

Setting up UCINET

See also:

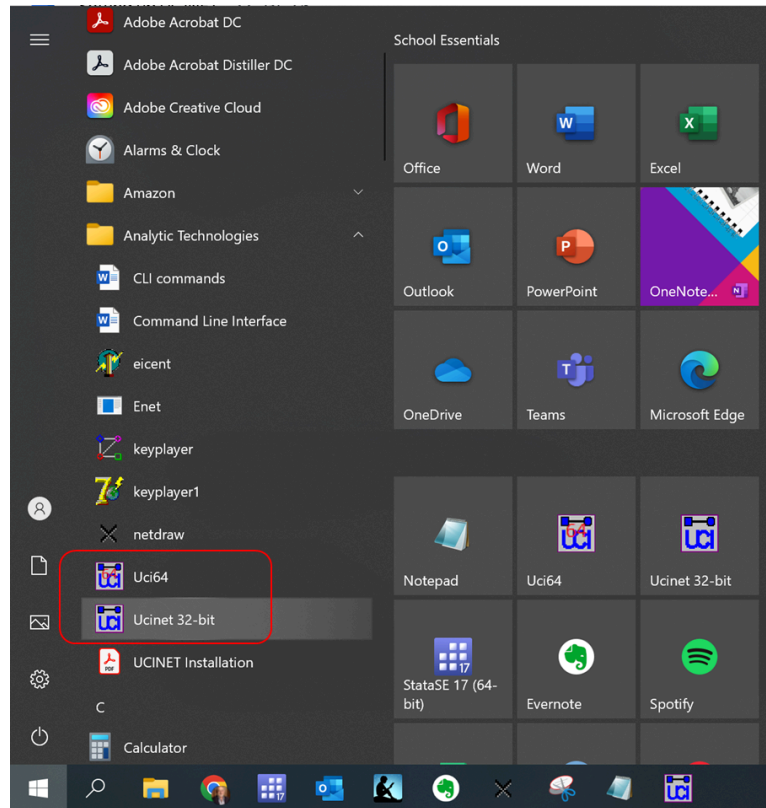
- [Downloading & installing UCINET](#)

Table of Contents

Starting it up	1
Working directory	2
Text editor	3
Using Notepad	6
Using Wordpad	8
Using Notepad++	10
Testing out the program	12
Displaying a dataset	12
Drawing a network	13
Learning UCINET	14

Starting it up

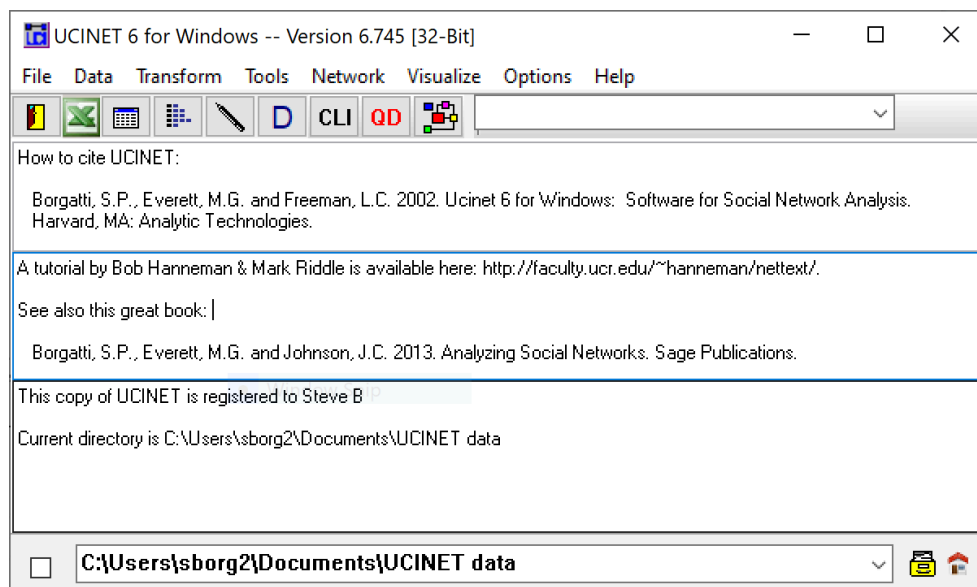
Once you have installed UCINET, you can go to the Windows Start menu and find the Analytic Technologies menu. You will find several programs will have been installed:



In particular, you will see ‘Uci64’ and ‘Ucinet 32-bit’. The 64-bit version is faster (particularly with large data), but there are some (older) routines that won’t run in that version. So, for smaller datasets (< 500 nodes) or for a classroom setting, it is better to use the 32-bit version.

