

# SPSS

## Brief Introduction

Quantitative Data Analysis

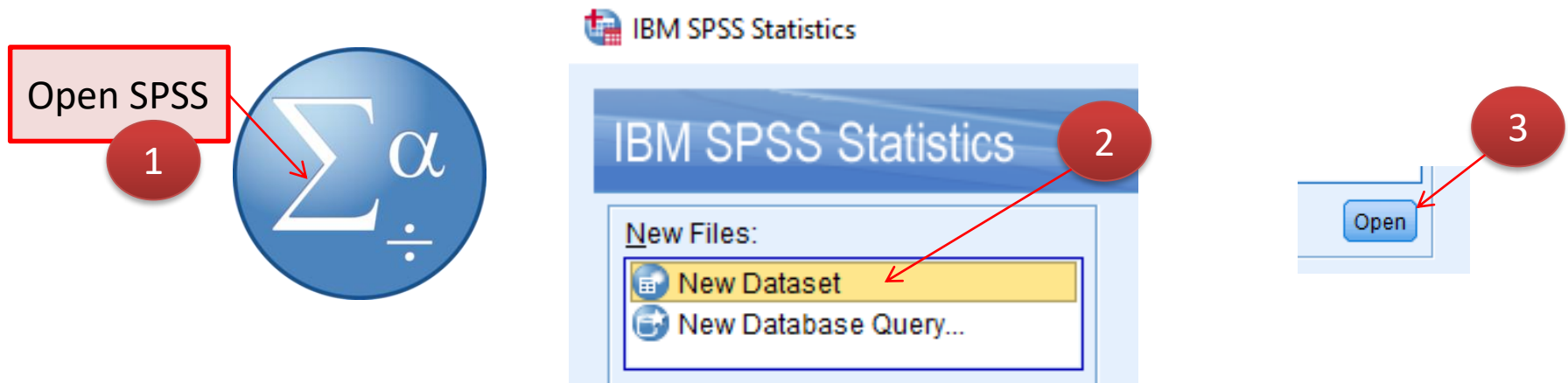
José Novais Santos

# Summary

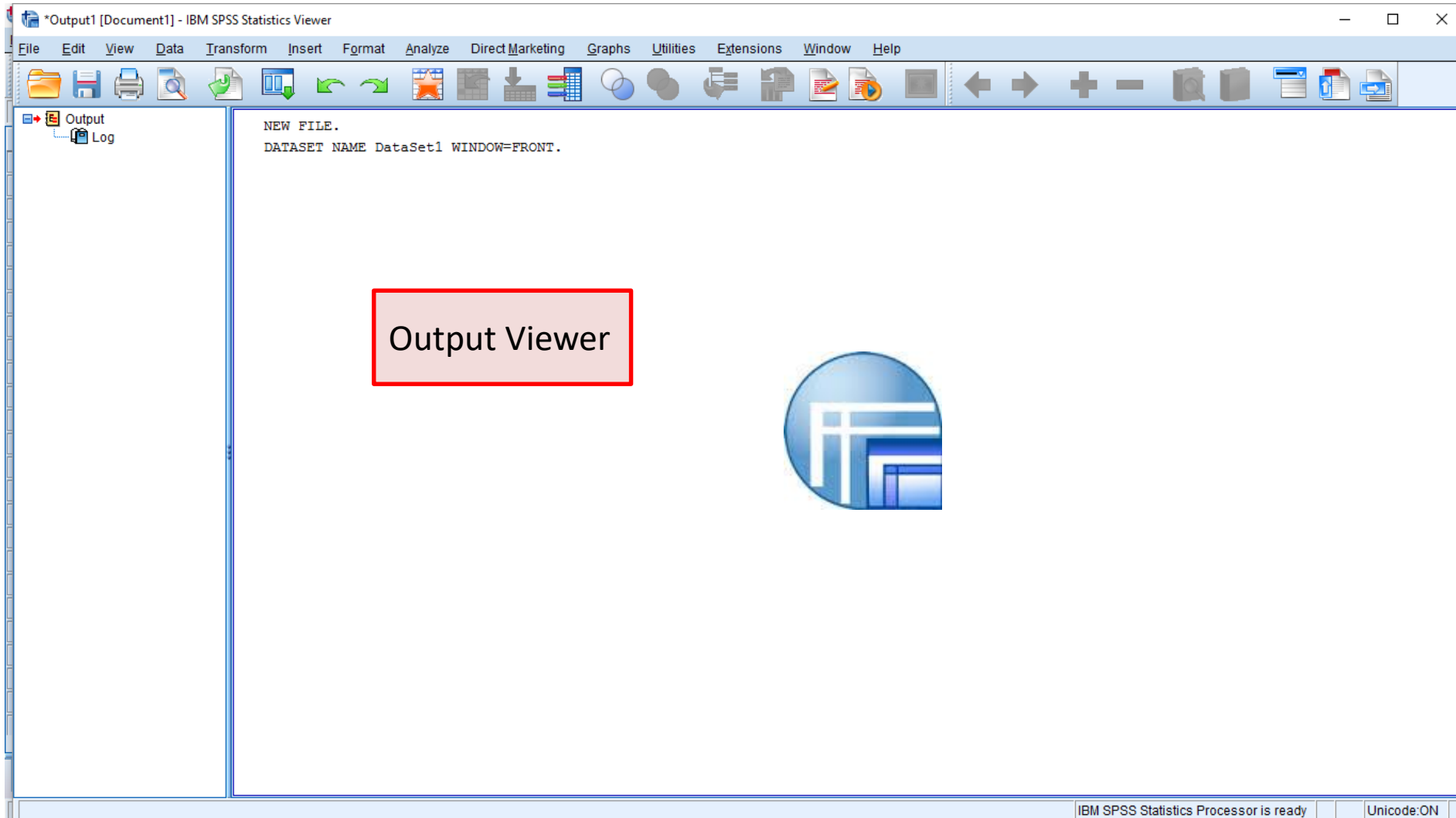
- SPSS
  - Introducing SPSS
  - Data/variables insertion
  - Opening data files

