



JASP

JASP Instructions

Paired-samples *t*-test

For *within-subjects* experiments

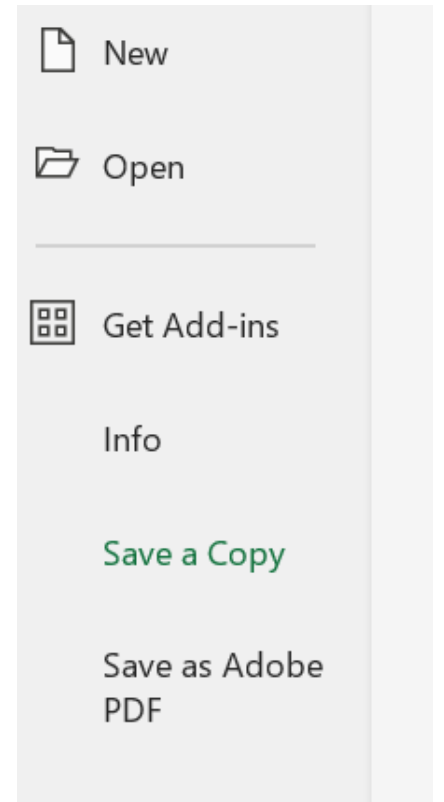
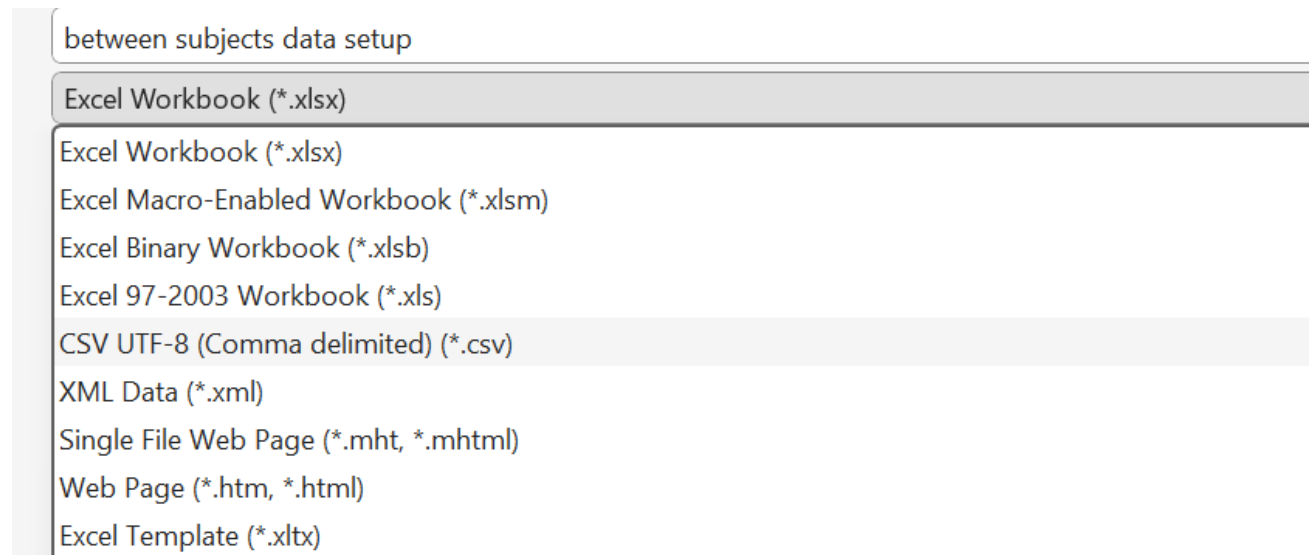
Format your data

- You will need:
 - A score column for condition A
 - A score column for condition B

	A	B	
	Cond1_score	Cond2_score	
	9	14	
	8	14	
	12	16	
	8	13	
	10	14	
	8	18	
	10	15	
	9	18	
0	11	17	
1	9	18	
2	8	17	
3	11	15	
4	8	14	
5	8	20	
6			

