

Kezdi.jl: Bridging Stata and Julia for economists

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Who am I?

Economist + wannabe software developer

Language	Since
Stata	1997
Python	2003
Julia	2015

Data Editor at the *Review of Economic Studies*

What do economists do?

Evidence from ??? replication packages

They don't use Julia

They use multiple languages

What is Stata?

Best of Stata

Statistics

Tradeoffs in user interface

k standards $\rightarrow k + 1$ standards

I don't think if you at all

What do users want?

- 1 convenience
- 2 correctness

The Production Possibilities Frontier

- Rust: static typing, memory safe
- ChatGPT: convenient, may or may not be correct

Good example: row-level `if`

```
replace distance = 5 if distance < 5
```

Bad example: implicit variable abbreviation:

```
summarize gdp_per_capita
```

```
regress gdp population
```

Features of Kezdi.jl

Command syntax

Row-level if

Handling missing values

Proper data structures

User-defined functions

Roadmap

Data wrangling

Programming convenience

Statistics

Acknowledgements