Working directory

It is cumbersome to use UCINET if you don’t set up a project directory where you keep all of your UCINET datasets for a given project. This is set by entering a folder path name at the bottom of the UCINET screen:



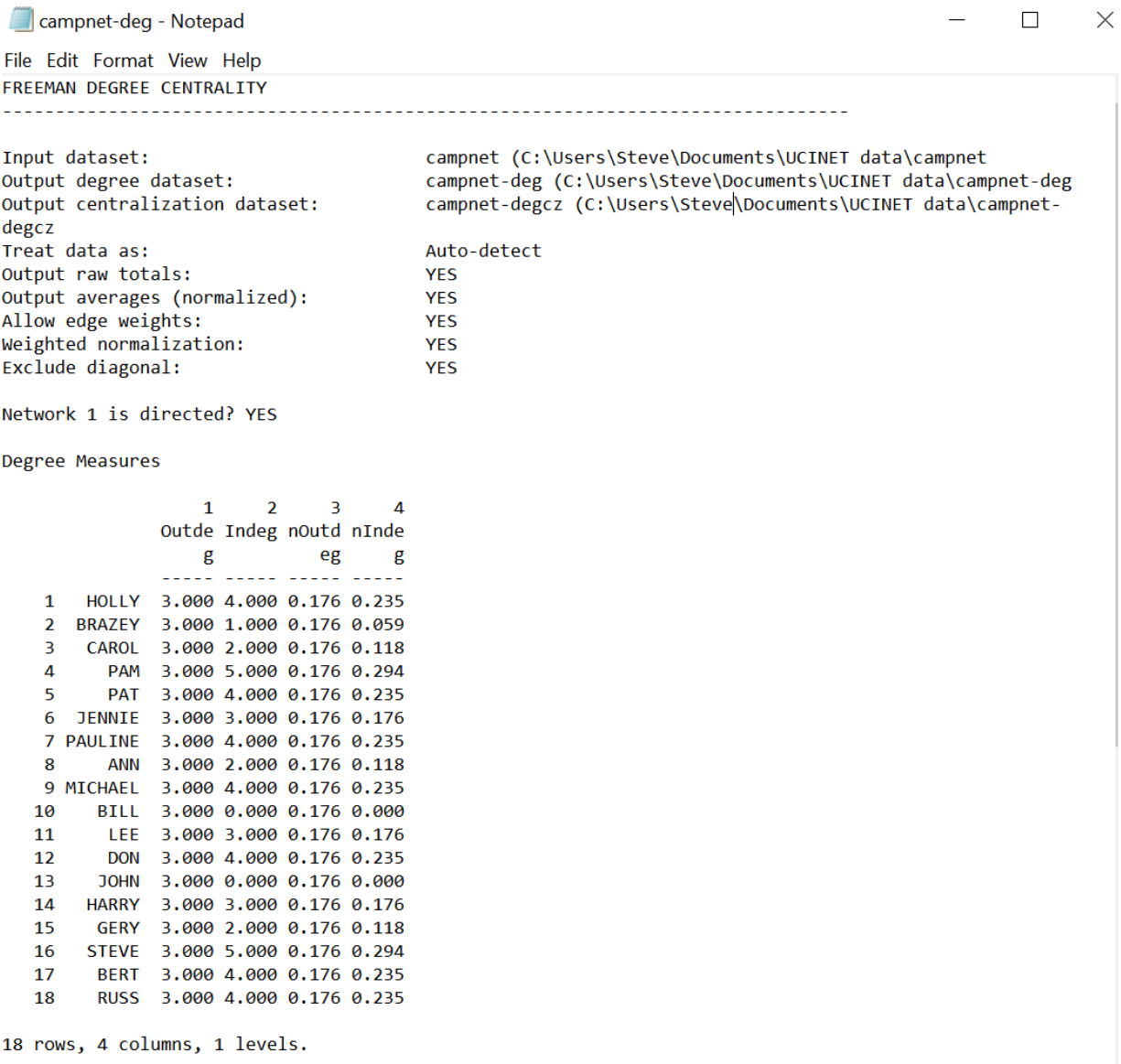
If you can't see the bottom of the window, make the window smaller and center it on your computer screen.

