

# Leveraging Data & Analytics to Drive Marketing Strategies



Wade Tibke
Sr. Director, Marketing
@Tableau for 8 years







# OFFICES

We started in the computer science department at Stanford, and soon after, we established our home base in Seattle. Now we are rapidly expanding all over the globe.



### What is analytics?

Analytics is the measurement of movement toward your business goals



### Lots of challenges

- Big data
- Diverse sources
- Rapidly changing tools
- Subtle differences in need amongst the team





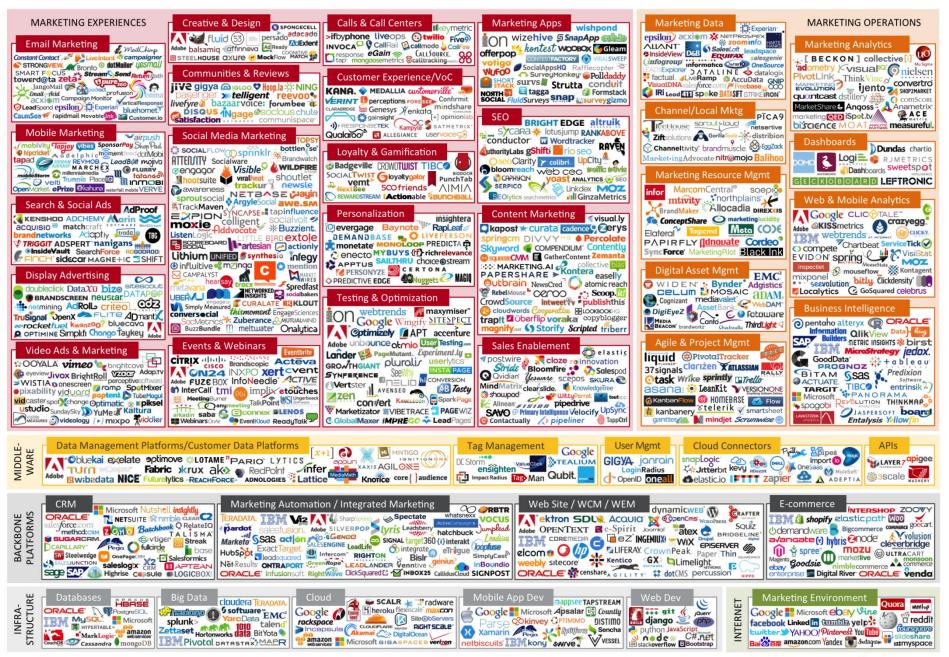




Advice #1: Choose your metrics wisely.



### chiefmartec.com Marketing Technology Landscape

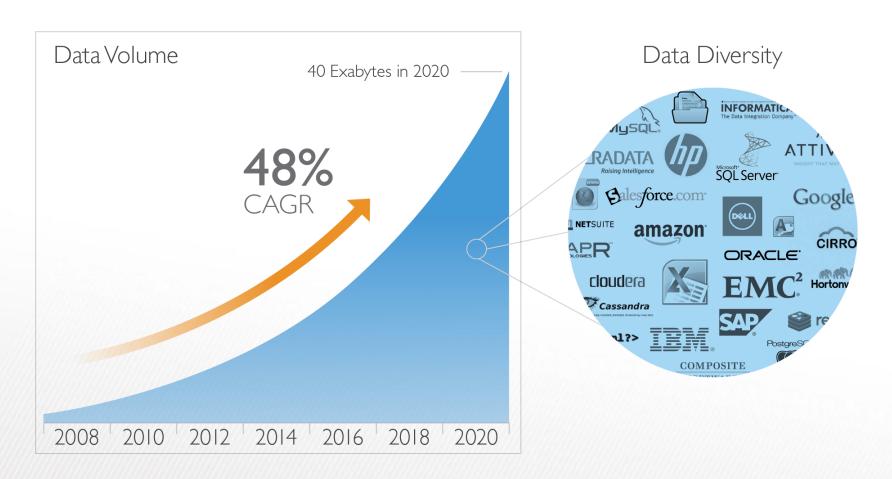


## Advice #2: Just get started.



### We're not the only ones who are overwhelmed

Everyone is trying to make sense of the data deluge ("big data")



- 1. 10% improvement in marketing driven sales (versus 1.1% average)
- 2. 10% increase in customer retention (versus 2.1 average and -3.2% for laggards)

- 1. Identify new areas to grow awareness/leads and revenue
- 2. Gain actionable insights to drive conversion

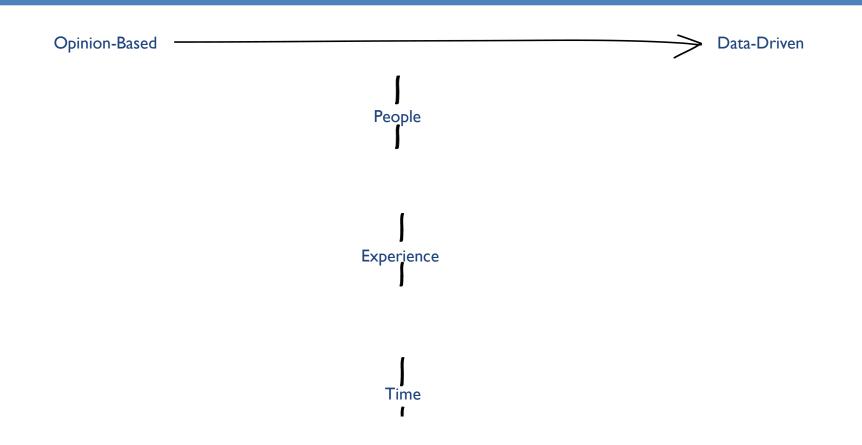
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#### Typical Marketing Objectives

