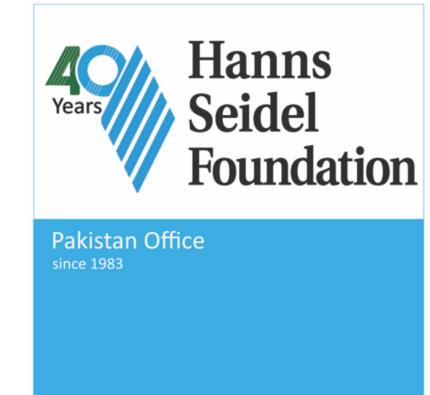




HSF Research Fellows

Zahid Asghar, Professor, School of Economics, QAU



dbye
work

Say Goodbye
To Guesswork



dbye
work

Say Goodbye
To Guesswork



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Say Goodbye

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Say Goodbye

2 Say G

Mixed Methods Research

- What is mixed methods research?
- Qualitative data analysis
- Quantitative data analysis
- How these two complement each other?

Sources

- Pakistan Election data sets
- Colin Cookman Paper on Pakistan elections
- R for political science
- Steven V. Miller
- Learn qualitative data interactively World Politics Data Lab
- NTI Nuclear Security Index
- Google trends
- APIs for social scientists

Softwares

Why my choice is R



What are mixed-methods research?

Mixed methods research

ers a process of discovery through rigorous **qualitative analysis**,
then empirically investigate it through **quantitative analysis**.

It is often used misleadingly and
used as a **jargon** instead of **utilising** it.

How many Russian soldiers died in Ukraine-Russia war?

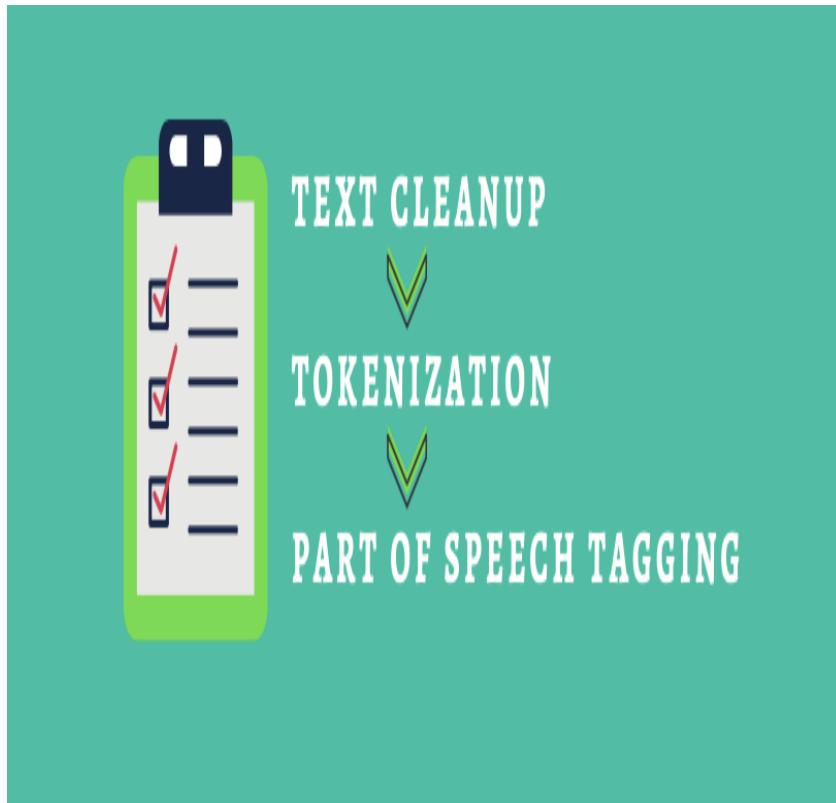
- Russia reports around 6000
- If you challenge it, how will you proceed
- Interviews, FGD for some information

Once some clues of under-reporting through rigorous exploration, how will you assess the actual number?

for details click [her](#)

- Visit cemeteries for deaths under 50 yrs
- Adjustment for covid deaths
- Get data on new inheritance accounts opened
- Started with interviewing, discussion, anecdotes, personal interviews and discovered underreporting by Russia, collected quantitative data and analyzed whether its really the case. This is one of the objectives of mixed-method research approach .

