

Wajdi Ben Saad ESSAI, Sept ,2015

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#### About This course

- 10 weeks ~ 8 classes to attend
- (VERY) Project oriented
- Pair project assignments
- Evaluation based on homework assignments

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#### To Do for the first 2 weeks

· Class Emails (preferably Gmail)

Mine is : wajdi.ben.saad@gmail.com

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#### First Challenge!

- Installing SAS 9.2 or 9.3 on your machines (There is a portable version you can use if nothing else works)
- Do the first assignment sent to you by Email

PS: I Can't / Wont help you with that!

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#### What is SAS?

- Began as a statistical package
- Also allows users to:
  - · Store data
  - · Manipulate data
  - Create reports
    - PDF
    - Excel
    - HTML
    - XML
    - · RTF / Word
    - · Etc. Etc. Etc.

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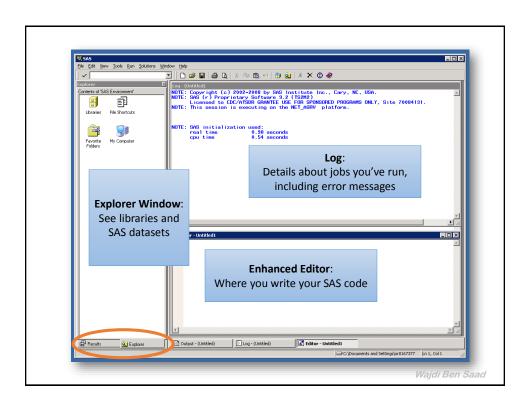
#### What is SAS?

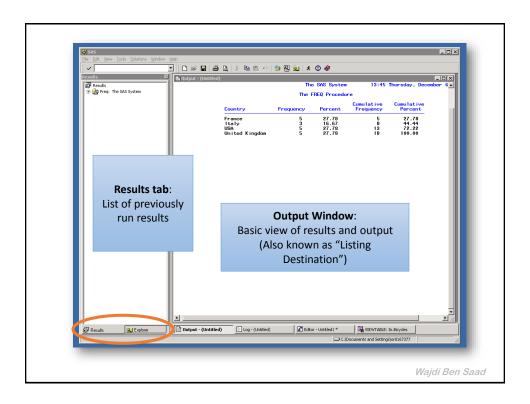
- · Also allows users to:
  - Create graphs
  - Create maps
  - · Send e-mails
  - · Create web applications
  - · Create iPhone Apps
  - Access R
  - · Schedule regularly run reports
  - Etc. Etc. Etc.

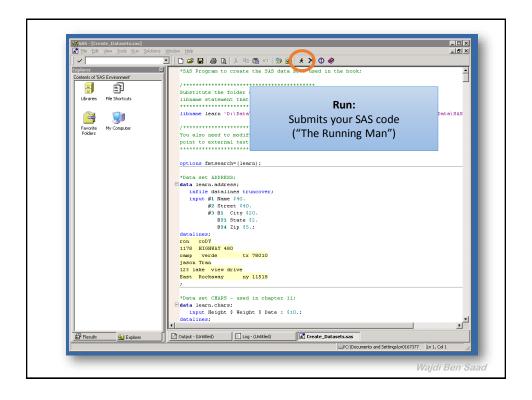
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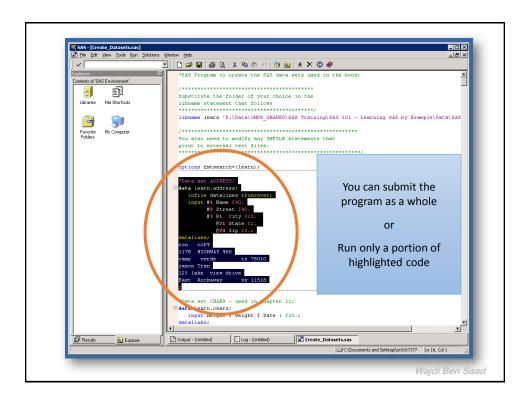
# SAS Display Manager

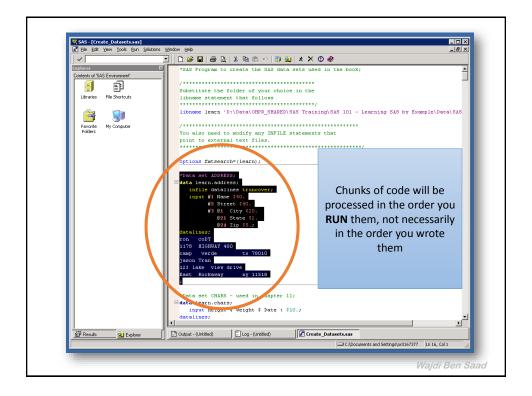
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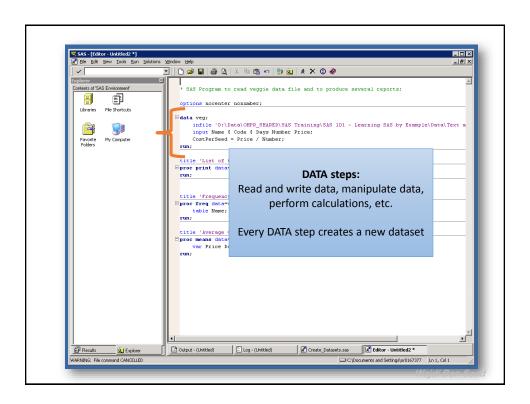