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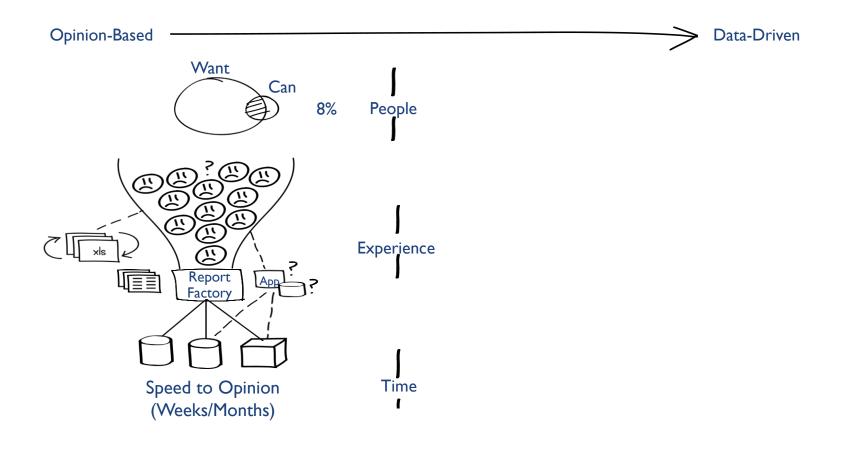
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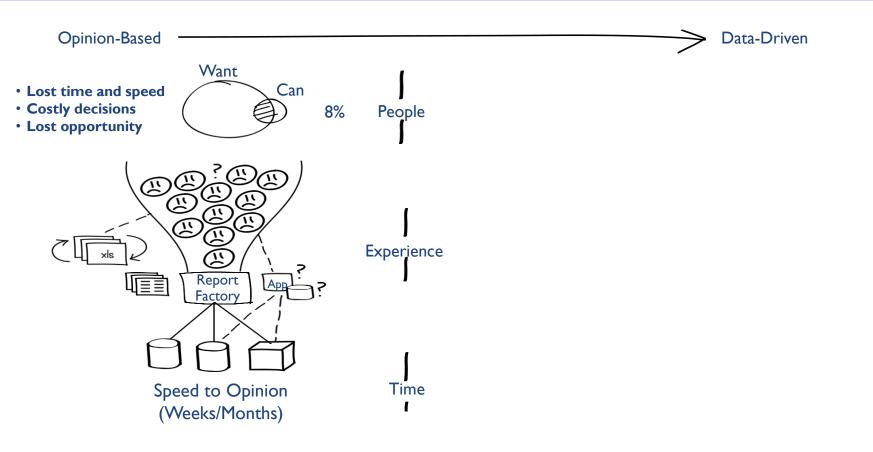
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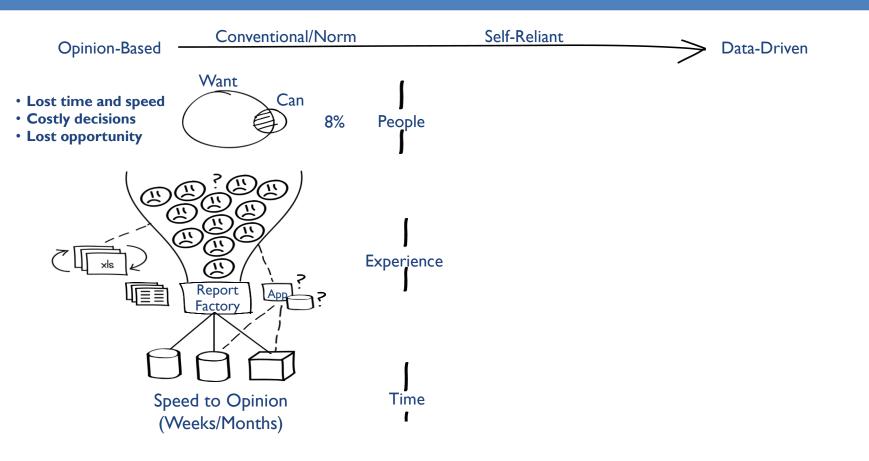
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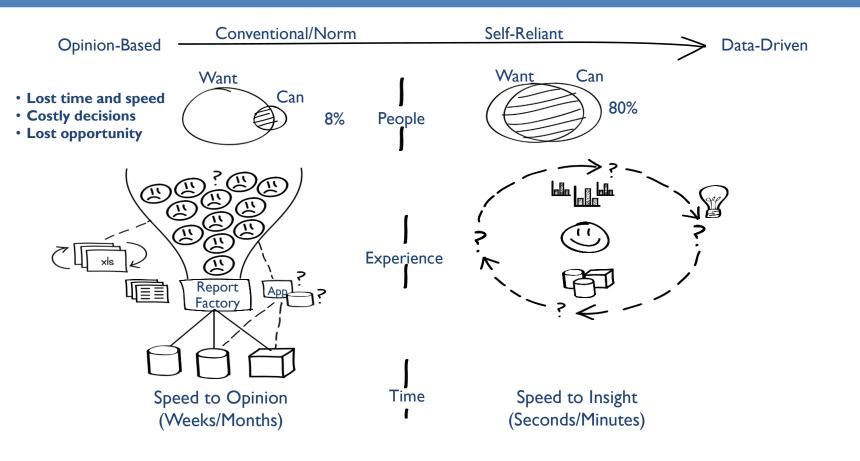
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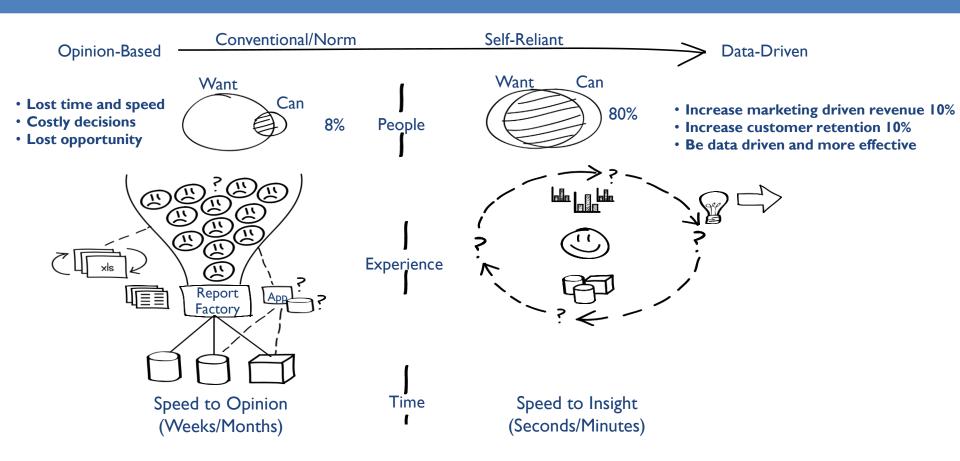
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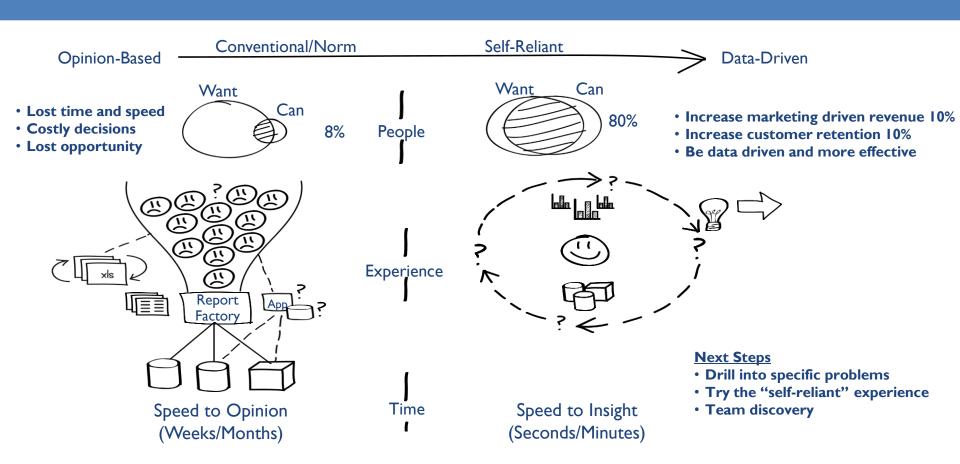
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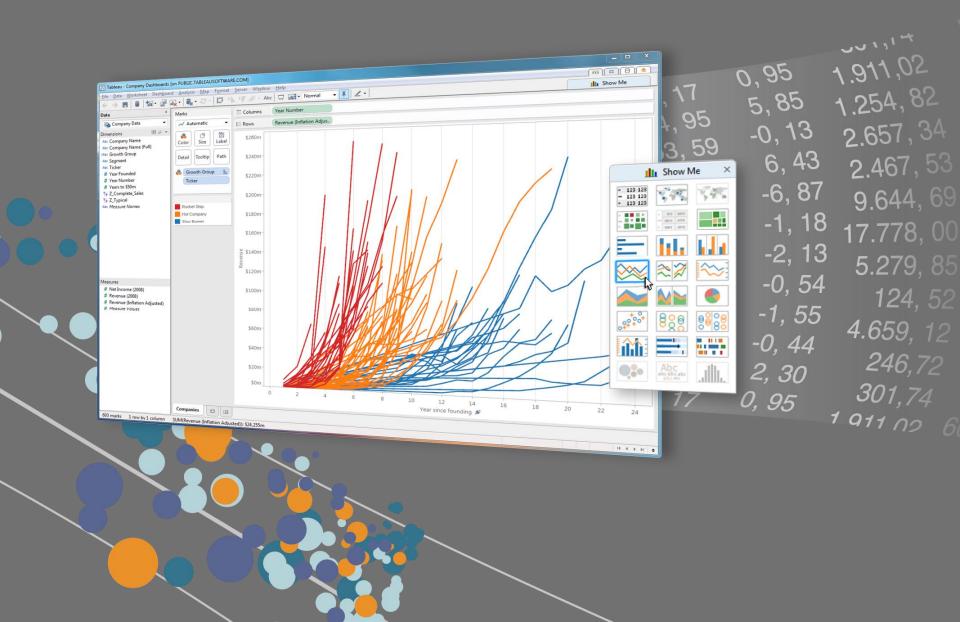


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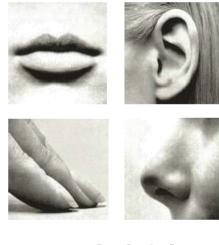
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### Advice #3: Be visual.

