

Some Nifty Tips and Tricks

eSUG
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Douglas C .Dover

Hierarchical Disease Codes

- **ICD-9 codes**
- **Format: character 999.00**
- **Example:**
 - 301 Personality Disorders
 - 301.8 Other Personality Disorders
 - 301.81 Narcissistic Personality Disorder
- **How to select 295.*, 296.*, and 301.* ?**

Hierarchical Disease Codes

- How to select 295.*, 296.*, and 301.* ?

```
Data dougs_diagnoses;
```

```
Set all_diagnoses
```

```
Where diag_code in : ("295" "296" "301");
```

```
run;
```

Hierarchical Disease Codes

- Quite the improvement over:

```
Data dougs_diagnoses;  
Set all_diagnoses
```

```
if diag_code =: "295" or  
if diag_code =: "296" or  
if diag_code =: "301";
```

```
run;
```

SQL – macro variables

- **How many categories are there?**
- **(because I need to loop over them in a macro)**

SQL – macro variables

- How many categories are there?

```
Proc SQL;
```

```
Select count(distinct X) into: nX
```

```
from mydata
```

```
;
```

```
quit;
```

SQL – macro variables

- And if I want the list of values?

```
Proc SQL;
```

```
Select distinct X into :listX  
                                separated by ','
```

```
from mydata
```

```
;
```

```
quit;
```

SQL – macro variables

- Or if I want the values in their own macro variables?

```
Proc SQL;
```

```
Select distinct X into :valX1 - :valX7
```

```
from mydata
```

```
;
```

```
quit;
```


Cleaning Fields

- **Pesky messy data?**
- **Need to remove everything but the letters and numbers?**

Cleaning Fields

- Need to remove everything but the letters and numbers?

```
Cleanstring = Compress(messy, , 'adk' ) ;
```

- k=keep
- a=alpha
- d=digit

Compress has LOTS of options to keep and remove characters!

Forgotten Formats?

- How to open a dataset when you don't have the formats?

`ERROR: Format ASDF not found or
couldn't be loaded for variable x.`

Forgotten Formats?

- How to open a dataset when you don't have the formats?

```
Options nofmterr;
```

What's in your format?

- How do you tell if you “made” your format correctly?

What's in your format?

- How do you tell if you “made” your format correctly?

```
Proc Format PAGE;  
    Select asdf;  
run;
```

What's in your format?

- How do you tell if you “made” your format correctly?

FORMAT NAME: ASDF LENGTH: 4 NUMBER OF VALUES: 2 MIN LENGTH: 1 MAX LENGTH: 40 DEFAULT LENGTH: 4 FUZZ: STD		
START	END	LABEL (VER. V7 V8 08OCT2014:17:25:34)
1	1	Doug
2	2	Matt

Templates for the timid

- **How do change simple things like colours and margins?**

Templates for the timid

- How do change simple things like colours and margins?

```
ods rtf file="test.rtf" style=seaside;
```

```
...
```

```
ods rtf close;
```

Templates for the timid

- How do change simple things like colours and margins?

```
Proc Template;
```

```
    Define Style MyPurple;
```

```
    Parent = Styles.seaside;
```

Templates for the timid

```
Proc Template;
```

```
...
```

```
  Replace Body /  
    leftmargin=.75in  
    topmargin=.75in  
    bottommargin=.75in  
    rightmargin=.75in  
    ;
```

Templates for the timid

```
Proc Template;
```

```
...
```

```
Replace Header from Column /
```

```
background= cxBD64ED
```

```
foreground= cxffffff
```

```
just=C
```

```
vjust=M
```

```
;
```

```
end;
```

```
run;
```

Templates for the timid

```
Proc Template;  
  Define Style MyPurple;  
    Parent = Styles.seaside;  
    Replace Body /  
      leftmargin=.75in  
      topmargin=.75in  
      bottommargin=.75in  
      rightmargin=.75in  
    ;  
    Replace Header from Column /  
      background= cxBD64ED  
      foreground= cxffffff  
      just=C  
      vjust=M  
    ;  
  end;  
run;
```

Templates for the timid

- How do change simple things like colours and margins?

Good ol' *style=seaside*

	N
x	
Doug	1
Matt	1

Templates for the timid

- How do change simple things like colours and margins?

Awesome new `style=MyPurple`

	N
x	
Doug	1
Matt	1

Confidence Intervals

- **How does the statistician in me put confidence intervals on plots?**

Confidence Intervals

- How does the statistician in me put confidence intervals on plots?

```
Proc SGPLOT Data=myrates;
```

```
    Scatter x=year y=rate
```

```
        / yerrorlower=lCI yerrorupper=uCI;
```

```
run;
```

```
quit;
```

Confidence Intervals

- How does the statistician in me put confidence intervals on plots?



Thanks!