

WORKING ONLINE TO FIND AND EXPLORE DATA:

1. FIND data using the <odesi> data catalogue: <http://odesi.ca>

ODESI lets you search through a collection of 1000's of survey and polling files to find the data that best suits your needs. Search by keyword, or browse the collection by topic.

See: http://library.queensu.ca/data/how_to_guides → Using <odesi> and Nesstar...

2. EXPLORE data using Nesstar Webview

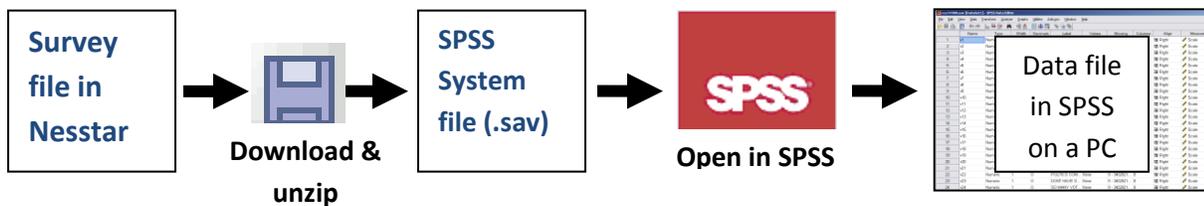
Once you've found data of potential interest using ODESI, click on 'Explore & Download' to move into the <odesi> exploration layer, **Nesstar Webview**, where you can work directly with survey data by looking at **FREQUENCIES**, running **CROSSTABULATIONS** (tables of two or more variables), and performing basic **SUBSETTING**, **RECLASSIFICATION OF VARIABLES**, etc. You can also **DOWNLOAD** survey data for use in **SPSS**, **SAS**, **STATA**, and other statistical software.

WORKING OFFLINE USING STATISTICAL SOFTWARE:

3. DOWNLOAD data in SPSS, SAS, STATA, or other format

Scenario A: Download data files in your preferred statistical software format.

In most cases, you will be able to obtain survey files in formats that are ready-to-use in statistical software like SPSS and STATA. For example, you could use Nesstar to download a file into an SPSS System file (.sav), ready-to-use in SPSS:



For more on how to do this, see:

http://library.queensu.ca/data/how_to_guides → Using <odesi> and Nesstar...

Scenario B: Occasionally, you may encounter data files that are not directly available in statistical software format. Instead, they are provided in 'raw' (i.e. *flat ASCII*) format – which, if opened in a text editor, will look like a large **rectangular array of data (numbers and/or text)**.

Some of the files you find in **ICPSR¹** will fit this description. If the file you're after *does* come in a ready-to-use statistical software format, by all means use this before tackling a 'raw' version.

```

273711 1 0 8 1122 719519999 13 461 1 41975 81976 81976221219863 61989190499
273711 2 0 22 1112 719419999 14 31299999999101976101976299999996 41979899999
273711 3 0 30 1112 319499999 11 41299999999101976101976299999996 61980299999
273711 4 0 31 1122 819459999 11 36199999999 21975 21975299999996 61980299999
273711 51973 1 11191019279999 12 16999999999111971111971299999995 61973190499
273711 61973 2 1129 819469999 14 61999999999 31971 31971299999995 61973190499
273711 71973 3 1129 319509999 14 41999999999 61971 61971299999995 81973190499
273711 81973 4 1119 819239999 13 41999999999 31971 31971299999995 81973190499
273711 91973 5 11191019439999 12 21999999999 91969 91969299999995 61973190499
273711 101973 6 11191119469999 11 41999999999 91971 91971299999995101973190499
273711 111973 7 1129 119499999 12 11999999999 61969 61969299999995 91973190499

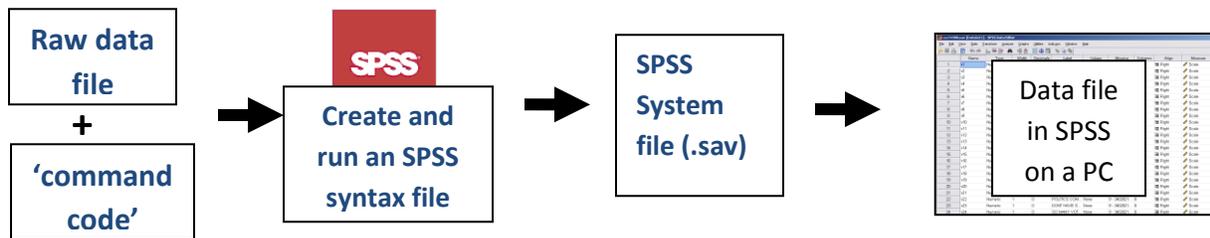
```