In this case, the working directory is a folder called 'UCINET data' that is automatically created under your Documents folder when you install UCINET. If you're taking a workshop or class, this is probably the folder you want to be in. If you don't see the right folder there (aside from the username 'sborg2'), press the *home* button at the bottom right of the screen (the icon looks like a house).

For more details, see [Setting the Working Directory](#)

Text editor

When you run an analysis in UCINET, it will typically produce some text output, like this:



```
campnet-deg - Notepad
File Edit Format View Help
FREEMAN DEGREE CENTRALITY
-----
Input dataset:          campnet (C:\Users\Steve\Documents\UCINET data\campnet
Output degree dataset:  campnet-deg (C:\Users\Steve\Documents\UCINET data\campnet-deg
Output centralization dataset: campnet-degcz (C:\Users\Steve\Documents\UCINET data\campnet-
degcz
Treat data as:          Auto-detect
Output raw totals:       YES
Output averages (normalized): YES
Allow edge weights:      YES
Weighted normalization: YES
Exclude diagonal:        YES

Network 1 is directed? YES

Degree Measures

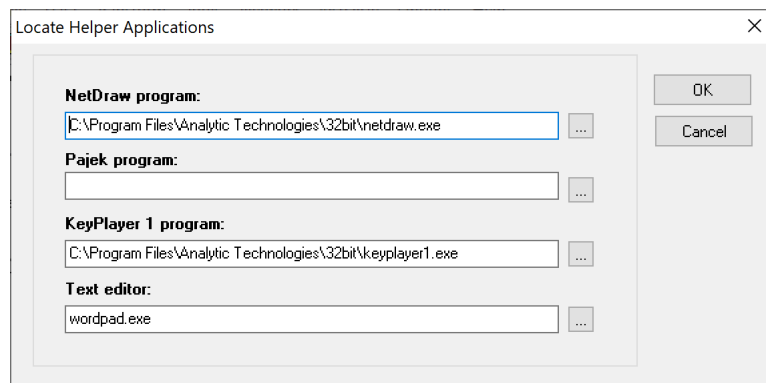
      1      2      3      4
      Outde Indeg nOutd nInde
      g      eg      g
-----
1  HOLLY  3.000 4.000 0.176 0.235
2  BRAZEY 3.000 1.000 0.176 0.059
3  CAROL  3.000 2.000 0.176 0.118
4  PAM    3.000 5.000 0.176 0.294
5  PAT    3.000 4.000 0.176 0.235
6  JENNIE 3.000 3.000 0.176 0.176
7  PAULINE 3.000 4.000 0.176 0.235
8  ANN    3.000 2.000 0.176 0.118
9  MICHAEL 3.000 4.000 0.176 0.235
10 BILL   3.000 0.000 0.176 0.000
11 LEE    3.000 3.000 0.176 0.176
12 DON    3.000 4.000 0.176 0.235
13 JOHN   3.000 0.000 0.176 0.000
14 HARRY  3.000 3.000 0.176 0.176
15 GERY   3.000 2.000 0.176 0.118
16 STEVE  3.000 5.000 0.176 0.294
17 BERT   3.000 4.000 0.176 0.235
18 RUSS   3.000 4.000 0.176 0.235

18 rows, 4 columns, 1 levels.
```

To show you this text output, UCINET requires a text editor, which is a separate program that UCINET works with. By default, UCINET uses Windows' built-in notepad.exe editor. Notepad has the advantage of being familiar to most Windows users but still requires setting a few options. It also has severe size limitations. Notepad can only display 1024 characters on a line. So, if you are displaying a large matrix, the lines will wrap around and it will be difficult to read the output. The best choice, at least in a research context, is to use the free program called

[Notepad++](#), which is really fast and powerful. However, you do have to download and install it, which may complicate things if you have a Mac. If you are just using UCINET in a class, it's probably not worth bothering to install Notepad++. More on this in a moment.