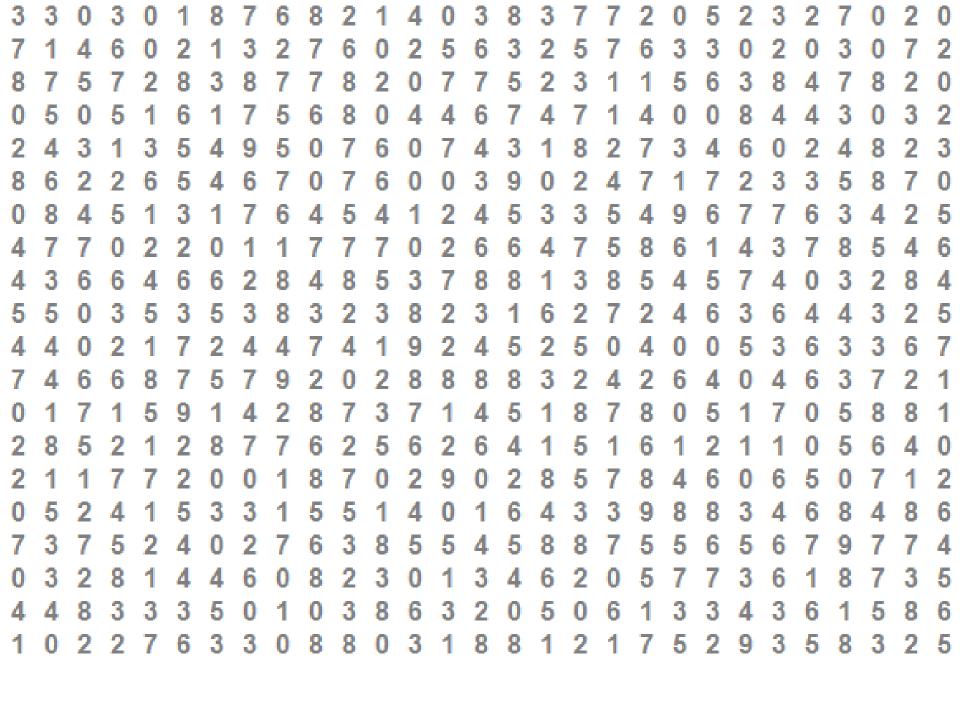


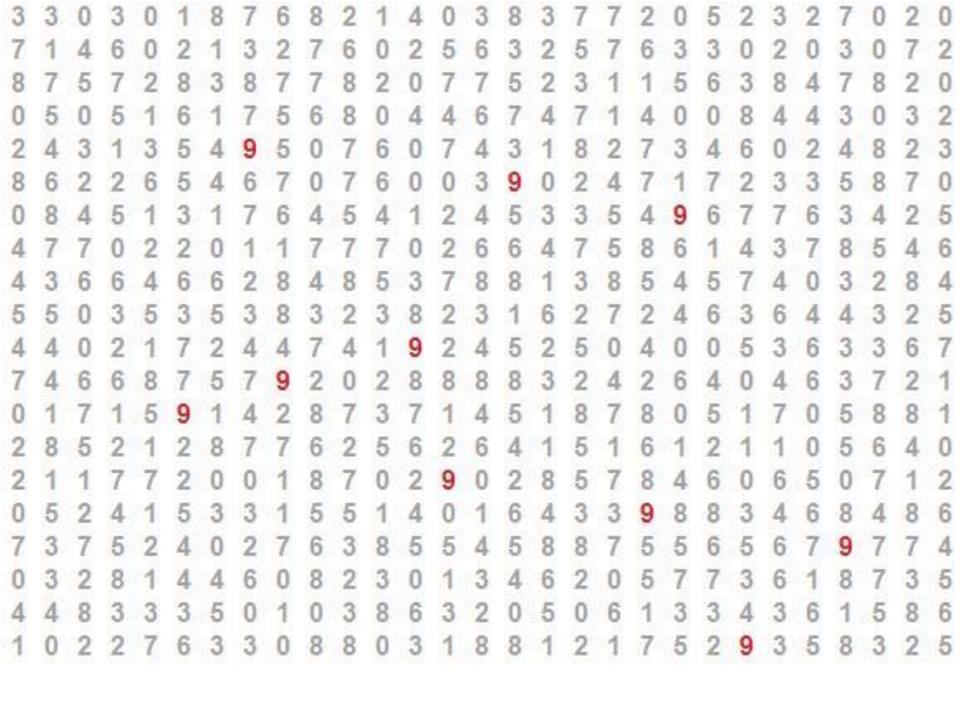




70%

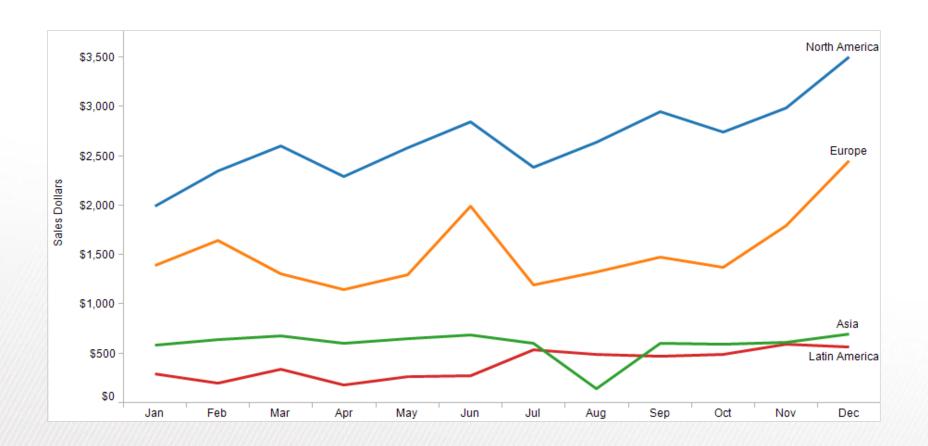
30%

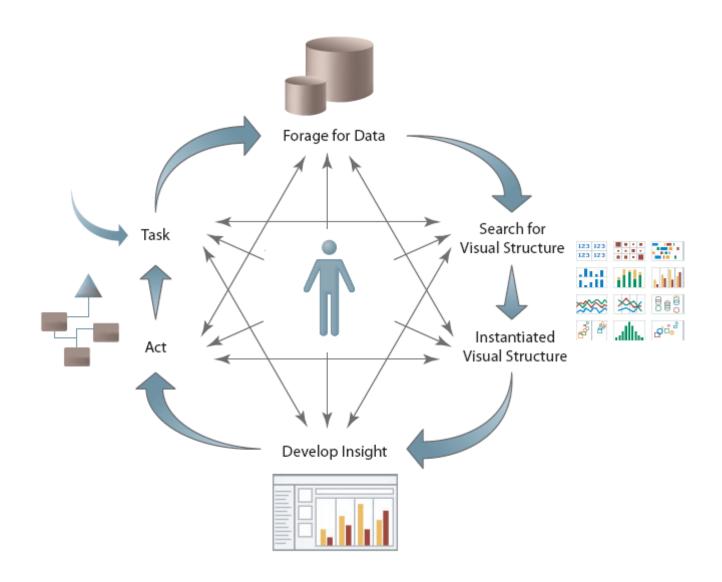




Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
North America	1,983	2,343	2,593	2,283	2,574	2,838	2,382	2,634	2,938	2,739	2,983	3,493
Europe	1,388	1,640	1,297	1,142	1,287	1,987	1,191	1,317	1,469	1,370	1,790	2,445
Asia	575	636	673	593	644	679	593	139	599	583	602	690
Latin America	288	191	337	178	258	272	534	480	469	479	583	554
Grand Total	4,234	4,810	4,899	4,195	4,763	5,775	4,700	4,570	5,475	5,171	5,958	7,182

Product	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
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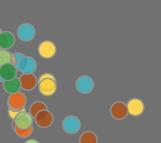
### Advice #4: Keep it simple.

Everything should be made as simple as possible, but not simpler.

Albert Einstein

Simple is hard.

Pat Hanrahan



### Keep it simple



... no eye candy



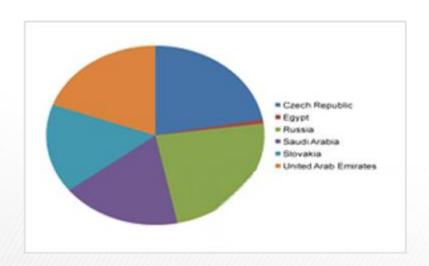
... less flash

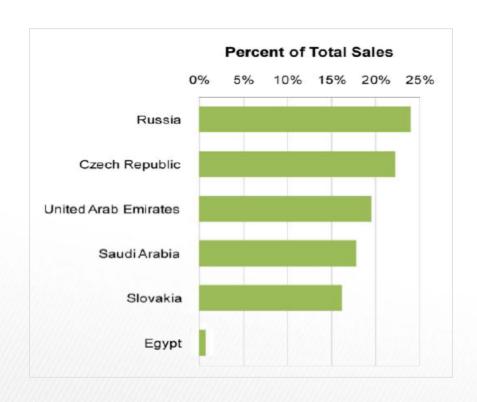


...no gadgets

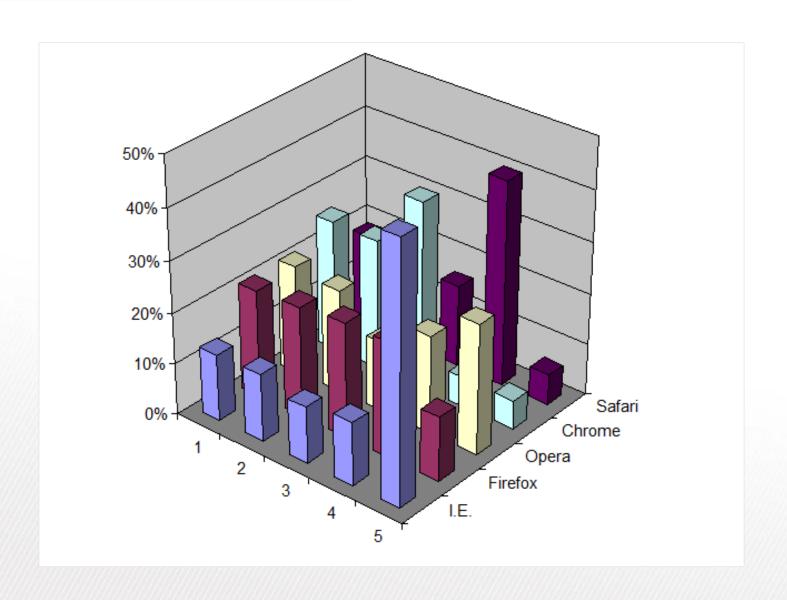
### Simple means...

"...easily done or understood."

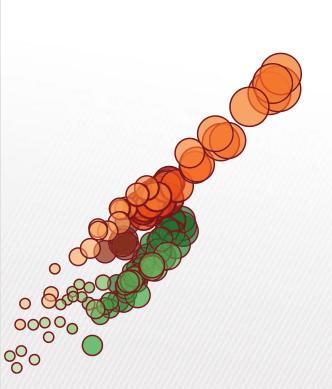




### Simple is... not 3D



### Half the battle is the analysis.



The other half? The story.

### Advice #5:Tell a story.

Storytelling is the most powerful way to put ideas into the world today.

Robert McKee



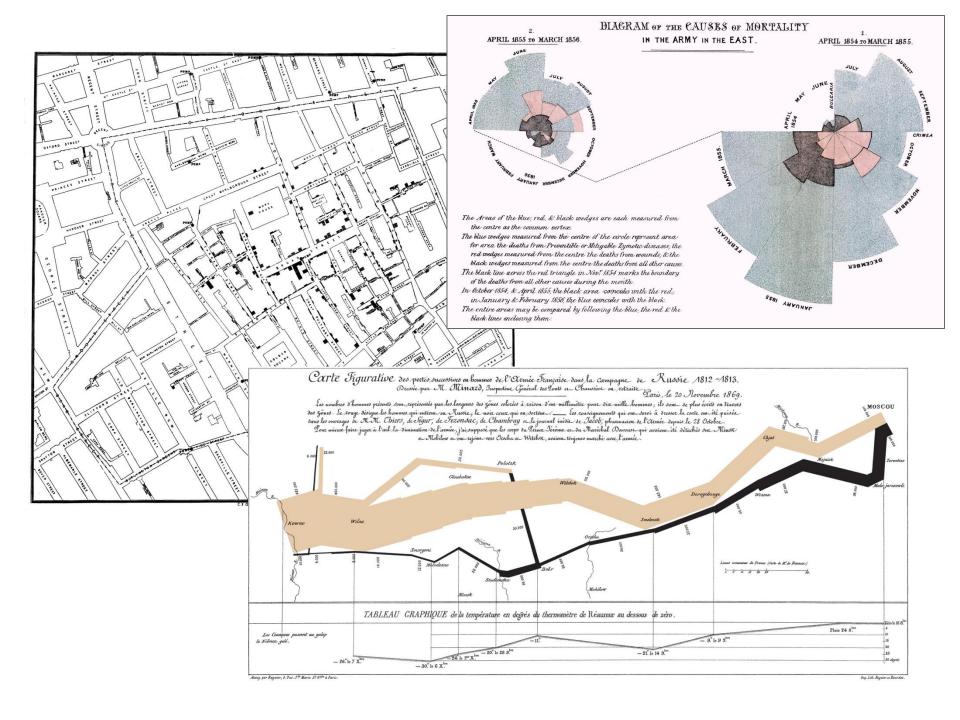
### How do stories help us?

