



Visualizing Event Data in Your Business: A Case Study

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Heartland Oracle Users Group

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Presenter

- Arthur Dayton – Senior Consultant
 - Speaker
 - Teacher
 - Education Chair IOUG North American Oracle Spatial and Graph Special Interest Group
 - Contributing Member to ODTUG BI Community committee
 - Dad to 2 boys



Vlami Software Solutions

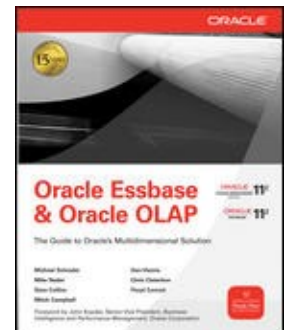
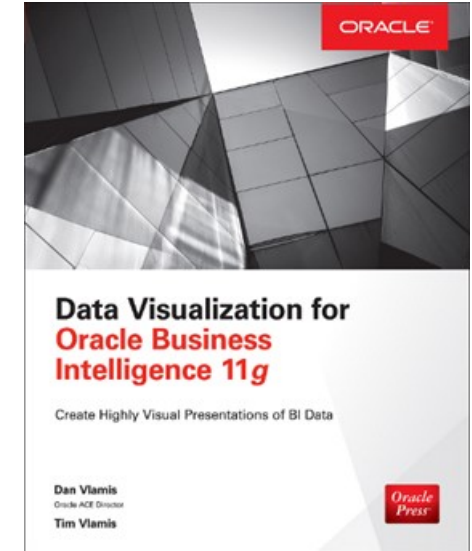
- Vlami Software founded in 1992 in Kansas City, Missouri
- Developed 200+ Oracle BI and analytics systems
- Specializes in Oracle-based:
 - Enterprise Business Intelligence & Analytics
 - Analytic Warehousing
 - Data Mining and Predictive Analytics
 - Data Visualization
- Multiple Oracle ACEs, consultants average 15+ years
- www.vlami.com (blog, papers, newsletters, services)
- Co-authors of book “Data Visualization for OBI 11g”
- Co-author of book “Oracle Essbase & Oracle OLAP”
- Oracle University Partner
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Abstract

Individual events affect your business. So why is it that we always seem to look at sums and averages?

In this case study, we will examine the application of a business intelligence tool on measuring the safety of the transportation industry. It's all about events that take place in a traffic corridor, at specific points in time.

We will show how we built a custom visualization to display these events. Of course, we all want to decrease accidents, but if we cannot track individual events, how can we ensure that we are making our roadways safer?

Come hear (and see!) how we are handling event data in Oracle Business Intelligence in a live demo of a custom-built system.

Case Study - A particular instance of something used or analyzed in order to illustrate a thesis or principle.



Analytics tends to focus on aggregates

- Aggregate measures are important but operational reporting often needs details.
- Details tend to be expressed in tables
- Visualizations can help bring context but specific operations can have very specific visualization needs that don't come out of the box



“Best Practice”

- Attitude of IT is often bend the organization to the software under the guise of “best practice”
- Don’t customize
- Change business processes to conform with software
- Sometimes organizations have a need for visualizations that don’t come out of box



Scenario

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“I want you to find a bold and innovative way to do everything exactly the same way it’s been done for 25 years.”



Scenario

- We have a report that is manually prepared for 100's of areas
- The report is an industry standard way of looking at something
- There isn't a way to create the visualization with OBI out of the box
- There is significant potential time savings if the report can be automated
- Not even a slight chance you will convince operations to change report and you might be fired for even suggesting it