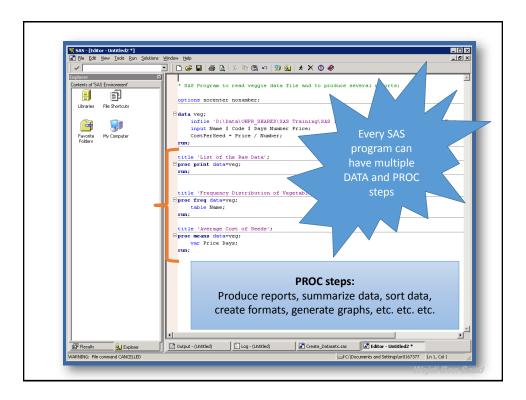


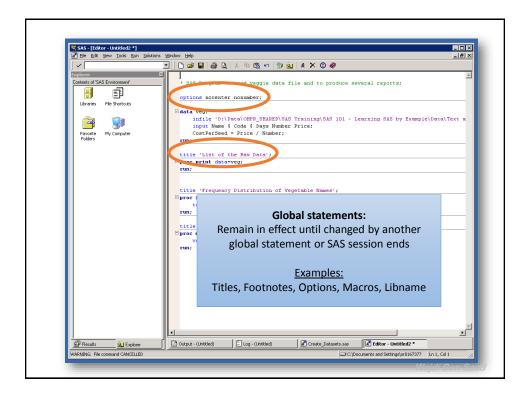


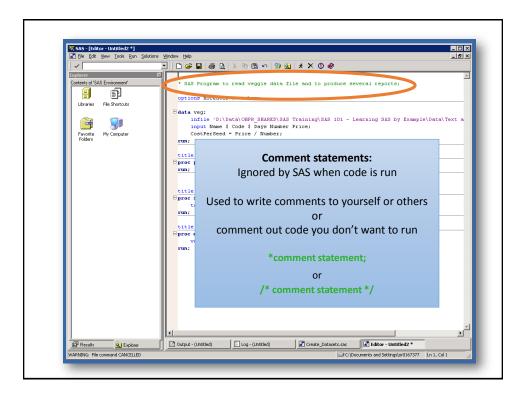
The elements of a SAS program

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#### Programming in SAS

- · SAS is generally forgiving
  - · Code can be written on a single line or multiple lines
  - · Code and variable names not case sensitive
  - · Even accepts some misspellings
  - Fi The Doo
- Semicolons are super important
- · Colors of Enhanced Editor
- Always check your log!!!
- · Often many ways to do the same thing

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## DATA step examples

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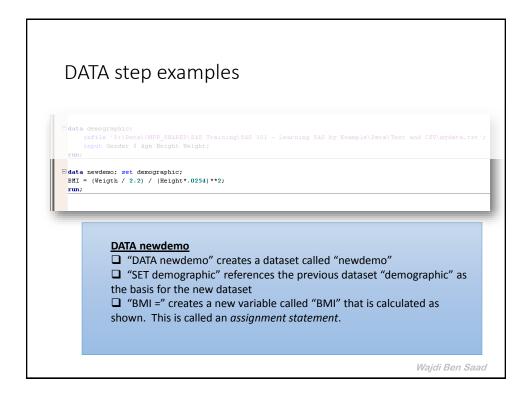
## DATA step examples

```
□data demographic;
   infile 'D:\Data\OHPR SHARED\SAS Training\SAS 101 - Learning SAS by Example\Data\Text and CSV\mydata.txt';
   input Gender $ Age Height Weight;
   run;

□data newdemo; set demographic;
BMI = (Weight / 2.2) / (Height*.0254)**2;
   run;
```

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# 



PROC step examples

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### PROC step examples

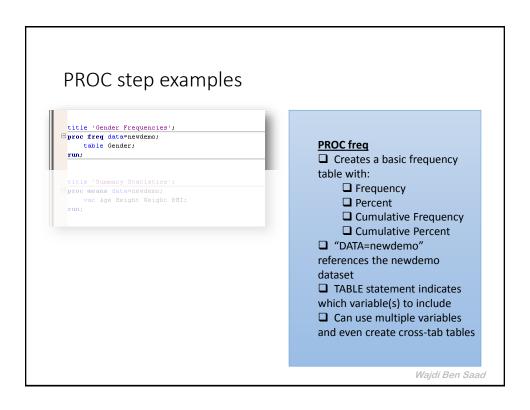
```
title 'Gender Frequencies';

proc freq data=newdemo;
    table Gender;
run;

title 'Summary Statistics';

proc means data=newdemo;
    var Age Height Weight BMI;
run;
```

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PROC step examples	
title 'Gender Frequencies';  Oproc freq data=newdemo; table Gender; run;  title 'Summary Statistics';  Oproc means data=newdemo; var Age Height Weight BNI; run;	PROC means  Creates a basic summary table with:  N Mean Std Dev Minimum Maximum Can specify which statistics to use in table "DATA=newdemo" references the newdemo dataset VAR statement indicates which variable(s) to include

