

Rely on

python

- python ver 3.0 or newer version
- pandas
- networkx
- matplotlib

How to Install

Open your cmd terminal type cmd

```
pip3 install --user -i https://pypi.tuna.tsinghua.edu.cn/simple *packgename*
```

For example networkx

```
pip3 install --user -i https://pypi.tuna.tsinghua.edu.cn/simple networkx
```

R

Installation steps refer to Google

How to use

• First step

Extract all node info from rds file to a readable csv

run this cmd in your cmd terminal:

```
Rscript.exe rds_Process.R
```

will generate `Source_data.csv` file which will be used by python

• Second Step

```
python GenarteGraph.py
```

The script will process all node informations which get from `Source_data.csv` to generate Graph data frame saved as `after_process.csv` and draw net graph figure by networkx.

The Example Figure:

QuantCompare

