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# Reporting Results: Tables and graphics

Research Methods in Cyberspace, Behavior and e-Therapy

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# APA Style

## Introduction

### APA Style

#### References

#### Tables

#### Figures

- ▶ APA style is the style guide developed by the American Psychological Association. The latest version is the 7th edition (2019).
- ▶ The main purpose is to ease reading comprehension in the social and behavioral sciences and it is used in academia, scientific journals and handbooks of different fields.
- ▶ More details can be found in: <https://apastyle.apa.org/>.



- ▶ In this session we'll briefly revise basic aspects on making references and creating tables and plots following APA 7th Ed. guidelines.



# References

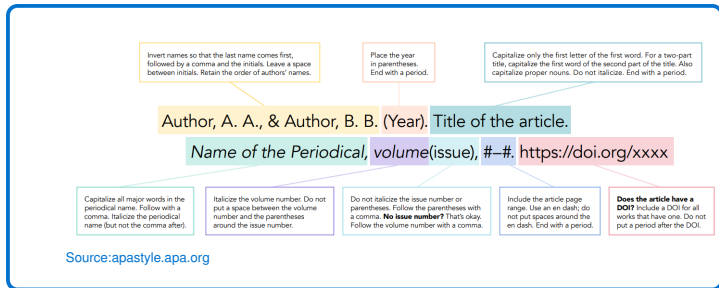
## Journal articles

### APA Style

### References

### Tables

### Figures



# References

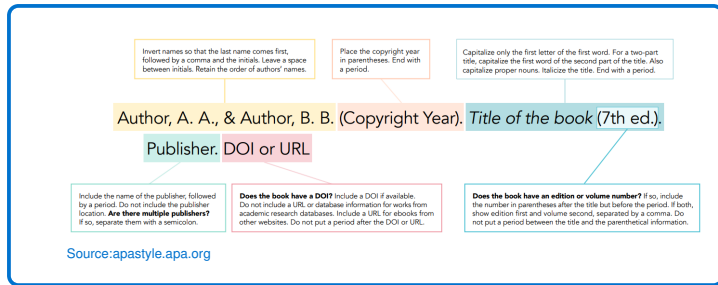
## Books

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### References

### Tables

### Figures



# References

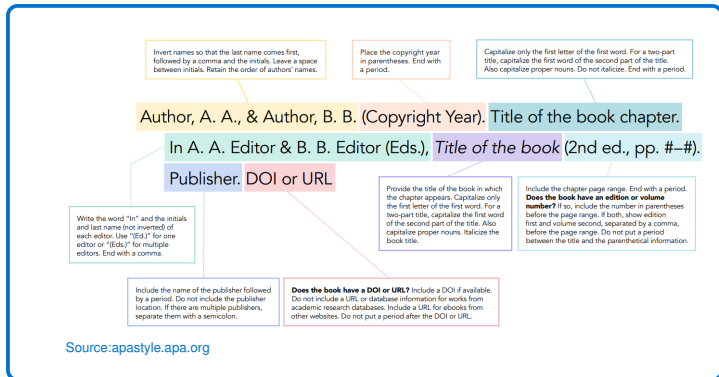
## Books Chapters

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# Tables

## Introduction

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Figures

- ▶ Sociodemographic description, correlation tables, ANOVA tables and regression models' summaries are some examples.
- ▶ The elements that compose a table are:
  - **Number:** it appears above the table title in bold font.
  - **Title:** one double-spaced line below the table number. Must be descriptive and capitalized in italic title case.
  - **Headings:** centered column and capitalized in sentence case.
  - **Body:** rows with 1, 1.5, 2 spaces; left-aligned to ease readability.
  - **Note:** general, specific, and probabilities. Placed below the table for describing contents of the table (abbreviations, p-values coding scheme, et cetera).
- ▶ In the following document you'll find a concise description on reporting quantitative results: <https://apastyle.apa.org/instructional-aids/numbers-statistics-guide.pdf>



# Tables

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**table number** → **Table 1**

**table title** → *Numbers of Children With and Without Proof of Parental Citizenship*

**stub headings:** heading that describes the leftmost column → **Grade**

**column spanner:** heading that describes the entries in two or more columns in the table body → **Girls** **Boys**

**decked heads:** headings that are stacked, often to avoid repetition in column heads → **With** **Without** **With** **Without**

**table spanner:** heading that covers the entire width of the table body, allowing for further divisions → **Wave 1**

**column heading:** heading that identifies the entries in just one column in the table body → **Wave 2**

**stub column or stub:** leftmost column of the table, usually lists the major independent or predictor variables → **3** **4** **5** **Total**

**cell:** point of intersection between a row and a column

**table body:** rows and columns of cells containing the primary data of the table

**table notes:** explanations to supplement or clarify information in the table body

*Note.* This table demonstrates the elements of a prototypical table. A general note to a table appears first and contains information needed to understand the table, including definitions of abbreviations (see Sections 7.14–7.15) and the copyright attribution for a reprinted or adapted table (see Section 7.7).

