Connection, Collection, Concentration From Devices and Processes to the Intelligent Experience

Peter Coffee VP for Strategic Research Salesforce

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If It Starts With A Drucker Quotation, It Can't Be Dumb

"There is nothing quite so useless, as doing with great efficiency, something that should not be done at all."



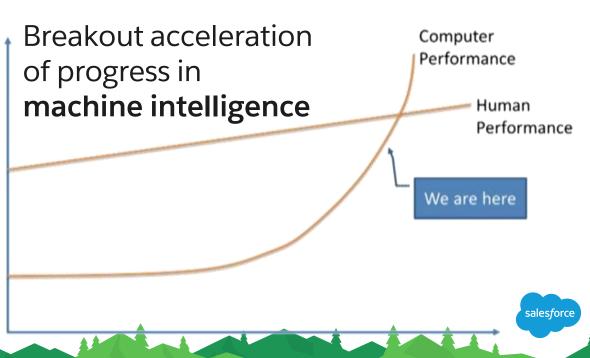
The Trends that Redefine "The Right Things"

Massive growth of global connection: for example, the world as mapped by Facebook "friending"





Flourishing graphs of collaboration: what used to be "six degrees of separation" is now closer to 3.6

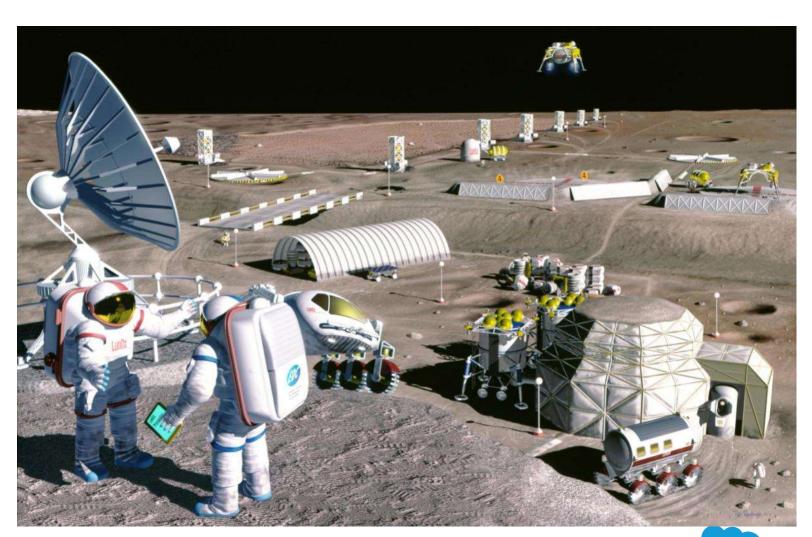


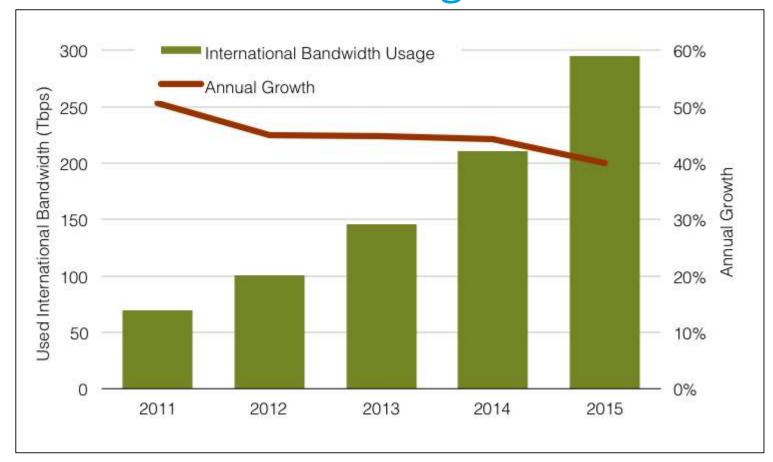
Business Built Silos When Connectivity Was Costly

Workers lived in habitat bubbles of locally connected storage & computation

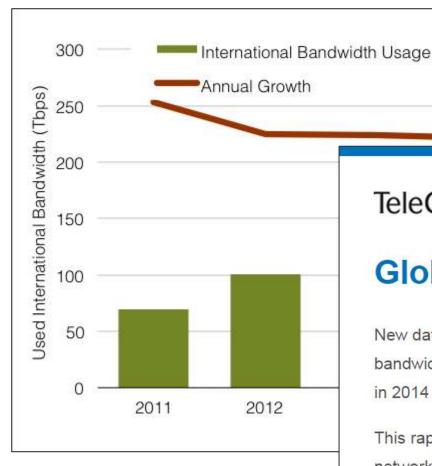
Going "outside" was a complex, risky, therefore intermittent exercise