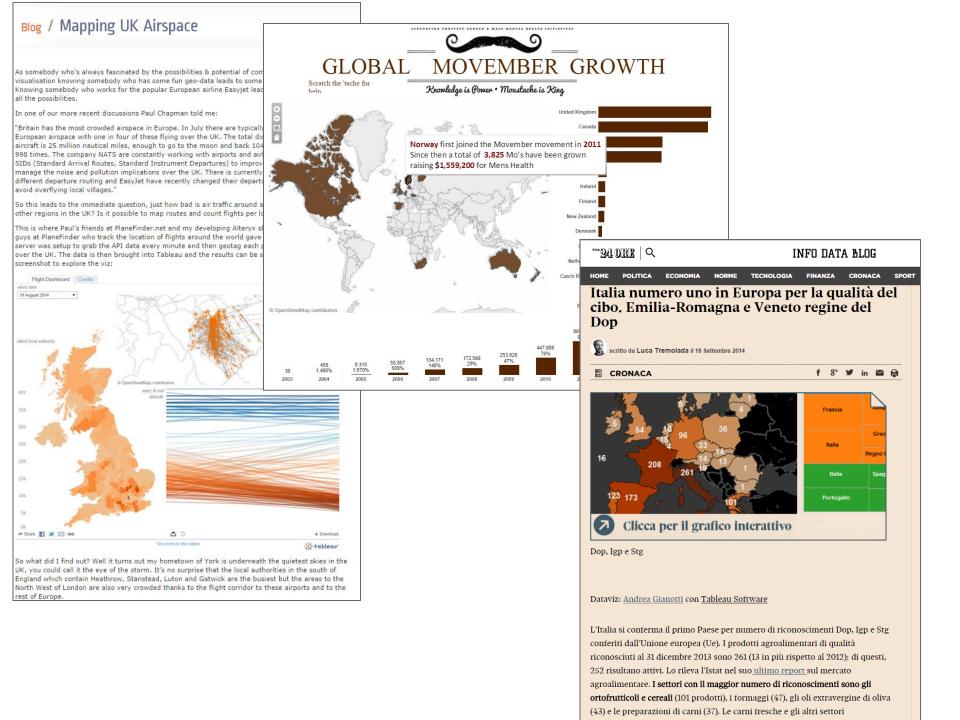
We **DISPEL** myths.

We **STOP HIDING** from problems.

We ANSWER questions on the spot.

We **DRIVE** to the truth.

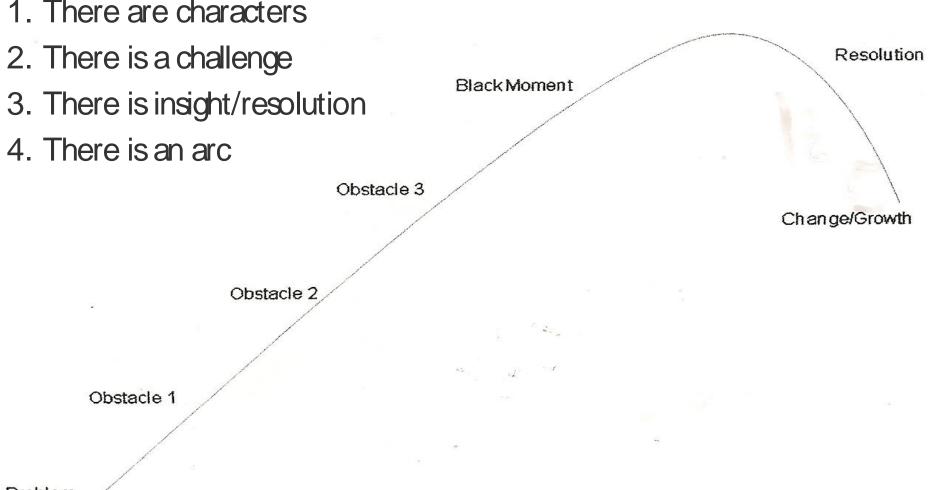




# What is a data story?

# A great data story is like any other story

1. There are characters



Problem





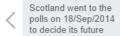
Google Analytics



# Best practices for creating stories with data

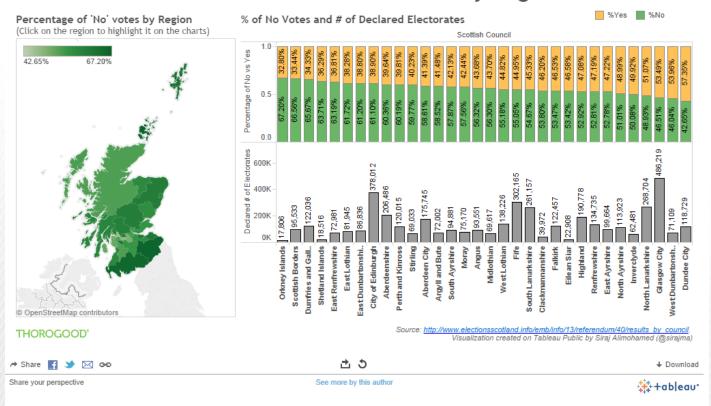
# Use familiar elements, like maps, to orient readers

#### The story of the Scottish Referendum - 2014



Will the activity on Social Media give us some insights? A close result in the end, but interesting to see the region split Do socio-economic indicators correlate with the results?

#### Scottish Referendum - Results by Region

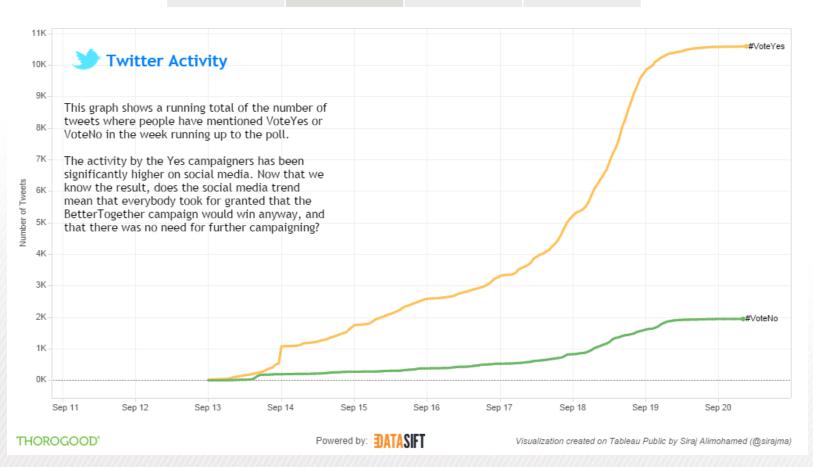


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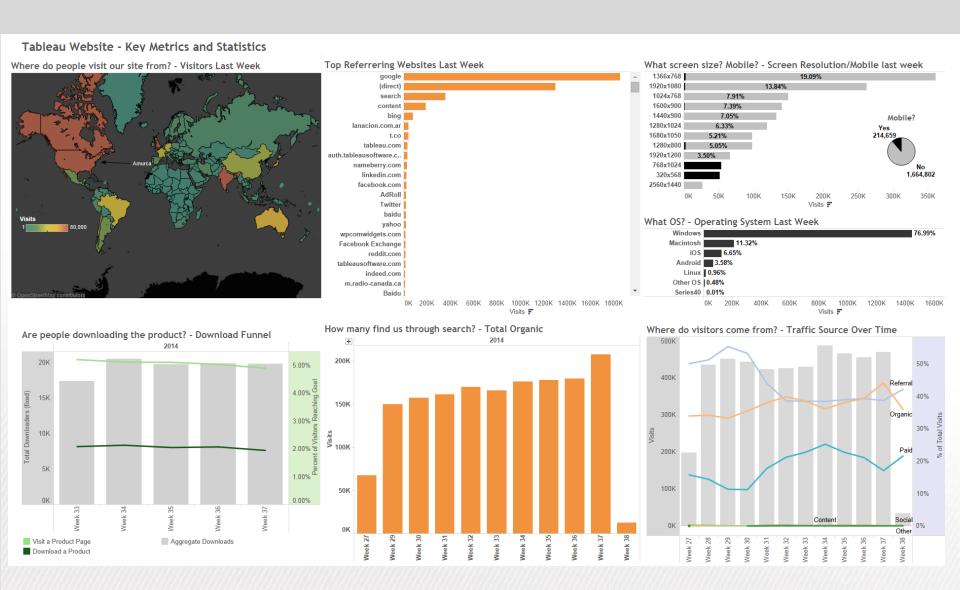
Scotland went to the polls on 18/Sep/2014 to decide its future

Will the activity on Social Media give us some insights? A close result in the end, but interesting to see the region split

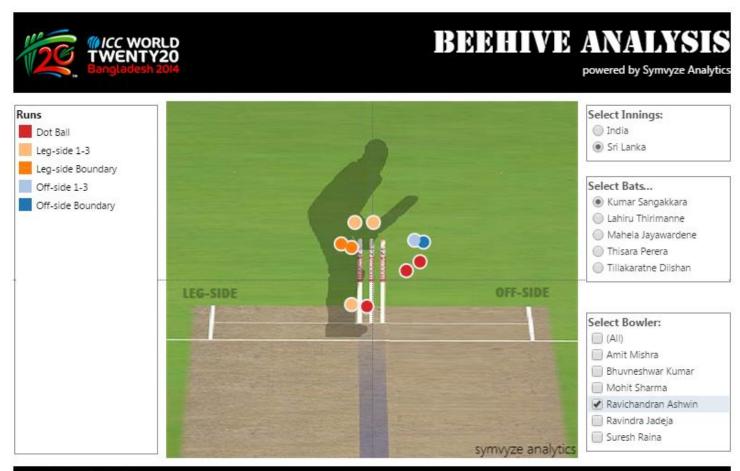
Do socio-economic indicators correlate with the results?



