TOTAL.IPR", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Totalindeks_indeks pris", "Created": "2017-01-18T18:28:29", "Updated": "2025-02-10T09:25:48"}, {"Name": "KPI_ERIK'TOTAL.IPR.A", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Totalindeks_indeks pris_Ersgjsn", "Created": "2017-01-18T18:28:29", "Updated": "2025-01-10T08:33:25"}, {"Name": "KPI_ERIK'TOTAL.IPR.G", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Totalindeks_Trend(prog1)", "Created": "2025-02-10T09:25:49", "Updated": "2025-02-10T09:25:50"}, {"Name": "KPI_ERIK'TOTAL.IPR.S", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Totalindeks_Sesongjustert(prog1)", "Created": "2025-02-10T09:25:49", "Updated": "2025-02-10T09:25:50"}, {"Name": "KPI_ERIK'TOTAL.PCT", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Totalindeks_1_mEneds prisendring", "Created": "2017-01-18T18:28:29", "Updated": "2017-01-18T18:57:02"}, {"Name": "KPI_ERIK'TOTAL.VK", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Totalindeks_vekt", "Created": "2017-01-18T18:28:29", "Updated": "2025-02-10T09:25:53"}, {"Name": "KPI_ERIK'TOTAL.YTYPCT", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Totalindeks_12_mEneders prisendring", "Created": "2017-01-18T18:28:29", "Updated": "2017-01-18T18:57:02"}, {"Name": "KPI_ERIK'TOTAL_JAE.IPR.G", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Totalindeks_Trend(prog1)", "Created": "2025-02-10T09:25:49", "Updated": "2025-02-10T09:25:50"}, {"Name": "KPI_ERIK'TOTAL_JAE.IPR.S", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Totalindeks_Sesongjustert(prog1)", "Created": "2025-02-10T09:25:49", "Updated": "2025-02-10T09:25:50"}, {"Name": "KPI_PUBL'K01111_11111.IPR", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Ris_indeks pris", "Created": "2017-01-18T18:28:28", "Updated": "2025-05-09T08:23:40"}, {"Name": "KPI_PUBL'K01111_11111.IPR.A", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Ris_indeks pris_Ersgjsn", "Created": "2017-01-18T18:28:28", "Updated": "2025-01-10T08:33:25"}, {"Name": "KPI_PUBL'TOTAL.IPR", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Totalindeks_indeks pris", "Created": "2017-01-18T18:28:29", "Updated": "2025-05-09T08:23:39"}, {"Name": "KPI_PUBL'TOTAL.IPR.A", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Totalindeks_indeks pris_Ersgjsn", "Created": "2017-01-18T18:28:29", "Updated": "2025-01-10T08:33:25"}, {"Name": "KPI_PUBL'TOTAL.IPR.G", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Totalindeks_Trend(prog1)", "Created": "2025-05-09T08:23:40", "Updated": "2025-05-09T08:23:42"}, {"Name": "KPI_PUBL'TOTAL.IPR.S", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Totalindeks_Sesongjustert(prog1)", "Created": "2025-05-09T08:23:40", "Updated": "2025-05-09T08:23:42"}, {"Name": "KPI_PUBL'TOTAL.PCT", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Totalindeks_1_mEneds prisendring", "Created": "2017-01-18T18:28:29", "Updated": "2017-01-18T18:57:02"}, {"Name": "KPI_PUBL'TOTAL.VK", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Totalindeks_vekt", "Created": "2017-01-18T18:28:29", "Updated": "2025-05-09T08:23:45"}, {"Name": "KPI_PUBL'TOTAL.YTYPCT", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Totalindeks_12_mEneders prisendring", "Created": "2017-01-18T18:28:29", "Updated": "2017-01-18T18:57:02"}, {"Name": "KPI_PUBL'TOTAL_JAE.IPR.G", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Totalindeks_Trend(prog1)", "Created": "2025-05-09T08:23:40", "Updated": "2025-05-09T08:23:42"}, {"Name": "KPI_PUBL'TOTAL_JAE.IPR.S", "Class": "SERIES", "Observed": "AVERAGED", "Desc": "Totalindeks_Sesongjustert(prog1)", "Created": "2025-05-09T08:23:40", "Updated": "2025-05-09T08:23:42"}], "Elapsed_time_in_seconds": 0.058 } ]
```

getfame -n with identical databases identical seriesnames different places)

X sl-fame-1

