INSTITUTE *for* COMPOSER DIVERSITY

Data Analysis Report Template (v. 1.0)

General Analyses to Consider

Analysis	Focus	Graphical Communication	Areas of Utilization
Descriptive	Allows for segmentation of data into groupings. Can provide a high-level overview, as well as deeper analysis when applied to subgroupings of the larger dataset (i.e., Regional Grouping)	Histogram, Pie Chart	All areas
T-Test	Allows for the comparison of average values from either the same sample (dependent t-test) or different samples (indepdent t-test).	Histogram, Box-and-Whiskers Chart	Comparisons of two groups (e.g., Public vs. Private Universities)
ANOVA	Analysis of Variance - allows for the comparison of many means from same or different samples. This test allows for the division of variability into *systematic* and *random* factors.	Box-and-Whiskers Chart, Grouped Histogram	Comparisons of many groups (e.g., LAO Groupings)
Time Series Analysis	Allows for the analysis of data points indexed in time order, helping to clarify trends over time or systematic behavior within a given timeframe.	Autocorrelation Chart, Rose Diagram	Performance & Programming
Regression Analysis	Allows for the identification of variables within the data that share a unique relationship with a defined outcome measure (e.g., "We find that the gender of the conductor has a unique relationship to the gender of the composer programmed such that a female conductor is more likely to program a femal composer than a male.")	Scatter Plot, Regression Table	Programming & Performance

Report Title

Clear, easily understandable, and useful to both the casual reader and the researcher/expert.

- "Orchestral Programming - 2019/2020 Season"
- "CBDNA Performance Trends - 2019/2020 Academic Year"

Report Framing

This allows us to communicate what is (and isn't) included in both the data we collected and the analysis we performed. We can also provide context within our sampling (e.g., sources omitted) or analysis (e.g., methodologies used). This also provides a place to link (or mention) reports or data sources that intersect with the data in the report. This should not be dynamically generated from the dataset, but should be wordsmithed in conjunction with the analysis.

The reader should understand the "who, what, where, how" of the report if they only read this section.

Overall Findings

This is the broadest level of analysis. Here, population- or sample-level information should be conveyed as clearly and concisely as possible. **Both** graphical and quantitative data should be communicated, but chart-type and specific aesthetics can (and should) change depending on the analyzed data.

The reader should understand the general findings of the analysis if they read only this page. It should be made especially explicit if any notable intersections, inferences, or findings are included in the report (e.g., "LAO Group 2 Orchestras Program More Diversely Than All Other Groups").

- **Detail Findings:** These will serve as areas to highlight interesting datapoints or trends present within the broadest analysis of the data. *For instance:* Highlighting the number of underrepresented composers in a given year as it compares to previous years (with links/references to those resources).

  These can include graphs/tables of their own - depending on the findings.

This section should encompass all variables of interest within the analysis presented as they exist within the overall population. Examples include:

- **Orchestral Programming**
  - Overall division of composer demographics
  - General breakouts (e.g., stacked histogram) within all categories of interest (e.g., LAO Groupings)
- **Wind Band Performance**
  - Overall division of composer demographics.
  - Chronological appearance of works (i.e., highlighting a "Black History Month" effect)
- **Art Song**

    - Overall division of composer demographics
    - General breakouts (e.g., stacked histogram) within all categories of interest (e.g.,)

Specific Findings

This is a more specific, focused level of analysis. Here, we work through each category of analysis and show the warp-and-weft of the variables as they appear across our data. Using embedded links (within PDFs), notable findings should be connected with the overall findings that they support.

- Using the above example of "LAO Group 2 Orchestras Program More Diversely Than All Other Groups," the Specific Findings for LAO Group 2 would link back to that text within the Overall Findings.
- The grouping variable here should be the second-level organizational framework -- the "bins" of the data -- that have been identified for analysis. Examples include:
    - **Orchestra** - LAO Groupings, Regions
    - **Wind Band** - States, Regions, University Size (where applicable)
    - **Choir** - States, Regions, Conference (ACDA Regions)

Appendices

This can include information describing findings at the most specific level available within the data. It should be more compact, as it is intended for detailed reference. This can largely be dynamically generated from analysis data/findings within RStudio. Text will be boilerplate, with only source-specific variables changing from one entry to the next (e.g., MS Office MailMerge).