# SPSS

- IBM SPSS Statistics  
(Statistical Package for the Social Sciences)
  - Dataset creation



# SPSS



# SPSS

Untitled2 [DataSet1] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Extensions Window Help

Visible: 0 of 0 Variables

	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var	var
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
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21																	
22																	
23																	
24																	
25																	

Data Editor  
Data view

Data View Variable View

IBM SPSS Statistics Processor is ready Unicode:ON



# SPSS

Name	Type	Width	Decimals	Label	Values
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- Name
  - Type in a brief variable name (keep it as **short** as possible, not exceeding 64 characters – intertwine numbers and letters)
    - E.g. **Code**
  - Each variable name must be unique, must start with a letter, and cannot contain spaces or symbols
- Type
  - The default value for type is **Numeric** (for most purposes)
  - To enter text information (e.g. a person's surname) change the type to **String**
  - A Date option is also available if your data includes dates
  - Possible to use this window to adjust the width of the variable and the number of decimal places

# SPSS

Name	Type	Width	Decimals	Label	Values
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- Width
  - The default value is 8 (possible to change)
- Decimals
  - The default value for Decimals is usually 2 (change this to suit your needs)
- Label
  - Longer **description** of the variable (e.g. question)
- Values
  - In the Values column you can define the **meaning of the values** you have used to code your variables (e.g. 1=Male; 2=Female; 999=no response (missing); Likert scale;...)



# SPSS

	Missing	Columns	Align	Measure	Role
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- Missing
  - To assign **specific codes/values to indicate missing values** for data
    - E.g missing value code: 999=no response, 998=not applicable
    - Possible to choose the option: discrete missing values and type the value (e.g. 999) in the space provided – Up to three values can be specified
    - E.g. 999 may record that a respondent could not answer, and 998 that the respondent was unwilling to answer, and 997 might record “other” reasons
  - If you are using these special codes, identify these codes/values in the “Values” column
- Columns
  - The default column width value is 8 (possible to change)

# SPSS

	Missing	Columns	Align	Measure	Role
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- Align
  - The default is right alignment (possible to change)
- Measure
  - Refers to the level of measurement of each of your variables
  - The default is **Scale**, which refers to continuous data measured at interval or ratio level of measurement (e.g. age or even Likert)
  - Choose **Nominal** for categorical data – if your variable consists of categories (e.g. sex)
  - Choose **Ordinal** if your data involve rankings or ordered values (e.g. level of education completed) – categorical variables with ordered categories

# SPSS

- Insert the following questions

2. Age: \_\_\_\_\_ (in years)

6. What are the major sources of stress in your life?

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# SPSS

**\*Untitled2 [DataSet1] - IBM SPSS Statistics Data Editor**

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Extensions Windows

1 Insert name (code)

2 Select Type

Default

Default

3 Edit Width and decimals

4

Variable Type

☒ Numeric  
☐ Comma  
☐ Dot  
☐ Scientific notation  
☐ Date  
☐ Dollar  
☐ Custom currency  
☐ String  
☐ Restricted Numeric (integer with leading zeros)

Width: 3  
 Decimal Places: 0

The Numeric type honors the digit grouping setting, while the Restricted Numeric never uses digit grouping.

OK Cancel Help

	Name	Type	Width	Decimals	Label	Values
1	id1age	Numeric	8	2		None
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						

# SPSS

Width	Decimals	Label	
3	0	Age (in Years)	Nc

Insert Label  
(Variable description)

Values	Missing	Columns	Align	Measure	
None	None	8	Right	Scale	

Possible to edit Missing (followed by Values) – E.g. 999 = respondent could not answer; 998 = respondent was unwilling to answer; 997 = other reasons

Edit Measure

# SPSS

\*Untitled2 [DataSet1] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Extensions Windows

Insert name (code) 1

Select Type 2

Default

Change to String 3

Default

Edit Width (characters) 4

5

Variable Type

☐ Numeric  
☐ Comma  
☐ Dot  
☐ Scientific notation  
☐ Date  
☐ Dollar  
☐ Custom currency  
☒ String  
☐ Restricted Numeric (integer with leading zeros)

Characters: 30

The Numeric type honors the digit grouping setting, while the Restricted Numeric never uses digit grouping.