```
sl-fame-1:"/MyFame2023/pro/api> $REFERTID/system/myfame/api/getfame -n "testapi, $PWD/../../testapi.db" "e?,TEST?"  
[{"GetFAME_Json_Api": "Erik.Soberg@ssb.no",  
"Version": "Oslo-20250605",  
"Executed": "2025-06-04T14:14:00",  
"Famever": "11.53",  
"Database": "testapi, /ssb/bruker/rsb/MyFame2023/pro/api/../../testapi.db",  
"Openas": "TESTAPI, TESTAPI2",  
"Result": "$HOME/.GetFAME/getfamenames.json",  
"Wildcard": "E?,TEST?",  
"Found": 9,  
"Notfound": 0,  
"Missing": "",  
"Series": [  
 {"Name": "TESTAPI'ERIK", "Class": "SERIES", "Observed": "SUMMED", "Freq": "MONTHLY", "Desc": "dEScription of erik", "Created": "2024-09-09T22:21:26", "Updated": "2025-06-02T12:48:59"},  
 {"Name": "TESTAPI'TEST.ANN", "Class": "SERIES", "Observed": "SUMMED", "Freq": "ANNUAL", "Desc": "", "Created": "2024-06-16T21:53:09", "Updated": "2024-06-17T15:44:56"},  
 {"Name": "TESTAPI'TEST.MON", "Class": "SERIES", "Observed": "SUMMED", "Freq": "MONTHLY", "Desc": "mytest", "Created": "2024-06-16T21:54:14", "Updated": "2025-06-01T22:39:56"},  
 {"Name": "TESTAPI'TEST.MON.F", "Class": "FORMULA", "Observed": "TEST.MON *10", "Freq": "NC", "Desc": "", "Created": "2024-06-16T21:55:16", "Updated": "2024-06-16T21:55:53"},  
 {"Name": "TESTAPI2'ERIK", "Class": "SERIES", "Observed": "SUMMED", "Freq": "MONTHLY", "Desc": "script of erik soeb WOW", "Created": "2024-09-09T22:21:26", "Updated": "2025-06-01T15:55:47"},  
 {"Name": "TESTAPI2'EXTRA", "Class": "SERIES", "Observed": "SUMMED", "Freq": "ANNUAL", "Desc": "extraextras", "Created": "2025-05-30T13:12:53", "Updated": "2025-06-01T15:55:47"},  
 {"Name": "TESTAPI2'TEST.ANN", "Class": "SERIES", "Observed": "SUMMED", "Freq": "ANNUAL", "Desc": "", "Created": "2024-06-16T21:53:09", "Updated": "2025-05-30T11:44:37"},  
 {"Name": "TESTAPI2'TEST.MON", "Class": "SERIES", "Observed": "SUMMED", "Freq": "MONTHLY", "Desc": "", "Created": "2024-06-16T21:54:14", "Updated": "2024-06-16T22:42:05"},  
 {"Name": "TESTAPI2'TEST.MON.F", "Class": "FORMULA", "Observed": "TEST.MON *10", "Freq": "NC", "Desc": "", "Created": "2024-06-16T21:55:16", "Updated": "2024-06-16T21:55:53"}],  
 "Elapsed_time_in_seconds": 0.004  
}]
```



getfame -n \$REFERTID/system/myfame/api/getfamenames

Combine with linux commands to find descriptions, or series with incorrect definitions

The command below lists all series in the database but only show the one with the text «SUMM»

rsb@sl-fame-p1:/ssb/bruker/refertid/system/myfame/api

```
sl-fame-p1:/ssb/bruker/refertid/system/myfame/api> getfame -n "$REFERTID/data/kpi_publ" "?" | grep SUMM
{"Name":"KPI_PUBL'JAE_TOTAL.IPR.S","Class":"SERIES","Observed":"SUMMED","Desc":"","Created":"2017-02-10T08:27:54","Updated":"2017-02-10T09:05:17"},
```

2. getfame -s \$REFERTID/system/myfame/api/getfameseries

