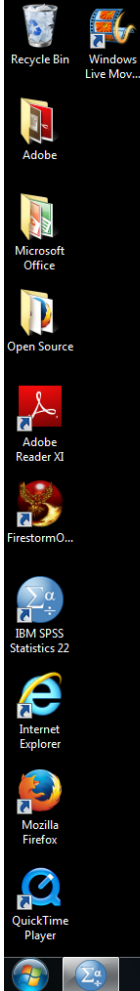




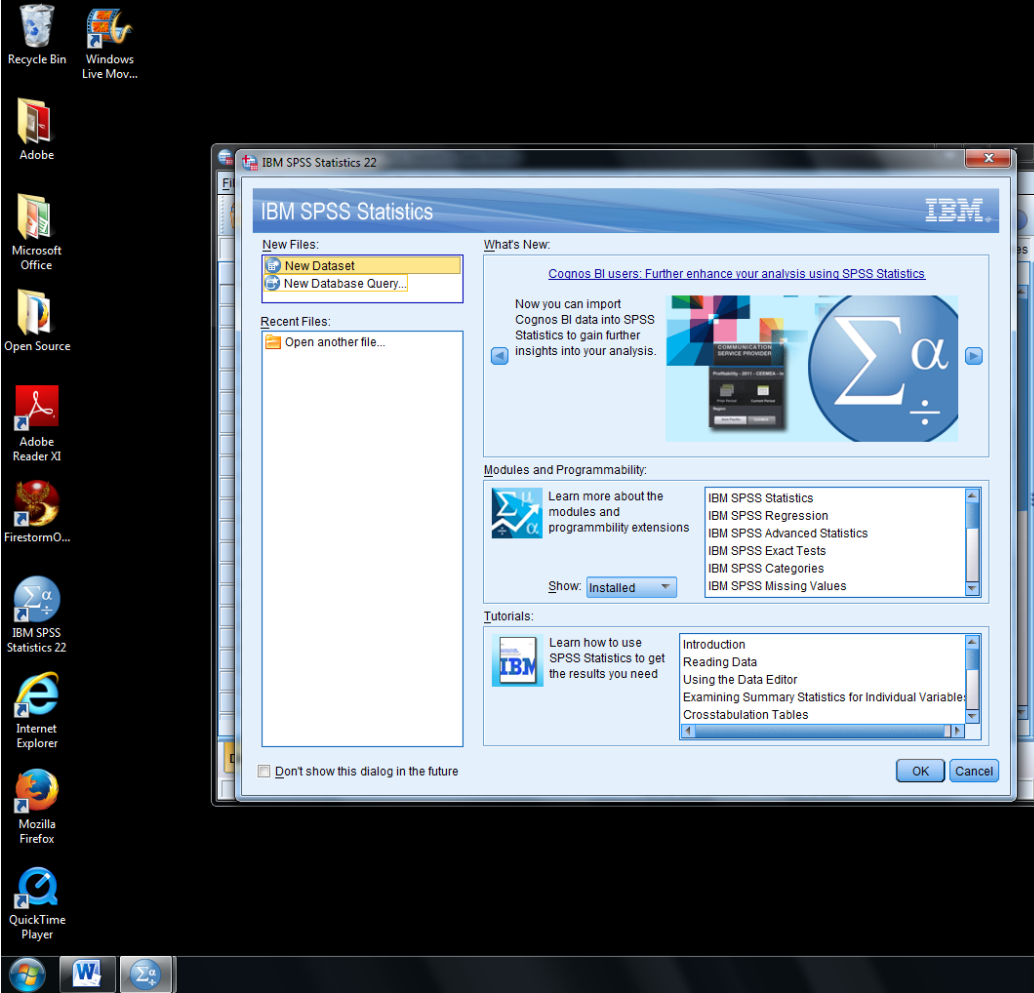
EDUC 500 2014 s12  
IBM SPSS 22 tutorial

Franc Feng & Stephen Petrina

## 1. Launch IBM SPSS 22



## 2. Create a new dataset



### 3. Select encoding

Recycle Bin Windows Live Mov... Adobe Microsoft Office Open Source FirestormO... IBM SPSS Statistics 22 Internet Explorer iTunes Mozilla Firefox QuickTime Player

Untitled1 [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

Visible: 0 of 0 Variables

Unicode Mode

This version of IBM SPSS Statistics starts in the Unicode character encoding. This affects string variables and other text. Previous versions started in the traditional encoding determined by your country and language (locale).

If you need to save data files that are compatible with releases prior to 16.0, switch to locale (code page) encoding.

When Statistics data files in the traditional encoding are opened in the Unicode encoding, the defined width of all string variables will be tripled.

