
xml miner Documentation

Release 0.0.5

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Contents:

1	XML/TRXML Selector	1
1.1	Description	1
1.2	Status	1
1.3	Requirements	1
1.4	Installation	1
1.5	Usage	1
1.6	Development	3
1.7	selector and output details:	3
2	Installation	5
2.1	Stable release	5
2.2	From sources	5
3	Credits	7
3.1	Development Lead	7
3.2	Contributors	7
4	0.0.5 (2019-10-14)	9
5	0.0.4 (2019-09-11)	11
6	0.0.3 (2019-08-11)	13
7	0.0.2 (2019-08-09)	15
8	0.0.1 (2019-08-09)	17
9	0.0.0 (2019-08-06)	19
10	Indices and tables	21

1.1 Description

This package provides two scripts: `mine-xml` and `mine-trxml`.

`mine-xml` selects tags from `xml/mxml` files, and save the selected values to file.

`mine-trxml` selects fields from `trxml/mtrxml` files, and save the selected values to file.

1.2 Status

1.3 Requirements

Python 3.6+

1.4 Installation

```
pip install xml-selector
```

1.5 Usage

1.5.1 Use xml selector script

The xml selector supports:

- one or more tagnames:
- selector could be one tagname name
- or comma separated tagnames langskill,compskill,softskills
- multiple sources:
- e.g. select from xml dir, xml files, mxml file, or directly from annotation server

examples:

```
#select from xml directory
mine-xml --source tests/xm1s/ --selector name --output_file name.tsv
mine-xml --source tests/xm1s/ --selector langskill,compskill,softskill --output_file_
↪skill.tsv --with_field_name

#select from xml file or mxml file
mine-xml --source tests/sample.mxml --selector experience --output_file experience.tsv

#select directly from annotation server
mine-xml --source localhost:50249 --selector name --output_file name.tsv --query "set_
↪Data2018"
```

1.5.2 Use trxml selector script

The trxml selector supports:

- one or more selectors:
- selector can be one field: name.0.name
- or comma separated fields: name.0.name,address.0.address
- single or multi item:
- can select field from one item, e.g. experienceitem.3.experience
- or select field value of all item, e.g. experienceitem.experience (or experienceitem.*.experience)
- multiple sources:
- e.g. select from trxml dir, trxml files, or mtrxml file

examples:

```
# one selector, single item
mine-trxml --source tests/trxm1s/ --selector name.0.name --output_file name.tsv

# one selector, multiple item
mine-trxml --source tests/sample.mxml --selector experienceitem.experience --output_
↪file experience.tsv

# more selectors, single item
```

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```

mine-trxml --source tests/trxmls/ --selector name.0.name,address.0.address,phone.0.
↪phone --output_file personal.tsv

# more selectors, multiple item
mine-trxml --source tests/sample.mxml --itemgroup experienceitem --fields experience,
↪experiencedate --output_file experience.tsv
mine-trxml --source tests/sample.mxml --selector experienceitem.*.experience,
↪experienceitem.*.experiencedate --output_file experience.tsv
mine-trxml --source tests/sample.mxml --selector experienceitem.experience,
↪experienceitem.experiencedate --output_file experience.tsv

```

1.6 Development

To install package and its dependencies, run the following from project root directory:

```
python setup.py install
```

To work the code and develop the package, run the following from project root directory:

```
python setup.py develop
```

To run unit tests, execute the following from the project root directory:

```
python setup.py test
```

1.7 selector and output details:

- mine-xml:

input: documents, selector(s), output

output:

- default (parameter with_field_name not set): filename, field_value

e.g. select all names with selector name

filename	value
xxxx	Chao Li

- parameter with_field_name set: filename, field_value, field_name

e.g. select skills with selector compskill,langskill,otherskill

filename	value	field
xxxx	java	compskill
xxxx	dutch	langskill

- mine-trxml

- input:

- documents, selector(s), output,

- documents, itemgroup, fields, output
- single selector:
- single item (`name.0.name`): filename field

filename	name.0.name
xxxx	Chao Li

- multi items (`skill.*.skill`): filename item_index field

filename	item_index	field
xxxx	0	java
xxxx	1	dutch

- multiple selectors
- single item: filename, field1, field2 ...

each selector points to a field of a specific item with a digital index, e.g. `name.0.lastname`, `name.0.firstname`, `address.0.country`

filename	name.0.lastname	name.0.firstname	address.0.country
xxxx	Li	Chao	China
xxxx	Lee	Richard	USA

- multi items: filename, item_index, field1, field2 ...

each selector points to a field from all items in an itemgroup, e.g. `skill.skill`, `skill.type`, `skill.date`

filename	skill	skill	type	date
xxxx	0	java	compskill	2001-2005
xxxx	1	dutch	langskill	2002-

2.1 Stable release

To install xml-miner, run this command in your terminal:

```
$ pip install xml-miner
```

This is the preferred method to install xml-miner, as it will always install the most recent stable release.

If you don't have [pip](#) installed, this [Python installation guide](#) can guide you through the process.

2.2 From sources

The sources for xml-miner can be downloaded from the [Github repo](#).

You can either clone the public repository:

```
$ git clone git://github.com/tilaboy/xml-miner
```

Or download the [tarball](#):

```
$ curl -OL https://github.com/tilaboy/xml-miner/tarball/master
```

Once you have a copy of the source, you can install it with:

```
$ python setup.py install
```


CHAPTER 3

Credits

3.1 Development Lead

- Chao Li <chaoli.job@google.com>

3.2 Contributors

- Chao Li

CHAPTER 4

0.0.5 (2019-10-14)

- bug fix: ElementTree xpath find will return a None if value is an empty string, restore to empty string

CHAPTER 5

0.0.4 (2019-09-11)

- bug fix: reading always use utf8, and not continue reading if failed on encoding of one document

CHAPTER 6

0.0.3 (2019-08-11)

- expand miner.py module to generate matched phrases per doc

CHAPTER 7

0.0.2 (2019-08-09)

- added support for CI

CHAPTER 8

0.0.1 (2019-08-09)

- make two script: mine-xml and mine-trxml

CHAPTER 9

0.0.0 (2019-08-06)

- Add the first version of the mine_xml and mine_trxml

CHAPTER 10

Indices and tables

- `genindex`
- `modindex`
- `search`