

From code to tables: Reducing the number of steps in your analysis with SAS ODS

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Welcome to our Code As Manuscript workshop!

Purpose:

To teach a few tips and tricks for more efficiently managing your data, tracking your computer files, understanding appropriate analytical approaches, and speeding up the process from code to tables.

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Significance:

Topics we cover will help you get more comfortable with data, reduce the chance of overlooked errors, and give you more control over your work. They are also all important parts of a science movement gaining increasing attention – Reproducible Research.

Caveat: We aren't here to teach statistics or SAS basics

Need help with stats or SAS? Use these resources!

- U of T Statistical Consulting Services ([click here](#))
- <http://stats.stackexchange.com>
- <http://www.stackoverflow.com>
- <http://support.sas.com/rnd/base/ods/>
- <http://www.ats.ucla.edu/stat/sas/faq/odsexample.htm>

Notes and help during this workshop

Go to this website:

`https://etherpad.mozilla.org/camWorkshops`

Ask questions in the chat, write down notes for others.

Go to our Code As Manuscript website for syllabus, slides, cheatsheet, and others:

What is ODS?

- Output Delivery System
- SAS outputs **A LOT** of results
- ODS will extract results you are *actually* interested in
- Cleaner output
- Easier to re-run analyses with new data and quickly put into manuscript (ie: in tables)
- Helps with making your research *reproducible*
- Keeps you saner and less stressed!

Quick aside: What is reproducible research?

- http://en.wikipedia.org/wiki/Reproducibility#Reproducible_research
- <http://biostatistics.oxfordjournals.org/content/10/3/405.full>
- http://lcav.epfl.ch/reproducible_research/

Basically: For any given research project, have the code that can easily 'reproduce' the results that are presented in the manuscript.

ODS can help make this more of a reality.

Identifying the ODS object to use

```
ods trace on;  
...  
ods trace off;
```

(Switch to live coding)

Using the ODS object

```
ods output <object-name> = <dataset-name>;
```

(Switch to live coding)