<sup>a</sup> A specific note appears in a separate paragraph below the general note.

<sup>b</sup> Subsequent specific notes follow in the same paragraph (see Section 7.14).

<sup>c</sup> A probability note (for *p* values) appears as a separate paragraph below any specific notes; subsequent probability notes follow in the same paragraph (see Section 7.14).

Grade	Girls		Boys	
	With	Without	With	Without
Wave 1				
3	280 <sup>a</sup>	240 <sup>b</sup>	281	232
4	297	251	290	264
5	301	260	306	221
Total	878	751	877	717
Wave 2				
3	201	189	210	199
4	214	194	236	210
5	221	216	239	213
Total	636	599	685 <sup>c</sup>	622

Source: [apastyle.apa.org](http://apastyle.apa.org)



# Tables

## Descriptive Analyses

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	type	N	Mean	SD	SE
education	bc	44	8.36	1.16	0.18
	prof	31	14.08	1.39	0.25
	wc	23	11.02	0.92	0.19
income	bc	44	5374.14	2004.33	302.16
	prof	31	10559.45	5422.82	973.97
	wc	23	5052.30	1944.32	405.42
women	bc	44	18.97	26.15	3.94
	prof	31	25.51	28.37	5.09
	wc	23	52.83	33.11	6.90
prestige	bc	44	35.53	10.02	1.51
	prof	31	67.85	8.68	1.56
	wc	23	42.24	9.52	1.98
census	bc	44	7944.66	1350.88	203.65
	prof	31	2574.35	1358.06	243.92
	wc	23	4340.70	559.93	116.75





# Tables

## Statistical tests

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	education	women	income	prestige	census
education	—				
women	0.06	—			
income	0.58 ***	-0.44 ***	—		
prestige	0.85 ***	-0.12	0.71 ***	—	
census	-0.82 ***	-0.23 *	-0.36 ***	-0.63 ***	—

Note. \*  $p < .05$ , \*\*  $p < .01$ , \*\*\*  $p < .001$



# Tables

## Summarizing models

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	Sum of Squares	df	Mean Square	F	p	$\eta^2$
type	17861.18	2	8930.59	10.92	< .001	0.19
Residuals	77667.42	95	817.55			



# Tables

## Summarizing models

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	<i>Dependent variable:</i>		
	Justification		
	(1)	(2)	(3)
Context	0.134 (0.128)	0.118 (0.115)	-0.562** (0.218)
Skepticism		0.201*** (0.028)	0.105*** (0.038)
Context:Skepticism			0.201*** (0.055)
Constant	2.802*** (0.089)	2.132*** (0.124)	2.452*** (0.149)
Observations	211	211	211
R <sup>2</sup>	0.005	0.198	0.246
Adjusted R <sup>2</sup>	0.0005	0.190	0.235
Residual Std. Error	0.929 (df = 209)	0.837 (df = 208)	0.813 (df = 207)
F Statistic	1.100 (df = 1; 209)	25.677*** (df = 2; 208)	22.543*** (df = 3; 207)

Note:

\* p<0.1; \*\* p<0.05; \*\*\* p<0.01



# Figures

## Introduction

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**Figures**

- ▶ All graphical displays other than tables are considered figures (barplots, radar plots, flowcharts, networks, maps, et cetera).
- ▶ Figures have the following basic components:
  - **Number**: it appears above the table title in bold font.
  - **Title**: one double-spaced line below the table number. Must be descriptive and capitalized in italic title case.
  - **Image**: Text in charts in sans serif between 8 and 14 points.
  - **Legend**: Within borders of the figure, capitalized words in title case.
  - **Note**: general, specific, and probabilities. Placed below the table for describing contents of the table (abbreviations, p-values coding scheme, et cetera).
- ▶ Before plotting consider the real (informative) value of the chart to decide whether it is necessary.
- ▶ Data visualization is an amazing field of Data Science that currently counts on a vast diversity of constantly evolving tools.