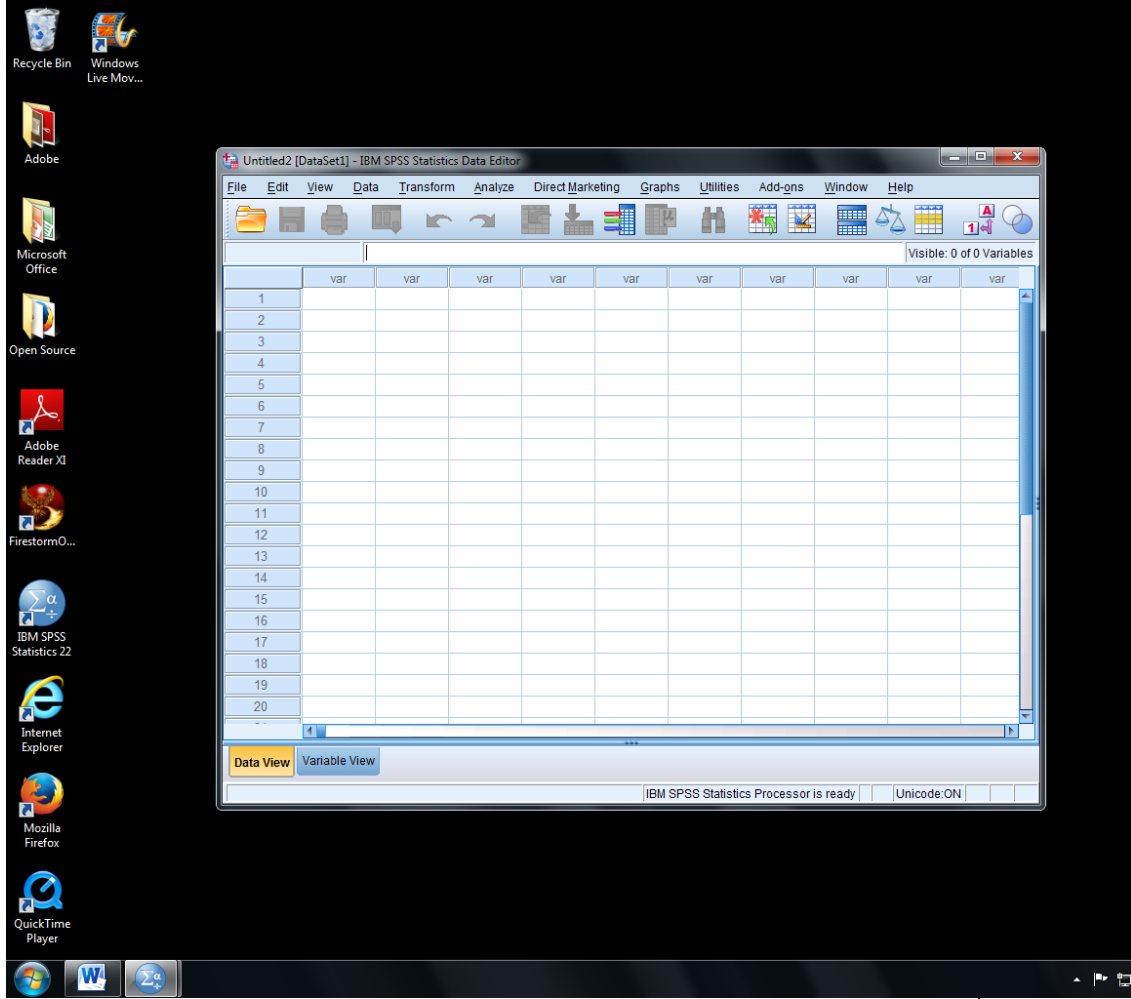
Use Unicode encoding Use locale encoding Help

Data View Variable View

IBM SPSS Statistics Processor is ready Unicode:ON

9:15 AM 2014-06-30

4. Launches in variable view



A) Part 1: Create the spss machine

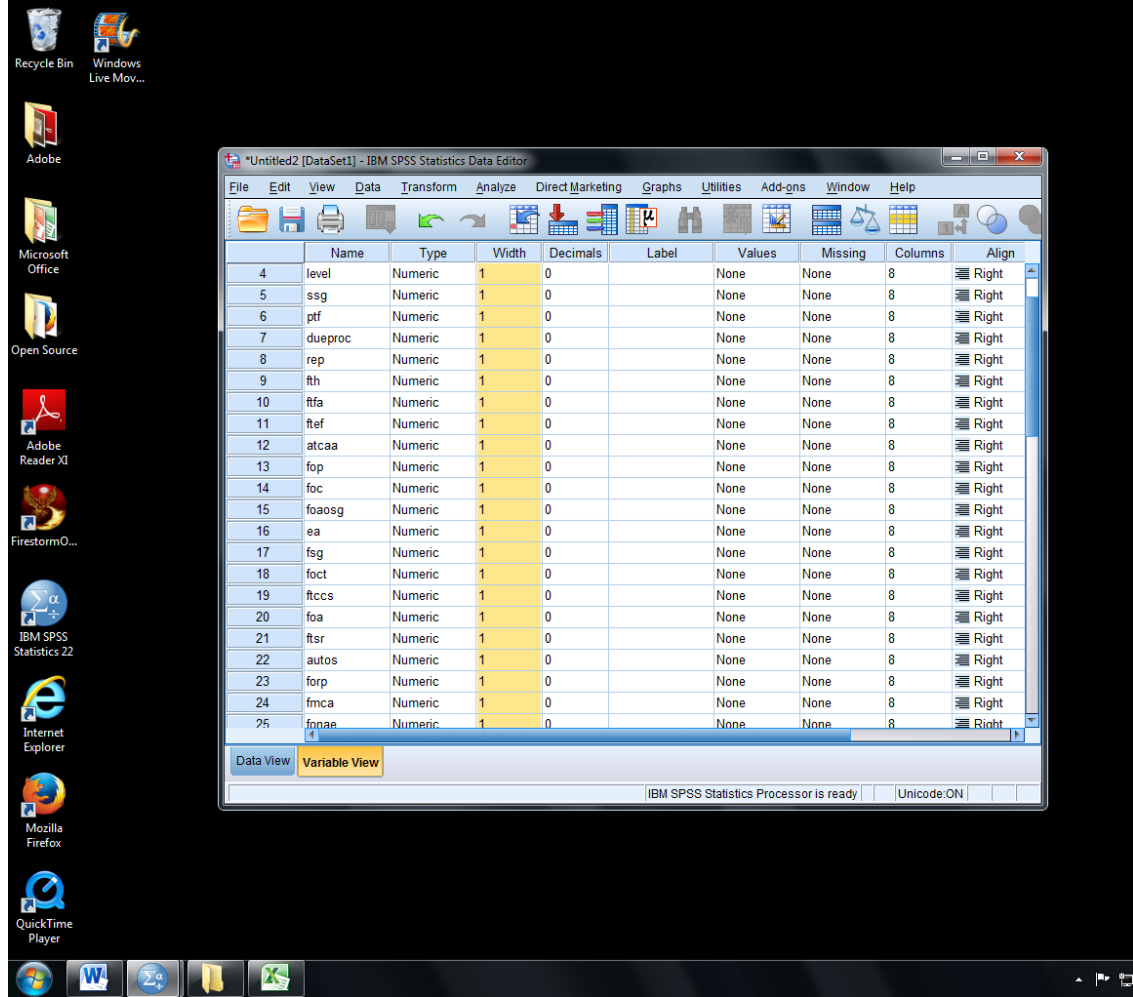
5. Switch to Variable tab (yellow), enter names for data fields