Qualitative Data Analysis





Industry Application of Text Analysis

Convert Unstructured Text Data Into Actionable Insights With Advanced Text Analysis

BytesView data analysis tool is one of the most effective and easiest ways to extract insights for unstructured text data. Get insights to improve marketing, customer support, human resources, and more

- Google trends
- Text Analysis
- Sentimental Analysis
- Taxonomy of data
- Metadata

Data formats

- **.csv, .txt, .dta , .sav, .xlsx, .RData, ...**
- Reading and saving/writing each ...
- parameterized reports cricket_batting data analytics repository
- Toshakhana data cleaning
- tidy vs untidy data

Inspecting data frames

Size:

- `dim(df)` - returns a vector with the number of rows as the first element, and the number of columns as the second element (the dimensions of the object)
- `nrow(df)` - returns the number of rows
- `ncol(df)` - returns the number of columns

Content:

- `head(df)` - shows the first 6 rows
- `tail(df)` - shows the last 6 rows

Names:

- `names(df)` - returns the column names (synonym of `colnames()` for `data.frame` objects)

Summary:

- `str(df)` - structure of the object and information about the class, length and content of each column
- `summary(df)` - **summary statistics for each column**
- `glimpse(df)` - returns the number of columns and rows of the tibble, the names and class of each column, and previews as many values will fit on the screen.

80% data dealing with these commands

We're going to learn some of the most common dplyr functions:

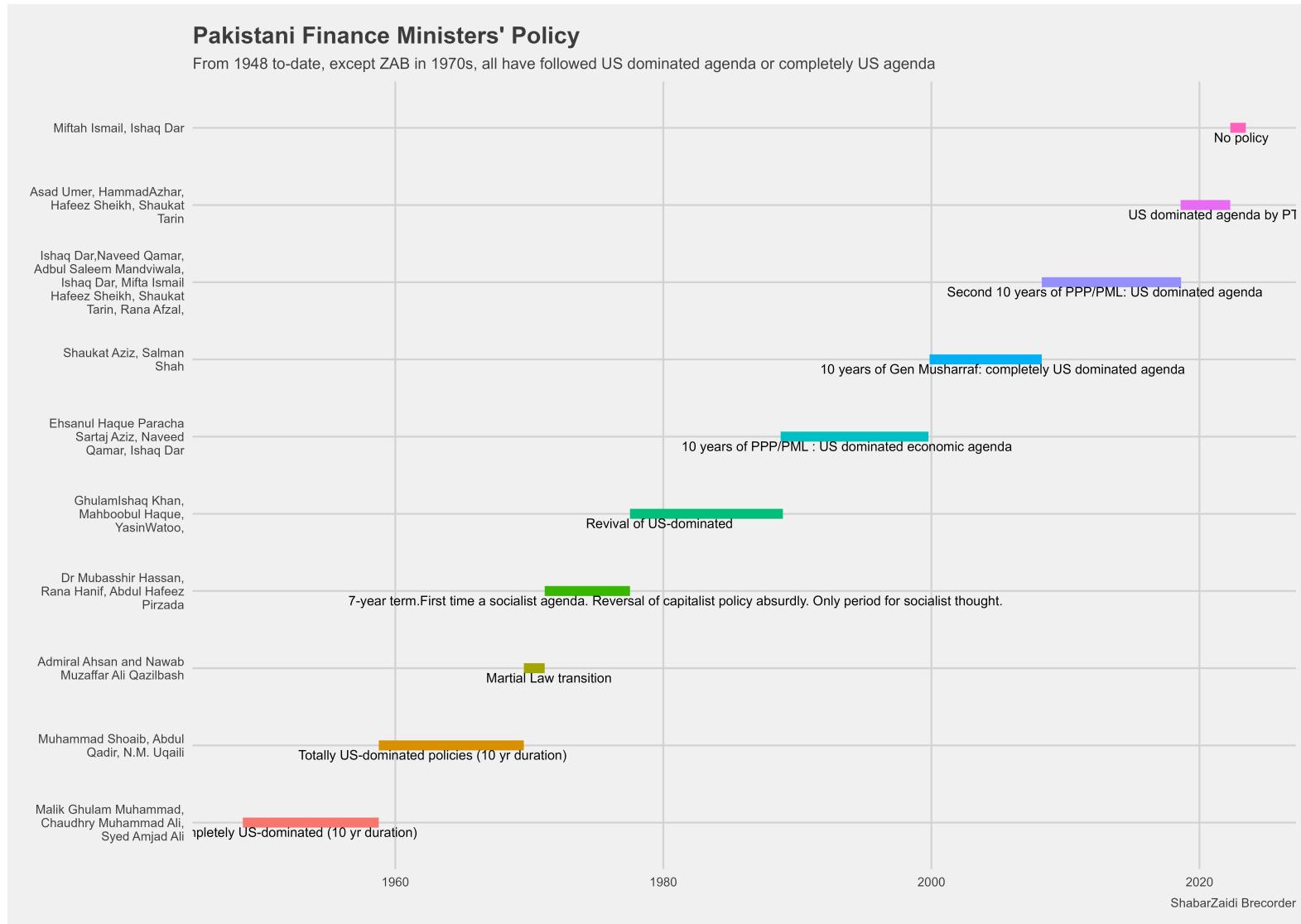
- `select()`: subset columns
- `filter()`: subset rows on conditions
- `mutate()`: create new columns by using information from other columns
- `group_by()` and `summarize()`: create summary statistics on grouped data
- `arrange()`: sort results
- `count()`: count discrete values



Numbers and numbers which matter are different.