```
rsb@sl-fame-p1:ssb/bruker/refertid/system/myfame/api
sl-fame-p1:ssb/bruker/refertid/system/myfame/api> getfame -s "$REFERTID/data/kpi_publ, $HOME/kpi.db" "K02.ipr,K01.IPR" "freq m;date feb24 to mar24;deci 1"
[{"GetFAME_Json_Api": "Erik.Soberg@ssb.no",
"Version": "Oslo-20250602",
"Executed": "2025-06-03T11:02:28",
"Famever": "2022.43",
"Database": "/ssb/bruker/refertid/data/kpi_publ, /ssb/bruker/rsb/kpi.db",
"Open": "KPI_PUBL, KPI",
"Result": "$HOME/.GetFAME/getfameseries.json",
"Wildcard": "K02.IPR,K01.IPR",
"Found": 4,
"Notfound": 0,
"Missing": "",
"Series": [
{"Name": "KPI_PUBL'K02.IPR",
"Desc": "Alkoholholdige drikkevarer og tobakk_indeks pris",
"Daterange": "FEB24 TO MAR24",
"Frequency": "MONTHLY",
"Observations": [
{"Date": "2024-02-01", "Value": 126.5, "Epo": [1706745600000, 126.5]},
 {"Date": "2024-03-01", "Value": 126.4, "Epo": [1709251200000, 126.4]}
 ] },
 {"Name": "KPI_PUBL'K01.IPR",
"Desc": "Matvarer og alkoholfrie drikkevarer_indeks pris",
"Daterange": "FEB24 TO MAR24",
"Frequency": "MONTHLY",
"Observations": [
 {"Date": "2024-02-01", "Value": 128.2, "Epo": [1706745600000, 128.2]},
 {"Date": "2024-03-01", "Value": 125.8, "Epo": [1709251200000, 125.8]}
 ] },
 {"Name": "KPI'K02.IPR",
"Desc": "Alkoholholdige drikkevarer og tobakk_indeks pris",
"Daterange": "FEB24 TO MAR24",
"Frequency": "MONTHLY",
"Observations": [
 {"Date": "2024-02-01", "Value": 126.5, "Epo": [1706745600000, 126.5]},
 {"Date": "2024-03-01", "Value": 126.4, "Epo": [1709251200000, 126.4]}
 ] },
 {"Name": "KPI'K01.IPR",
"Desc": "Matvarer og alkoholfrie drikkevarer_indeks pris",
"Daterange": "FEB24 TO MAR24",
"Frequency": "MONTHLY",
"Observations": [
 {"Date": "2024-02-01", "Value": 128.2, "Epo": [1706745600000, 128.2]},
 {"Date": "2024-03-01", "Value": 125.8, "Epo": [1709251200000, 125.8]}
 ] }
],
"Elapsed_time_in_seconds": 0.005
} ]
```

getfame -s getfameseries samples

```
$REFERTID/system/myfame/api/getfame -s /ssb/bruker/refertid/data/kpi_publ.db "total.ipr"
```

```
getfame -s /ssb/bruker/refertid/data/kpi_publ.db "total.ipr, K0?IPR " "date 2024 "
```

```
getfame -s /ssb/bruker/refertid/data/kpi_publ.db "total.ipr" "freq m; date thisday(m)-5 to *"
```

```
getfame -s $REFERTID/data/fornavn.db "?ERIK,KRISTIN,JIM? " "date 2010 to 2012 "
```

```
getfame -s "/ssb/bruker/refertid/data/fornavn.db" "?JAN?" "date 2000 to 2005 "
```

```
getfame -s "/ssb/bruker/refertid/data/fornavn.db" "JI? " "date 2000 to *; deci 1 "
```

```
getfame -s "fornavn.db, name.db" "JI? ,MATT?" "date 2000 to * ; deci 2 "
```

```
getfame -s "pi1.db, cpi2.db,cpi_form.db" "Total.ipr" "date 2025 ; deci 2"
```

getfame -s used from om JupyterLab with Python3:

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nb x PySample.ipynb x r_2series.ipynb x Rfameexpr.ipynb x + Python3

```
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
import os

famebase = '$REFERTID/data/fornavn.db'
famesoek = 'Erik?,JANN?'
famedato = 'date 2000 to 2012'

api = "getfame"
apiswitch = " -s "
apipath = "$REFERTID/system/myfame/api/"

# Hente Fame kommando with apipath and api concatenation
command = f"ssh sl-fame-1.ssb.no '{apipath}{api} {apiswitch} {famebase} \\"{famesoek}" 

subprocess.run(command, shell=True, stdout=subprocess.DEVNULL, stderr=subprocess.DEVNULL)

