Using Data: Generating Compliance Value from Data

Masterclass Series (Class 2) March 3rd, 2021

https://events.ethisphere.com/events/data-analytics-masterclass-series/





GOOD, SMART, BUSINESS, PROFIT.



Thank you for joining!
Before we get started...

Q&A

Please submit your questions using the Questions feature in your Zoom Experience.

CHAT

Need assistance? The Chat feature will be open throughout the webcast.

RECORDING & PPT

Today's presentation, recording and additional resources will be provided via email after the webcast.

DON'T FORGET

Join us for the extended masterclass series!

March 17th | Practical Data Analytics: Deep
Dives Into Specific Use Cases

Agenda

- Introductions
- Class 1 Recap
- Data-Driven Compliance Value
 - Methodology
 - Audience
 - Process Considerations
- Q&A



Speaker



Andy Miller

Chief Analytics Officer @ Lextegrity

Helping organizations mitigate risk across the enterprise, specifically through employing advanced analytics to expose fraud, bribery, corruption, conflicts of interest and sanctions violations within enterprise data.

Contact me @ amiller@lextegrity.com

Learn more @ https://www.lextegrity.com/

Speaker



Kara Bonitatibus

Head of Product @ Lextegrity

Helping organizations mitigate risk across the enterprise, specifically through employing advanced analytics to expose fraud, bribery, corruption, conflicts of interest and sanctions violations within enterprise data.

Contact me @ kbonitatibus@lextegrity.com

Learn more @ https://www.lextegrity.com/

The Lextegrity & Ethisphere Partnership

Knowledge & Best Practices Sharing
 https://ethisphere.com/what-we-do/lextegrity/

Data Analytics Working Group

 Integrity Analytics Collective <u>https://www.lextegrity.com/collective</u>



Lextegrity's Mission

Data-Driven + Intuitive + Integrated

FIRST GENERATION



INTEGRITY GATEWAY

Cross-Risk
Pre-Approval
Workflows

Connecting Approval Information to Spend





CONTINUOUS RISK FEEDBACK

Spend Filtered Through Risk Algorithms

Intuitive, Multilingual, Desktop & Mobile



Continuous Monitoring on All Spend



Agenda

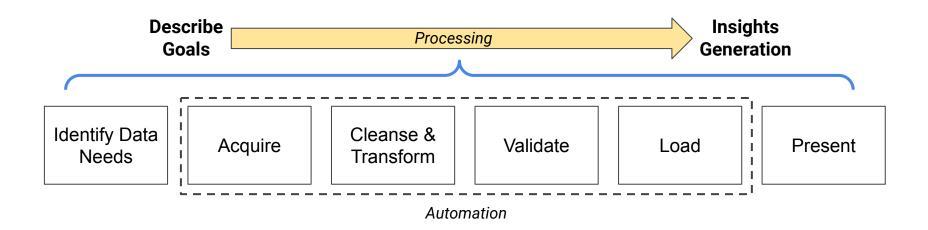
- Introductions
- Class 1 Recap
- Data-Driven Compliance Value
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The goal is to turn data into information, and information into insight.

CARLY FIORINA, FORMER CEO OF HP



Raw Data to Information to Insights



A replay of this Masterclass is available here:

https://ethisphere.com/insight/lextegrity-masterclass-series/





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Data-Driven Compliance Value









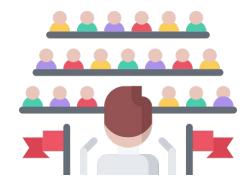


Reactive to Proactive

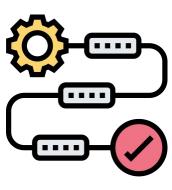
But How?