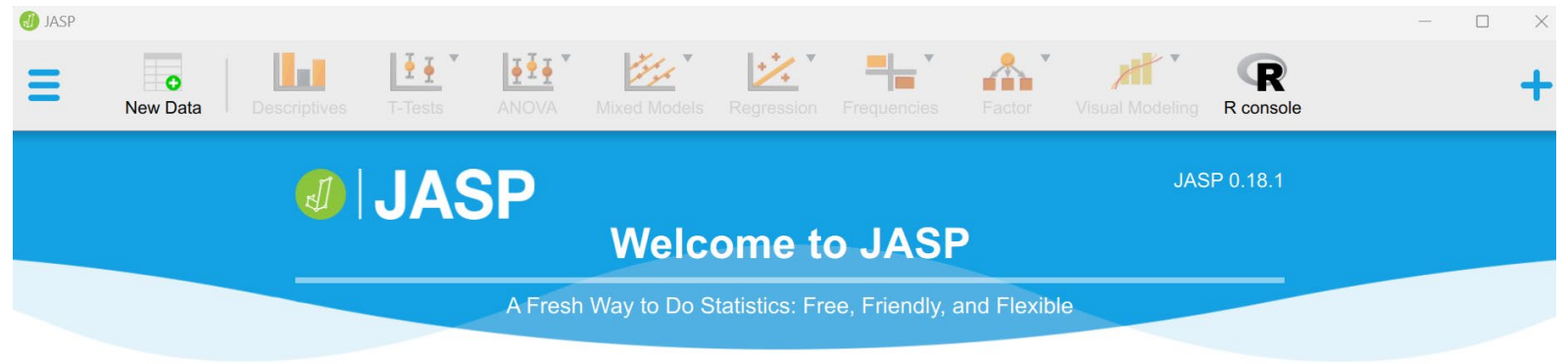
Save as CSV

- You were working with an excel sheet probably
- Now, take your ***clean, reformatted*** data and save as a CSV
 - Name it something descriptive and end with _JASP
 - Between_subjects_data_setup_JASP (for example)



Open JASP

- I recommend making a desktop shortcut but do whatever makes you happy!
- Just get it open



- **Free:** JASP is an open-source project with structural support from the University of Amsterdam.
- **Friendly:** JASP has an intuitive interface that was designed with the user in mind.
- **Flexible:** JASP offers standard analysis procedures in both their classical and Bayesian manifestations.

So open a data file and take JASP for a spin!

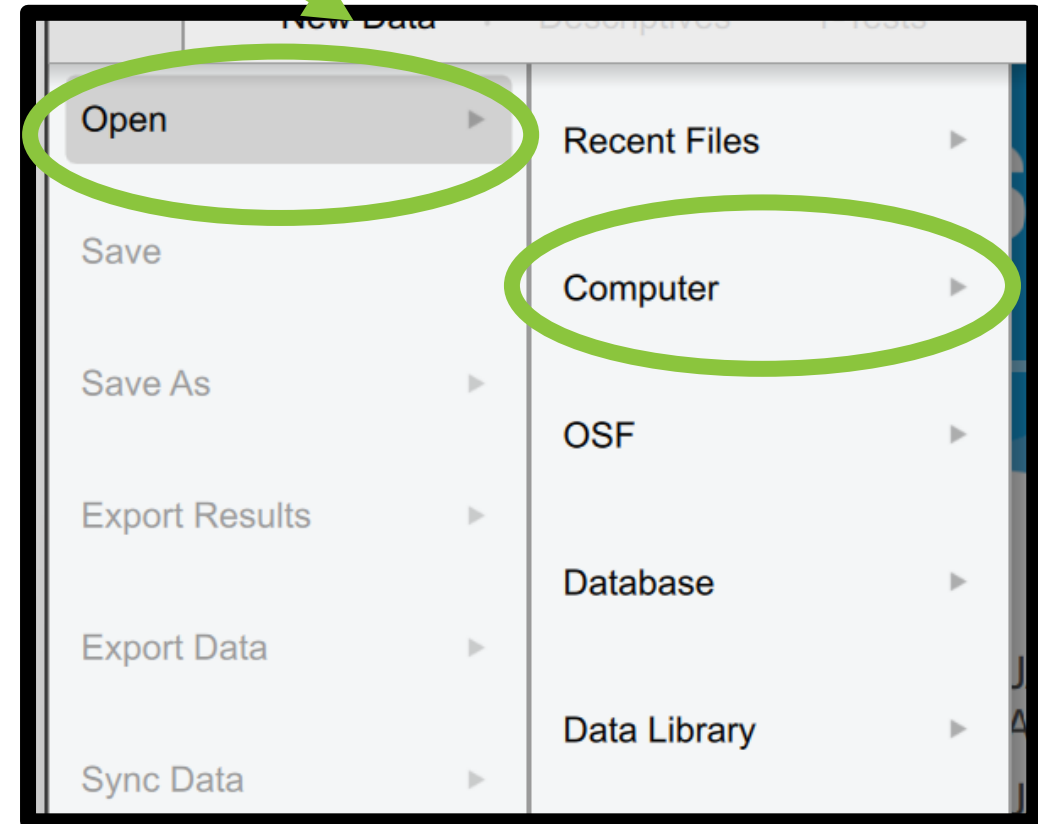
[Click to get latest version](#)

