

Practical 2

Visualization (Cont'd)

Pajek File Format

Create file *test.net*

*vertices 4

1 a

2 b

3 c

4 d

*arcs

1 2

2 3

3 4

4 1

Viewing

- Open *test.net* with PAJEK
(Right click, Select from list, browse—make permanent for .net file type)
- Draw=>Draw (Main Menu)
- Options=>mark vertices using numbers
And notice the direction of arrows (Arcs)

Viewing

Use Testcol.net

Options for display

Use wtcOLOR.net

Display algorithms [2]

Layout => Kamada-kawai => Fix one in the middle

Z, Shift-Z (note SA, Asia, Europe)

=> Fruchterman Reingold => Factor (1, 2, 12, 0.5)

KK better for internal connectivity

FR better for multiple fanout and singletons

Viewing

- Moving

 - Transform fit XYZ

 - Grid

- Zoom in (Right-Click and drag

- Use TESTCOLnodesandlines.NET

- **Partitions**

 - Colouring partitions :

 - Net=>Partitions=>Core=>All

- SAVING Projects

Generating Graphs of Neighbourhoods

[http://www.dcs.napier.ac.uk/~cs171/
Roget2000/graphics/pajek.htm](http://www.dcs.napier.ac.uk/~cs171/Roget2000/graphics/pajek.htm)

other

- **Roget's 1911 Database**
<http://www.dcs.napier.ac.uk/~cs171/LJOld/FCA/>
- **Python files**
<http://www.dcs.napier.ac.uk/~cs171/Roget2000/graphics/python>
- **(WordAssoc databases)**

Pitfalls

moving files (changing directories/paths)

refreshing

fixing files

killing processes