Methodology



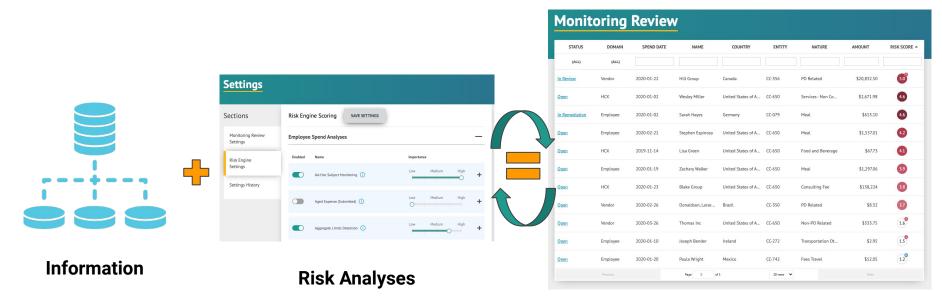
Audience



Process



Transaction Monitoring



Prioritized Transactional Monitoring





The greatest value of a picture is when it forces us to notice what we never expected to see.

John W. Tukey, Statistician







Data Visualization



Visual Communication is Primal

How many 4's can you spot?

58769801691000986169997418502703793722831397
61099022286261322719051009891323328020380939
61804535207535758818349175318999391123816671
16827052377603356319297002753722518788124977
27152883560996973153688560719205557923739266
96526905416783677770518902891232576750502858
91912766707757810236253890308976285259022818
33262248592595330593070353109554351965706267
22539080085791250215024063640217620870567260







Data Visualization

Visual Communication is Primal

Now, how many do you see now?

58769801691000986169997**4**18502703793722831397
61099022286261322719051009891323328020380939
6180**4**5352075357588183**4**9175318999391123816671
1682705237760335631929700275372251878812**4**977
27152883560996973153688560719205557923739266
96526905**4**16783677770518902891232576750502858
91912766707757810236253890308976285259022818
332622**4**859259533059307035310955**4**351965706267
2253908008579125021502**4**0636**4**0217620870567260







Data Visualization

Visual Communication is Primal

Summary statistics for the table:

- The average x value is 9 for each dataset
- The average y value is 7.50 for each dataset
- The variance for x is 11 and the variance for y
 is 4.12
- The correlation between x and y is 0.816 for each dataset
- A linear regression (line of best fit) for each dataset follows the equation y = 0.5x + 3

	I	II		III		IV	
х	у	х	у	х	у	Х	у
10.0	8.04	10.0	9.14	10.0	7.46	8.0	6.58
8.0	6.95	8.0	8.14	8.0	6.77	8.0	5.76
400		400	-2-4		40 -4	-0-0	

In terms of statistical measures, these four datasets appear to be pretty similar!



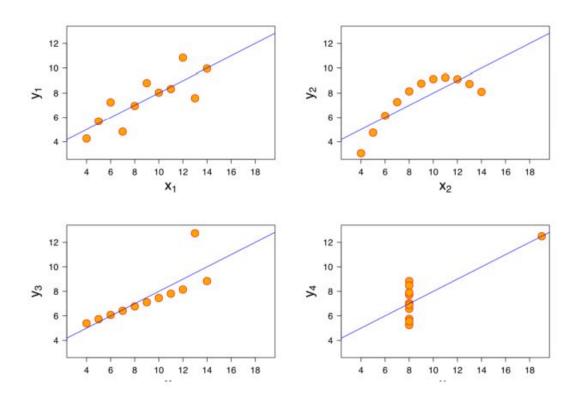
Each dataset has eleven (11) x & y points.







Data Visualization



This is known as

Anscombe's Quartet



Data Visualization

The contexts of data visualization...

Investigative

Reporting





Insights









Reporting

- Periodic in Nature
- Aggregate Dimensions
- Aggregate Measures
- Filterable by Key
 Dimensions
- Comparative
- "Dashboard" format

