

News in PxEdit

Veli-Matti Jantunen

Statistics Finland

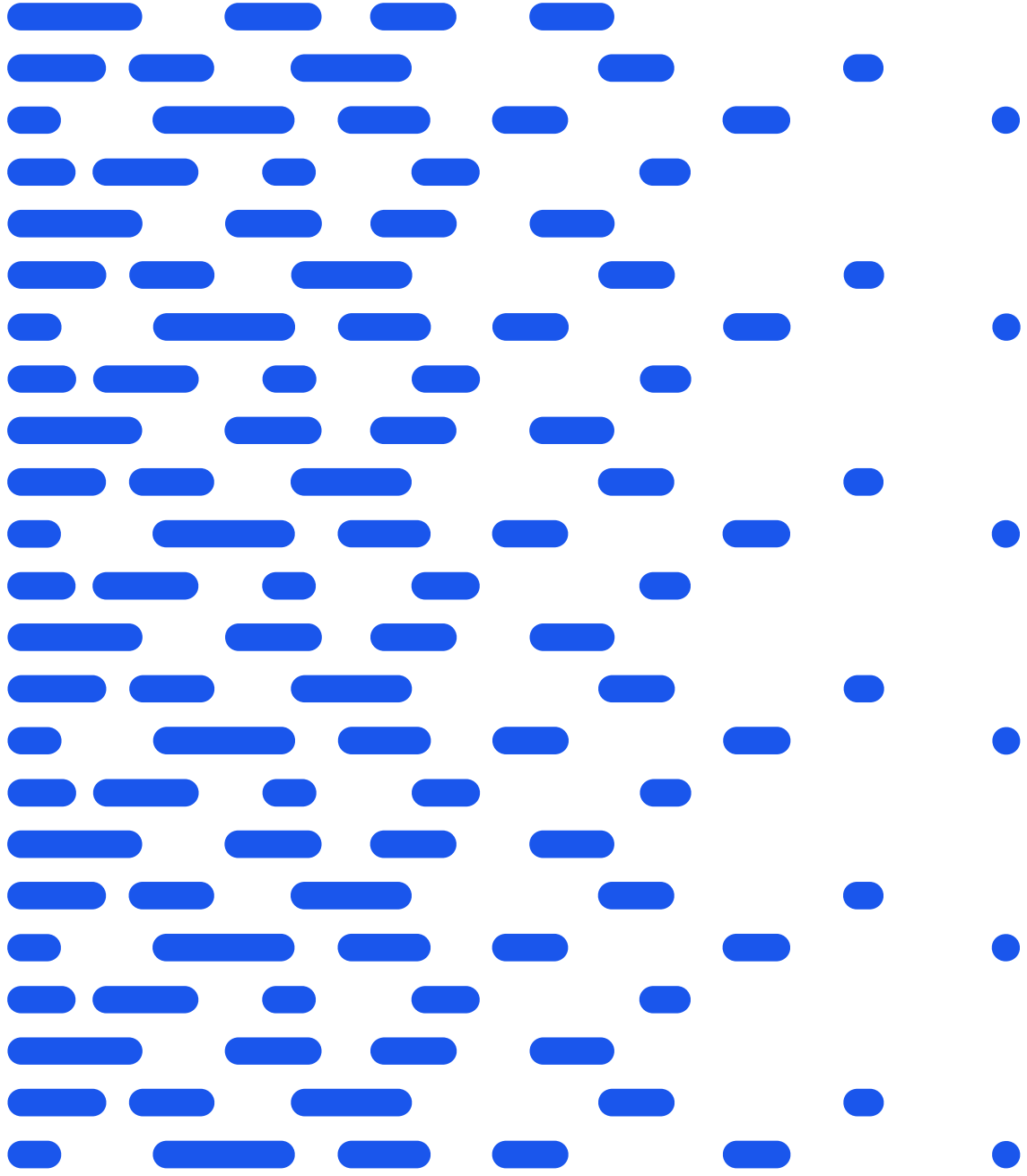
Development and Digitalisation

Technology Services

Interface Technologies

15/7/2023

PX-Meeting in Riga



PxEdit 4.1

New version (and some other) features /1

- Upgraded version
 - new dll's
 - Internet **connection** package
- Speedups
 - especially **huge** eccentric tables, such as large Excel tables, text files and px tables with lots of metadata
 - up to 40-60%
 - Excel/clipboard reading still have the upper limit which comes from available RAM
 - ..but I have some ideas 😊
- Bug fixes
 - yes, there has been **some** 😞
- Tutorial presentations available (you may add your own .pdf files if needed)
 - *Help | **Tutorials***