Time-line data

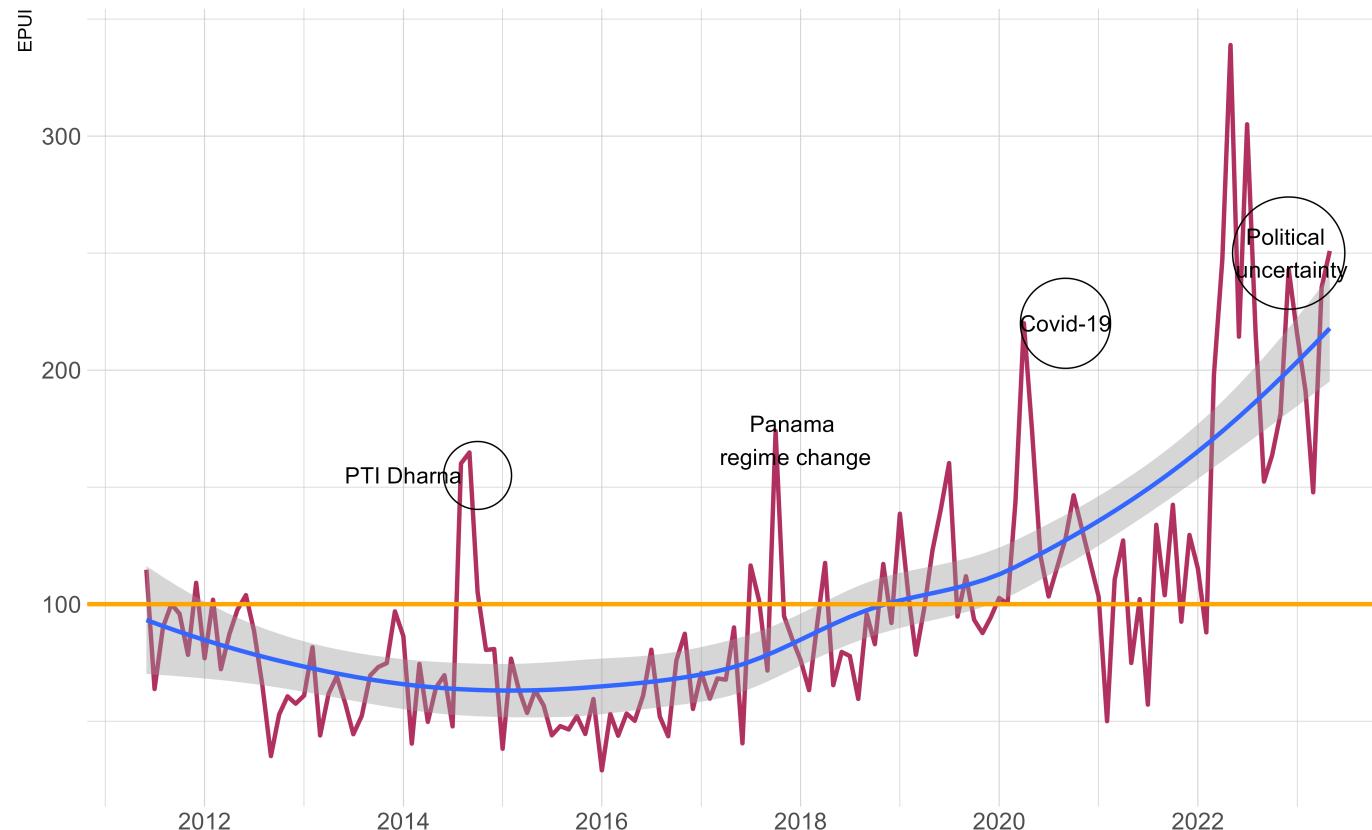


Finance Ministers Approach

Economic Policy uncertainty

Economic Policy Uncertainty Index for Pakistan

Pakistan has relatively higher policy uncertainty during the past 5 years than 2009-2018.



Source: <https://www.policyuncertainty.com/>, Graphics: @zahedasghar

Economic Policy Uncertainty Index



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DATA?



GOT DATA?



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