The screenshot shows a Windows desktop environment with the IBM SPSS Statistics 22 application open. The desktop background is black, and the taskbar at the bottom contains icons for the Start menu, Internet Explorer, Mozilla Firefox, QuickTime Player, and several open applications including Word, a calculator, and a file explorer. The SPSS window is titled "Untitled2 [DataSet1] - IBM SPSS Statistics Data Editor" and is in the "Variable View" tab, which is highlighted in yellow. The window displays a table of variable definitions with the following columns: Name, Type, Width, Decimals, Label, Values, Missing, Columns, and Align. The variables listed are:

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align
7	dueproc	Numeric	8	2		None	None	8	Right
8	rep	Numeric	8	2		None	None	8	Right
9	ftth	Numeric	8	2		None	None	8	Right
10	ftfa	Numeric	8	2		None	None	8	Right
11	ftfe	Numeric	8	2		None	None	8	Right
12	atcaa	Numeric	8	2		None	None	8	Right
13	fop	Numeric	8	2		None	None	8	Right
14	foc	Numeric	8	2		None	None	8	Right
15	foaosg	Numeric	8	2		None	None	8	Right
16	ea	Numeric	8	2		None	None	8	Right
17	fsg	Numeric	8	2		None	None	8	Right
18	foct	Numeric	8	2		None	None	8	Right
19	ftccs	Numeric	8	2		None	None	8	Right
20	foa	Numeric	8	2		None	None	8	Right
21	ftsr	Numeric	8	2		None	None	8	Right
22	autos	Numeric	8	2		None	None	8	Right
23	forp	Numeric	8	2		None	None	8	Right
24	fmca	Numeric	8	2		None	None	8	Right
25	fonae	Numeric	8	2		None	None	8	Right
26	mfsob	Numeric	8	2		None	None	8	Right
27	fipi	Numeric	8	2		None	None	8	Right
28									

The status bar at the bottom of the SPSS window indicates "IBM SPSS Statistics Processor is ready" and "Unicode: ON".

- 6. Type= Numeric
- 7. Width =1
- 8. Decimals=0



## 9. Enter labels

educ500-14s1-AFS.sav [DataSet1] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	M
1	gender	Numeric	1	0	gender	None	None	8	Right	Unkno
2	age	Numeric	1	0	age	None	None	8	Right	Unkno
3	identity	Numeric	1	0	identity	None	None	8	Right	Unkno
4	level	Numeric	1	0	level	None	None	8	Right	Unkno
5	ssg	Numeric	1	0	student self government	None	None	8	Right	Unkno
6	ptf	Numeric	1	0	petition	None	None	8	Right	Unkno
7	dueproc	Numeric	1	0	due process	None	None	8	Right	Unkno
8	rep	Numeric	1	0	representation	None	None	8	Right	Unkno
9	fth	Numeric	1	0	freedom to hear	None	None	8	Right	Unkno
10	ftfa	Numeric	1	0	freedom to form associations	None	None	8	Right	Unkno
11	ftf	Numeric	1	0	freedom to enjoy facilities	None	None	8	Right	Unkno
12	atcaa	Numeric	1	0	access to counsel and advice	None	None	8	Right	Unkno
13	fop	Numeric	1	0	freedom of press	None	None	8	Right	Unkno
14	foc	Numeric	1	0	freedom of criticism	None	None	8	Right	Unkno
15	foaosg	Numeric	1	0	freedom of activity on school grounds	None	None	8	Right	Unkno
16	ea	Numeric	1	0	equal access	None	None	8	Right	Unkno
17	fsg	Numeric	1	0	faculty self-government	None	None	8	Right	Unkno
18	foct	Numeric	1	0	freedom of criticism	None	None	8	Right	Unkno
19	ftccs	Numeric	1	0	freedom to criticize, create and supplement	None	None	8	Right	Unkno
20	foa	Numeric	1	0	freedom of association	None	None	8	Right	Unkno
21	ftsr	Numeric	1	0	freedom from special requirements	None	None	8	Right	Unkno
22	autos	Numeric	1	0	assurance of tenure and seniority	None	None	8	Right	Unkno
23	forp	Numeric	1	0	freedom of research and publication	None	None	8	Right	Unkno
24	fmca	Numeric	1	0	freedom to maintain citizen activities	None	None	8	Right	Unkno
25	fona	Numeric	1	0	freedom of non-academic employees	None	None	8	Right	Unkno
26	mfsob	Numeric	1	0	maintenance of free selection of books and magazines in library	None	None	8	Right	Unkno
27	fipi	Numeric	1	0	freedom in public insitutions from special influences	None	None	8	Right	Unkno
28										
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36										

Data View Variable View

IBM SPSS Statistics Processor is ready | Unicod

Completed thus far

\*educ500-14s1-AFS.sav [DataSet1] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	M
1	gender	Numeric	1	0	gender	None	None	8	Right	Orc
2	age	Numeric	1	0	age	None	None	8	Right	Sc
3	identity	Numeric	1	0	identity	None	None	8	Right	Orc
4	level	Numeric	1	0	level	None	None	8	Right	Orc
5	ssg	Numeric	1	0	student self government	None	None	8	Right	Orc
6	ptf	Numeric	1	0	petition	None	None	8	Right	Orc
7	dueproc	Numeric	1	0	due process	None	None	8	Right	Orc
8	rep	Numeric	1	0	representation	None	None	8	Right	Orc
9	fth	Numeric	1	0	freedom to hear	None	None	8	Right	Orc
10	fta	Numeric	1	0	freedom to form associations	None	None	8	Right	Orc
11	ftf	Numeric	1	0	freedom to enjoy facilities	None	None	8	Right	Orc
12	atcaa	Numeric	1	0	access to counsel and advice	None	None	8	Right	Orc
13	fop	Numeric	1	0	freedom of press	None	None	8	Right	Orc
14	foc	Numeric	1	0	freedom of criticism	None	None	8	Right	Orc
15	foaosg	Numeric	1	0	freedom of activity on school grounds	None	None	8	Right	Orc
16	ea	Numeric	1	0	equal access	None	None	8	Right	Orc
17	fsg	Numeric	1	0	faculty self-government	None	None	8	Right	Orc
18	foct	Numeric	1	0	freedom of criticism	None	None	8	Right	Orc
19	ftccs	Numeric	1	0	freedom to criticize, create and supplement	None	None	8	Right	Orc
20	foa	Numeric	1	0	freedom of association	None	None	8	Right	Orc
21	ftsr	Numeric	1	0	freedom from special requirements	None	None	8	Right	Orc
22	autos	Numeric	1	0	assurance of tenure and seniority	None	None	8	Right	Orc
23	forp	Numeric	1	0	freedom of research and publication	None	None	8	Right	Orc
24	fmca	Numeric	1	0	freedom to maintain citizen activities	None	None	8	Right	Orc
25	fona	Numeric	1	0	freedom of non-academic employees	None	None	8	Right	Orc
26	mfsob	Numeric	1	0	maintenance of free selection of books and magazines in library	None	None	8	Right	Orc
27	fipi	Numeric	1	0	freedom in public insitutions from special influences	None	None	8	Right	Orc
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Data View Variable View

