

SAS Tips and Tricks

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Today...

1. Importing Data

2. SAS Studio

1. Importing Data

I hate importing data.

I hate importing data.

I *still* hate importing data.

The Process

```
Proc Import out=survey
```

```
DATAFILE="M:\survey.sav"
```

```
DBMS=SPSS REPLACE;
```

```
run;
```

The Process Broke

1,032 variables????

There should only be 246.

A Side Note on The Process

Nice thing: this saved formats!

```
Proc Import out=survey
```

```
DATAFILE="M:\20161205.sav"
```

```
DBMS=SPSS REPLACE;
```

```
run;
```


Switching to STATA .dta for import

Missing values were all -9998

Switching to STATA .dta for import

```
Data survey;
```

```
Set survey;
```

```
Array change{*} _numeric_ ;
```

```
do i = 1 to dim(change);
```

```
    if change{i} = -9998 then change{i} = . ;
```

```
end;
```

```
drop i;
```

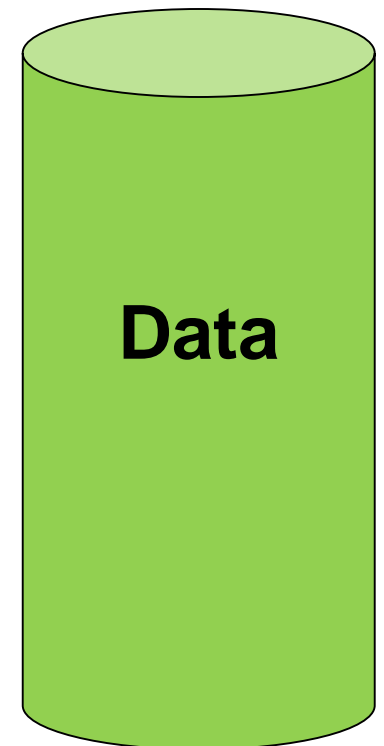
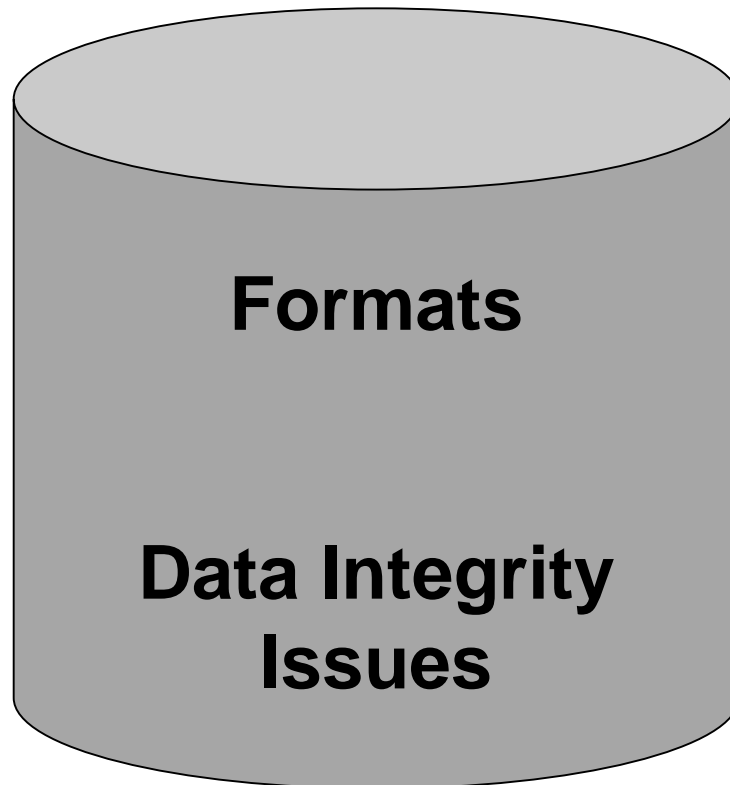
```
run;
```

What if....

- **I wasn't able to find a export format that worked?**
- **How could I get the correct variables AND the formats?**

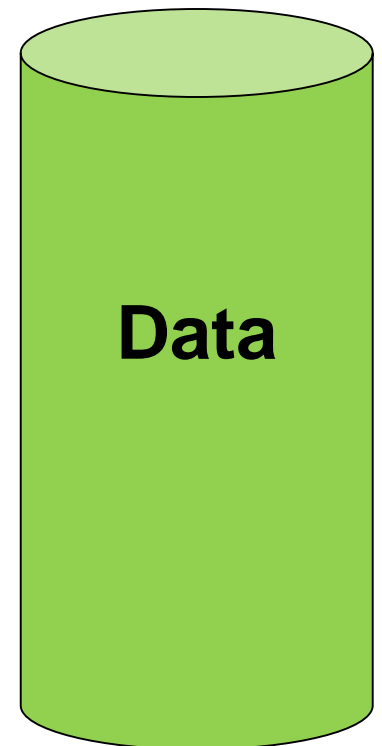
What if....