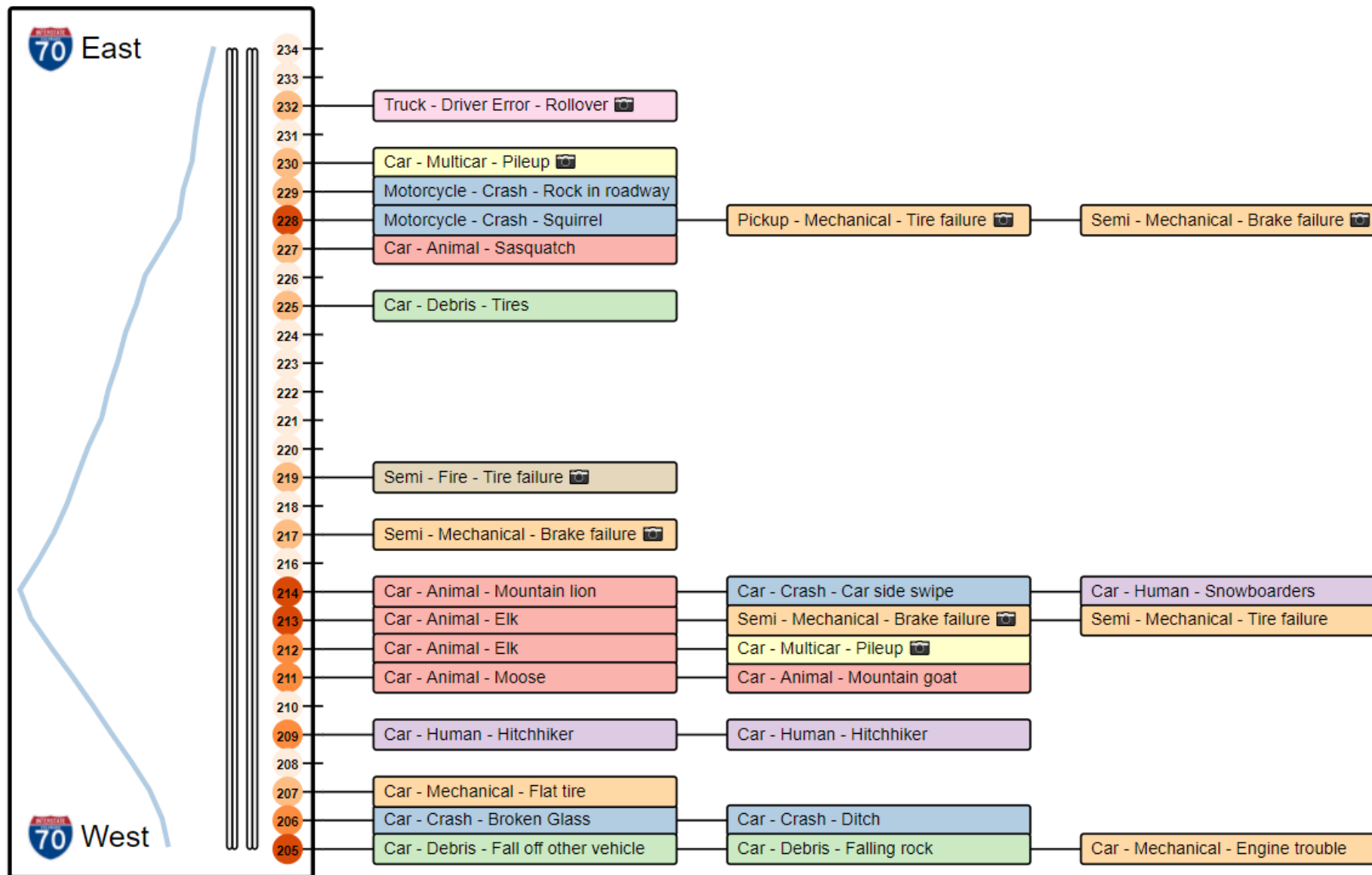


Business Case

- 300 – 400 individual reports being prepared monthly
- Approximately 1 hour per report
- If we assume \$50 per hour cost that's \$15-\$20k month labor and lost opportunity to do something else
- Annualizes to between \$180k-\$240k
- Format of report isn't negotiable (according to business)
- Several hundred jpg images that would be extremely hard to reproduce that are a part of report and need to be used



What are we trying to replace?