IBM SPSS Statistics Processor is ready | Unicod



# Code Independent variables levels- gender

The screenshot shows the IBM SPSS Statistics Data Editor interface. The main window displays a list of variables in Variable View. A dialog box titled "Value Labels" is open, showing the configuration for the variable "gender".

Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align	M	
1	gender	Numeric	1	0	gender	None	None	8	Right	Orc
2	age	Numeric	1	0	age	None	None	8	Right	Sc
3	identity	Numeric	1	0	identity	None	None	8	Right	Orc
4	level	Numeric	1	0	level	None	None	8	Right	Orc
5	ssg	Numeric	1	0	student self government	None	None	8	Right	Orc
6	ptf	Numeric	1	0	petition	None	None	8	Right	Orc
7	dueproc	Numeric	1	0	due process	None	None	8	Right	Orc
8	rep	Numeric	1	0	representation	None	None	8	Right	Orc
9	fth	Numeric	1	0	freedom to hear	None	None	8	Right	Orc
10	ftfa	Numeric	1	0	freedom to form associations	None	None	8	Right	Orc
11	ftf	Numeric	1	0	freedom to enter facilities	None	None	8	Right	Orc
12	atcaa	Numeric	1	0	admission to tertiary education	None	None	8	Right	Orc
13	fop	Numeric	1	0	freedom of movement	None	None	8	Right	Orc
14	foc	Numeric	1	0	freedom of communication	None	None	8	Right	Orc
15	foaosg	Numeric	1	0	freedom of non-academic employees	None	None	8	Right	Orc
16	ea	Numeric	1	0	election	None	None	8	Right	Orc
17	fsg	Numeric	1	0	freedom of assembly	None	None	8	Right	Orc
18	foct	Numeric	1	0	freedom of occupation	None	None	8	Right	Orc
19	ftccs	Numeric	1	0	freedom of trade and commerce	None	None	8	Right	Orc
20	foa	Numeric	1	0	freedom of association	None	None	8	Right	Orc
21	ftsr	Numeric	1	0	freedom of trade and commerce	None	None	8	Right	Orc
22	autos	Numeric	1	0	assembly	None	None	8	Right	Orc
23	forp	Numeric	1	0	freedom of religion	None	None	8	Right	Orc
24	fmca	Numeric	1	0	freedom of movement	None	None	8	Right	Orc
25	fona	Numeric	1	0	freedom of non-academic employees	None	None	8	Right	Orc
26	mfsob	Numeric	1	0	maintenance of free selection of books and magazines in library	None	None	8	Right	Orc
27	fipi	Numeric	1	0	freedom in public institutions from special influences	None	None	8	Right	Orc
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The "Value Labels" dialog box is open, showing the configuration for the variable "gender". The "Value" field contains "1" and the "Label" field contains "female". The dialog box has buttons for "Add", "Change", "Remove", "Spelling...", "OK", "Cancel", and "Help".

Add IV levels, coding levels for age

\*educ500-14s1-AFS.sav [DataSet1] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align
1	gender	Numeric	1	0	gender	{1, female}...	None	8	Right
2	age	Numeric	1	0	age	{1, to 29 years}...	None	8	Right
3	identity	Numeric	1	0	identity	None	None	8	Right
4	level	Numeric	1	0	level	None	None	8	Right
5	ssg	Numeric	1	0	student self government	None	None	8	Right
6	ptf	Numeric	1	0	petition	None	None	8	Right
7	dueproc	Numeric	1	0	due process	None	None	8	Right
8	rep	Numeric	1	0	representation	None	None	8	Right
9	fth	Numeric	1	0	freedom to hear	None	None	8	Right
10	fta	Numeric	1	0	freedom to form associations	None	None	8	Right
11	ftf	Numeric	1	0	freedom to enjoy facilities	None	None	8	Right
12	atcaa	Numeric	1	0	access to counsel and advice	None	None	8	Right
13	fop	Numeric	1	0	freedom of press	None	None	8	Right
14	foc	Numeric	1	0	freedom of criticism	None	None	8	Right
15	foaosg	Numeric	1	0	freedom of activity on school grounds	None	None	8	Right
16	ea	Numeric	1	0	equal access	None	None	8	Right
17	fsg	Numeric	1	0	faculty self-government	None	None	8	Right
18	foct	Numeric	1	0	freedom of criticism	None	None	8	Right
19	ftccs	Numeric	1	0	freedom to criticize, create and supplement	None	None	8	Right
20	foa	Numeric	1	0	freedom of association	None	None	8	Right
21	ftsr	Numeric	1	0	freedom from special requirements	None	None	8	Right
22	autos	Numeric	1	0	assurance of tenure and seniority	None	None	8	Right
23	forp	Numeric	1	0	freedom of research and publication	None	None	8	Right
24	fmca	Numeric	1	0	freedom to maintain citizen activities	None	None	8	Right
25	fona	Numeric	1	0	freedom of non-academic employees	None	None	8	Right
26	mfsob	Numeric	1	0	maintenance of free selection of books and magazines in library	None	None	8	Right
27	fipi	Numeric	1	0	freedom in public insitutions from special influences	None	None	8	Right
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Data View Variable View