OK Cancel Help

	Name	Type	Width	Decimals	Label	Values
1	id1age	Numeric	3	0	Age (in Years)	None
2	id2stress	Numeric	8	2		None
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
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16						
17						
18						

# SPSS

	Width	Decimals	Label	
	3	0	Age (in Years)	No
	30	0	What are the major sources of stress in your life?	No

Insert Label (Variable description: question)

	Values	Missing	Columns	Align	Measure
	None	None	8	Right	Scale
..	None	None	8	Left	Nominal

Possible to edit Missing (followed by Values)

Edit Measure

Data insertion is now possible in Data view window

# SPSS

- For the following questions

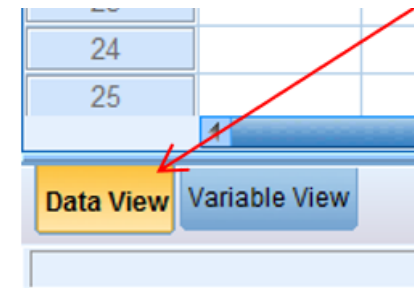
2. Age: \_\_\_\_\_ (in years)

6. What are the major sources of stress in your life?

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- Insert the responses from 3 interviewees

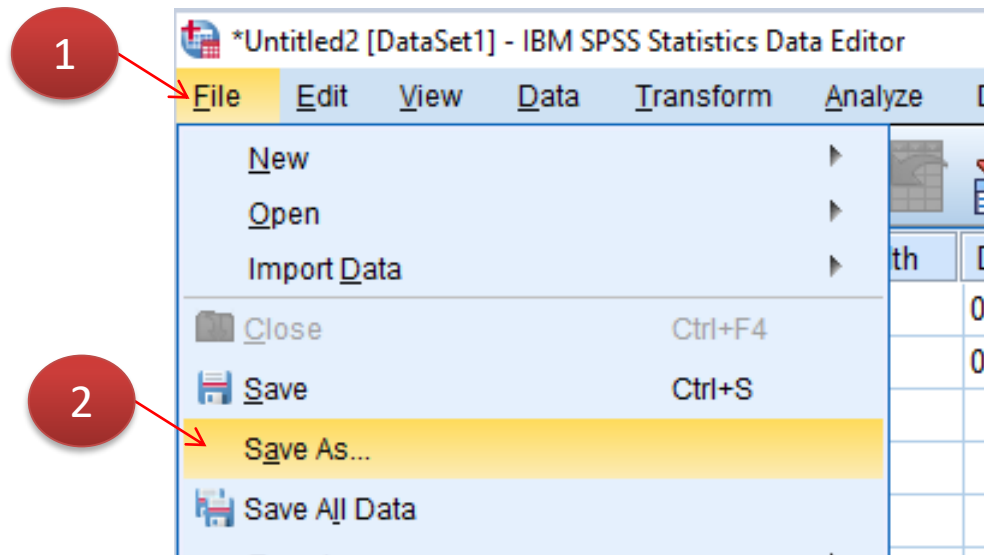
- 21 (years); work
- 22 (years); AQDM course
- “no response/Blanc”; work
- 21 (years); “non applicable” (code 999)



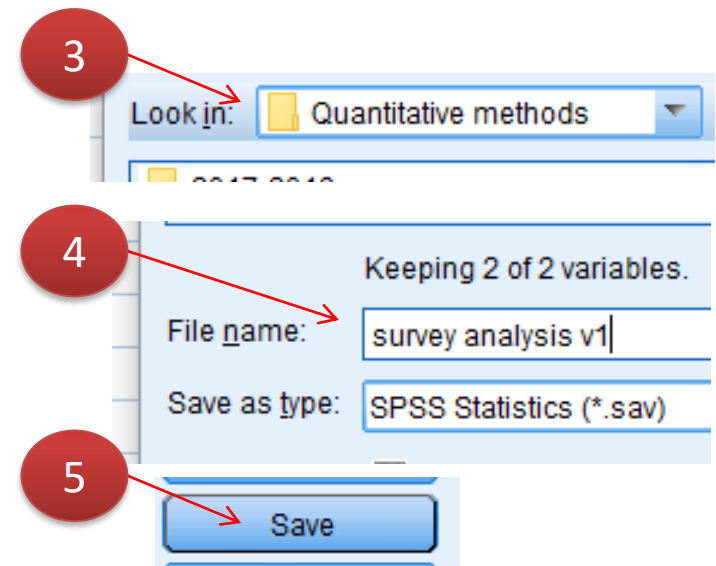
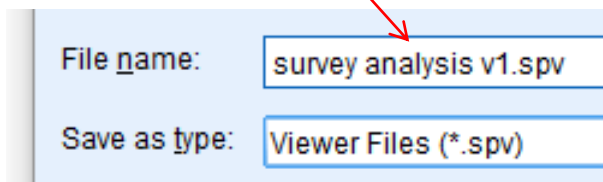


# SPSS

- Save SPSS files (data + output)



Save also the Output File



Save your file frequently under a different name... e.g. add a date