
rdfpandas

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1.1 rdfpandas package

1.1.1 Submodules

1.1.2 rdfpandas.graph module

`rdfpandas.graph.to_dataframe` (*g*: `rdflib.graph.Graph`) → `pandas.core.frame.DataFrame`

Takes `rdflib` Graph object and creates Pandas `DataFrame`. Indices are subjects and attempt is made to construct CURIes using namespace manager of the `rdflib` Graph. Columns are predicates and attempt is made to construct CURIes using namespace manager of the `rdflib` Graph, similar to indices. Column names are created using “predicate{`rdflib` Identifier instance class name}(type)[index]@language” pattern to allow for round trip conversion. Multiple objects for the same subject and predicate result in columns with index in its name. No attempts are made at type conversion, all objects are strings in the `DataFrame`.

g [`rdflib.Graph`] `rdflib` Graph.

pd.DataFrame Pandas `DataFrame` created from `rdflib` Graph.

`rdfpandas.graph.to_graph` (*df*: `pandas.core.frame.DataFrame`, *namespace_manager*: `rdflib.namespace.NamespaceManager = None`) → `rdflib.graph.Graph`

Takes Pandas `DataFrame` and returns `RDflib` Graph. Row indices are used as subjects and column indices as predicates. Object types are inferred from the column index pattern of “predicate{`rdflib` Identifier instance class name}(type)[index]@language”. Index numbers simply create additional statements as opposed to attempting to construct a new `rdflib`:List or `rdflib`:Container. Namespaces need to be bound by the user of the method prior to serialization.

df [`pandas.DataFrame`] `DataFrame` to be converted into Graph.

namespace_manager [`rdflib.namespace.NamespaceManager`] `NamespaceManager` to use to normalize URIs

rdflib.Graph Graph created from Pandas `DataFrame`.

1.1.3 Module contents

CHAPTER 2

Introduction

RdfPandas is a module providing RDF support for Pandas. It consists of two simple functions for Graph to DataFrame conversion and DataFrame to Graph conversion.

For more details and the source code see <https://github.com/cadmiumkitty/rdfpandas/>

We run Semantic Web London meetup <https://www.meetup.com/semantic-web-london/>

CHAPTER 3

Indices and tables

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

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T

`to_dataframe()` (*in module rdfpandas.graph*), 1

`to_graph()` (*in module rdfpandas.graph*), 1