# Use familiar elements, like maps, to orient readers



### ...even if your maps aren't always maps.

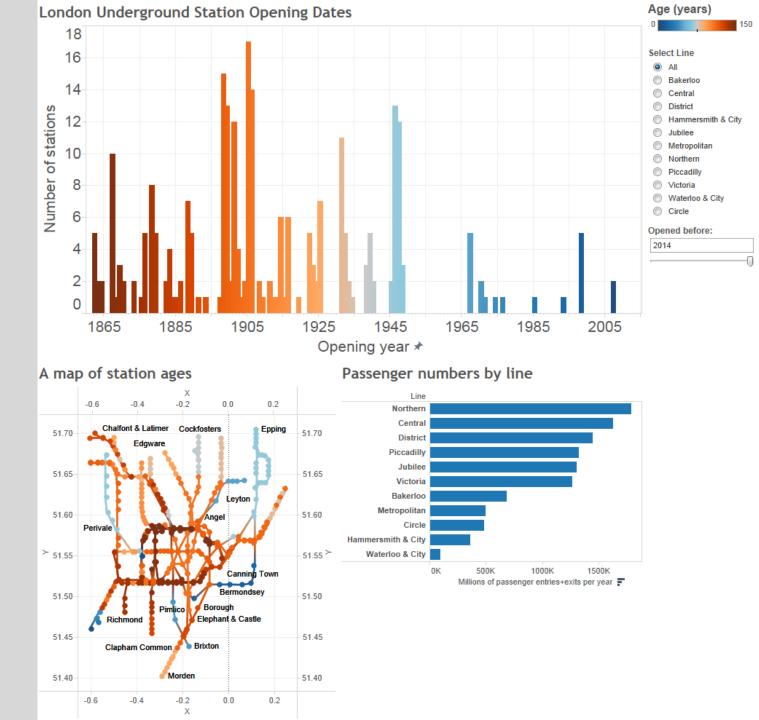


#### **World T20 Final**

India **130/4** (20/20 ov.) Sri Lanka **134/4** (17.5/20 ov.) Sri Lanka won by 6 wickets (with 13 balls remaining)

6th April, 2014 (night match) Played at Shere Bangla National Stadium, Mirpur

# Time is a familiar element too



# Pictures make characters real

#### **EL RANKING ATP CUMPLE 40 AÑOS**

29 de julio de 1974

23 de agosto de 1977

Jimmy Connors

Björn Borg

Aquí están, estos son los 25 números 1 que tuvo el clásico listado de la Asociación de Tenistas Profesionales.



Estados Unidos

Suecia

160

1

160

1

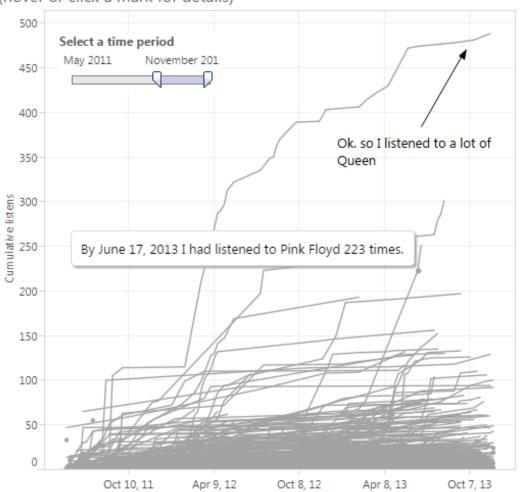
# Use interactivity to expose details

#### Should you give your kids access to Spotify?

 At one time my listening habits were "pure" 2. In December 2013 two things happened... 3. The impact has been immediate.

#### Cumulative listens to tunes over time

(hover or click a mark for details)



Week of Time

# Use interactivity to expose details

#### Should you give your kids access to Spotify?

- At one time my listening habits were "pure"
- 2. In December 2013 two things happened...
- 3. The impact has been immediate.

# ...we went to see Frozen and I let my daughter use my Spotify account.





# Use interactivity to expose details

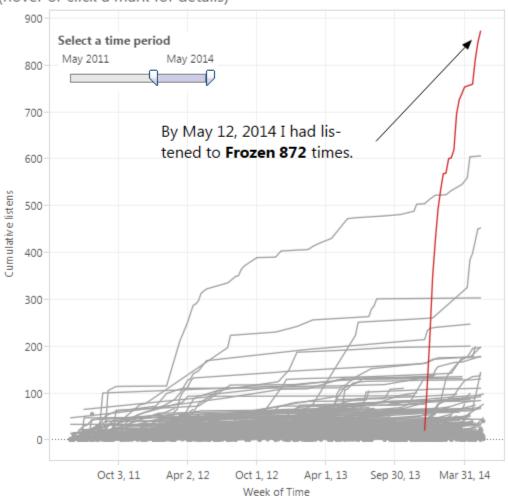
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#### Cumulative listens to tunes over time

(hover or click a mark for details)



@ OpenStreetMap contributors

100

0

#### Which tabsoft.co links are Rocket Ships? Is Paid Organic Each line represents one tabsoft.co link. Hover over a line to see details The line shows cumulative number of clicks since it was first shared. Since when? The Tableau Zen Masters 2014/15 | Tableau Software 900 August 1, 2014 September 30, 2014 800 Is Paid (All) Organic 700 O Paid 600 The Tableau Zen Masters 2014/15 Cumulative clicks | Tableau Software 936 500 400 300 200