'record'
or 'case'

Take a look at the ICPSR/NACJD² Guide: **How do I interpret a record from an ASCII data file?** for more information.

URL: <http://www.icpsr.umich.edu/icpsrweb/NACJD/support/faqs/2007/02/how-do-i-interpret-record-from-ascii>

If you are obliged to convert an ASCII dataset into a form readable by statistical software, hopefully, your ASCII data file will come with an *additional* file containing '**command code**' describing what the numbers in **each column** of the data file represent. This file could indicate, for instance, that data in column position 1 contains information about the 'sex' of the respondent, columns 2 to 3 could indicate 'Province', etc. Armed with this information, you can convert the 'raw' data file into a format compatible with your statistical software (e.g. an SPSS System file with a '.sav' extension).



SPSS is available on computers in Stauffer Library. If you have SPSS '**command code**' and a '**raw data file**', you can convert your data in to SPSS format. A sample of SPSS 'command code' is provided below.

¹ ICPSR – Inter-university Consortium for Political and Social Research - <http://www.icpsr.umich.edu/icpsrweb/ICPSR/index.jsp>

² National Archive of Criminal Justice Data

Alternatives to starting with 'Raw' data

1. StatTransfer



The Library has software called **StatTransfer**, which converts statistical files from one format to another. So, for example, if you have an SPSS System file (.sav) and want a STATA file (.dta) you can use **StatTransfer** to do this conversion.

2. Use the 'File Save-As' features of SPSS or other software

IBM® SPSS® Statistics

Using the SPSS 'File → Save As → Save as type' option, you can save an SPSS dataset (downloaded using <odesi>) into any of a number of common formats, including SAS, STATA, Excel, and many more.

Sample SPSS COMMAND CODE

Converting "RAW data" to an "SPSS System File" format (.sav)

* Open a file like this in SPSS as a 'syntax file' and run it to convert your ASCII data to an SPSS System file.

* Note: all SPSS commands end with a 'period'; comments start with an asterisk.

* These commands provide a title and define the width of the raw data file.

```
TITLE "ICPSR9897 - Predicting Recidivism in N. Carolina - 1978".  
LENGTH=NONE WIDTH=80 .
```

* This command provides a nickname (in this case MYFILE) for the raw data file, defines its location (path on your PC) and the LRECL or 'logical record length' (how many columns of numbers are associated with each record).

```
FILE HANDLE MYFILE/NAME='E:\fullpath_to_data_file'/LRECL=28 .
```

* This command identifies the raw data file using the 'nickname' provided above, and defines what variables are found in what positions on the data file.

```
DATA LIST FILE=MYFILE/  
WHITE      1 - 1  
ALCHY      2 - 2  
JUNKY      3 - 3  
STATE      27-28 .
```

* This command provides labels for the variables on the SPSS dataset we are creating.

VARIABLE LABELS

```
WHITE      "Race - white or black"  
ALCHY      "Alcoholic?"  
JUNKY      "Junky?"  
STATE      "State of residence".
```

* This command defines what each numeric (or alpha) code means for each variable on the dataset.

VALUE LABELS

```
WHITE  
          1 "WHITE, and others"  
          0 "BLACK"/  
ALCHY  
          1 "ALCOHOLIC"  
          0 "NOT ALCOHOLIC"/  
JUNKY  
          1 "JUNKY"  
          0 "NOT A JUNKY"/.
```

* This command defines missing values that will be recognized as such in SPSS.

Missing values

```
ALCHY (-9) WHITE JUNKY (999) .
```

* This command saves the resulting file as an SPSS System file with a dot 'sav' extension.

```
SAVE OUTFILE='E:\full path\ICPSR8987-1978.sav' .
```

```
execute .
```