Turning output into data
 PROC TRANSPOSE
 PROC EXPORT

 000000000
 00000
 000

Turning output into data, PROC TRANSPOSE, PROC EXPORT

Shannon Pileggi

STAT 330

4 □ ▶ 4 ₱ ▶ 4 ₦ ▶ 4 ₦ ▶ 0 Q (~ 1 / 20

STAT 330: Lecture 12 1 /

PROC TRANSPOSE

Turning output into data PROC TRANSPOSE PROC EXPORT

OUTLINE

Turning output into data

PROC TRANSPOSE

PROC EXPORT

STAT 330: Lecture 12 2 / 20

PROC EXPORT

PROC TRANSPOSE

PROC EXPORT

Overview

00000000

Turning output into data

- ► For many procedures you can use an OUTPUT statement or an OUT = option to store printed output to a SAS data set
- ► If that option isn't available, you can all use the ODS system to obtain the output
- ► This can be helpful for assembling statistics from many pieces of output, either for a succinct table or for a figure

STAT 330: Lecture 12

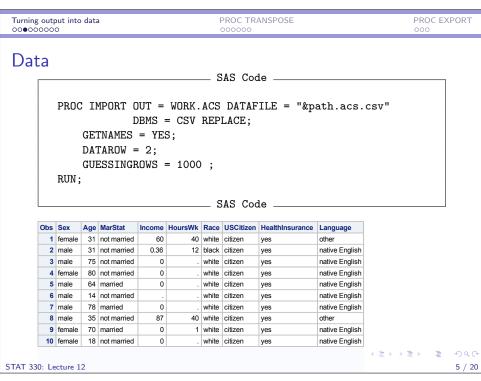
STAT 330: Lecture 12

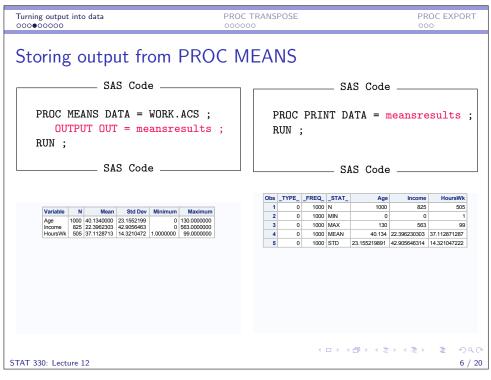
Turning output into data

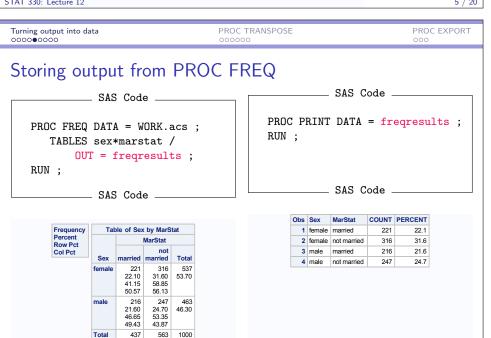
Turning output into data

•00000000

4 /







メロトメ劇トメミトメミト ヨ

7 / 20

56.30 100.00

STAT 330: Lecture 12



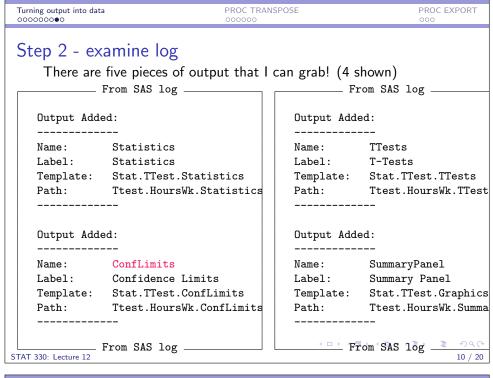
Storing output from PROC TTEST

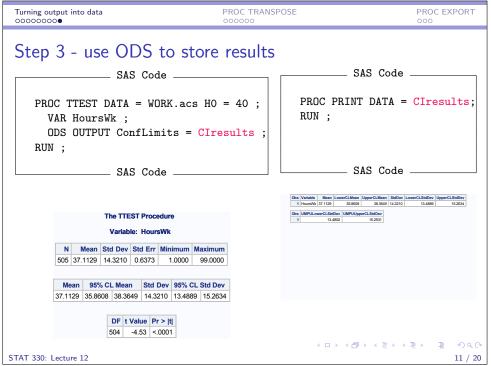
PROC TTEST does not have an OUTPUT statement or an OUT = option! To store results, we need to use ODS.

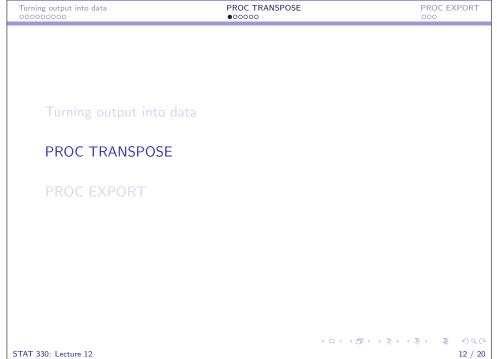
- 1. Trace your results from a SAS procedure.
- 2. Identify the output that you want from your log window.
- Modify your SAS procedure code to use ODS to store your results.