New version (and some other) features /2

- **Open database** connection

- There has to be a [**Database**] section in the main settings file

```
databases=StatFin, Paavo; SiStat
```

list of available open databases

```
StatFin_api=https://statfin.stat.fi/pxweb/api/v1/fi/StatFin/
```

API path for retrieving metadata

```
StatFin_path=https://statfin.stat.fi/database/StatFin/
```

path for retrieving whole tables

```
Paavo_api=https://statfin.stat.fi/pxweb/api/v1/fi/Postinumeroalueittainen_avoin_tieto
```

```
Paavo_path=https://statfin.stat.fi/database/Postinumeroalueittainen_avoin_tieto
```

```
..
```

- **Comparing** current table to the database version

- PxEdit: *Edit* | *Compare to database*

- PxJob: set= -h**313** out=

- **List** the used web links (in the keywords)

- PxJob: -h**200** out=

- **Test** the database web links

- PxJob: set= -h**404** out=

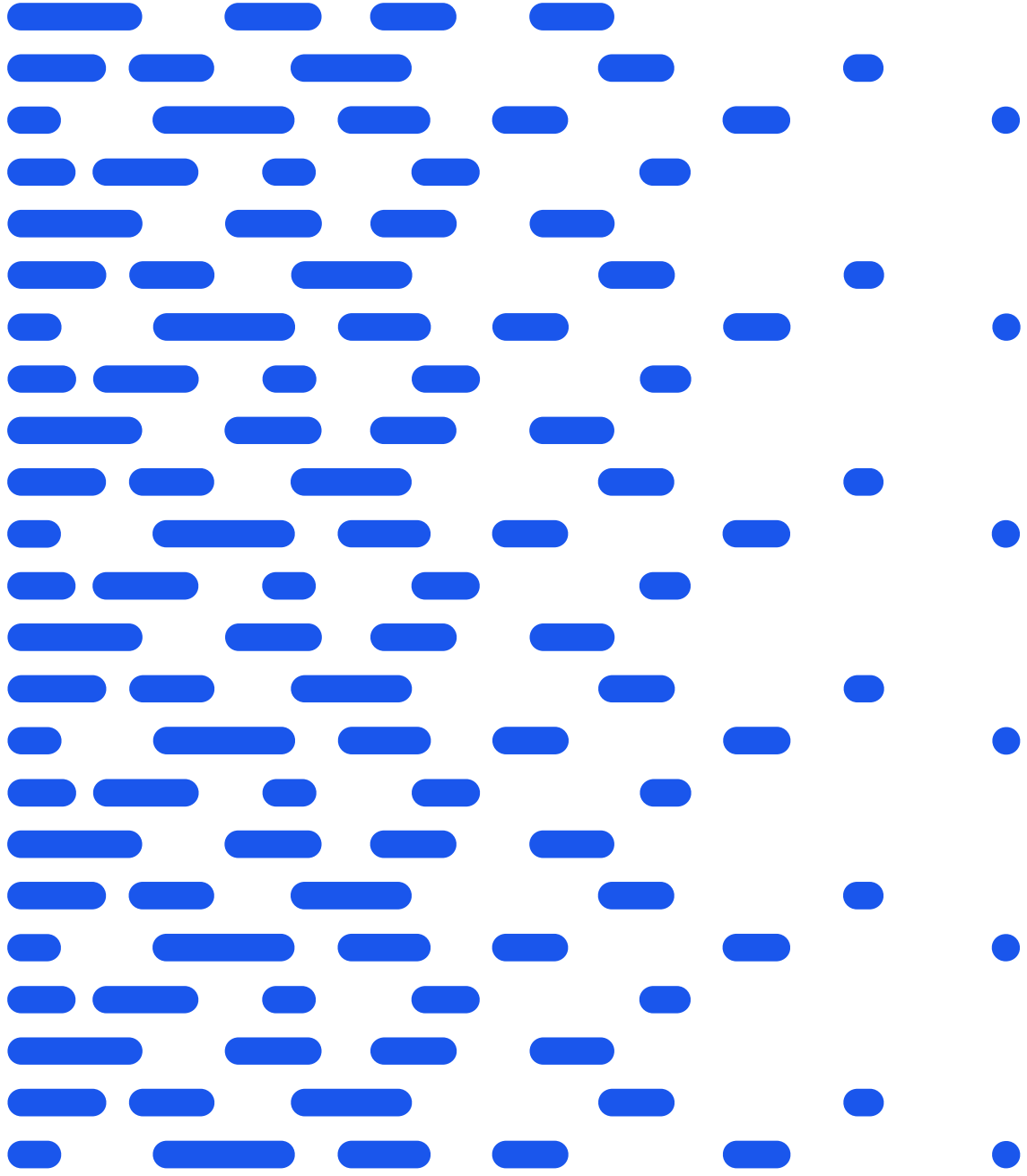
- BTW: may be quite slow ☹️



New version (and some other) features /3

- Reading metadata from control file in PxEdit: *Edit | Import from control file*
- Enhanced *TIMEVAL* handling
 - support for new frequencies: **D** (daily) and **T** (three times per year)
 - week frequency handles the week number **53**
 - possible to switch the *TIMEVAL* checking off (for non-standard time variables)
PxEdit: *Settings | File reading | Skip TIMEVAL*
PxJob: **!T**
- Keep the original *DECIMALS* when joining tables
 - PxEdit/Join window: *Keep DECIMALS*
 - PxJob: **-j d**
- Analyse the **.vs** and **.agg** files used in the database
 - PxJob: **set= -h101 out=**
- **Ctrl+R** opens the Report window
- **Variable** font ...