200

400

600

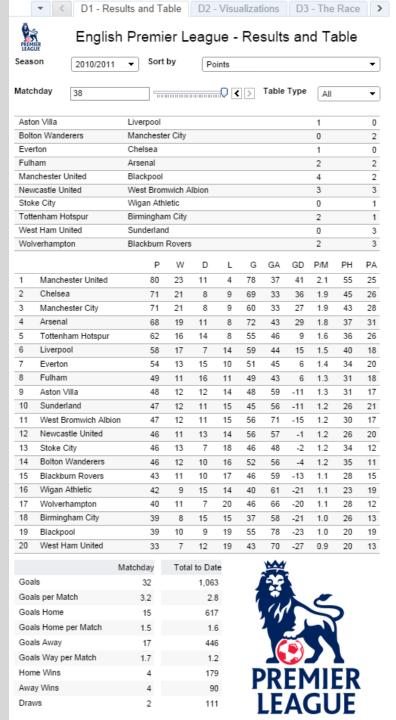
800

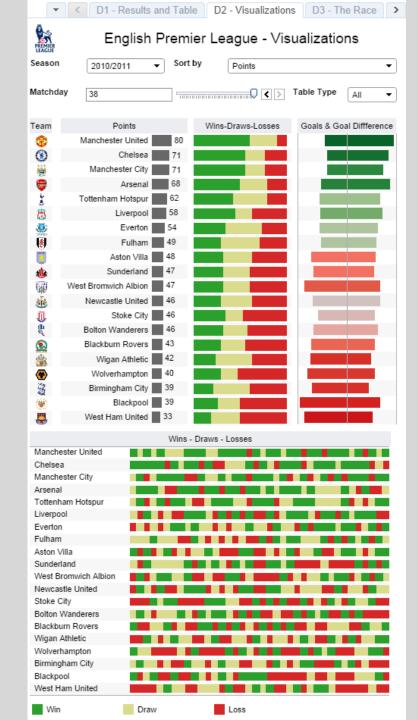
Time since link first used

1000

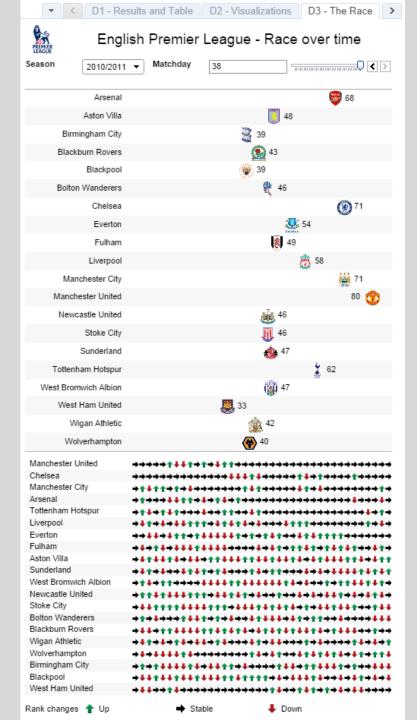
1200

1400





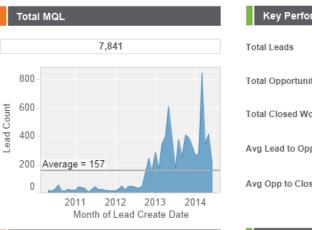




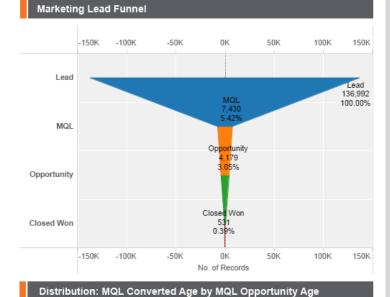
#### Marketing: Marketing Impact



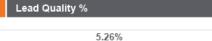
7/7/2014 11:59:59 PM







5/4/2010 12:00:00 AM

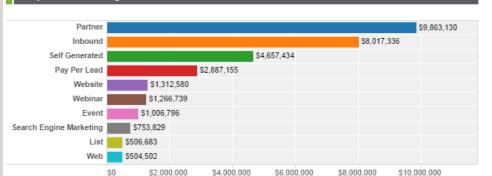


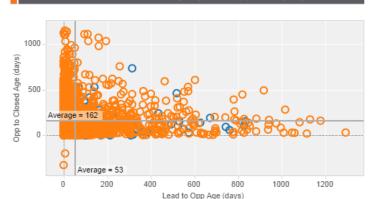
Top 10 Contributing Lead Sources

\$32,951,324

Revenue =

Marketing Sourced Revenue







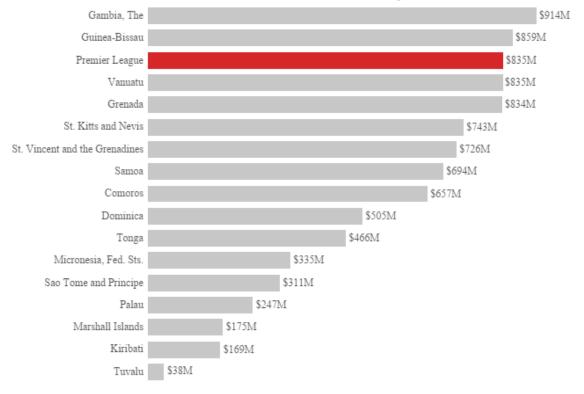
# Add contex to tell the story

# Premier League clubs spent a record £835M on transfers in the summer window

Source: The Guardian

U spent more the bottom 11 Only 3 of 20 clubs earned a profit this summer window Overseas clubs are profiting from BPL spending Manchester United alone spent more than all of Ligue 1 PL spending was more than the GDP of 14 countries

#### Countries with a 2013 GDP < \$1B















🚻 +ableau\*

Twitter account details Twitter follower growth Twitter mentions Post data14 summary

#### Twitter account details

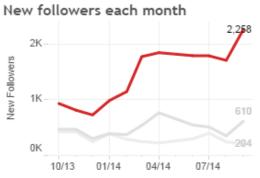
Hover over an account for details

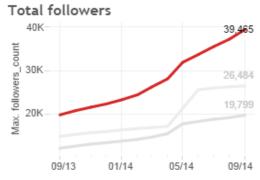
#### Totall followers (September, 2014)

tableau	QlikView	microstrategy	TableauCaree	Vizoftheday
39,465	19,799	26,484	768	2,598



Latest month

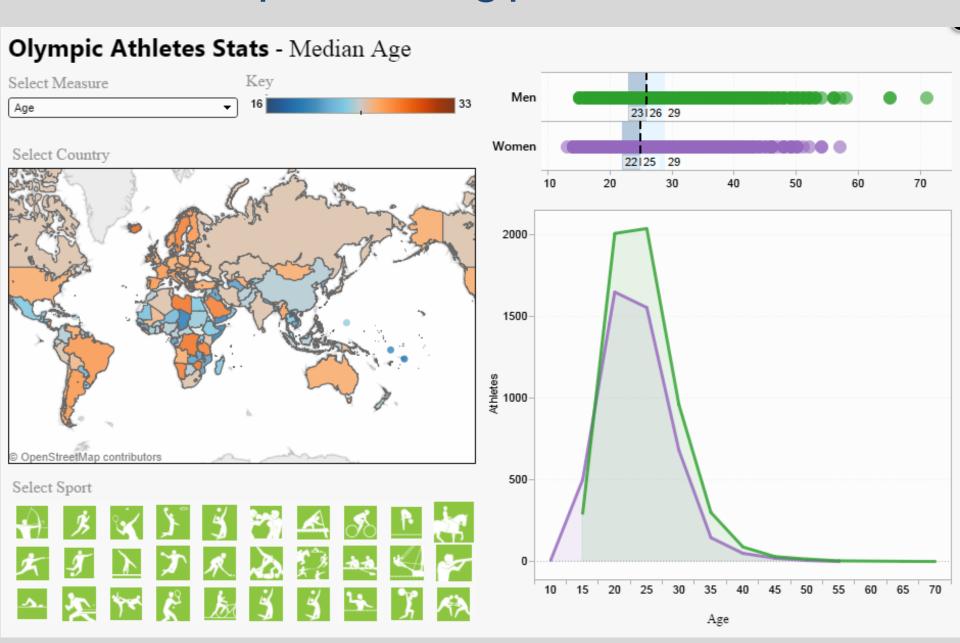




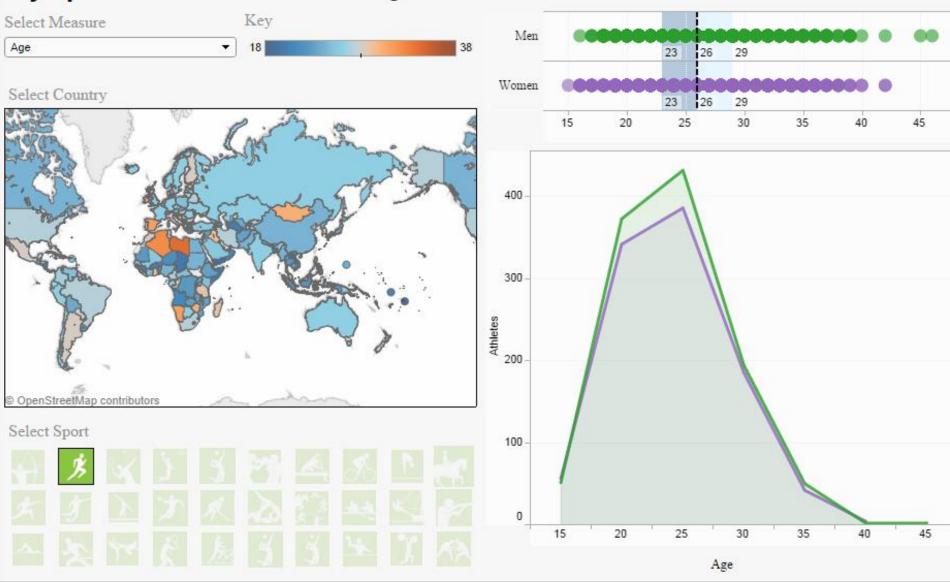


		2014
Account		September
tableau	New Followers	2,258
	YTD growth	17,130
	% growth (month on month)	6.1%
QlikView	New Followers	610
	YTD growth	6,357
	% growth (month on month)	3.2%
microstrategy	New Followers	204
	YTD growth	10,470
	% growth (month on month)	0.8%
TableauCareers	New Followers	12
	YTD growth	251
	% growth (month on month)	1.6%
Vizoftheday	New Followers	140
	YTD growth	1,069
	% growth (month on month)	5.7%

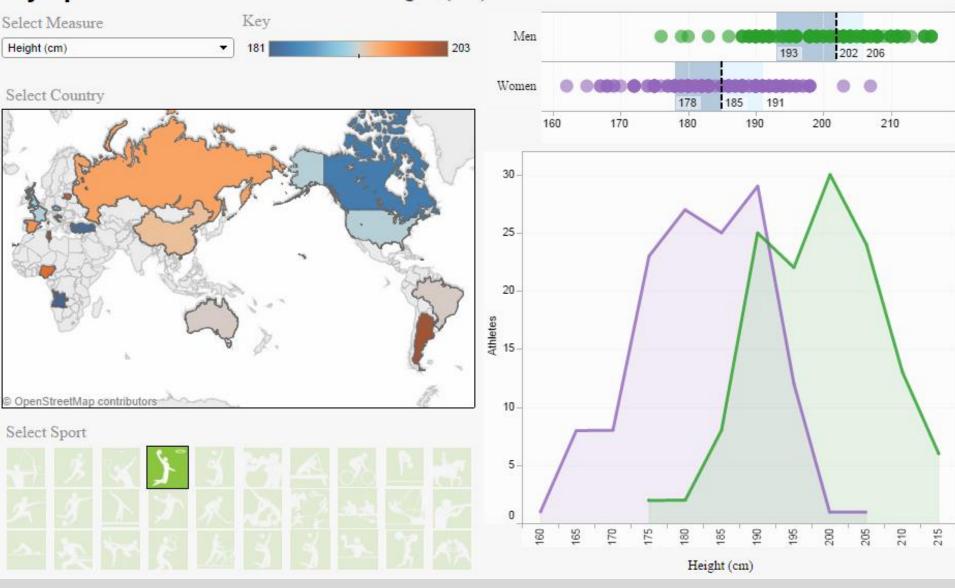
	Previous m	onths									
		2013					20:	14			
ber	October	Novemb	Decemb	January	February	March	April	May	June	July	August
258	933	815	727	988	1,143	1,777	1,847	3,826	1,794	1,791	1,706
.30	933	1,748	2,475	988	2,131	3,908	5,755	9,581	11,375	13,166	14,872
1%	4.7%	3.9%	3.4%	4.4%	4.9%	7.3%	7.0%	13.6%	5.6%	5.3%	4.8%
10											
57											
2%											
04	424	425	245		293	251	226	8,158	298	401	249
70	424		1,094			934	1,160			10,017	10,266
8%	2.8%		1.6%	2.4%	1.8%	1.5%	1.3%	47.5%	1.2%	1.6%	1.0%
12											
251											
696											
.40	97			106	104	126		120	110	169	
169	97	153	245	106	210		432	552		831	
7%	7.6%	4.1%	6.4%		6.4%	7.2%	5.1%	6.1%	5.3%	7.7%	4.2%

