



Graphs and grammars for Context-Free Path Querying algorithms evaluation.

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## CFPQ\_Data

Graphs and grammars for experimental analysis of context-free path querying algorithms.

### Prerequisites

- GCC
- Python 3

### How to start

Just install requirements and run `init.py`:

```
pip3 install -r requirements.txt
python3 init.py
```

This script downloads data (real-world RDF files) and [GTgraph](#), a suite of graph generators. After that, some synthetic graphs are generated with it.

In order to download/update one specific part of the dataset run:

```
python3 init.py --update [GroupName]
```

Options for `[GroupName]` are `rdf`, `scalefree`, `full`, `worstcase`, `sparse`, `memoryaliases`

### Integration with graph DBs

We provide a set of scripts to simplify data loading into some popular graph databases.

#### RedisGraph

The dataset can be loaded to RedisGraph with `tools/redis-rdf`, for example:

```
cd ./tools/redis-rdf
python3 main.py --port [PORT] dir ../../data/Matrices/Scal...
python3 main.py --port [PORT] file ../../data/Matrices/RDF...
```

This project is maintained by [JetBrains-Research](#)

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