# Retrieve the value of the $HOME environment variable
home_dir = os.getenv("HOME")

# Construct the full path using the $HOME variable and the api variable
file_path = os.path.join(home_dir, ".GetFAME", f"{{api}}series.json")
```

DemoChart: Erik?,JANN? in date 2000 to *

Time	FORNAVN'ERIK	FORNAVN'ERIKA	FORNAVN'JANNE	FORNAVN'JANNICKE	FORNAVN'JANNIKE
2000	0.80	0.10	0.10	0.00	0.00
2002	0.75	0.10	0.05	0.00	0.00
2004	0.85	0.10	0.05	0.00	0.00
2006	0.70	0.10	0.05	0.00	0.00
2008	0.65	0.15	0.05	0.00	0.00
2010	0.65	0.15	0.05	0.00	0.00
2012	0.60	0.15	0.05	0.00	0.00

3. getfame -e

\$REFERTID/system/myfame/api/getfameexpr

advanced mode

- Data-observations, from FAME database(s) given a fame-expression:

```
getfame -e "$REFERTID/data/fornavn.db " "mave(ERIK,2)" "date 2000 to 2010"
```

```
getfame -e "$REFERTID/data/fornavn.db " "Lsum(ERIK,EIRIK)" "date 2000 to *"
```

```
getfame -e "$REFERTID/data/fornavn.db " "ERIK+EIRIK" "date 2000 to *"
```

```
getfame -e "$REFERTID/data/kpi_publ.db, mycpi.db " "convert(total.ipr,annual,constant)" "date *; deci 1"
```

```
getfame -e "$REFERTID/data/kpi_publ.db, mycpi.db " "PCT(mycpi'K09.IPR)" "date 2025; deci 1"
```

```
getfame -e "cpi1.db,cpi2.db,cpi_form.db" "cpi1'Total.ipr" "date 2025 ; deci 2"
```

Be aware to **double quote arguments** when they contain special char like : , (‘ ;

getfame -e gets a fame-expression

sl-fame-1

```
sl-fame-1:/ssb/bruker/refertid/system/myfame/api> getfame -e "/ssb/bruker/refertid/data/kpi_publ.db" "pct(total.ipr)" "date 2024 to *; deci 1"
[{"GetFAME_Json_Api": "Erik.Soberg@ssb.no",
"Version": "Oslo-20250605",
"Executed": "2025-06-04T16:02:57",
"Famever": "11.53",
"Database": "/ssb/bruker/refertid/data/kpi_publ.db",
"Openas": "KPI_PUBL",
"Result": "$HOME/.GetFAME/getfameexpr.json",
"Series": [
{"Name": "PCT(TOTAL,IPR)",
"Desc": "pct(total.ipr)",
"Daterange": "2024 TO *",
"Frequency": "MONTHLY",
"Observations": [
{"Date": "2024-01-01", "Value": 0.1, "Epo": [1704067200000, 0.1]},
 {"Date": "2024-02-01", "Value": 0.2, "Epo": [1706745600000, 0.2]},
 {"Date": "2024-03-01", "Value": 0.2, "Epo": [1709251200000, 0.2]},
 {"Date": "2024-04-01", "Value": 0.8, "Epo": [1711929600000, 0.8]},
 {"Date": "2024-05-01", "Value": -0.1, "Epo": [1714521600000, -0.1]},
 {"Date": "2024-06-01", "Value": 0.2, "Epo": [1717200000000, 0.2]},
 {"Date": "2024-07-01", "Value": 0.5, "Epo": [1719792000000, 0.5]},
 {"Date": "2024-08-01", "Value": -0.9, "Epo": [1722470400000, -0.9]},
 {"Date": "2024-09-01", "Value": 0.3, "Epo": [1725148800000, 0.3]},
 {"Date": "2024-10-01", "Value": 0.6, "Epo": [1727740800000, 0.6]},
 {"Date": "2024-11-01", "Value": 0.3, "Epo": [1730419200000, 0.3]},
 {"Date": "2024-12-01", "Value": -0.1, "Epo": [1733011200000, -0.1]},
 {"Date": "2025-01-01", "Value": 0.2, "Epo": [1735689600000, 0.2]},
 {"Date": "2025-02-01", "Value": 1.4, "Epo": [1738368000000, 1.4]},
 {"Date": "2025-03-01", "Value": -0.7, "Epo": [1740787200000, -0.7]},
 {"Date": "2025-04-01", "Value": 0.7, "Epo": [1743465600000, 0.7]}
 ]}], "Elapsed_time_in_seconds": 0.002
}]}
```

getfame -e with several databases in case u have formulas elsewhere

