

SAS2 Getting Comfortable with your Data

Temporary SAS datasets

Data ctums;

- Uses the Work Library in SAS
- Full dataset name: work.ctums
- At the end of the SAS session datasets in Work Library are deleted
- No physical file exists

Permanent SAS datasets

Libname sasdata "C:\workshop";

Data sasdata.ctums;

- Link a library name with a directory on your computer
- Must use the dataset's fullname sasdata.ctums
- Creates a physical file in your directory
- *.sas7bdat files

Frequency

```
Proc freq;  
tables agegroup;  
Run;
```

Crosstabulations

```
Proc freq;  
tables agegroup*sex;  
Run;
```

Chi-square

```
Proc freq;  
tables agegroup*sex / chisq;  
Run;
```

Means

```
Proc means;  
var totcig;  
Run;
```

Means with Standard Error

```
Proc means mean stderr;  
var totcig;  
Run;
```

Median

```
Proc means median;  
var totcig;  
Run;
```

Mode

```
Proc univariate;  
var sc_q100;  
Run;
```

Normality Statistics

```
Proc univariate normal;  
var totcig;  
Run;
```

Normality Statistics with Plots

```
Proc univariate normal plot;  
var totcig;  
Run;
```

Common Transformations

1. Square root (**sqrt**)
2. Arcsine (**arsin**)
3. Logarithmic (**log** or **log10**)

Example:

```
Data t_ctums;  
set ctums;  
log_totcig = log (1 + totcig);  
Run;
```