# Figures

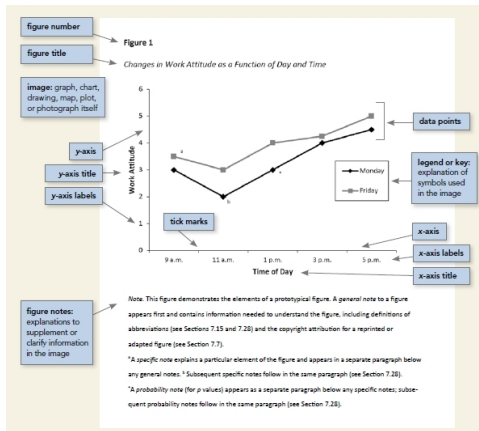
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Source: [apastyle.apa.org](http://apastyle.apa.org)



# Figures

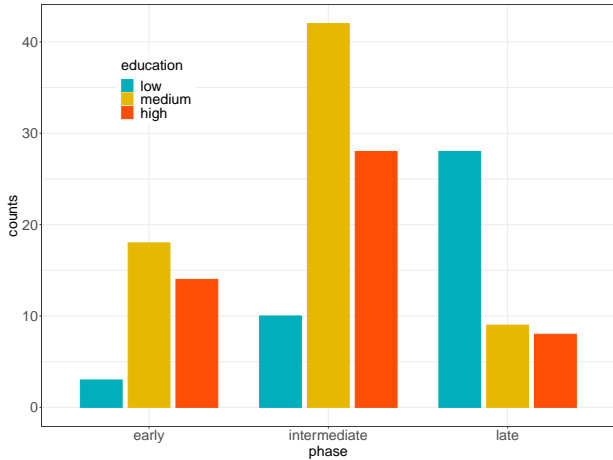
## Qualitative data

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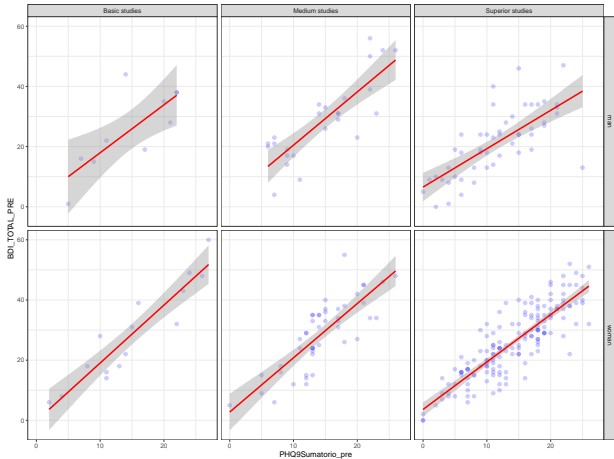
**Figures**



# Figures

## Quantitative data

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# Figures

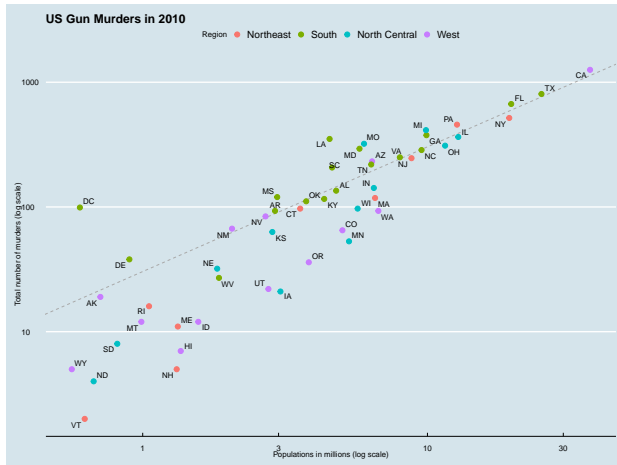
## Customizing your plots

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# Figures

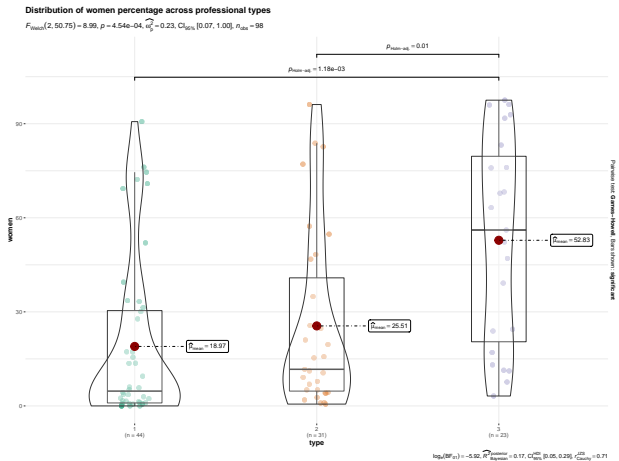
## Customizing your plots

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# Figures

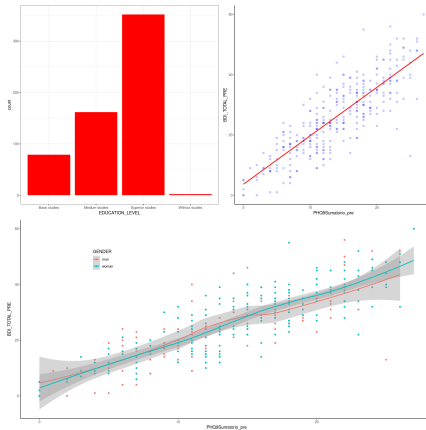
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