

Statistical Analysis

Part III:

Presenting Information and Conclusions

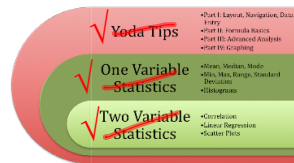
graphical representations | research report format | layout and design | statistical summaries

Present

You must analyse everything.

How you present, convince, or report is a different matter altogether.

TED ideas worth spreading



Present

Yoda Tips Part V



Us:



You:



Formatting

- Wrapping, shrinking, merging cells
- Shading, borders, gradients
- Number formatting

Present



Summarizing Analysis

Key Ideas:

1. The human brain cannot absorb information and create understanding if it can't "decode" what it's seeing.
2. The more energy spent on decoding, the less is left for understanding, following your argument, or being compelled or persuaded by that argument.

Conclusion:

Be succinct.

Present visually clear, summarized, and organized information. Be consistent with your layout design.

Good Examples



Somewhere in Between



Bad Examples



Present



Yoda Tips Part IV

Presenting & Graphing

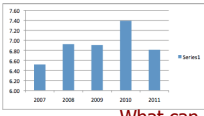
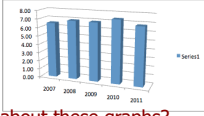
- What NOT to do with graphs



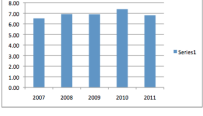
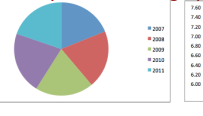
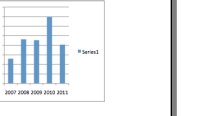
Present
 Enter
 Analyze
 Present

Yoda Tips Part IV

Presenting & Graphing

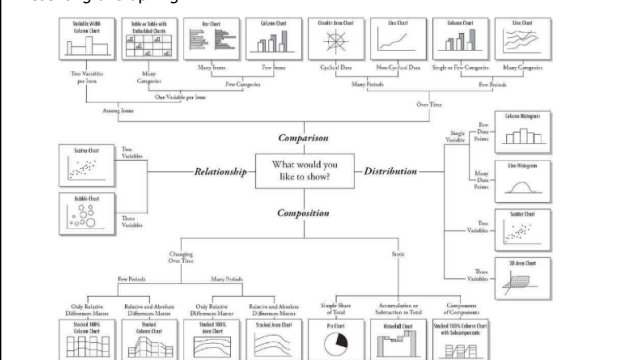
What can we say about these graphs?

Present
 Enter
 Analyze
 Present

Yoda Tips Part IV


Presenting & Graphing



Source:
 Nebraska Library Commission. (2010, Jan 13). *Presenting Data in Meaningful and Interesting Ways*. Retrieved Nov 23, 2010, from Slideshare.net: <http://www.slideshare.net/nebraskalibrary/acompas-live-presenting-data-in-meaningful-and-interesting-ways>


Present
 Enter
 Analyze
 Present

Yoda Tips Part IV




Us:


You:



Academic Integrity



More extensive than plagiarism



More extensive than plagiarism


Credibility

Verification

Citations


Present
 Enter
 Analyze
 Present

Yoda Tips Part IV




Us:

You:



Referencing and Citations



- Paste Excel Worksheet Object
- Making "styles"
- Using "styles" (instant tables of contents)
- Making your reference library
- In text citations (APA)
- Works cited (APA)

Must-know Features

You must know the following by the end of this process

Wrap up



You:

importing data
headers and footers
worksheet management
=mode()
cell formatting
cell protection
=concatenate()
=correl()
=int()
data filters
exporting to word
naming cells
custom number formats
layout conventions
sorting
Absolute Cell Reference
simple macros
forms and buttons
Relative Cell Reference
freeze panes
=average()

=quartile()
=rand()
paste special
graphing
conditional formatting
=if()
=stdevp()
=countif()
=slope()
=median()

Analyse



An Exercise

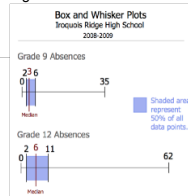
These are statistics Mr. Boulton compiled to support a thesis paper towards his Masters Degree. They were calculated from actual data. In a group, discuss the findings and draw conclusions.

Iroquois Ridge High School

Comparison of Absences to Final Grades (all subjects)
For the 2008 - 2009 school year

All Grades	
Overall r-coefficient	-0.40
Average Absences	5.73 per student, per subject
STDV of Absences	6.67 per student, per subject

Grade 9s	Grade 10s	Grade 11s	Grade 12s
r-coefficient	r-coefficient	r-coefficient	r-coefficient
-0.34	-0.34	-0.38	-0.46
Average Absences (μ)	Average Absences (μ)	Average Absences (μ)	Average Absences (μ)
4.10	4.67	6.09	8.33
STDV of Absences (σ)	STDV of Absences (σ)	STDV of Absences (σ)	STDV of Absences (σ)
4.48	5.14	6.63	9.00



What else might you want to know?