Data Visualization





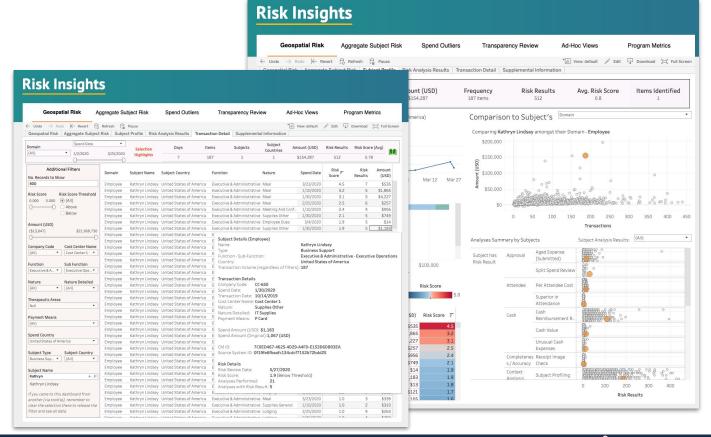




Data Visualization

Investigative

- Quick lookup
- Robust filtering
- "Profile" views

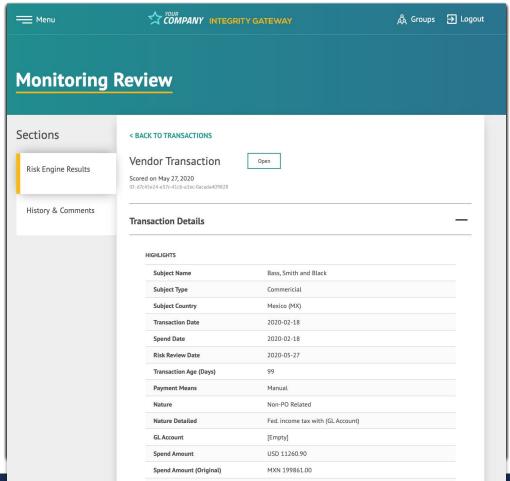






Insights

- Quickly identify/discover trends or outliers
- Variety of visualization forms
- Interactive
- Ability to drill-down
- Maintain analysis flow



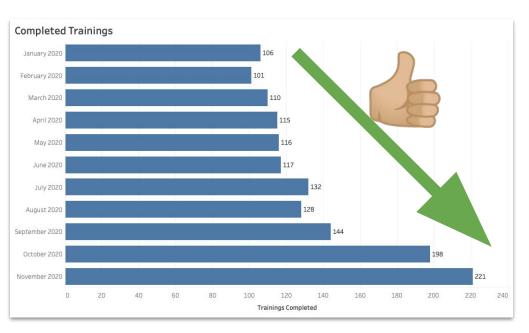






Data Visualization

Data Points vs. Analytics vs. KPIs



Training Assign	. Training Name	Business U	Employee Name	Employee Hire Date	Training Completed
1/7/2016	Authorization and Approval Policy	Technology	Jack O'Briant	1/6/2016	Yes
	Employee Code of Conduct	Technology	Darren Powers	1/3/2016	Yes
1/8/2016	Employee Code of Conduct	Services	Lycoris Saunders	1/6/2016	Yes
	Travel and Entertainment Training	Technology	Phillina Ober	1/4/2016	No
1/10/2016	Travel and Entertainment Training	Technology	Maria Etezadi	1/6/2016	Yes
1/12/2016	Employee Code of Conduct	Technology	Mick Brown	1/5/2016	Yes
			Vivek Sundaresam	1/7/2016	No
1/13/2016	Employee Code of Conduct	Technology	Melanie Seite	1/9/2016	Yes
1/14/2016	Employee Code of Conduct	Technology	Seth Vernon	1/11/2016	Yes
1/15/2016	Authorization and Approval Policy	Technology	Anthony Jacobs	1/10/2016	Yes
			Brendan Sweed	1/14/2016	No
			Chris Selesnick	1/13/2016	Yes
1/16/2016	Employee Code of Conduct	Technology	Natalie DeCherney	1/13/2016	Yes
1/17/2016	Employee Code of Conduct	Technology	Erica Hackney	1/15/2016	Yes
1/18/2016	Employee Code of Conduct	Technology	Brian Dahlen	1/13/2016	Yes
			Delfina Latchford	1/16/2016	No
			Michael Moore	1/13/2016	Yes
1/20/2016	Employee Code of Conduct	Services	Toby Swindell	1/19/2016	No
1/21/2016	Authorization and Approval Policy	Technology	David Wiener	1/18/2016	Yes
1/23/2016	Employee Code of Conduct	Technology	Tom Boeckenhauer	1/21/2016	Yes
1/25/2016	Employee Code of Conduct	Services	Mark Van Huff	1/20/2016	Yes
1/26/2016	Authorization and Approval Policy	Technology	Muhammed MacIntyre	1/20/2016	No
	Employee Code of Conduct	Technology	Hunter Lopez	1/20/2016	Yes
			Xylona Preis	1/20/2016	Yes
1/27/2016	Employee Code of Conduct	Technology	Speros Goranitis	1/23/2016	No
1/28/2016	Employee Code of Conduct	Technology	Ionia McGrath	1/23/2016	Yes
1/29/2016	Authorization and Approval Policy	Technology	Carol Adams	1/26/2016	Yes
1/31/2016	Travel and Entertainment Training	Technology	Shirley Daniels	1/26/2016	Yes
2/2/2016	Employee Code of Conduct	Technology	Ed Jacobs	1/27/2016	No
			Liz Carlisle	1/31/2016	No
2/3/2016	Employee Code of Conduct	Services	Jasper Cacioppo	1/28/2016	Yes
		Technology	Bradley Drucker	2/1/2016	Yes
2/4/2016	Employee Code of Conduct	Technology	Mike Vittorini	1/30/2016	No
2/6/2016	Employee Code of Conduct	Technology	Tom Boeckenhauer	2/3/2016	Yes
	Travel and Entertainment Training	Technology	Cynthia Delaney	2/2/2016	Yes
2/8/2016	Authorization and Approval Policy	Services	Mark Haberlin	2/4/2016	Yes