Give Them What They Want



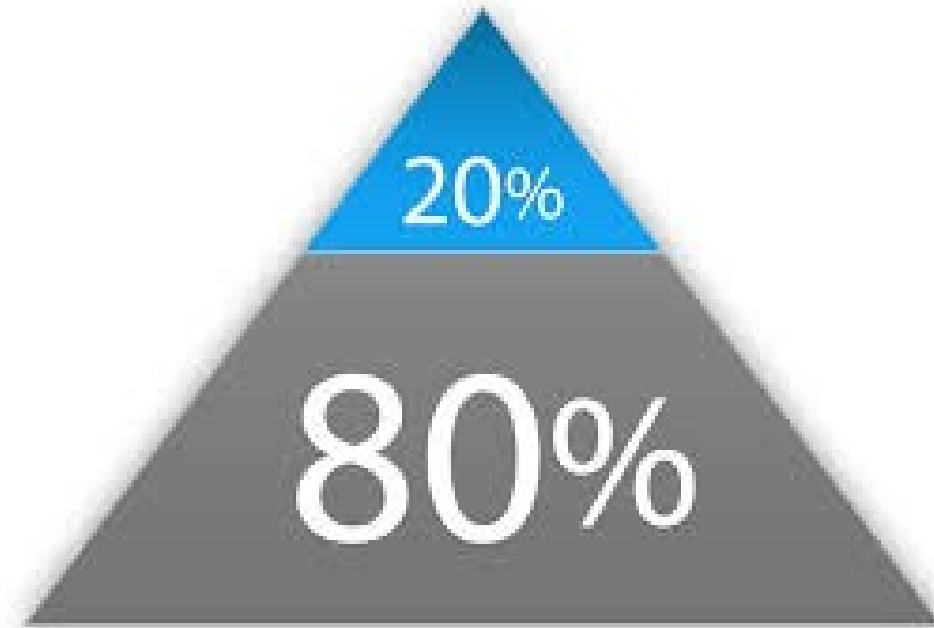
Let's not throw the baby out
with the bath water.

Use What We Have



What do we have with OBI

- Data
- Metadata
- Connectivity
- Delivery
- Security
- Scalability
- Extensibility
- Familiarity
- Missing - the thing





How do we get the rest of the way?

- Make what we need available
- Create an analysis to make data available
- Create what we need

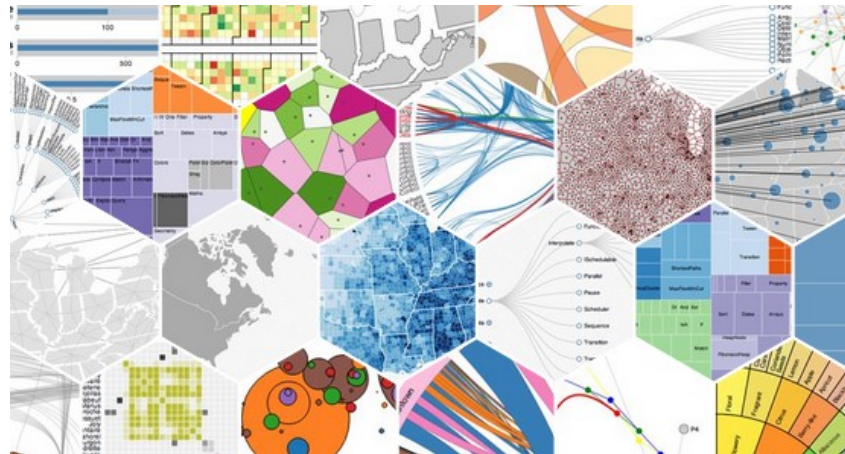


Where do we get what we need?

Open Source



W3.CSS
Faster and Better
Responsive Web Sites





Simple Example

Table

xyz

E9 Manager Name▲▼	E1 Sales Rep Name	1- Revenue
Anne Green	Larry Stephens	6,161,433
	Shannon Hennessey	4,484,281
Chris Jones	Charles Brooks	4,666,157
	Edilberto Mandani	5,173,504
Helen Mayes	Angela Richards	1,495,656
	Chris Jones	9,839,661
James Dowel	Fred Webster	1,960,766
	Jean-Michel Beauvis	4,313,803
Michele Lombardo	Aurelio Miranda	3,989,837
	Helen Mayes	12,620,584
	Monica Velasquez	24,656,359
	Paul Atkinson	4,421,362
	Sophie Bergman	24,272,569
Monica Velasquez	Anne Green	10,645,714
	James Dowel	6,802,426