- **How could I get the correct variables AND the formats?**



1. Read in the No Format file

```
Data NoFormats;  
  Set survey.survey;  
run;
```



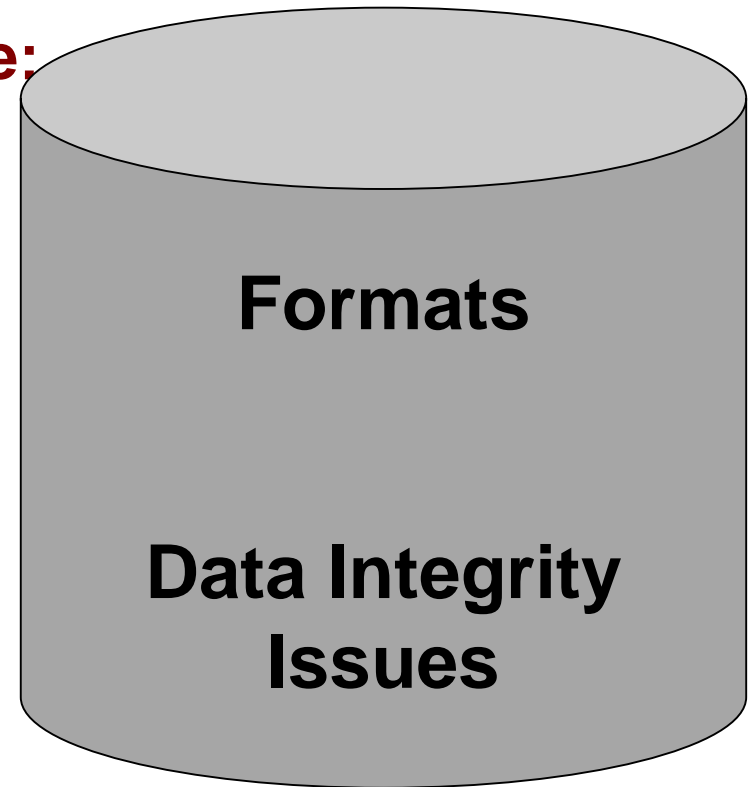
2. Import the SPSS file with formats but extra variables

```
Proc Import out=ExtraVars
```

```
datafile="M:\survey.sav"
```

```
DBMS=SPSS replace;
```

```
run;
```



3. List the *keep* variables

```
Proc Contents Data = NoFormats  
out = vars (keep = varnum name)  
noprint;  
run;
```

3. Keep variables in macro variable

```
Proc SQL noprint;  
select distinct name  
into :varlist separated by ' '  
from vars  
;  
quit;
```

4. Put it all together awesomeness!

Data survey;

Set ExtraVars (obs=0)

NoFormat

;

keep &varlist;

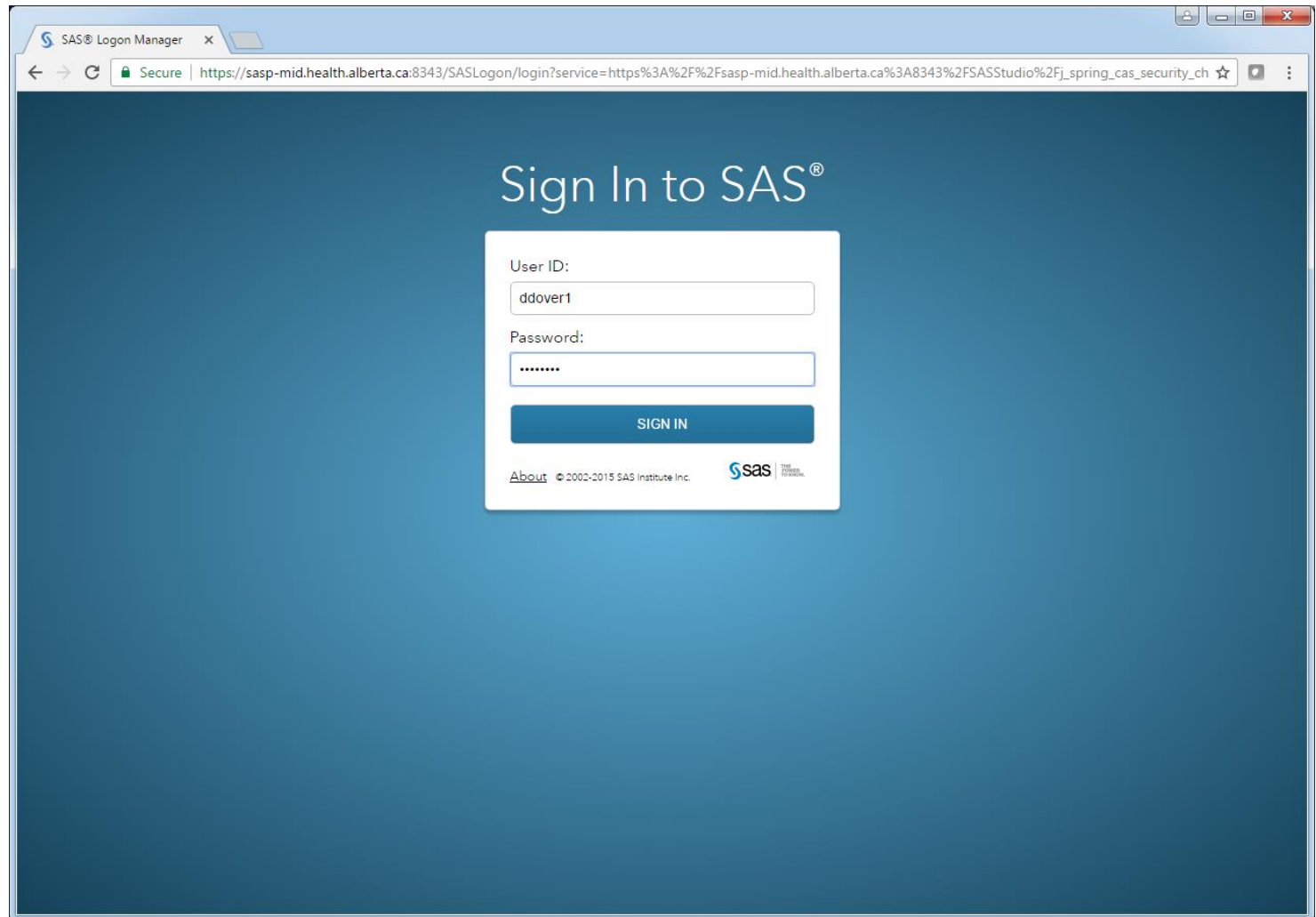
run;