Vacation

Data Visualization

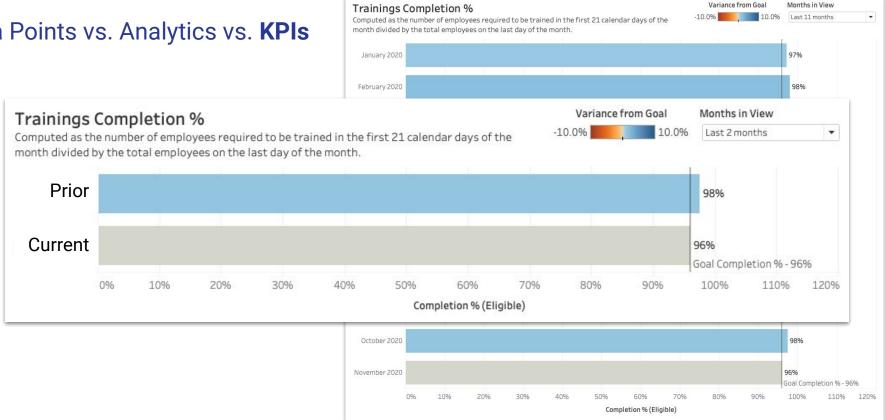
Data Points vs. **Analytics** vs. KPIs





Data Visualization

Data Points vs. Analytics vs. KPIs





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Audience

Who ...



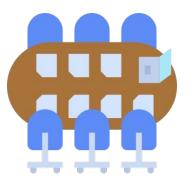




Risk Professionals



Business Leaders



Executives / Board



... and, why?

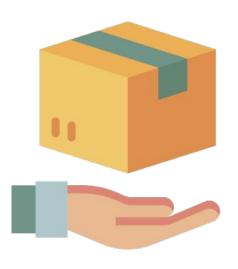
- Do they want the ability to explore the details of the data and perhaps create or inform their own analyses?
- Are they looking for specific trends or patterns in the data?
- Are they using the data to support other activities (e.g., audit, compliance)?
- Do they need or want a curated view of their data in a specific context?
- Are they looking for KPIs or metrics?







.... and, how?



- How will users access the data?
- How frequently?
- How will they use the data?



There is no such thing as information overload. There is only bad design.

Edward Tufte













Prioritizing design or imagery over accuracy

Disregarding common associations or expectations

Choosing the wrong type of visualization

Making confusing correlations





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Process



Implement framework / governance for making use of your data



Develop workflow to capture data analysis process

- Document follow-up
- Document adjustments to analyses based on feedback



Root cause analysis process





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Questions?

Get your **Linked** in badge

for today's session here: https://bit.ly/3q94uEt