JASP is supported by the following institutions:








University of Amsterdam

Upload data

1. Under the 3-line menu, go to Open -> Computer -> browse
2. Find the folder that you saved your data in
3. Open the data file



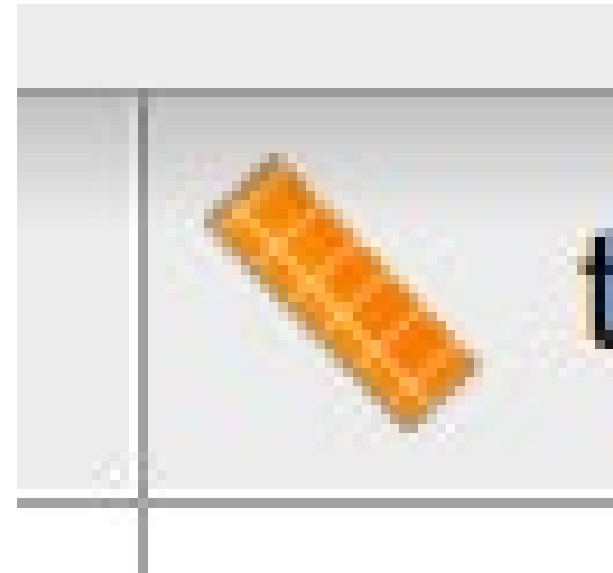
Does it look kind of like this?

	Edit Data	Descriptives	T-Tests	ANOVA	Mixed Models	Regression	Frequencie
▼	 subj	 group	 total_IDU	 total_key	 total_nonkey	 JOL	 test_:
1	6	1	10	3	7	7	8
2	7	1	7	1	6	6	7
3	9	1	15	3	12	8	6
4	11	1	12	5	7	3	7
5	13	1	3	2	1	7	10
6	24	1	14	8	6	6	7
7	26	1	8	4	4	5	8
8	28	1	2	0	2	5	5
9	31	1	10	2	8	7	9
10	32	1	23	7	16	6	8
11	34	1	16	6	10	7	7
12	36	1	8	5	3	8	9
13	38	1	4	2	2	5	6

NOTE: with different variables and numbers!

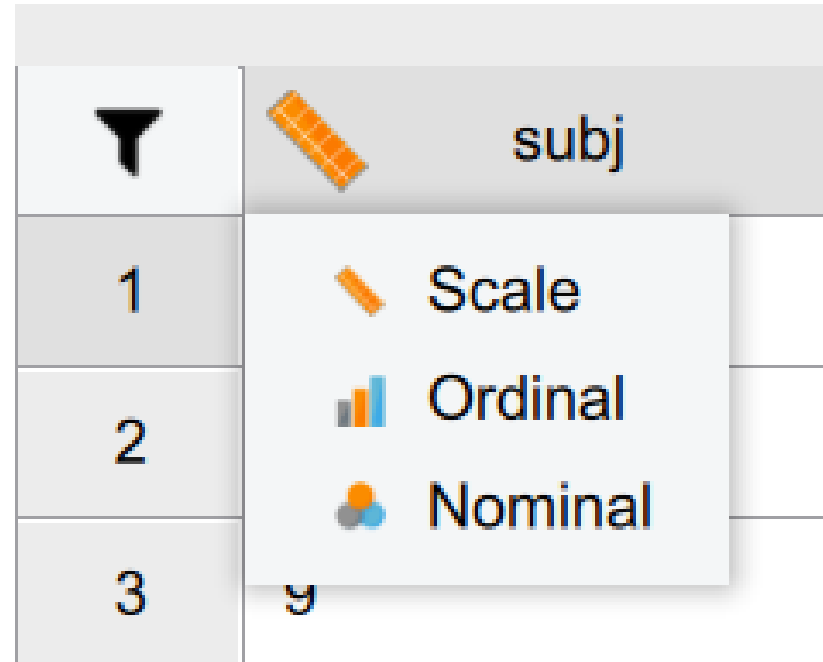
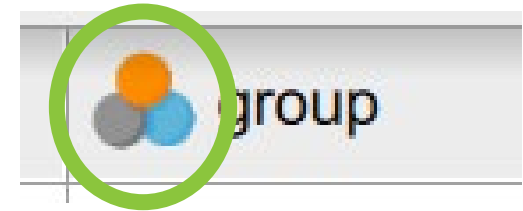
Set up raw data