2. SAS Studio

What is SAS Studio?

- **Classic SAS + EG all in one**
- **Throwback to the 1960s?**

What is SAS Studio?



What is SAS Studio?

The screenshot displays the SAS Studio web interface. The browser address bar shows the URL: https://sasp-mid.health.alberta.ca:8343/SASStudio/main?locale=en_US&zone=GMT-06%253A00&https%3A%2F%2Fsasp-mid.health.alberta.ca%3A8343%2FSASSt. The interface includes a 'Server Files and Folders' pane on the left, a 'CODE' editor in the center, and a 'LOG' and 'RESULTS' pane on the right. The code in the editor is as follows:

```

run;
quit;
%end;
*Concentration*;
%if &DoDim = YES %then %do;
Data _conc_plot_;
  Merge _means_ _R_ end=eof;
  By &dim;
  Retain CummPctHealth 0 CummPctPopulation 0;
  if CummPctHealth=0 and CummPctPopulation=0 then do;
    output;
  end;
  CummPctHealth = CummPctHealth + mean*pct*sumweights/(sumweights*overall_mean);
  CummPctPopulation = cummpct;
  output;
  if eof then do;
    CummPctHealth = 1;
    CummPctPopulation = 1;
    output;
  end;
  keep CummPctHealth CummPctPopulation;
run;
Title "Concentration Curve for &y ordered by &dim";
Proc SGPLOT Data=_conc_plot_;
  Series y=CummPctHealth x=CummPctPopulation / legendlabel="Concentration Curve";
  Series y=CummPctHealth x=CummPctHealth / legendlabel="Line of Equity";
  xaxis min=0 max=1;
  yaxis min=0 max=1;
  inset "Concentration Index &conc" / border position=topleft;
  label CummPctPopulation = "Cumulative % of Population, Ordered by &dim";
  label CummPctHealth = "Cumulative % of &y";
run;
quit;
%end;

```

The status bar at the bottom indicates the file path: `/sasshare/hsb/project/surveillance/working/doug/projects/Equity Measures/inequity measures v04.macro.sas` and the current position: `Line 411, Column 1`. The user is identified as `User: ddover1`.

Random things I've learned using SAS Studio

- **It has two interfaces – programmer and visual programmer**
- **I've only tried one**

Random things I've learned using SAS Studio

Programming interface has two modes:

- **Interactive**
- **Batch**

Random things I've learned using SAS Studio

Can switch between:

- **Interactive**
 - **Classic SAS**
- **Batch**
 - *If you highlight and run when developing code, this won't work for you*

Random things I've learned using SAS Studio

You can Batch submit once again!

- *Ah, my youth...*

Random things I've learned using SAS Studio

Preferences:

- **Time-out interval**
 - *Do not use 1 hour*

Random things I've learned using SAS Studio

Preferences:

- **You can turn off (or on) autocomplete**

Random things I've learned using SAS Studio

You may not be able to see all of your dataset!?

- **Limited to 500 columns**

Thank you.

**Questions, comments, or thoughts?
Please contact me at
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