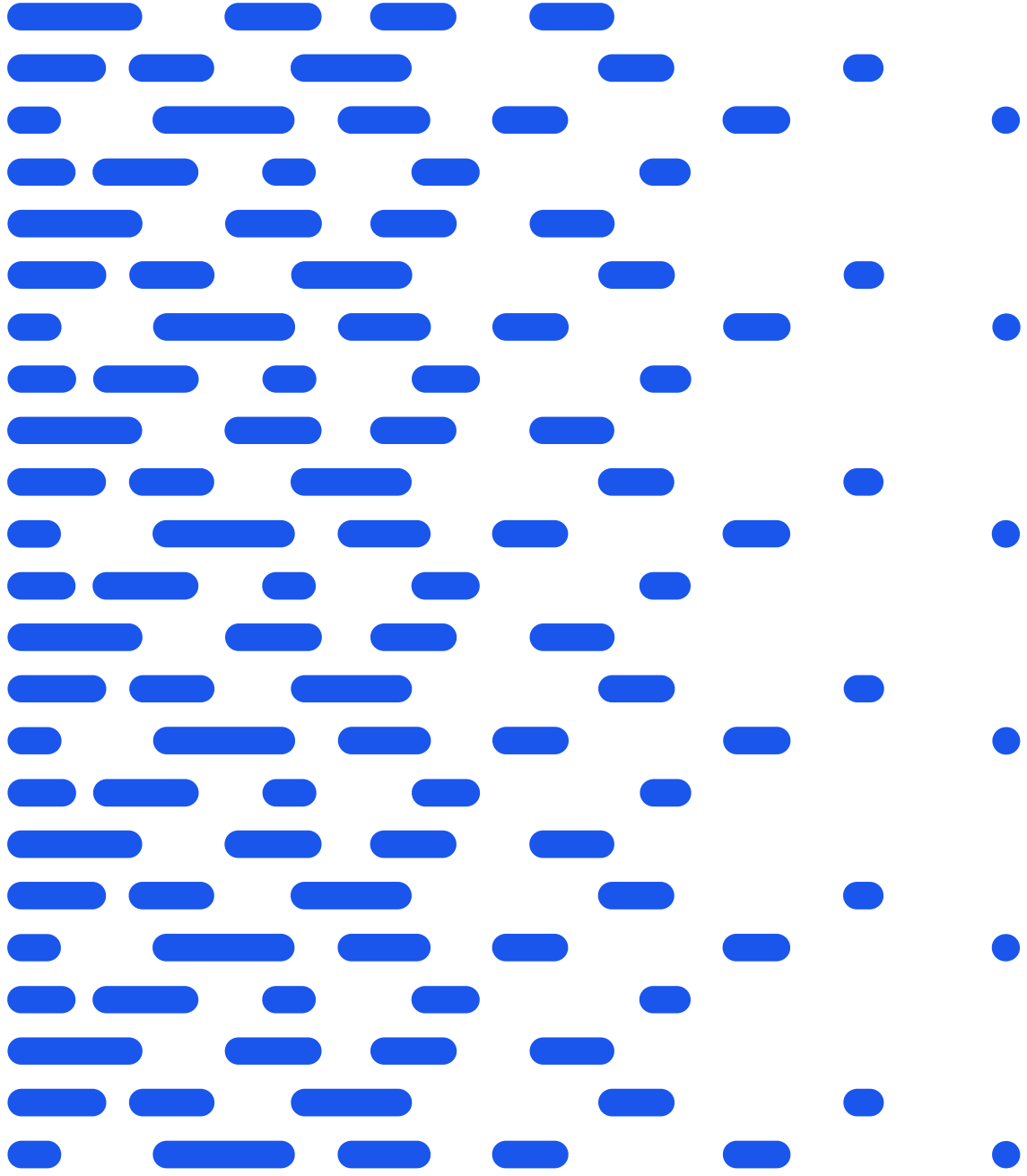


Metadata enriching

There are several ways to inject metadata

- Editing manually in PxEdit
- Using **structural** tables with keyword blocks
- **Table joining**
 - PxEdit: *Edit | Join tables*
 - PxJob: **in=.., .. -j**
- Using **default** values defined in the settings file
 - PxEdit: *Edit | Defaults* or **Ctrl+k**
 - PxJob: **set=.. -m**
- **Importing** metadata from another .px (or .pxk) file
 - PxEdit: *Edit | Import keywords* or **Ctrl+i**
Edit | Import from (from **open** table)
 - PxJob: **meta=../import.px** (metadata **file**)
meta=../import/ (**directory** & sub-directories, the source file has similar name as the original one)
- Reading metadata from a **control file**
 - PxEdit: *Edit | Import from control file*
 - PxJob: **meta=..control.csv** (there are extra options, such as deleting and replacing as well)





Future

Retirement...

- I *could* have retired last summer - ..but won't do that in the near future 😊
- It is good time to ponder what to do with PxEdit/PxJob so that they will be available for (some) years to come
 - **GitHub** seems to be the answer to that problem
- My aim is to develop the version **5.0** for being **open software**, which means that
 - there will be **intermediate** versions which will slowly be (internally) changed to the open version
 - not much new features – actually I will remove old stuff as much as possible
 - perhaps only **64-bit** version
- I have an **alpha** version which contains most of the things, such as
 - informative object names (doesn't everybody use one-character variable names, though?)
 - better code structure (from flat architecture to a more namespace-related one)
- There's still a lot of work to be done
 - source code to **text files**
 - comments and documentation in English
 - ancient code remnants should be upgraded
 - even the programming environment can be standardised



These features will be removed in the future (if there is no enough resistance)

- CoSSI/XML
 - not being used in Statistics Finland any more
- eXplorer output format
- PxSQL output
- *Statistics Finland specific*
 - eXist connection
 - output packages
 - some special/outdated PxJob functions
- Others
 - obscure/outdated settings (e.g. `ISO_date`)