```
X rsb@sl-fame-p1:/ssb/bruker/refertid/system/myfame/api
xterm:> getfame -e "$REFERTID/data/kpi_publ.db, cpi.db" "mave(cpi'total.ipr,12)" "date 2024 to *;deci 1"
[{"GetFAME_Json_Api": "Erik.Soberg@ssb.no",
"Version": "Oslo-20250602",
"Executed": "2025-06-03T10:14:24",
"Famever": "11.53",
"Database": "/ssb/bruker/refertid/data/kpi_publ.db, cpi.db",
"Open": "KPI_PUBL, CPI",
"Result": "$HOME/.GetFAME/getfameexpr.json",
"Series": [
{"Name": "MAVE(TOTAL.IPR,12)",
"Desc": "mave(total.ipr,12)",
"Daterange": "2024 TO *",
"Frequency": "MONTHLY",
"Observations": [
{"Date": "2024-01-01", "Value": 130.1, "Epo": [1704067200000, 130.1]}, {"Date": "2024-02-01", "Value": 130.5, "Epo": [1706745600000, 130.5]}, {"Date": "2024-03-01", "Value": 130.9, "Epo": [1709251200000, 130.9]}, {"Date": "2024-04-01", "Value": 131.3, "Epo": [1711929600000, 131.3]}, {"Date": "2024-05-01", "Value": 131.7, "Epo": [1714521600000, 131.7]}, {"Date": "2024-06-01", "Value": 131.9, "Epo": [1717200000000, 131.9]}, {"Date": "2024-07-01", "Value": 132.2, "Epo": [1719792000000, 132.2]}, {"Date": "2024-08-01", "Value": 132.5, "Epo": [1722470400000, 132.5]}, {"Date": "2024-09-01", "Value": 132.9, "Epo": [1725148800000, 132.9]}, {"Date": "2024-10-01", "Value": 133.1, "Epo": [1727740800000, 133.1]}, {"Date": "2024-11-01", "Value": 133.4, "Epo": [1730419200000, 133.4]}, {"Date": "2024-12-01", "Value": 133.6, "Epo": [1733011200000, 133.6]}, {"Date": "2025-01-01", "Value": 133.9, "Epo": [1735689600000, 133.9]}, {"Date": "2025-02-01", "Value": 134.3, "Epo": [1738368000000, 134.3]}, {"Date": "2025-03-01", "Value": 134.6, "Epo": [1740787200000, 134.6]}, {"Date": "2025-04-01", "Value": 134.9, "Epo": [1743465600000, 134.9]}], "Elapsed_time_in_seconds": 0.004
} ]}
```

Using the power of FAME by

getfame -e

with R
from
Jupyterlab

list of expressions



```
# Load required libraries
library(jsonlite)
library(dplyr)
library(ggplot2)
library(scales)
library(lubridate)

famebase <- "$REFERTID/data/kpi_publ.db"
famedato <- "freq m; date 2005 to *"
series_list <- c("pct(convert(total.ipr,ann,con,end))",
                 "pct(convert(total.ipr,ann,linear,ave))",
                 "ytypct(total.ipr)",
                 "mave(pct(K01.IPR),3" )