To tell UCINET which text editor you want to use, go to *Options|Helper Applications* in the menu. For example:



Under Text Editor, you enter “notepad.exe” if you want to use Notepad, or “wordpad.exe” if you want to use Wordpad (a built-in Windows app that is in the process of being discontinued), or “C:\Program Files\Notepad++\notepad++.exe” if you will be using Notepad++ (this assumes you have already downloaded and installed Notepad++. See below).

Next, a few notes on using Notepad, Wordpad and Notepad++ with UCINET.

Using Notepad

If you choose to use Notepad, you will need to do a couple of things to make it work well. Otherwise, your output might look like this:

```

Borgatti\Dropbox\data\ucinet data\campnet
Output degree dataset:                campnet-deg (C:\Users\Steve
Borgatti\Dropbox\data\ucinet data\campnet-deg
Output centralization dataset:        campnet-degcz (C:\Users\Steve
Borgatti\Dropbox\data\ucinet data\campnet-degcz
Treat data as:                        Auto-detect
Output raw totals:                    YES
Output averages (normalized):        YES
Allow edge weights:                  YES
Weighted normalization:              YES
Exclude diagonal:                    YES

```

Network 1 is directed? YES

Degree Measures

	1	2	3	4
	Outde	Indeg	nOutd	nInde
	g	eg	g	
	-----	-----	-----	-----
1 HOLLY	3.000	4.000	0.176	0.235
2 BRAZEY	3.000	1.000	0.176	0.059
3 CAROL	3.000	2.000	0.176	0.118
4 PAM	3.000	5.000	0.176	0.294
5 PAT	3.000	4.000	0.176	0.235
6 JENNIE	3.000	3.000	0.176	0.176
7 PAULINE	3.000	4.000	0.176	0.235
8 ANN	3.000	2.000	0.176	0.118

See how the columns of data don't line up? This is because it is not using a font in which all characters are the same size.

Step 1. In UCINET, click the Display button on the toolbar. It's the **D** button:



This will open a dialog window asking you to choose a file to display. Choose “campnet.###h”. You will then get something like this:

 The image is a screenshot of a Notepad window titled "*ucinetlog22.txt - Notepad". The menu bar includes File, Edit, Format, View, and Help. The text content starts with "DISPLAY" followed by a dashed line. Below this, it says "Input dataset: campnet (C:\Users\sborg2\Dropbox\data\ucinet data\campnet)". Then, there is a list of names and their corresponding binary data (0s and 1s) across 18 columns. The data is as follows:

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
HO BR CA PA PA JE PA AN MI BI LE DO JO HA GE ST BE RU																		
LL AZ RO M T NN UL N CH LL E N HN RR RY EV RT SS																		
Y EY L IE IN AE Y E																		
E L																		

1 HOLLY	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0
2 BRAZEY	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0
3 CAROL	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0
4 PAM	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0
5 PAT	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
6 JENNIE	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0

 The status bar at the bottom shows "Ln 6, Col 1", "100%", "Windows (CRLF)", and "UTF-16 LE".

Step 2. Click on “Format” and then choose “Font”. Then select either the “Consolas” font or “Courier New” (Consolas is better because it’s darker).

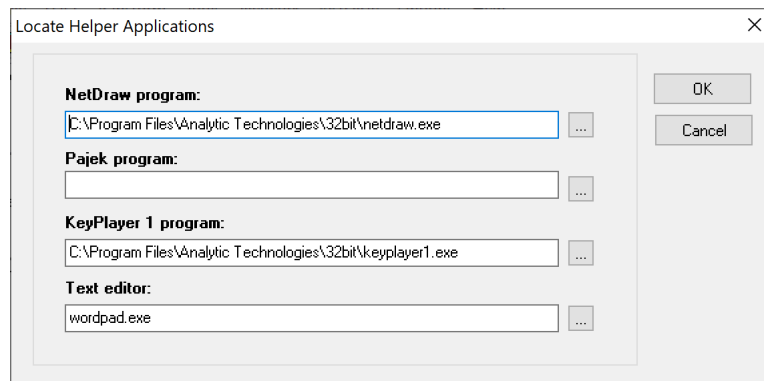
Step 3. While you are still in Notepad, choose Format again. If there is a check mark next to “Word Wrap”, click Word Wrap to remove the check mark. This turns off Word Wrap so that lines don’t wrap around. (But remember, if the lines are longer than 1024 characters, Notepad will wrap them anyway, which is why we prefer not to use Notepad.)

