

Hands-on Silk

- Download: <https://github.com/silk-framework/silk>
- Workbench application pre-installed in the VM
- Discover the following links:

Source Dataset	Relation	Target Dataset
Field Boundaries	Contains	Raster Cells
OSM Water Bodies	Intersects	Natura (2000)
Natura (2000)	Within	Federal States of Germany

Easy

Bonus

Bonus

All the datasets will be first converted to RDF with GeoTriples!

Start the Silk Workbench

Silk Workbench

Silk Workbench is a web application which guides the user through the process of interlinking different data sources.

Silk Workbench offers the following features:

- It enables the user to manage different sets of data sources and linking tasks.
- It offers a graphical editor which enables the user to easily create and edit link specifications.
- As finding a good linking heuristics is usually an iterative process, the Silk Workbench makes it possible for the user to quickly evaluate the links which are generated by the current link specification.
- It allows the user to create and edit a set of reference links used to evaluate the current link specification.

Documentation

Documentation on the Silk Workbench and the Silk Link Discovery Framework in general can be found in the [Wiki](#).

Support and Feedback

For questions and feedback please use the [Silk Google Group](#).

Current Workspace

Your current workspace contains 1 project(s).

Open Workspace

Load Example

Open Workspace

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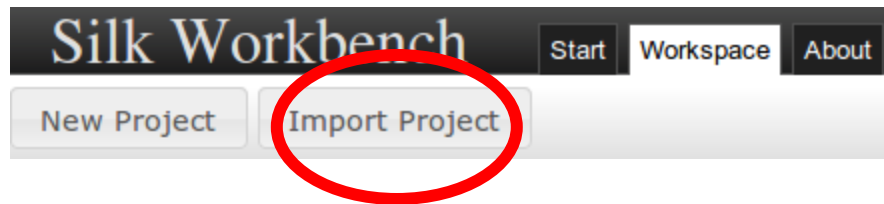
Current Workspace

Your current workspace contains 1 project(s).

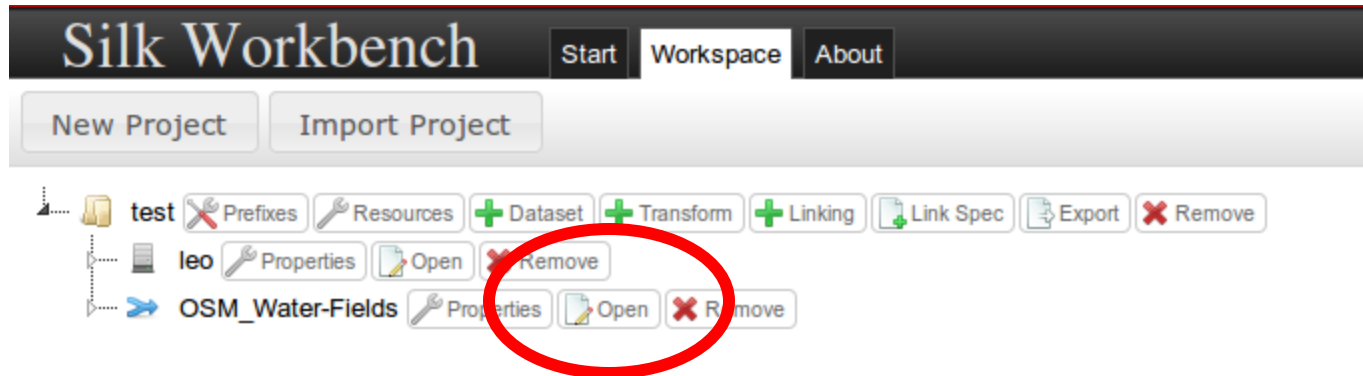
Open Workspace

Load Example

Import the project that you will find in
the Desktop of the VM



Open the Linkage Rule



Modify the Linkage Rule

Silk Workbench Start Workspace Editor Generate Links Reference Links Status About

Undo Redo Help

Property Paths Source: (custom path)
?s/geo:hasGeometry/geo:asWKT
?s/rdf:type
?s/geo:hasGeometry
?s/rdf:label
Target: (custom path)
?t/geo:hasGeometry/geo:asWKT
?t/geo:hasGeometry
?t/rdf:type
?t/rdf:label

