Utilising our external APIs

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Introduction

Paper: My experiences serving API to external users

Presentation:

- 1. Real world API examples
- 2. Don't reinvent the wheel, open source tools for using our APIs
- 3. Tools example

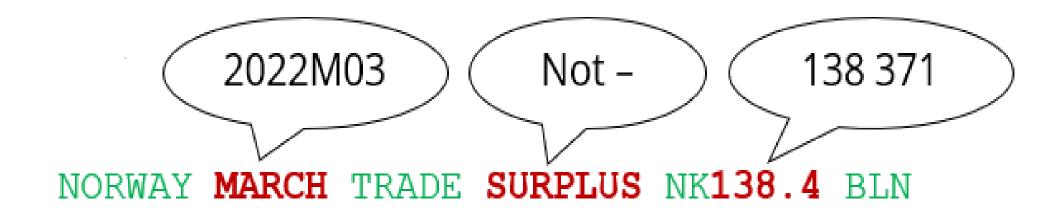


Why API?

- Most nordic NSIs use PxWeb and share the same API, PxWebApi
- API provides access to our statbanks and data through machine to machine communication
- The user can customise the query and data within their own software environment



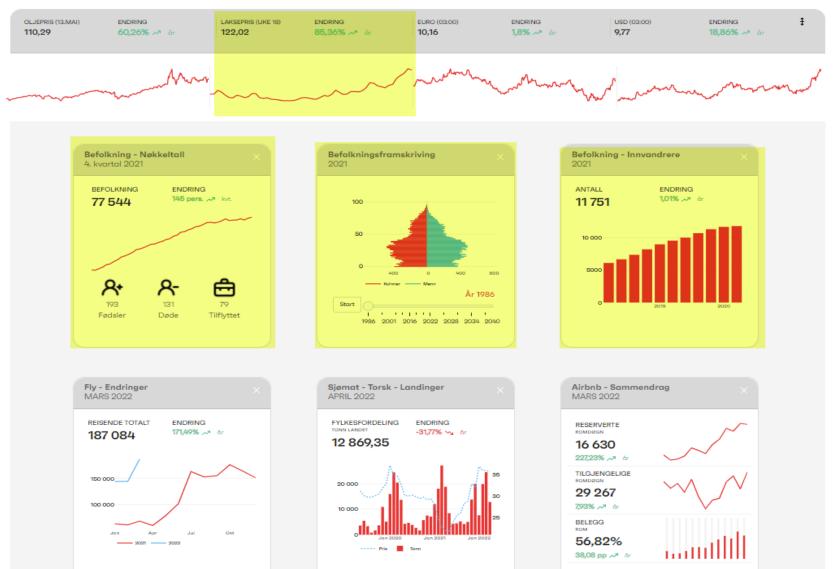
Api example 1 - Bloomberg one-liner



Data assisted economic journalism



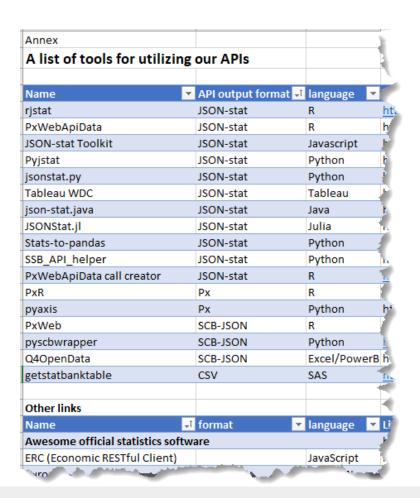
API-example 2 – Kunnskapsbanken Nord-Norae