You should only have to set these options once. Notepad will remember your choices.

Using Wordpad

Wordpad can handle much larger datasets than notepad, but is unfortunately being discontinued by Microsoft.

Step 0. To tell UCINET that you want to use Wordpad as your text editor, go to *Options|Helper Applications* in the menu, and enter 'wordpad.exe' in the Text Editor field. Like this:



*Writing "write.exe" works as well.

Step 1. Wordpad looks a little different from Notepad, but we still want to do the same two things. Start by doing Step 1 as described in the *Using Notepad* section above. In other words, choose D on the toolbar:

In UCINET, click the Display button on the toolbar. It's the **D** button:



And select the “campnet.###h” dataset. It will display the matrix, but it might look messy, something like this:

```

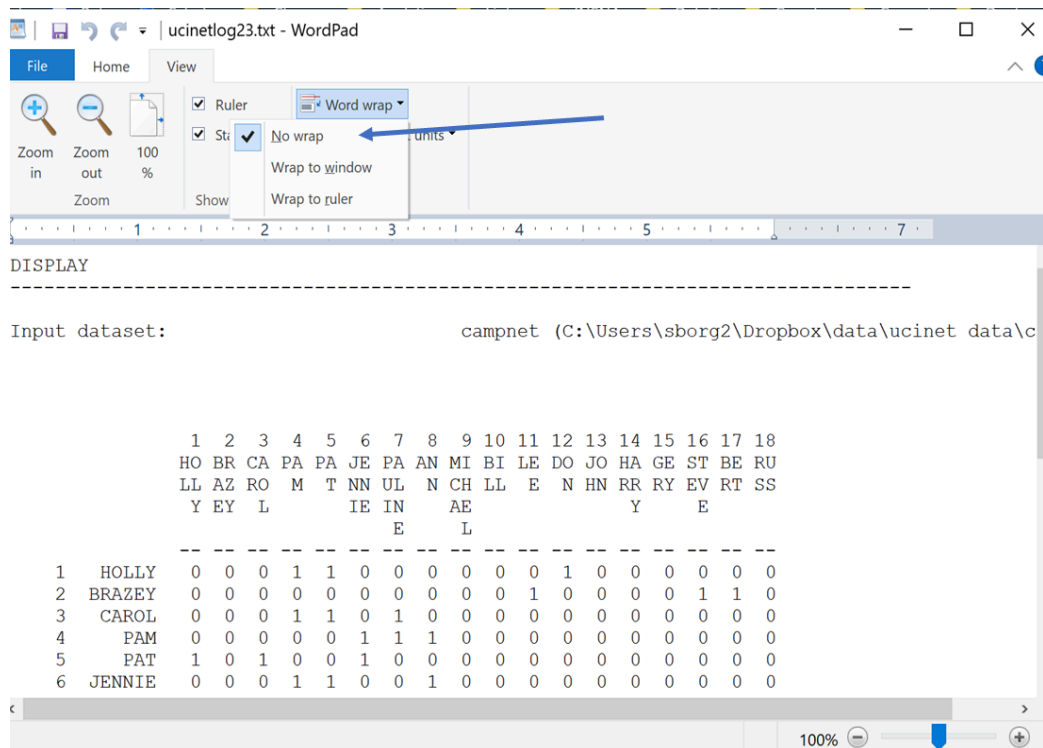
ucinetlog13.txt - WordPad
File Home View
Zoom in Zoom out Zoom 100%
Ruler Status bar Word wrap Measurement units
Show or hide Settings

DISPLAY
-----

Input dataset: campnet (C:\Users\sborg2
\Documents\UCINET data\campnet

18      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17
RU      HO BR CA PA PA JE PA AN MI BI LE DO JO HA GE ST BE
SS      LL AZ RO M  T NN UL N CH LL E  N HN RR RY EV RT
        Y EY L    IE IN AE      Y    E
        -- -- -- -- -- E L -- -- -- -- --
--      1  HOLLY 0 0 0 1 1 0 0 0 0 0 0 1 0 0 0 0 0
  
```

Step 2. Turn Word-wrapping off:



You should only have to do this once.