IBM SPSS Statistics Processor is ready | Unicod



# Add IV coding for levels

\*educ500-14-1-AFS.sav [DataSet1] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align
1	gender	Numeric	1	0	gender	{1, female}...	None	8	Right
2	age	Numeric	1	0	age	{1, to 29 years}...	None	8	Right
3	identity	Numeric	1	0	identity	{1, administrator}...	None	8	Right
4	level	Numeric	1	0	level	None	None	8	Right
5	ssg	Numeric	1	0	student self government	None	None	8	Right
6	ptf	Numeric	1	0	petition	None	None	8	Right
7	dueproc	Numeric	1	0	due process	None	None	8	Right
8	rep	Numeric	1	0	representation	None	None	8	Right
9	fth	Numeric	1	0	freedom to hear	None	None	8	Right
10	ftfa	Numeric	1	0	freedom to form associations	None	None	8	Right
11	ftf	Numeric	1	0	freedom to enter facilities	None	None	8	Right
12	atcaa	Numeric	1	0	admission to tertiary institutions	None	None	8	Right
13	fop	Numeric	1	0	freedom of profession	None	None	8	Right
14	foc	Numeric	1	0	freedom of communication	None	None	8	Right
15	foaosg	Numeric	1	0	freedom of access to occupational self government	None	None	8	Right
16	ea	Numeric	1	0	education	None	None	8	Right
17	fsg	Numeric	1	0	freedom of science	None	None	8	Right
18	foct	Numeric	1	0	freedom of occupational tertiary institutions	None	None	8	Right
19	ftccs	Numeric	1	0	freedom to choose careers	None	None	8	Right
20	foa	Numeric	1	0	freedom of access to occupational tertiary institutions	None	None	8	Right
21	ftsr	Numeric	1	0	freedom to select tertiary institutions	None	None	8	Right
22	autos	Numeric	1	0	access to occupational tertiary institutions	None	None	8	Right
23	forp	Numeric	1	0	freedom of occupational tertiary institutions	None	None	8	Right
24	fmca	Numeric	1	0	freedom of non-academic employees	None	None	8	Right
25	fona	Numeric	1	0	freedom of non-academic employees	None	None	8	Right
26	mfsob	Numeric	1	0	maintenance of free selection of books and magazines in library	None	None	8	Right
27	fipi	Numeric	1	0	freedom in public institutions from special influences	None	None	8	Right
28									
29									
30									
31									
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33									
34									
35									
36									

Value Labels

Value:

Label:

1 = "pre or elementary"  
 2 = "middle"  
 3 = "secondary"  
 4 = "post-secondary"  
 5 = "community"  
 6 = "other"

Add Change Remove

Spelling...

OK Cancel Help

Data View Variable View

IBM SPSS Statistics Processor is ready | Unicod



Copy and paste 3 levels to all DVs- when finished, database should look something like this

\*educ500-14s1-AFS.sav [DataSet1] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Window Help

	Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align
1	gender	Numeric	1	0	gender	{1, female}...	None	8	Right
2	age	Numeric	1	0	age	{1, to 29 years}...	None	8	Right
3	identity	Numeric	1	0	identity	{1, administrator}...	None	8	Right
4	level	Numeric	1	0	level	{1, pre or element...	None	8	Right
5	ssg	Numeric	1	0	student self government	{1, very little or no...	None	8	Right
6	ptf	Numeric	1	0	petition	{1, very little or no...	None	8	Right
7	dueproc	Numeric	1	0	due process	{1, very little or no...	None	8	Right
8	rep	Numeric	1	0	representation	{1, very little or no...	None	8	Right
9	fth	Numeric	1	0	freedom to hear	{1, very little or no...	None	8	Right
10	ftfa	Numeric	1	0	freedom to form associations	{1, very little or no...	None	8	Right
11	ftf	Numeric	1	0	freedom to enjoy facilities	{1, very little or no...	None	8	Right
12	atcaa	Numeric	1	0	access to counsel and advice	{1, very little or no...	None	8	Right
13	fop	Numeric	1	0	freedom of press	{1, very little or no...	None	8	Right
14	foc	Numeric	1	0	freedom of criticism	{1, very little or no...	None	8	Right
15	foaosg	Numeric	1	0	freedom of activity on school grounds	{1, very little or no...	None	8	Right
16	ea	Numeric	1	0	equal access	{1, very little or no...	None	8	Right
17	fsg	Numeric	1	0	faculty self-government	{1, very little or no...	None	8	Right
18	foct	Numeric	1	0	freedom of criticism	{1, very little or no...	None	8	Right
19	ftccs	Numeric	1	0	freedom to criticize, create and supplement	{1, very little or no...	None	8	Right
20	foa	Numeric	1	0	freedom of association	{1, very little or no...	None	8	Right
21	ftsr	Numeric	1	0	freedom from special requirements	{1, very little or no...	None	8	Right
22	autos	Numeric	1	0	assurance of tenure and seniority	{1, very little or no...	None	8	Right
23	forp	Numeric	1	0	freedom of research and publication	{1, very little or no...	None	8	Right
24	fmca	Numeric	1	0	freedom to maintain citizen activities	{1, very little or no...	None	8	Right
25	fona	Numeric	1	0	freedom of non-academic employees	{1, very little or no...	None	8	Right
26	mfsob	Numeric	1	0	maintenance of free selection of books and magazines in library	{1, very little or no...	None	8	Right
27	fipi	Numeric	1	0	freedom in public insitutions from special influences	{1, very little or no...	None	8	Right
28									
29									
30									
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32									
33									
34									
35									
36									

Data View Variable View

IBM SPSS Statistics Processor is ready | Unicoc

Having A) created engine to accept data, save work

Ready for data entry- Input data exported from survey tool

Set *Measure* column to Ordinal (same as "rank")- not shown, as column to right of the image

The screenshot displays the IBM SPSS Statistics Data Editor interface. The main window shows a list of 27 variables in the Variable View. The variables are:

Name	Type	Width	Decimals	Label	Values	Missing	Columns	Align
1 gender	Numeric	1	0	gender	{1, female}...	None	8	Right
2 age	Numeric	1	0	age	{1, to 29 years}...	None	8	Right
3 identity	Numeric	1	0	identity	{1, administrator}...	None	8	Right
4 level	Numeric	1	0	level	{1, pre or element...	None	8	Right
5 ssg	Numeric	1	0	student self government	{1, very little or no...	None	8	Right
6 ptf	Numeric	1	0	petition	{1, very little or no...	None	8	Right
7 dueproc	Numeric	1	0	due process	{1, very little or no...	None	8	Right
8 rep	Numeric	1	0				8	Right
9 fth	Numeric	1	0				8	Right
10 fta	Numeric	1	0				8	Right
11 ftef	Numeric	1	0				8	Right
12 atcaa	Numeric	1	0				8	Right
13 fop	Numeric	1	0				8	Right
14 foc	Numeric	1	0				8	Right
15 foaosg	Numeric	1	0				8	Right
16 ea	Numeric	1	0				8	Right
17 fsg	Numeric	1	0				8	Right
18 foct	Numeric	1	0				8	Right
19 ftccs	Numeric	1	0				8	Right
20 foa	Numeric	1	0				8	Right
21 ftsr	Numeric	1	0				8	Right
22 autos	Numeric	1	0				8	Right
23 forp	Numeric	1	0				8	Right
24 fmca	Numeric	1	0				8	Right
25 fona	Numeric	1	0				8	Right
26 mfsob	Numeric	1	0				8	Right
27 fipi	Numeric	1	0				8	Right

A 'Save Data As' dialog box is open, showing the file name 'educ500-14s1-AFS.sav' and the save type 'SPSS Statistics (\*.sav)'. The dialog also includes options for encoding (Unicode (UTF-8)) and checkboxes for 'Write variable names to spreadsheet', 'Save value labels where defined instead of data values', 'Save value labels into a .sas file', and 'Encrypt file with password'. The 'Store File To Repository...' button is visible at the bottom of the dialog.





C) *Generating reports*  
for descriptive stats with  
frequencies

The screenshot shows the IBM SPSS Statistics Data Editor interface. The 'Analyze' menu is open, and the 'Frequencies...' option is selected. The data table below shows the following variables and their values for rows 1 through 35:

	gender	age	proc	rep	fth	ftfa	ftef	atcaa	fop
1	2	10	3	2	1	1	2	3	1
2	1	7	3	3	3	2	2	3	2
3	2	6	2	2	2	2	2	2	2
4	1	4	3	2	2	2	2	2	2
5	1	5	3	3	3	2	2	3	3
6	1	3	1	3	2	2	1	3	2
7	1	3	2	3	2	3	3	3	2
8	1	4	2	3	2	2	1	3	2
9	1	3	3	3	3	3	3	3	3
10	1	6	3	2	3	3	2	1	3
11	1	3	2	3	1	3	2	1	3
12	1	2	2	2	1	2	2	3	3
13	1	9	3	3	3	1	3	2	3
14	1	7	2	2	2	2	2	2	2
15	2	5	1	3	2	2	2	2	3
16	1	5	2	1	2	3	2	1	2
17	2	2	3	3	3	2	3	2	3
18	2	3	3	3	3	3	3	3	3
19									
20									
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22									
23									
24									
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27									
28									
29									
30									
31									
32									
33									
34									
35									

The 'Frequencies...' dialog box is open, showing options for 'Display' (Counts, Percentages, Percent of Total) and 'Format' (Sorted, Unsorted). The 'Data View' tab is active at the bottom.

Select for generating frequencies

The screenshot displays the IBM SPSS Statistics Data Editor interface. The main window shows a data table with 35 rows and 14 columns. The columns are labeled: gender, age, identity, level, ssg, ptf, dueproc, rep, fth, ftfa, ftef, atcaa, and fop. The data values are as follows:

	gender	age	identity	level	ssg	ptf	dueproc	rep	fth	ftfa	ftef	atcaa	fop
1	2	10	7	3	1	2	3	2	1	1	2	3	1
2	1	7	7	3	3	3	3	3	3	2	2	3	2
3	2	6	2	4	2	2	2	2	2	2	2	2	2
4	1	4	6	3	2	2	3	2	2	2	2	2	2
5	1	5	6	1	2	2	3	3	3	2	2	3	3
6	1	3	6	1	2	2	1	3	2	2	1	3	2
7	1	3	6	1	2	2	3	2	3	2	3	3	2
8	1	4	7	3	2	2	3	2	2	2	1	3	2
9	1	3	6	3	3	3	3	3	3	3	3	3	3
10	1	6	3	2	2	2	2	2	2	2	1	3	3
11	1	3	6	2	2	2	2	2	2	2	1	3	2
12	1	2	7	2	2	2	2	2	2	2	3	3	3
13	1	9	6	2	2	2	2	2	2	2	2	3	3
14	1	7	2	3	2	2	2	2	2	2	2	2	2
15	2	5	6	3	2	2	2	2	2	2	2	3	2
16	1	5	6	3	2	2	2	2	2	2	1	3	1
17	2	2	7	4	2	2	2	2	2	2	3	2	3
18	2	3	6	2	2	2	2	2	2	2	3	3	3
19													
20													
21													
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24													
25													
26													
27													
28													
29													
30													
31													
32													
33													
34													
35													

The 'Frequencies' dialog box is open, showing a list of variables on the left and an empty 'Variable(s):' box on the right. The variables listed are: gender [gender], age [age], identity [identity], level [level], student self gove..., petition [ptf], due process [due...], representation [r...], and freedom to hear if... The 'Display frequency tables' checkbox is checked. Buttons for 'OK', 'Paste', 'Reset', 'Cancel', 'Help', 'Statistics...', 'Charts...', 'Format...', 'Style...', and 'Bootstrap...' are visible.





Select details for frequency report

The screenshot shows the IBM SPSS Statistics Data Editor interface. The main window displays a data table with columns: gender, age, identity, level, ssg, ptf, dueproc, rep, fth, fta, ftef, atcaa, fop. The data rows are numbered 1 through 35. A dialog box titled 'Frequencies: Statistics' is open in the foreground, allowing configuration of the frequency report. The dialog includes sections for Percentile Values, Central Tendency, Dispersion, and Distribution.