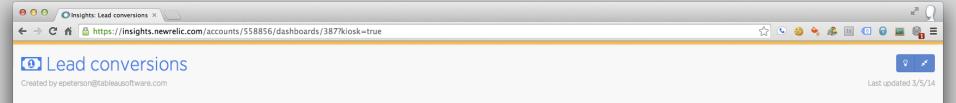


#### Olympic Athletes Stats - Median Age



#### Olympic Athletes Stats - Median Height (cm)





#### Prospect impressions

Since 1 day ago, compared with 1 week earlier

30.7 K

**Transactions** 

#### Conversions

Since 1 day ago, compared with 1 week earlier

7.83 K

**Transactions** 

#### Mobile Leads

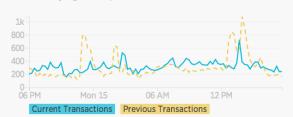
Since 1 day ago, compared with 1 week earlier

126 +10.64%

**Transactions** 

#### Prospect impressions

Since 1 day ago, compared with 1 week earlier



#### Conversions

Since 1 day ago, compared with 1 week earlier



#### Mobile Leads

Since 1 day ago, compared with 1 week earlier



#### Top pages

Since 1 day ago

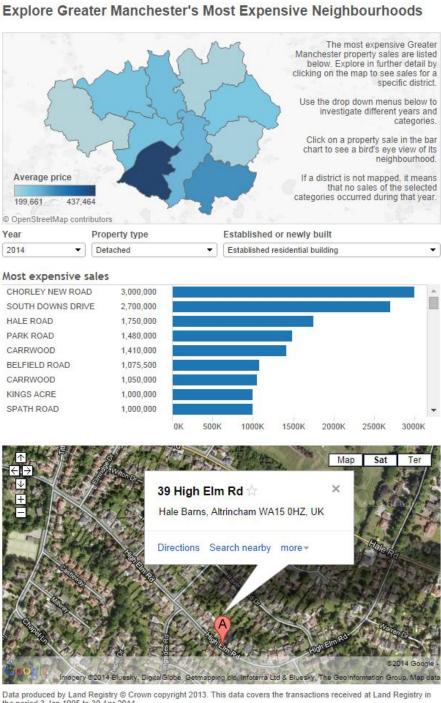


#### Top converting pages

Since 1 day ago

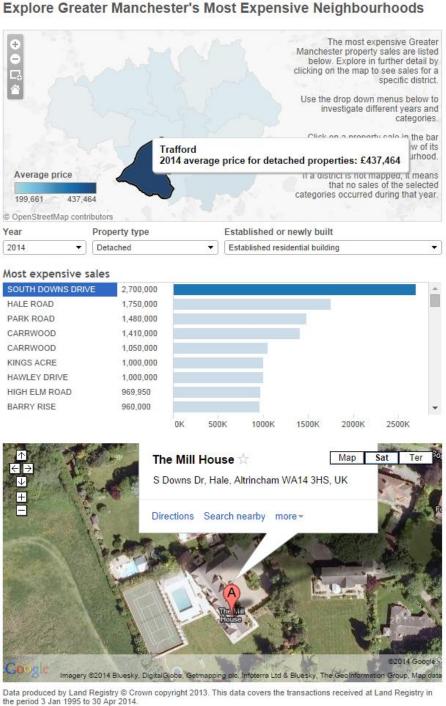


# Let you find your own story

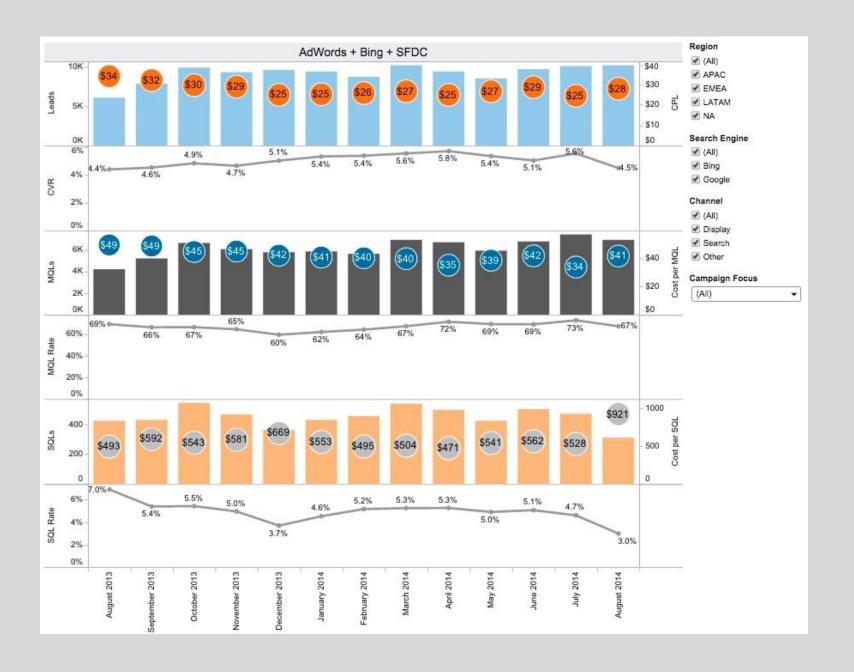


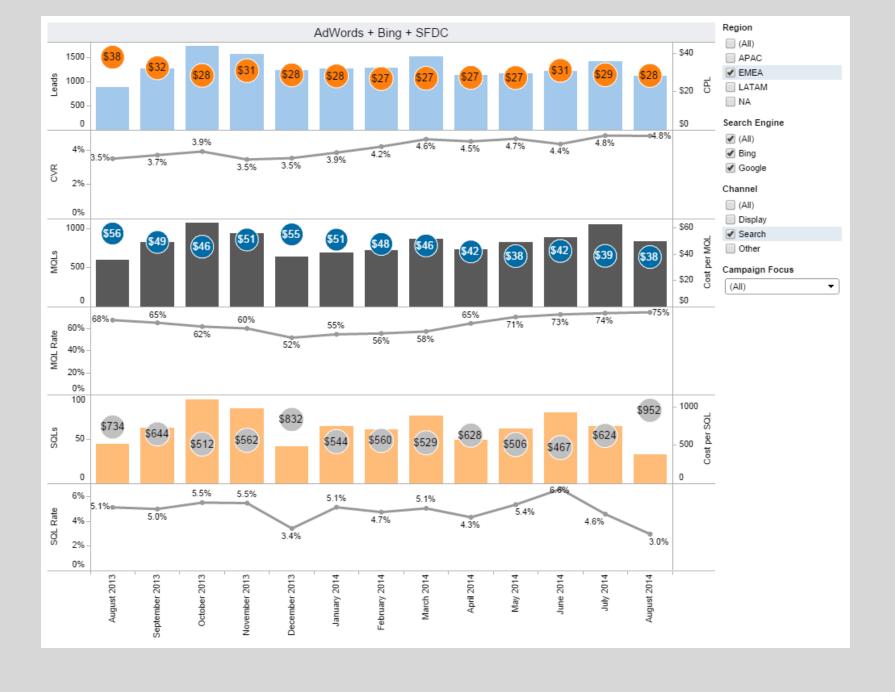
the period 3 Jan 1995 to 30 Apr 2014.

# Let you find your own story



the period 3 Jan 1995 to 30 Apr 2014.





#### Les accidents de la route en France métropolitaine en 2012.

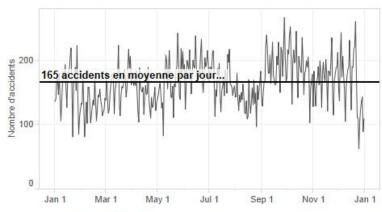
 Les accidents de la route en France métropolitaine... 2. ...font au total plus de 3000 morts!

3. Qu'en est-il des 2 roues à Paris ?

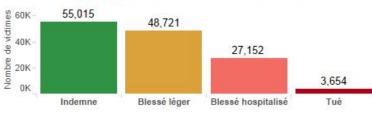
4. Quels types de choc sont les plus fréquents ?

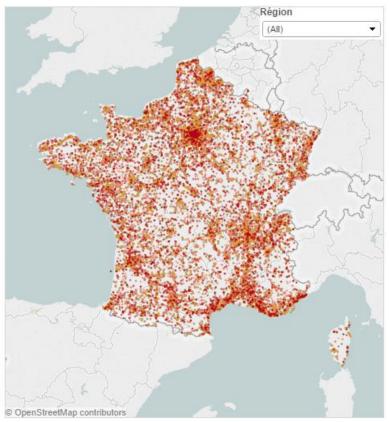
5. Les vacances sont-elles moins dangereuses ? 6. Quel moment de la journée est le plus dangereux ?

En 2012, il y a eu 60,437 accidents de la route...



...dont 3,386 accidents mortels.





#### Les accidents de la route en France métropolitaine en 2012.

- Les accidents de la route en France métropolitaine...
- 2. ...font au total plus de 3000 morts!
- 3. Qu'en est-il des 2 roues à Paris ?
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- 5. Les vacances sont-elles moins dangereuses ?
- 6. Quel moment de la journée est le plus dangereux ?



