

# USING THE TOOL OBSERVABLE

– to enhance data quality & speed things up

We have managed to speed up data cleaning in Chalmers Research, the Current Research Information System (CRIS), at our university by 400 % by developing a tool (in Observable) that compares data via API and finds deviations between databases.

## THE TOOL

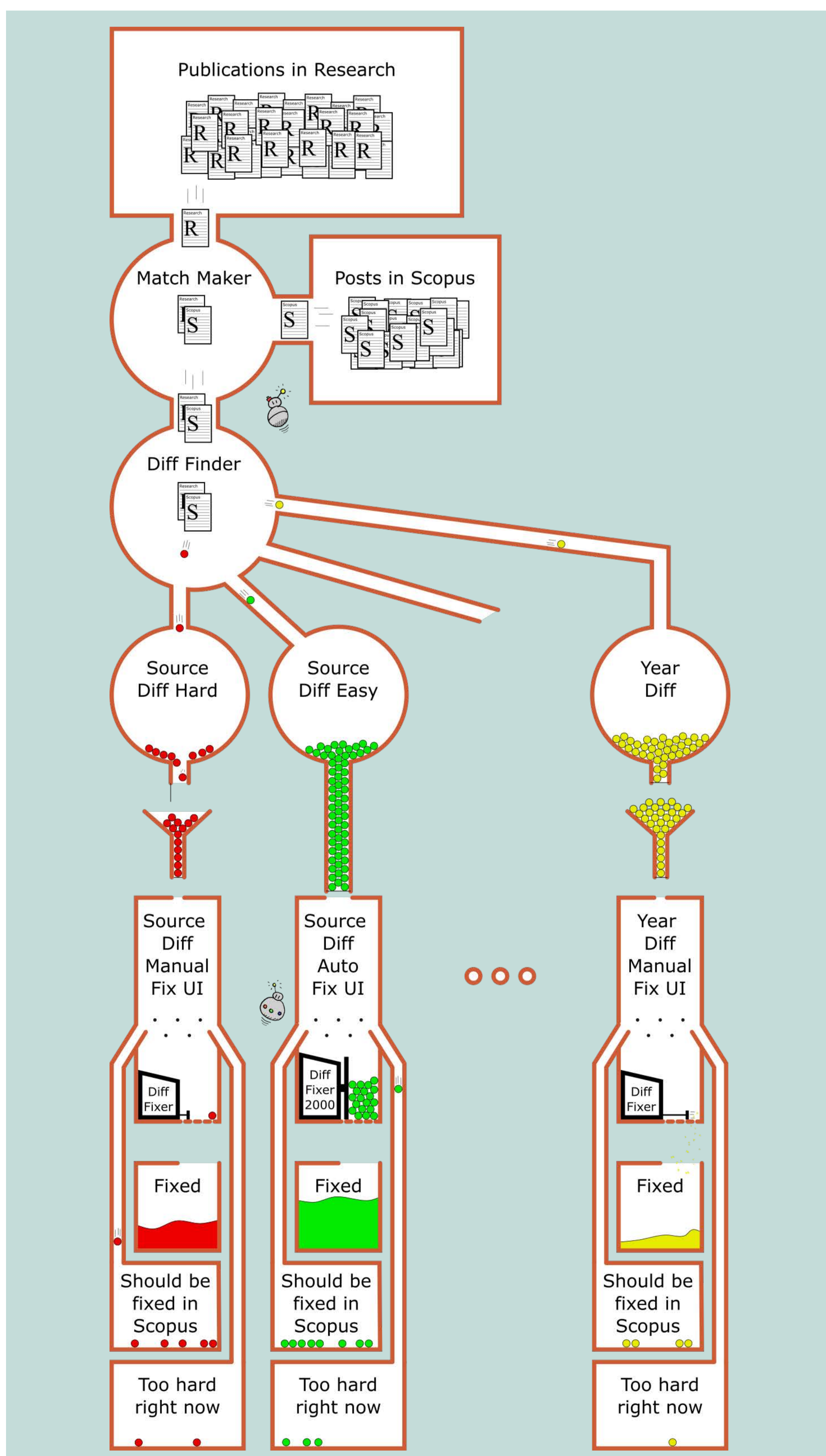
Observable is a great tool for Rapid Application Development with its own flavour of JavaScript. It is suitable for iterative development. Nothing is hidden. All implementation details are visible next to the functionality.

## CONTEXT

We use an in-house developed CRIS with the ambition to offer a user-friendly and accessible system to researchers, students, and the public, worldwide. We enter all publication and research projects which our researchers produce and participate in.

## STEPS

We wrote basic code to find all error types for one metadata field. We then decided on what deviations we could correct automatically and what deviations we needed to assess manually.



### METADATA CHECKED

- DOI
- Open access
- Publication year
- Publication type

### NEXT METADATA FIELDS TO CHECK

- Publisher
- Volume
- Key words
- Number of authors and affiliations

## WHY?

Using our tool developed in Observable we experience that it is:

- More fun, we clearly see our progress
- A lot faster, saves about 80 % of our time
- A better overview of the error types that exist

## NUMBERS

Our database contains about 87 000 publications. In 12 months we have:

- corrected metadata automatically in 5982 records
- corrected 7973 metadata fields in our records manually
- In the same period, we have sent over 350 error reports to Scopus on their metadata.

## LINKS

- Observable: <https://observablehq.com>
- Chalmers Research: <https://research.chalmers.se>
- Scopus: <https://www.scopus.com>