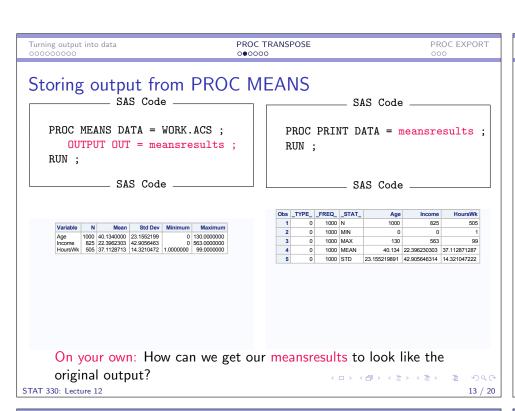
 ✓□ ト ✓□ ト ✓ □ ト

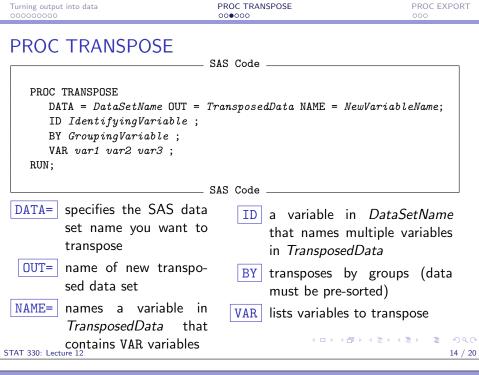


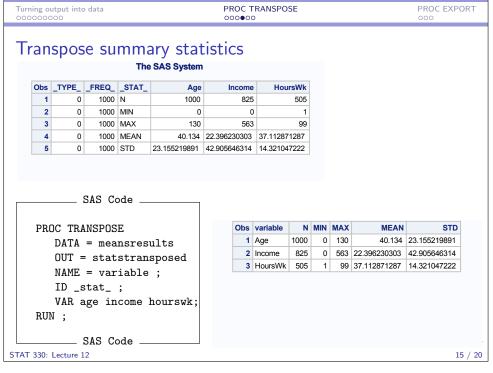


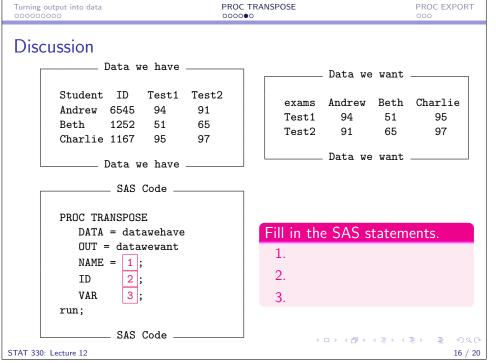












Reshaping data

- ▶ Re-shaping data is commonly needed for longitudinal studies
- ▶ Long format is required for longitudinal data analysis

Reshape data wide to long:

https://stats.idre.ucla.edu/sas/modules/ reshaping-data-wide-to-long-using-a-data-step/

► Wide format might be more useful for creating graphics or for paired analysis

Reshape data long to wide:

https://stats.idre.ucla.edu/sas/modules/ how-to-reshape-data-long-to-wide-using-proc-transpose/

______17

 Turning output into data
 PROC TRANSPOSE
 PROC EXPORT

 ○○○○○○○
 ●○○

Turning output into data

PROC TRANSPOSE

PROC EXPORT

Turning output into data PROC TRANSPOSE PROC EXPORT

PROC EXPORT

STAT 330: Lecture 12

```
PROC EXPORT

DATA = DataSetName

OUTFILE = "Computer Location/mydata.ext"

DBMS = identifier

REPLACE;

RUN;

SAS Code
```

DATA= specifies the SAS data set name you want to export

OUTFILE= takes computer location, data file name, and extension of the data file

DBMS= specifies type of data (e.g., CSV, TAB, DLM)

REPLACE option overwrites an existing file called mydata.ext

Example Code

STAT 330: Lecture 12

```
DATA statstransposed2;
SET statstransposed;
FORMAT mean 4.1 std 4.1;
RUN;

PROC EXPORT
DATA = statstransposed2
OUTFILE = "&path.summarystats.csv"
DBMS = CSV
REPLACE;
RUN;

SAS Code
```

- ▶ any format assigned to variables in the DATA step will be applied in the exported file for .csv or .txt files
- exporting to .xls or .xlsx does not apply formats

4□ > 4□ > 4□ > 4□ > 4□ > 4□

STAT 330: Lecture 12

STAT 330: Lecture 12

19 / 20

4□▶ 4団▶ 4団▶ 4団▶ ■ 99℃