

The Interactive Isnalyser

Making Transmissions of Oral Tradition Tangible

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Setting

Transmission of Oral Tradition

- Tour through this project
- But before
- Ḥadīth is passed orally
- Visualization helps

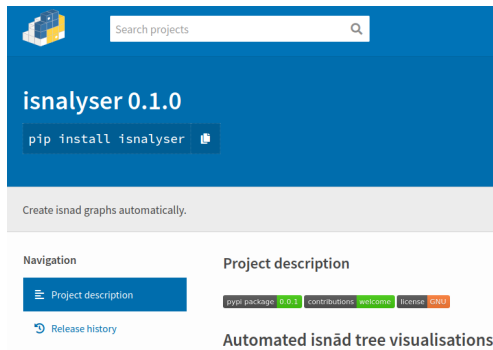
image here

- Maroussia exploring different tools
- Python as powerful flexible tool to get something up and running
- Graphviz to draw nice graphs
- My Job: Create Python library from existing code

- Move everything to Github
- Adjust folder/file structure according to PyPI standards
- Register on Test PyPI and PyPI



- Upload on Test PyPI
 - See if it works
 - See that it does not work
 - Repeat 3-4 times until it works
- Upload to real PyPI and feel good!



The screenshot shows the PyPI project page for 'Isnalyser'. At the top, there's a blue header with the project name 'Isnalyser' and a search bar. Below the header, the version '0.1.0' is displayed. A dark blue button contains the command 'pip install isnalyser'. A light gray box below the button says 'Create isnad graphs automatically.' The page is divided into two columns. The left column, titled 'Navigation', has a blue button for 'Project description' and a link for 'Release history'. The right column, titled 'Project description', shows a row of links: 'pypi package', '0.0.1', 'contributions', 'welcome', 'license', and 'GNU'. Below these links, the text 'Automated isnād tree visualisations' is visible.

Search projects

isnalyser 0.1.0

`pip install isnalyser`

Create isnad graphs automatically.

Navigation

- Project description
- Release history

Project description

[pypi package](#) [0.0.1](#) [contributions](#) [welcome](#) [license](#) [GNU](#)

Automated isnād tree visualisations

- If you are interested: Just `pip install isnalyser`

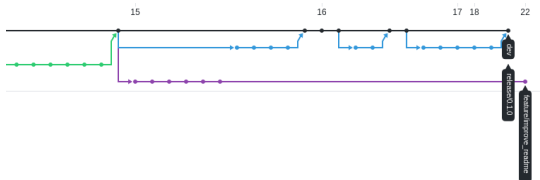
Isnalyserjs

Making the isnalyser more accessible

- Python is great but requires coding knowledge
- Idea: create a web application
- Users can upload table and explore their data

- Natural choice: Javascript
- But with which extensions?
- Long phase of exploration
 - D3, Dagre, Cytoscape, ...
- Each with own strengths and weaknesses
- Realize that Graphviz is really great
- Solution: -> d3-graphviz
 - Someone literally translated the whole graphviz into javascript
 - This allowed us to use the graph layout power of graphviz and the visualization power of d3

- Implement the functionalities from Python to Javascript
- Use gitflow to track features
 - Main branch
 - Each new feature as new branch
 - If feature is finished, merge into main branch



- Now ready for its first release

image here

We want you!

- Use the tools
- Iteraction on different levels
 - code
 - github issues
 - mail
 - ...

Conclusions

What did we learn from this project?

- Creating a PyPI package is not that hard
- Git flow helps keeping track and maintaining transparency
- Listen to different opinions
- Most important part of the project are users
- Interaction happens on many levels
- If you interested in the two tools
 - Try them out
 - File github issues
 - Send us mails
 - Extend the code
- Never do a live demo, so that is exactly what I'm gonna do now