**Percentile Values**

- Quartiles
- Cut points for: 10 equal groups
- Percentile(s):
- Buttons: Add, Change, Remove

**Central Tendency**

- Mean
- Median
- Mode
- Sum

Values are group midpoints

**Dispersion**

- Std. deviation
- Variance
- Range
- Minimum
- Maximum
- S.E. mean

**Distribution**

- Skewness
- Kurtosis

Buttons: Continue, Cancel, Help



Report generated

Opens new output window showing code and results

The screenshot displays the IBM SPSS Statistics Data Editor interface. The main window shows a data table with columns: gender, age, identity, level, ssg, ptf, dueproc, rep, fth, ftfa, ftef, atcaa, fop. The data rows are numbered 1 through 35. An output window titled '\*Output1 [Document] - IBM SPSS Statistics Viewer' is open, showing the 'Frequencies' report for the dataset 'E:\educ500-14s spss support\1007\educ500-14s1-AFS.sav'. The report includes a table with columns for gender, age, identity, level, student self government, and petition, and rows for N (Valid, Missing), Mean, Median, Mode, Std. Deviation, Variance, Skewness, Std. Error of Skewness, Kurtosis, Std. Error of Kurtosis, Range, Minimum, and Maximum. A yellow tooltip 'Double-click to activate' is visible over the 'Std. Error of Skewness' row. The bottom status bar indicates 'IBM SPSS Statistics Processor is ready' and 'Unicode: ON'.

	gender	age	identity	level	student self government	petition
N Valid	18	18	18	18	18	18
N Missing	0	0	0	0	0	0
Mean	1.28	4.83	5.67	2.33	2.22	2.22
Median	1.28 <sup>a</sup>	4.40 <sup>a</sup>	6.13 <sup>a</sup>	2.38 <sup>a</sup>	2.25 <sup>a</sup>	2.25 <sup>a</sup>
Mode	1	3	6	3	2	2
Std. Deviation	.461	2.307	1.609	1.138	.647	.647
Variance	.212	5.324	2.588	1.294	.418	.418
Skewness	.085	.842	-1.674	-.210	-.230	-.230
Std. Error of Skewness	.536	.536	.536	.536	.536	.536
Kurtosis	-.942	.079	1.743	-1.644	-.411	-.411
Std. Error of Kurtosis	1.038	1.038	1.038	1.038	1.038	1.038
Range	1	8	5	3	2	2
Minimum	1	2	2	1	1	1
Maximum	2	10	7	4	3	3

Expand to full screen

\*Output1 [Document1] - IBM SPSS Statistics Viewer

File Edit View Data Transform Insert Format Analyze Direct Marketing Graphs Utilities Add-ons Window Help

Output

- Log
- Frequencies
  - Title
  - Notes
  - Active Dataset
  - Statistics
  - Frequency Table
    - Title
    - gender
    - age
    - identity
    - level
    - student self g
    - petition
    - due process
    - representatio
    - freedom to ht
    - freedom to er
    - access to col
    - freedom of pr
    - freedom of ac
    - equal access
    - faculty self-gc
    - freedom of cr
    - freedom to cr
    - freedom of as
    - freedom from
    - assurance of
    - freedom to re
    - freedom to m
    - freedom of nc
    - maintenance
    - freedom in pu

**Frequencies**

[DataSet1] E:\educ500-14s spss support\1007\educ500-14s1-AFS.sav

		gender	age	identity	level	student self government	petition	due process	representatio n	freedom to hear	freedom form associatic
N	Valid	18	18	18	18	18	18	18	18	18	
	Missing	0	0	0	0	0	0	0	0	0	
Mean		1.28	4.83	5.67	2.33	2.22	2.22	2.56	2.50	2.28	
Median		1.28 <sup>a</sup>	4.40 <sup>a</sup>	6.13 <sup>a</sup>	2.38 <sup>a</sup>	2.25 <sup>a</sup>	2.25 <sup>a</sup>	2.63 <sup>a</sup>	2.53 <sup>a</sup>	2.31 <sup>a</sup>	
Mode		1	3	6	3	2	2	3	3	2	
Std. Deviation		.461	2.307	1.609	1.138	.647	.647	.705	.618	.669	
Variance		.212	5.324	2.588	1.294	.418	.418	.497	.382	.448	
Skewness		1.085	.842	-1.674	-.210	-.230	-.230	-1.354	-.840	-.382	
Std. Error of Skewness		.536	.536	.536	.536	.536	.536	.536	.536	.536	
Kurtosis		-.942	.079	1.743	-1.644	-.411	-.411	.654	-.101	-.564	
Std. Error of Kurtosis		1.038	1.038	1.038	1.038	1.038	1.038	1.038	1.038	1.038	
Range		1	8	5	3	2	2	2	2	2	
Minimum		1	2	2	1	1	1	1	1	1	
Maximum		2	10	7	4	3	3	3	3	3	

a. Calculated from grouped data.  
b. Multiple modes exist. The smallest value is shown

**Frequency Table**

**gender**

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid female	13	72.2	72.2	72.2
male	5	27.8	27.8	100.0
Total	18	100.0	100.0	

**age**

	Frequency	Percent	Valid Percent	Cumulative
1	1	5.6	5.6	5.6
2	2	11.1	11.1	16.7
3	3	16.7	16.7	33.3
4	4	22.2	22.2	55.6
5	5	27.8	27.8	83.3
6	6	33.3	33.3	100.0
7	7	38.9	38.9	100.0
8	8	44.4	44.4	100.0
9	9	50.0	50.0	100.0
10	10	55.6	55.6	100.0

IBM SPSS Statistics Processor is ready



# Add histogram

The screenshot shows the IBM SPSS Statistics Viewer interface. The left pane displays a tree view of the output, including 'Frequencies' and 'Frequency Table'. The main window contains several frequency tables and a dialog box for adding a histogram.

