## Instructions for use of MEEGA+ Data Analysis Spreadsheet

The MEEGA + data analysis worksheet uses formula and charting features available only in Microsoft Excel (desktop version). Using the spreadsheet in other software may have configuration problems.

**Step 1.** Insert the description of the items according to the learning goals of the evaluated game.

Select the "Items" spreadsheet.

Insert from the line (33 for non-digital games and 36 for digital games) the description of the items according to the learning goals.

	Short-term learning	34	The game contributed to m The game allowed for e		d with other activities in the course	
Perceived Learning	Learning goals	36 37 38 39	The game contributed to <	verb as level of the learning	goal (cognitive, psychomotor, affective) > <goal conc<="" th=""><th>ept&gt;.</th></goal>	ept>.
				-		

## Step 2.

Insert the responses to the questionnaire of the items regarding Player Experience and Perceived Learning.

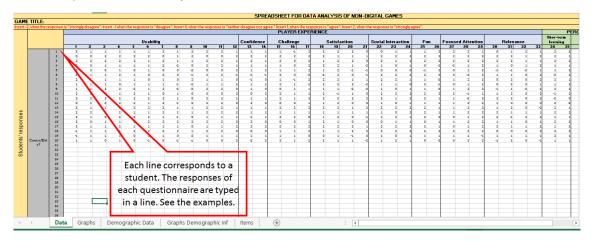
Select the "Data analysis" spreadsheet.

Data	Graphs	Demogra	aphic Data	Graphs D	emogra	phic Inf	Item	s	+		:

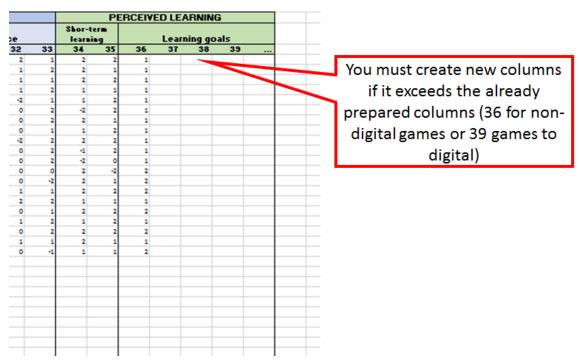
Typing should follow the following scale:

Insert -2, when the response is "strongly disagree". Insert -1 when the response is "disagree". Insert 0, when the response is "neither disagree nor agree." Insert 1, when the response is "agree". Insert 2, when the response is "strongly agree".

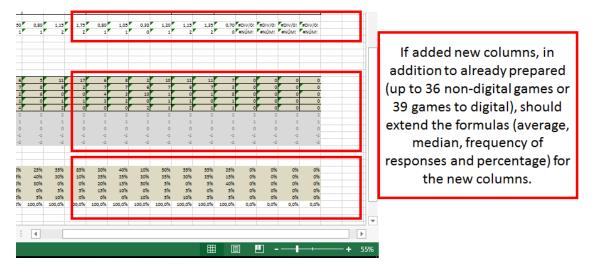
Each line represents the responses of a questionnaire answered by a student. Each column relates to a questionnaire item. The order of items (number of columns) is that of the questionnaire.



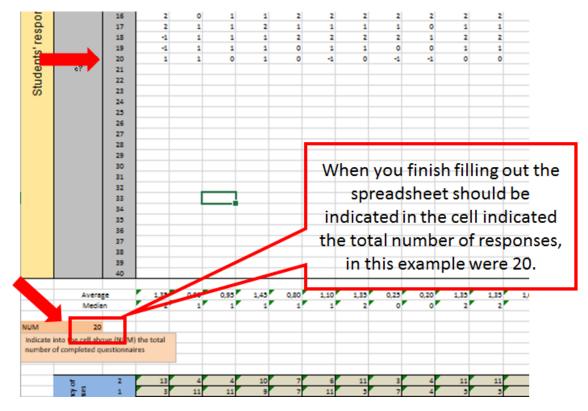
Each item related to learning goals should also be in a column. You must create new columns if it exceeds the already prepared columns (36 for non-digital games or 39 games to digital).



If added new columns, you must extend the formulas (average, median, frequency of responses and percentage) for the new columns.