Yellow: SSB API data

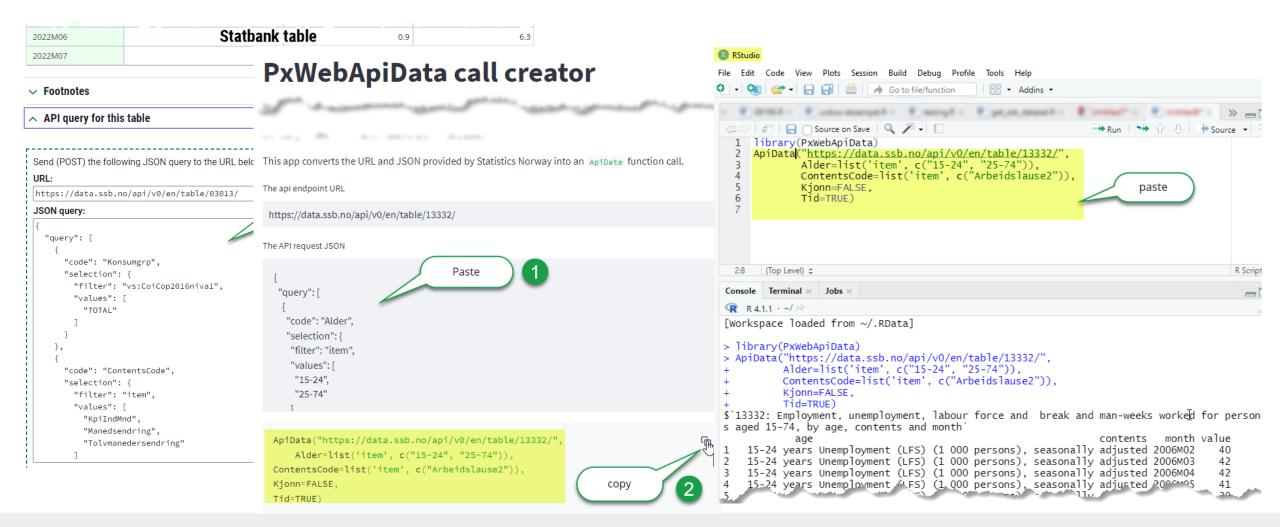
Do not reinvent the wheel

- Reduce learning curve
- Use and improve the Statbank API-tools
 - See appendix



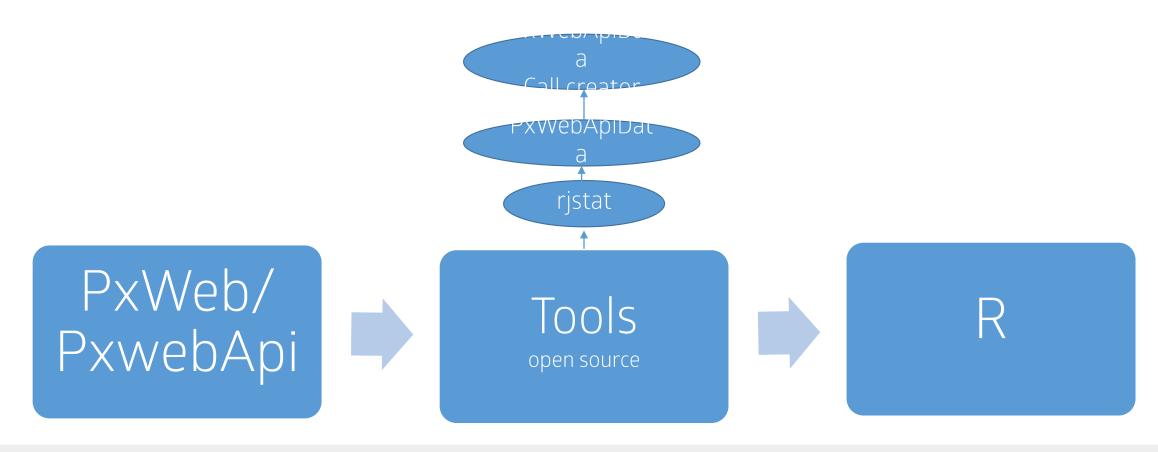


Tools example: From PxWeb via API to R





From Statbank via API to application





Appendix for list of tools

Name	~	API output format 🗐	language *
rjstat		JSON-stat	R
PxWebApiData		JSON-stat	R
JSON-stat Toolkit		JSON-stat	Javascript
Pyjstat		JSON-stat	Python
jsonstat.py		JSON-stat	Python
Tableau WDC		JSON-stat	Tableau 1
json-stat.java		JSON-stat	Java
JSONStat.jl		JSON-stat	Julia
Stats-to-pandas		JSON-stat	Python
SSB_API_helper		JSON-stat	Python
PxWebApiData call creator		JSON-stat	R 🗊
PxR		Px	R
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Most API users are not professional developers

- To build competence we have done:
 - Help and resource pages.
 - Code examples in R, Python, JavaScript, also as Jupyter notebooks.
 - Half day courses (physical and online) 3-8 times a year, (400 participants)
 - Short and long videos
 - User support by <u>statistikkbanken@ssb.no</u>
 - Mailing list a few times a year about news and big changes to the tables
 - Participation at user meetings, seminars etc.
 - Hacks national and local at Statistics Norway
 - Social media (Twitter, LinkedIn)



Check out Statistics Norway's API pages, ssb.no/api