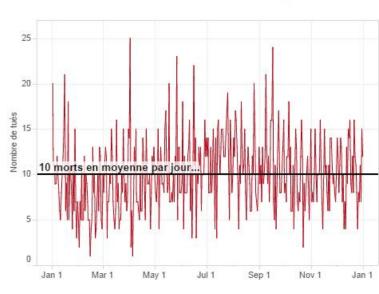
Cliquez sur le chiffre ou l'icône pour filtrer les autres graphiques

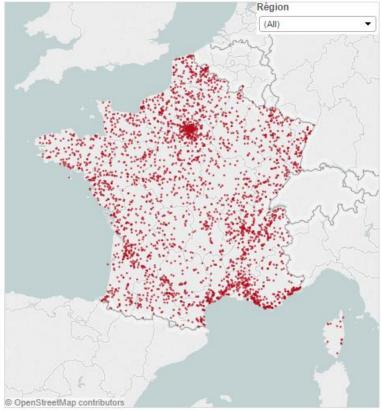
2,730



924



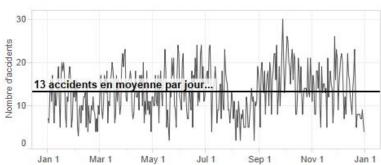




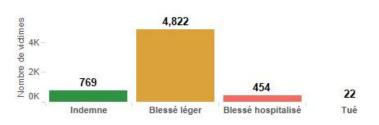
#### Les accidents de la route en France métropolitaine en 2012.

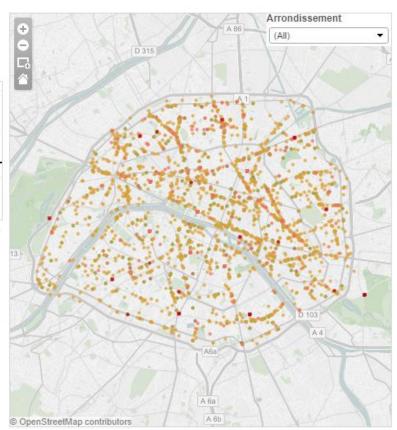
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## En 2012 à Paris, il y a eu 4,795 accidents impliquant des 2 roues...



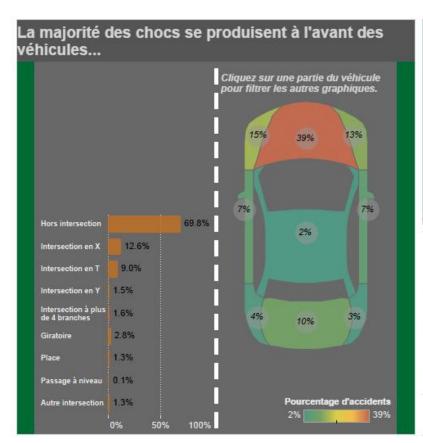
### ...dont 13% seulement en sortent indemnes.

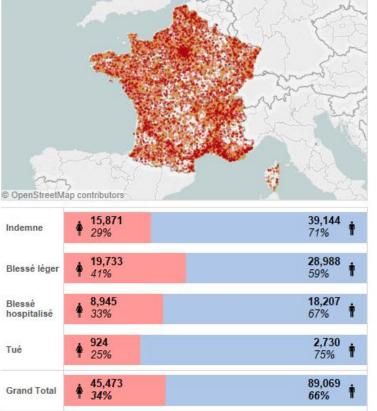




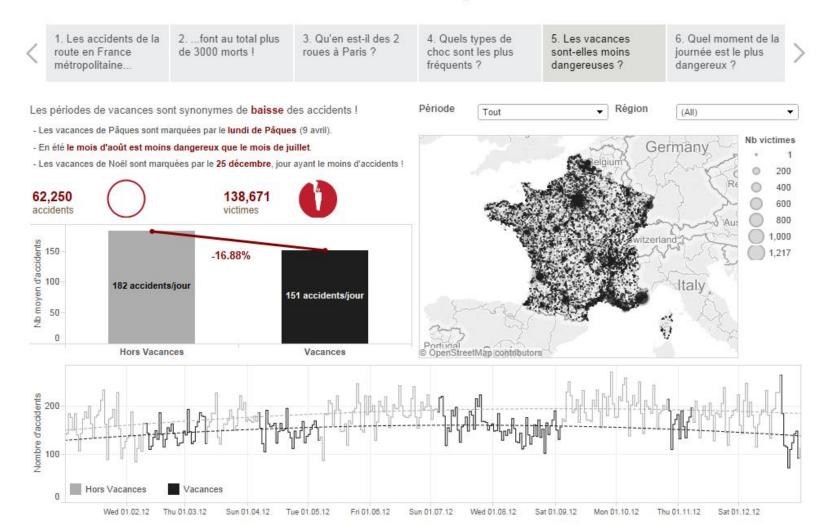
#### Les accidents de la route en France métropolitaine en 2012.

- Les accidents de la route en France métropolitaine...
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#### Les accidents de la route en France métropolitaine en 2012.



#### The Full Student Life-Cycle

Engagement avtivity trends for all online interactions

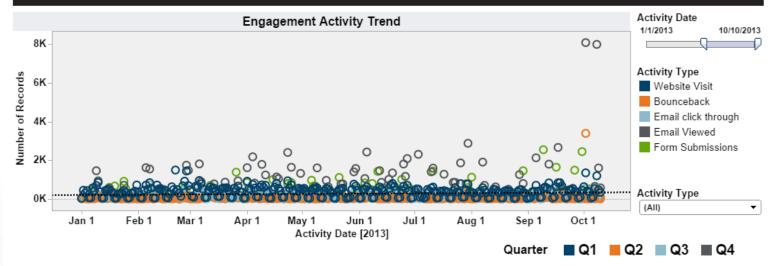
Assessing the quality of prospective students by lead Track enrollment based on 3 seperate metrics

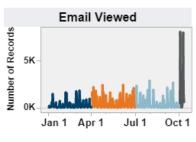
Overview of student performance Alumni location and college attendence based on survey

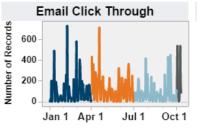
Alumni donation patterns over a 4 year span

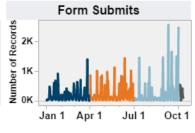
#### University of Lake Wobegon: Admission Activity Trends





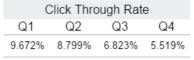








Email View Rate					
Q1	Q2	Q3	Q4		
30.57%	40.81%	37.51%	44.29%		



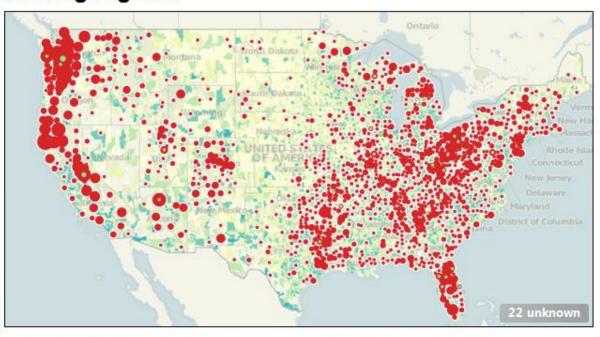
Form Submission Rate						
Q1	Q2	Q3	Q4			
17.478%	18.286%	21.265%	16.338%			

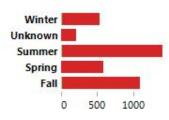
Website Visit Rate					
Q1	Q2	Q3	Q4		
40.29%	31.14%	31.46%	28.18%		



## Finally, take the 5-second test.

#### **Finding Bigfoot**



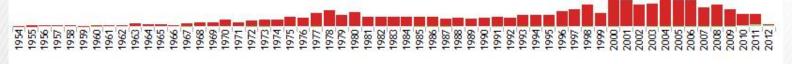


Data gathered from the official website of the "Bigfoot Field Researchers Organization" (BFRO).

The data was attempted to be scrubbed and cleaned to attain some type of normalcy, unfortunately the BFRO data submission process has no validation and fields are often used arbitrarily by submitters.

BFRO does the "Finding Bigfoot" Animal Planet TV show.

Click on ANY element of the visualization (location, season, year, detail field) in order to filter by that item. Select the element AGAIN to go back to the full view.



The BFRO classifies sightings according to a system based on the sightings "potential for misinterpretation".

 Total Sightings
 Class A
 Class B
 Class C
 Unclassified

 3,806
 1,951
 1,696
 31
 128



Chatter Campaigns Leads Accounts Contacts Opportunities Cases Reports Registrations **Payments** Partner Resources Content Libraries Home



Opportunities [1] | Cases [9] | Contact History [25+] | Open Activities [25+] | Activity History [25+] | **Contact Detail** Clone Sharing Request Update Clean vCard Request SalesOps Help Email with To Edit Delete Created By Torque ♥, 9/21/2012 1:10 PM ID Number 0036000001OJMG2

HTML Email Status [0] | Notes & Attachments [0] |

- ▶ Form Fields
- ▶ Marketing Info

#### ▼ Tableau - Activity Profiler



#### **Best Practices**

- Pick your metrics wisely
- Get started. You get better over time
- Be visual to increase comprehension
- Keep it simple
- Think in terms of stories

### Sharing & Data Story Telling

- Use familiar elements (maps, time, pictures)
- Use interactivity
- Build from the familiar
- Add context
- Balance depth with the big picture
- Let you find your own story
- Provide a guided narrative
- 5-second test

### Ideas for Next Steps

- Assess your data competency
- Team discovery and self-reliance test
- Just get started
- Test everything
- Promote your work