The reader should understand the analyses performed as they exist at the greatest level of detail within the data analyzed.

Where available appendices should also include links to online locations for data and/or code repositories.

Organizational Guidelines

Each genre or ensemble type should include distinctive graphical/color palette differences to make them easier to distinguish one-from-another. Potential solutions include:

- **Color Palette**
    - Orchestra: Red
    - Wind Band: Blue
    - Choir: Green
    - Chamber Music: Purple
    - Art Song: Orange
- **Logo**
    - Introduce a sub-type logo or letter/wordmark, overlaid onto the compact ICD logo (see below) in an easily viewable portion of each page (upper or lower RH corner).


ICD

INSTITUTE for COMPOSER DIVERSITY

Report Header Material

Report Title

Ensemble / Genre Focus

Report Framing (General)

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Overall Findings

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Chart Description

Detail Findings 1

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Detail Findings 2

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Detail Findings 3

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Table 1

Summary of Studies Included in Meta-Analysis on the Effectiveness of Rocking Out Like No One's Watching (ROLNOW)

Study	*N*	Cohen's *d*	*SD*
Atashin (2013)	384	0.86	0.63
Dumile & Jackson (2015)	176	1.21	0.95
Garcia, Homme, Oliveri, & Bjork (2014)	231	0.72	0.64
Iyer, Lehman, & Sorey (2014)	406	1.14	0.97
Onuki, Agata, & Hamamoto (2014)	127	0.63	0.41

Figure 1. Sample APA table from the APA Style Blog.

Table Description

Report attribution and preparation information

Report Footer Material

Specific Findings 1

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Specific Findings Detail 1

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Specific Findings 2

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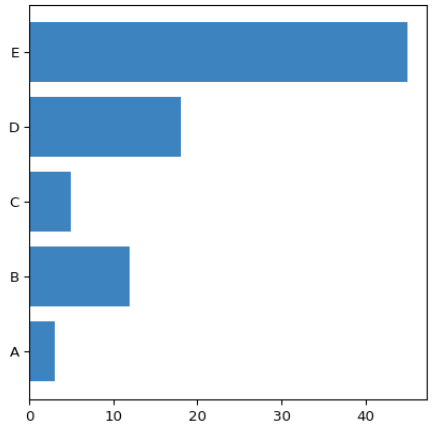
Appendix

Highest Level of Detail

Data Source A



Data Source A Findings

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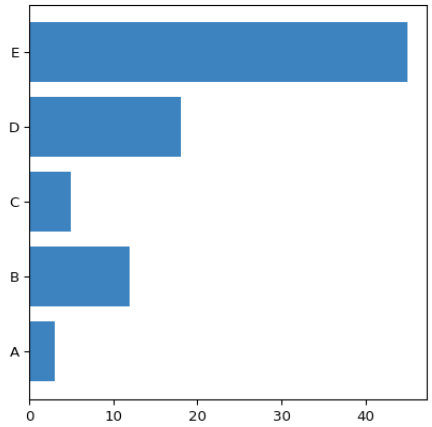
Table 8

Means and standard deviations for attractiveness as a function of a 2(gender) X 3(alcohol) design

	alcohol							
	2 Pints		4 Pints		None		Marginal	
gender	*M*	*SD*	*M*	*SD*	*M*	*SD*	*M*	*SD*
Female	62.50	6.55	57.50	7.07	60.62	4.96	60.21	6.34
Male	66.88	12.52	35.62	10.84	66.88	10.33	56.46	18.50
Marginal	64.69	9.91	46.56	14.34	63.75	8.47		

Note. *M* and *SD* represent mean and standard deviation, respectively.

Data Source B



Data Source B Findings

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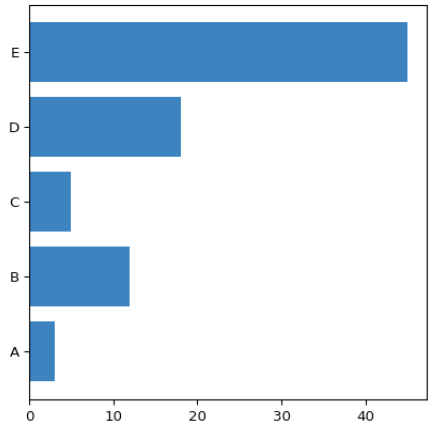
Data Source C



Data Source C Findings

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Report Footer Material