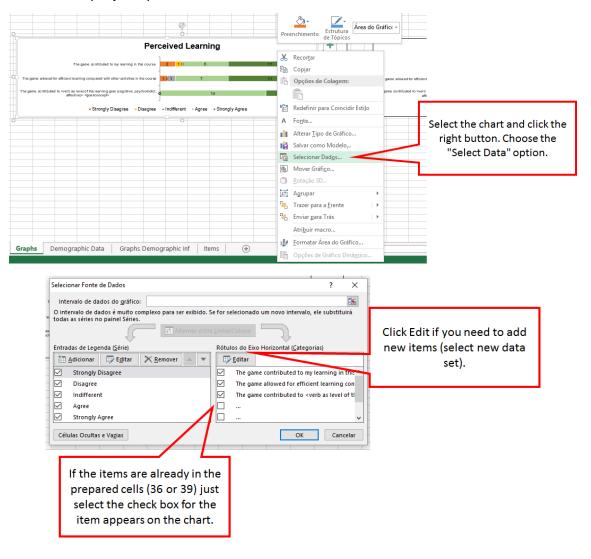


The total number of typed questionnaires should be typed in the NUM cell. This information is mandatory, as it serves as the basis for the formulas.



In the spreadsheet "Graphics" the graphics are automatically updated based on the data entered.

However, if you have inserted items related to learning goals in addition to the already prepared columns (36 for non-digital games or 39 games to digital). You have to edit the data set of Perceived Learning chart and select new items.

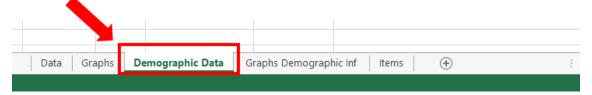


See the step by step.

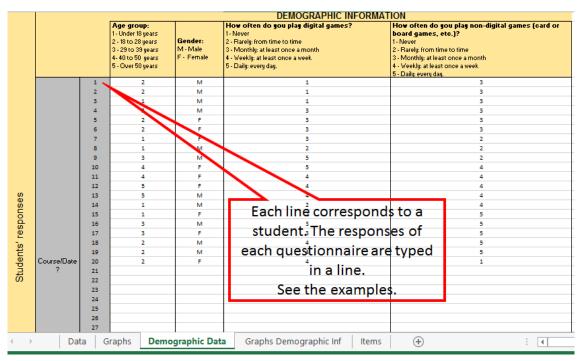
▶ Data Gra	phs Demographic Data	If you have exceeded      prepared cells (36 or      Graphs Demographic Inf    Items      Items    : <      Select the new data      Click OK.	r 39).
Perceived Learning	Learning goals	36  The game contributed to <verb (cognitive,="" affective)="" as="" goal="" learning="" level="" of="" psychomotor,="" the=""> <goal concept="">.    37     38     39 </goal></verb>	
	Short-term learning	The game contributed to my learning in this course. The game allowed for efficient learning compared with other activities in the course	
		33 I prefer learning with this game to learning through other ways (e.g. other teaching methods).	
	Relevance	30 The game of OK Cancelar	
	Focused Attention	27  There was s  intervalo do rátulo do eixo:  attention.    28  I was so iny  intervalo do rátulo do eixo:  intervalo do rátulo do eixo:    29  I forgot about  intervalo do rátulo do eixo:  intervalo do rátulo do eixo:	
	Fun	25  I had fun wit    26  Something h    Rótulos do Eixo  ?    X  made me smile.	

**Step 3.** Insert the responses to the questionnaire regarding the Demographic Information.

Select the "Infos Demographic" spreadsheet.



Again, each line corresponds to a questionnaire answered by a student. Must be respected typing as standard set for each item.



After typing, graphics on spreadsheet "Graphics Info demographic" will be updated automatically.

Gender	Age group	How often do you play digital games?
Male 11 Female 9 Gender	1      Under 18 years      5        2      18 to 28 years      7        3      29 to 39 years      4        4      40 to 50 years      2        5      Over 50 years      2	1 Never      3        2 Rarely from time to time      3        3 Monthly: at least once a month      6        4 Weekly: at least once a week      6        5 Daily: every day      2
	Age group	How often do you play digital games?
45% 55%	Under 18 years = 18 to 28 years = 29 to 39 years	10% 15% 20% 20%
	=40 to 50 years = Over 50 years	
		= Never = Rarely: from time to time = Monthly: at least once a month = Weekly: at least once a week
		Daily: every day
		Dally: every day
		Baily: every day   How often do you play non-digital games (card or board   1 Never
		Dally: every day