Transformations Recommended
Constant
Lower case
Tokenize

Comparators Recommended
Equality
Jaccard
Levenshtein distance

Aggregators Recommended
Average
Maximum
Minimum

Path (Target) name: unnamed_3
?s/geo:hasGeometry/geo:asWKT

Path (Target) name: unnamed_5
?t/geo:hasGeometry/geo:asWKT

Geometry Transformer (Transform) name: unnamed_2

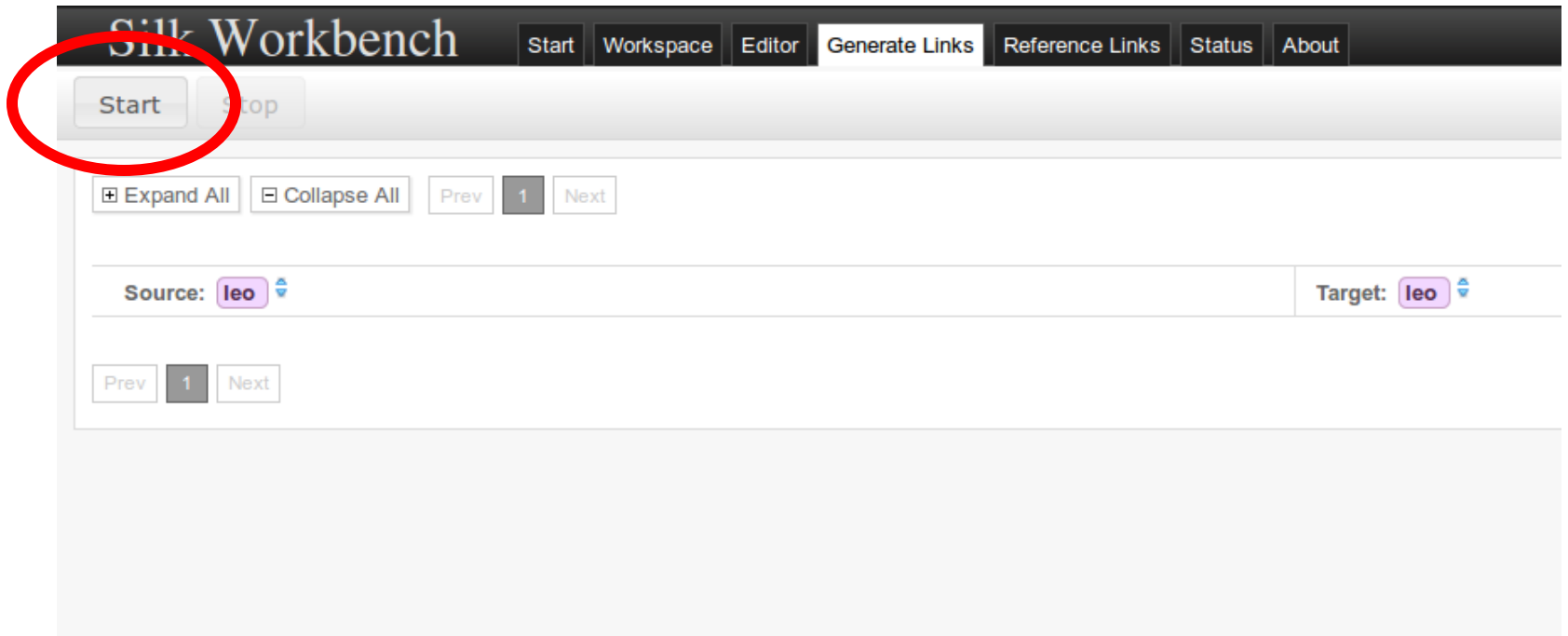
Geometry Transformer (Transform) name: unnamed_4

Contains (Compare) name: unnamed_1
required:
threshold: 0.0
weight: 1
blockingParameter: 1.0

Link Limit: unlimited Link Type: geo:contains

The screenshot displays the Silk Workbench interface. On the left, there are three panels: 'Property Paths' with source and target paths, 'Transformations' with Constant, Lower case, and Tokenize options, and 'Comparators' with Equality, Jaccard, and Levenshtein distance options. The main workspace shows a workflow diagram on a grid. It starts with two 'Path (Target)' nodes: 'unnamed_3' with path '?s/geo:hasGeometry/geo:asWKT' and 'unnamed_5' with path '?t/geo:hasGeometry/geo:asWKT'. Both paths lead to 'Geometry Transformer (Transform)' nodes: 'unnamed_2' and 'unnamed_4'. The outputs of these transformers converge into a single 'Contains (Compare)' node named 'unnamed_1'. This node has a 'required' checkbox, a 'threshold' of 0.0, a 'weight' of 1, and a 'blockingParameter' of 1.0. At the bottom, the 'Link Limit' is set to 'unlimited' and the 'Link Type' is 'geo:contains'.

Start the Link Generation



The screenshot displays the Silk Workbench interface. At the top, a dark navigation bar contains the title "Silk Workbench" and several menu items: "Start", "Workspace", "Editor", "Generate Links", "Reference Links", "Status", and "About". Below this bar, a light gray control panel features a "Start" button circled in red, followed by a "Stop" button. Underneath, there are buttons for "Expand All", "Collapse All", "Prev", "1", and "Next". The main area shows a "Source: leo" field and a "Target: leo" field, both with dropdown arrows. At the bottom, there are "Prev", "1", and "Next" navigation buttons.

Examining Generated Links

```
$ less
```

```
/home/leo/Desktop/FieldBounda  
riesRasterCellsLinks.nt
```


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