Narrative

Anne Green

Chris Jones

Helen Mayes

James Dowel

Michele Lombardo

Monica Velasquez

Paul Atkinson

Peter Marzec

Russell Wolin

Sophie Bergman

Steve Atkins

Larry Stephens

Charles Brooks

Angela Richards

Fred Webster

Aurelio Miranda

Anne Green

Tim Rector

Bob Grant

Jack Benetti

Peter Marzec

Jonny Harston

Shannon Hennessey

Edilberto Mandani

Chris Jones

Jean-Michel Beauvis

Helen Mayes

James Dowel

Rozalia Girel

Prakash Thekkate

Russell Wolin

Roger Wray

Monica Velasquez

Steve Atkins

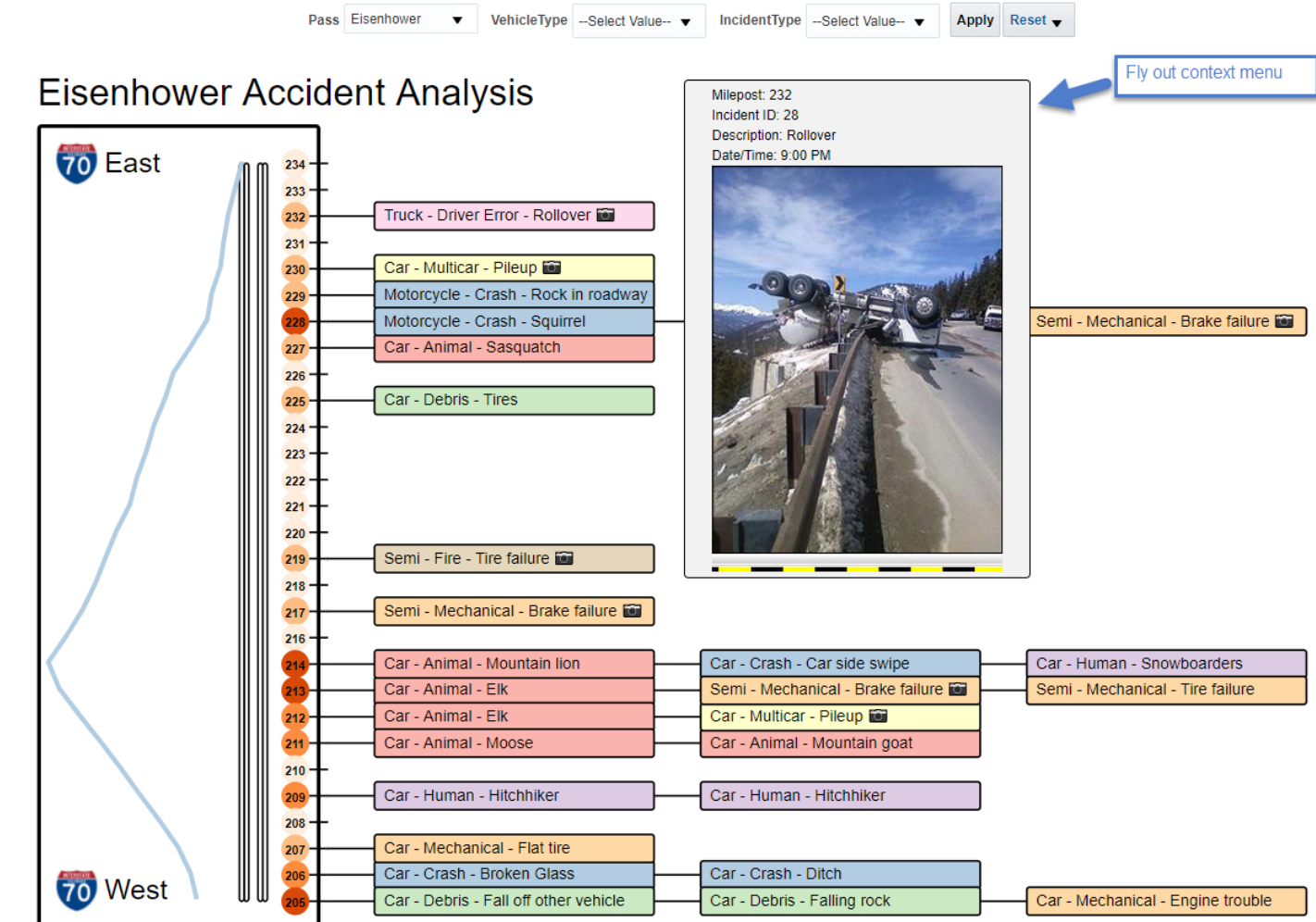
Sandra Carrey

Paul Atkinson

Sophie Bergman



Not so Simple Example



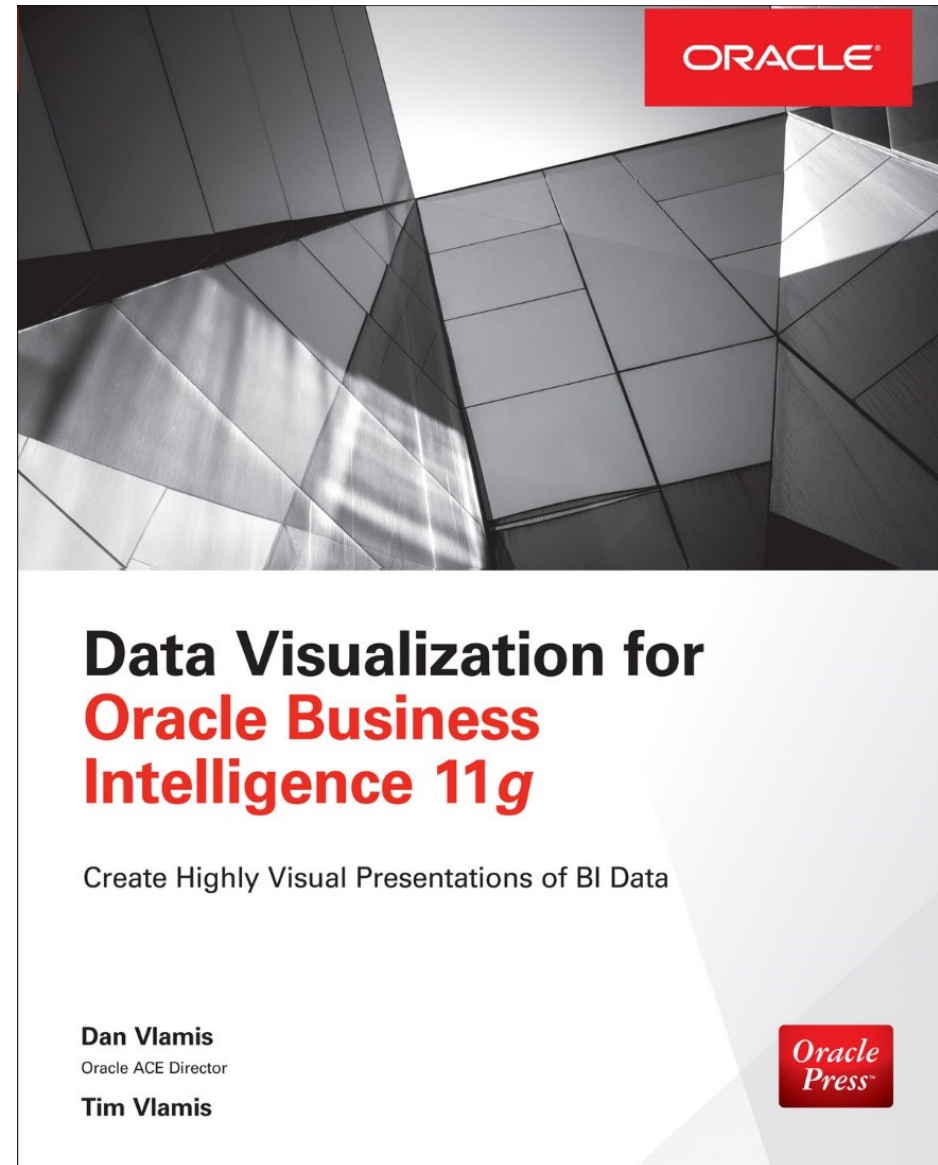


Demo



Drawing for Free Book

Add business card to basket
or fill out card





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Questions?