**Table 1: Frequency Table 1**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	as a general rule	8	44.4	47.1	52.9
	complete	8	44.4	47.1	100.0
	Total	17	94.4	100.0	
Missing	System	1	5.6		
	Total	18	100.0		

**Table 2: Frequency Table 2 (freedom to maintain citizen activities)**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	as a general rule	8	44.4	44.4	44.4
	complete				
	Total				

**Table 3: Frequency Table 3 (maintenance of freedom)**

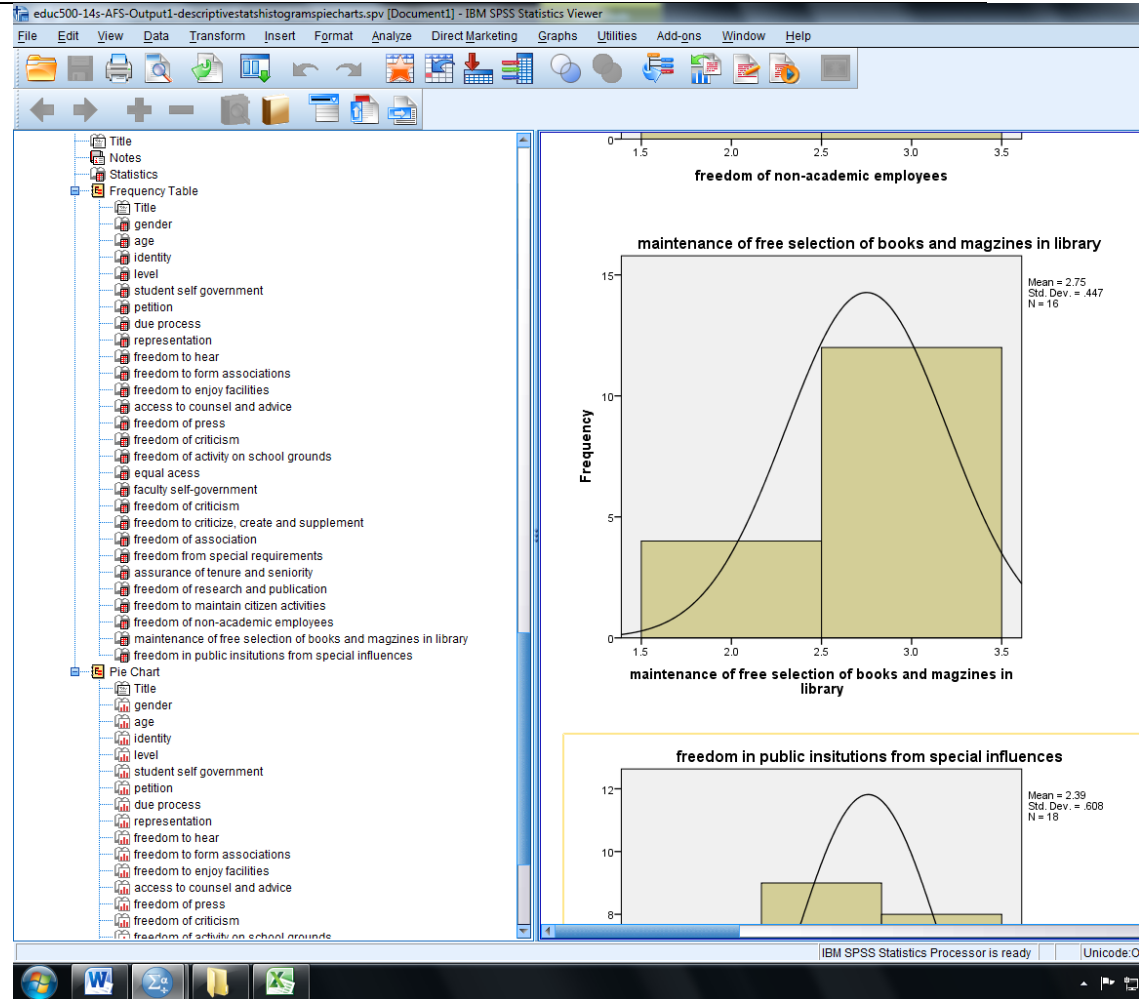
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	as a general rule	12	66.7	75.0	100.0
	complete	16	88.9	100.0	
Missing	System	2	11.1		
	Total	18	100.0		

**Table 4: Frequency Table 4 (freedom in public institutions from special influences)**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	very little or none	1	5.6	5.6	5.6
	as a general rule	9	50.0	50.0	55.6
	complete	8	44.4	44.4	100.0
	Total	18	100.0	100.0	

The 'Frequencies: Charts' dialog box is open, showing 'Histograms' selected under 'Chart Type'. The 'Show normal curve on histogram' checkbox is checked. The 'Chart Values' section has 'Frequencies' selected.

# Histograms





# Pie charts

educ500-14s-AFS-Output1-descriptivestatshistogramspiecharts.spv [Document1] - IBM SPSS Statistics Viewer

File Edit View Data Transform Insert Format Analyze Direct Marketing Graphs Utilities Add-ons Window Help

Due process  
representation  
freedom to hear  
freedom to form associations  
freedom to enjoy facilities  
access to counsel and advice  
freedom of press  
freedom of criticism  
freedom of activity on school grounds  
equal access  
faculty self-government  
freedom of criticism  
freedom to criticize, create and supplement  
freedom of association  
freedom from special requirements  
assurance of tenure and seniority  
freedom of research and publication  
freedom to maintain citizen activities  
freedom of non-academic employees  
maintenance of free selection of books and magazines in library  
freedom in public institutions from special influences

Pie Chart

Title  
gender  
age  
identity  
level  
student self government  
petition  
due process  
representation  
freedom to hear  
freedom to form associations  
freedom to enjoy facilities  
access to counsel and advice  
freedom of press  
freedom of criticism  
freedom of activity on school grounds  
equal access  
faculty self-government  
freedom of criticism  
freedom to criticize, create and supplement  
freedom of association  
freedom from special requirements  
assurance of tenure and seniority  
freedom of research and publication  
freedom to maintain citizen activities  
freedom of non-academic employees  
maintenance of free selection of books and magazines in library

Double click to edit Chart

IBM SPSS Statistics Processor is ready | Unicode C

Color	Age Group
Blue	30-34
Green	35-39
Yellow	40-44
Purple	45-49
Red	50-54
Light Blue	55-59
Grey	65+
White	10