1. Delete any rows of data that are not individual participants (e.g., mean calculations)
2. Make sure DVs are continuous (ruler icon)
**If they aren't see next slides



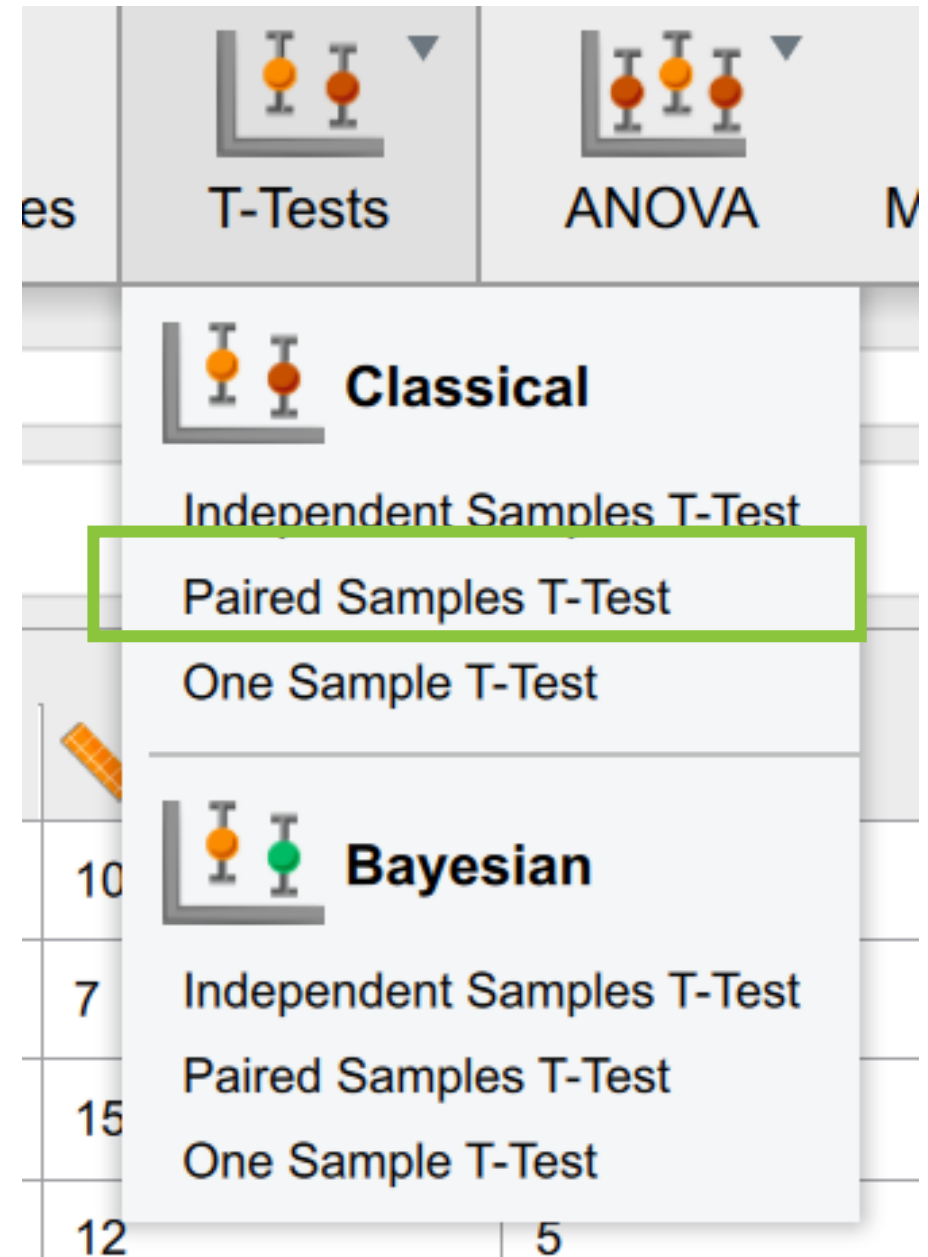
To change variables:

1. Click on the icon next to the variable name
2. **Scale = continuous**
3. **Ordinal = ordered data (like 1st, 2nd, 3rd places)**
4. **Nominal = categorical data (like groups)**



Run analysis

1. Click “t-tests”
2. Under **classical** select
 1. Paired samples t-test



Paired-samples t-test

1. Select (click on) your DVs from the left-hand side
2. Use this arrow to put it in the “Variable Pairs” box



Paired-samples t-test

1. You can put multiple pairs in here

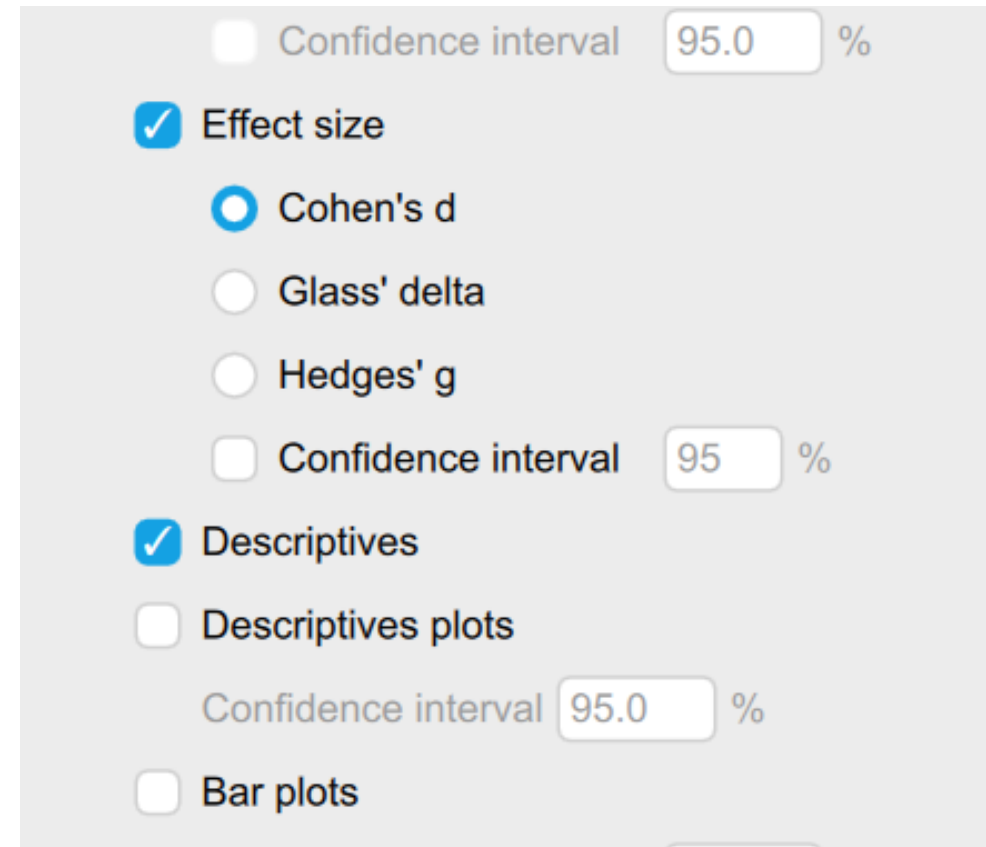
variable Pairs

engaging	effective
engaging	enjoyable
engaging	relevant



Paired-samples t-test

1. Scroll down and check these boxes
2. Effect size
 1. Cohen's d
3. Descriptives



Confidence interval 95.0 %

Effect size

Cohen's d

Glass' delta

Hedges' g

Confidence interval 95 %

Descriptives

Descriptives plots

Confidence interval 95.0 %

Bar plots

Does your output kind of look like this?

...with different numbers and variables...

Paired Samples T-Test

Paired Samples T-Test

Measure 1		Measure 2	t	df	p	Cohen's d	SE Cohen's d
engaging	-	effective	-5.422	213	< .001	-0.371	0.066
engaging	-	enjoyable	5.909	213	< .001	0.404	0.057
engaging	-	relevant	-4.811	213	< .001	-0.329	0.086

Note. Student's t-test.

Descriptives

Descriptives

	N	Mean	SD	SE	Coefficient of variation
engaging	214	4.014	1.396	0.095	0.348
effective	214	4.486	1.324	0.091	0.295
enjoyable	214	3.579	1.275	0.087	0.356
relevant	214	4.598	1.491	0.102	0.324

Great job!!