Using Notepad++

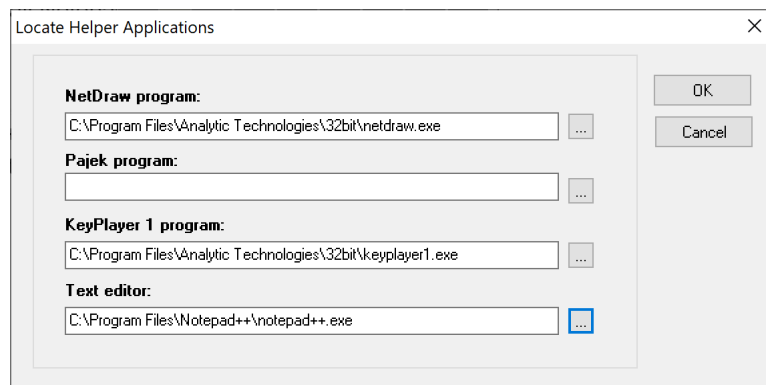
If you're using UCINET for research, we recommend Notepad++ or some other equally powerful text editor instead of either Notepad or Wordpad. Notepad++ is free on the web, but you do have to download and install it.

Step -1. Download and install Notepad++. You can get it here: <https://notepad-plus-plus.org/>. Important note. If you are using a Mac together with a Windows Emulator, you must download the Windows version of Notepad++ and install it in the Windows partition created by the emulator. If this all seems too much, just go with the Wordpad or Notepad options described above.

Step 0. Tell UCINET where to find notepad++.exe on your computer. Unless you deliberately installed it somewhere else, you should find it here:

C:\Program Files\Notepad++\notepad++.exe

So, in the UCINET menu, go to *Options|Helper Applications*, and enter the pathname in the Text Editor field. Like this:



Step 1. Test it by executing Step 1 from the *Using Notepad* section above. The results should look like this:

```

1  DISPLAY
2  -----
3
4  Input dataset:                                campnet (C:\Users\sborg2\Dropbox\data\ucinet_data\campnet)
5
6
7
8
9
10
11
12
13
14
15      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18
16      HO BR CA PA PA JE PA AN MI BI LE DO JO HA GE ST BE RU
17      LL AZ RO M  T NN UL N CH LL E  N HN RR RY EV RT SS
18      Y EY L      IE IN  AE  L
19
20      1  HOLLY  0 0 0 1 1 0 0 0 0 0 1 0 0 0 0 0 0
21      2  BRAZEY 0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 1 0
22      3  CAROL  0 0 0 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0
23      4  PAM    0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0
24      5  PAT    1 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
25      6  JENNIE 0 0 0 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0
26      7  PAULINE 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
27      8  ANN    0 0 0 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0
28      9  MICHAEL 1 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0
29      10 BILL   0 0 0 0 0 0 0 0 1 0 0 1 0 1 0 0 0 0
30      11 LEE    0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0
31      12 DON    1 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0
32      13 JOHN   0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 1
33      14 HARRY  1 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0
34      15 GERY   0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 0 1
35      16 STEVE  0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 1
36      17 BERT   0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 1
37      18 RUSS   0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 0