# Initialize an empty data frame to store all data
df_all <- data.frame()

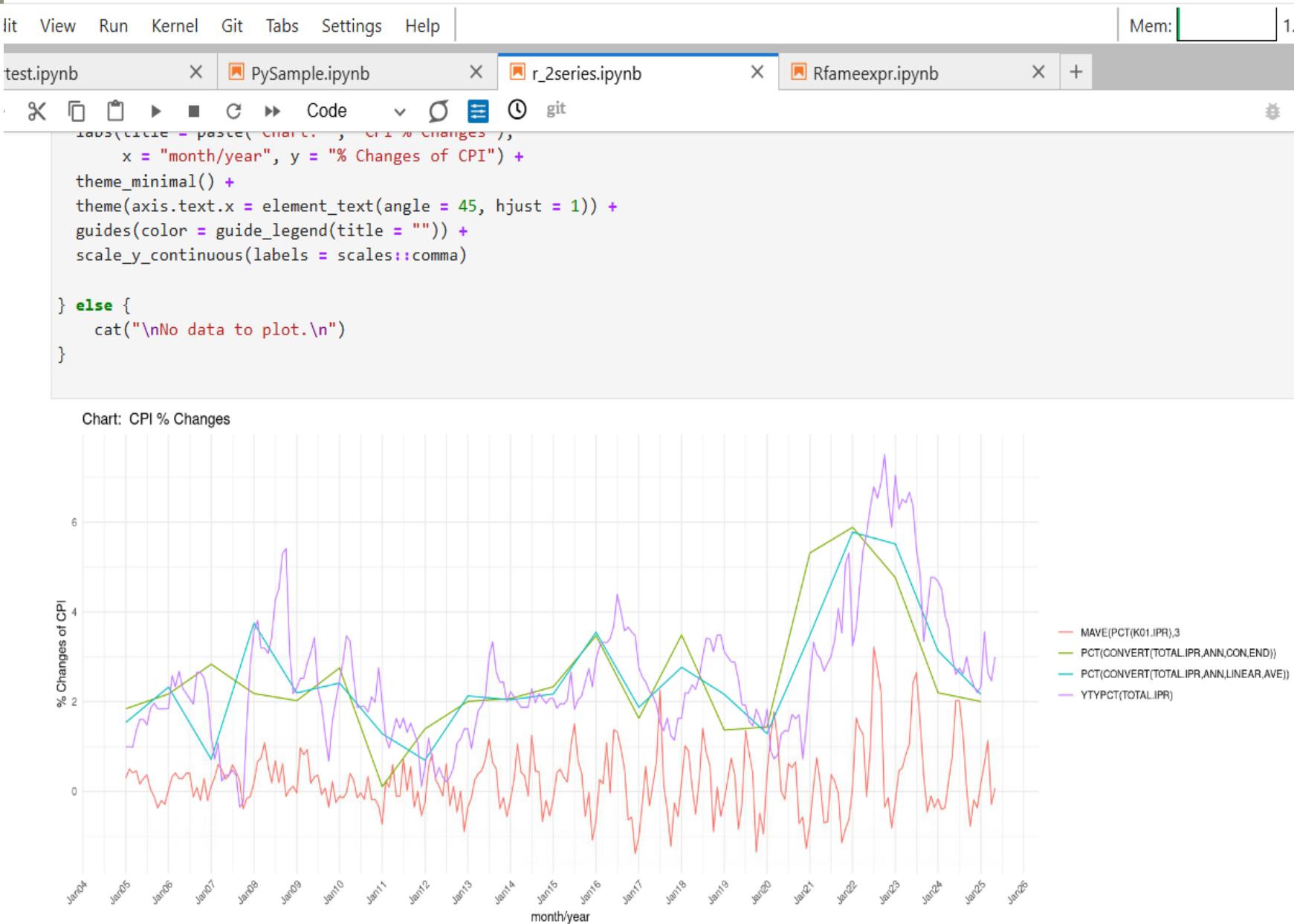
# Process each series
for (famesoek in series_list) {
    # Construct the command for the current series
    command <- paste("ssh sl-fame-1.ssb.no ''",
                     "$REFERTID/system/myfame/api/getfame -e \"", famebase,
                     "\" \"", famesoek, "\" \"", famedato, "\"\"", sep="")

    # Execute the command and capture the output
    output <- system(command, intern = TRUE, ignore.stderr = FALSE)
```

getfame -e

Result:

*different series
different frequencies
different expressions*



Samples (shows help info getfame -h

1. **getfame -n**

getfamenames (gets series names & metadata from databases with a list of wildcards)

2. **getfame -s**

getfameseries (gets observations from one or more series in database(s) given a list of serienames or wildcards)

3. **getfame -e**

getfameexpr (gets observations given 1 FAME expression)

For complete **jupyterlab** samples, see Github

Summary

- The **getfame -e** option use the full power of FAME and can evaluate formulas, functions, conversions among various series, formulas, frequencies and databases
- To get more series with **getfame -e** simply loop through expressions and add results to same charts or dataset.
- **getfame -n** is powerful when combining **grep | more | head** to search for series/formulas names or metadata

Observations & Comments

- Possible to introduce powerful and modern visualizations tools like Highcharts.com
- Reduce the barrier to use data in FAME, and the power of FAME, when simply calling **getfame** from Python or R
- With the **getfame** json api you have all functionality needed to build a GUI (like myfame) in DASH, Visual Studio, QT ...
- **getfame** can be run in quiet (silent) mode, no output is not shown on the screen: **getfame -nq** **getfame -sq** **getfame -eg**