```

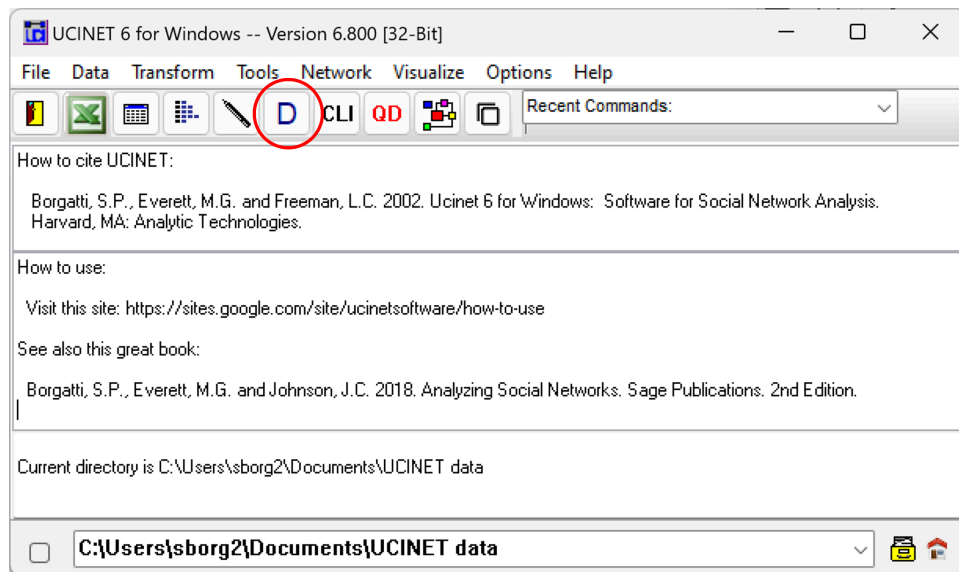
Normal text file length : 2,117 lines : 43 Ln : 1 Col : 1 Pos : 1 Windows (CR LF) UTF-16 LE BOM IN

There is no need to change the font or adjust a Word-wrap option. It does things right by default.

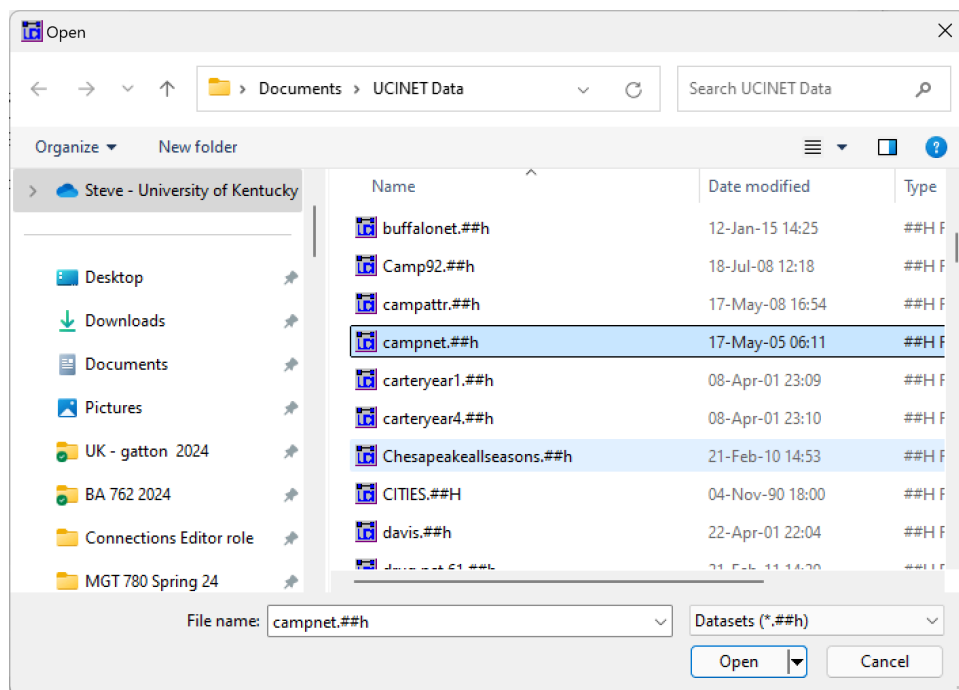
Testing out the program

Displaying a dataset

From the UCINET main window, press the D button on the toolbar:



This opens up a dialog box where you can pick a file. Scroll down and select the dataset called “campnet”.



Assuming you are using Notepad++, the result should look like this:

```

C:\Users\sborg2\AppData\Roaming\AnalyticTech\Ucinet\ucinetlog14.txt - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
ucinetlog4.txt ucinetlog5.txt ucinetlog6.txt ucinetlog13.txt matrix1990.dl ucinetlog14.txt
1 DISPLAY
2 -----
3
4 Input dataset:                                campnet (C:\Users\sborg2\Documents\UCINET Data\campnet
5
6
7
8
9
10
11      1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18
12      HO BR CA PA PA JE PA AN MI BI LE DO JO HA GE ST BE RU
13      LL AZ RO M  T NN UL N  CH LL E  N HN RR RY EV RT SS
14      Y EY L      IE IN  AE      Y      E
15
16      1  HOLLY      0 0 0 1 1 0 0 0 0 0 1 0 0 0 0 0 0
17      2  BRAZEY      0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 1 0
18      3  CAROL      0 0 0 1 1 0 1 0 0 0 0 0 0 0 0 0 0 0
19      4  PAM      0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0
20      5  PAT      1 0 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0
21      6  JENNIE      0 0 0 1 1 0 0 1 0 0 0 0 0 0 0 0 0 0
22      7  PAULINE      0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0
23      8  ANN      0 0 0 1 0 1 1 0 0 0 0 0 0 0 0 0 0 0
24      9  MICHAEL      1 0 0 0 0 0 0 0 0 0 1 0 1 0 0 0 0 0
25      10 BILL      0 0 0 0 0 0 0 0 1 0 0 1 0 1 0 0 0 0
26      11 LEE      0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0
27      12 DON      1 0 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0
28      13 JOHN      0 0 0 0 0 0 1 0 0 0 0 0 0 0 1 0 0 1
29      14 HARRY      1 0 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0
30      15 GERY      0 0 0 0 0 0 0 0 1 0 0 0 0 0 0 1 0 1
31      16 STEVE      0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 0 1 1
32      17 BERT      0 0 0 0 0 0 0 0 0 0 1 0 0 0 0 1 0 1
33      18 RUSS      0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 0
34
35 18 rows 18 columns 1 levels
Normal text file length: 2,114 lines: 43 Ln: 1 Col: 1 Pos: 1

```

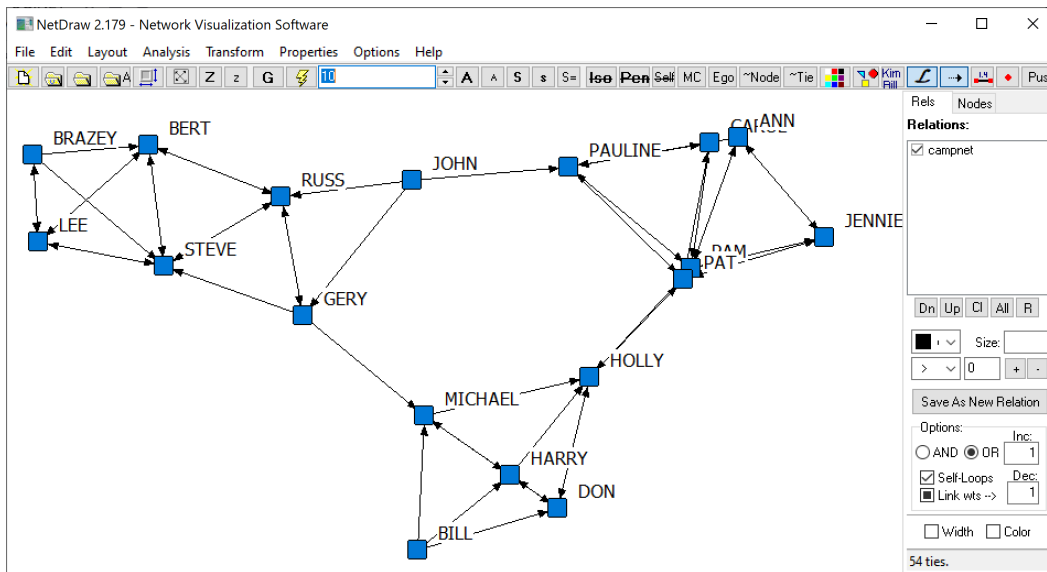
Drawing a network

UCINET uses another helper application, NetDraw, to visualize networks. NetDraw is automatically installed with UCINET, but we should make sure it is working.

In the UCINET window, click the red QD button on the toolbar:



It will ask you to choose a dataset to visualize. Select 'campnet.###h'. After you click OK, the NetDraw program should start and display the campnet network, like this:



Learning UCINET

Here are some resources for learning UCINET:

- [Tutorials](#) -- fairly wordy
- [Exercises](#) -- kind of terse
- [Quickstart guide](#) (a little dated)

See also the [How to Use](#) portal page.