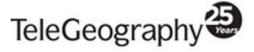
Content was exchanged in batches: episodic logins, emails, and "documents"











APRIL 23, 2015

RESEARCHUPDATE

Global Network Construction Resurgence

60%

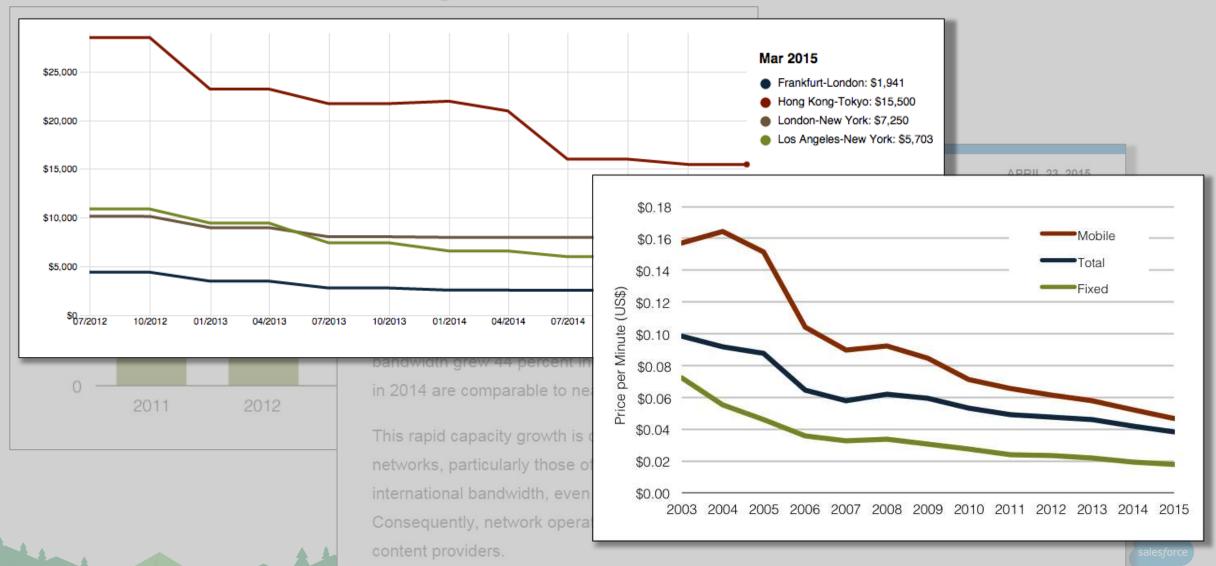
50%

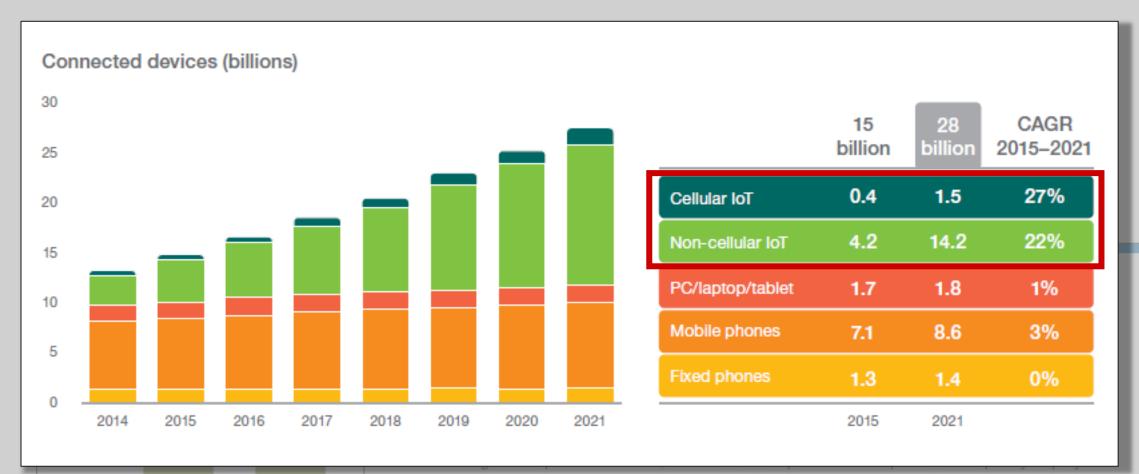
New data from TeleGeography's Global Bandwidth Research Service reveal that international bandwidth grew 44 percent in 2014, to reach 211 Thos. The 65 Thos of new capacity deployed in 2014 are comparable to nearly the entire amount of bandwidth in service globally in 2011.

This rapid capacity growth is driven by a changing mix of global network operators. Private networks, particularly those of large content providers, account for a growing share of international bandwidth, even surpassing Internet bandwidth on the trans-Atlantic route last year. Consequently, network operation has become a core part of the business for some of the largest content providers.







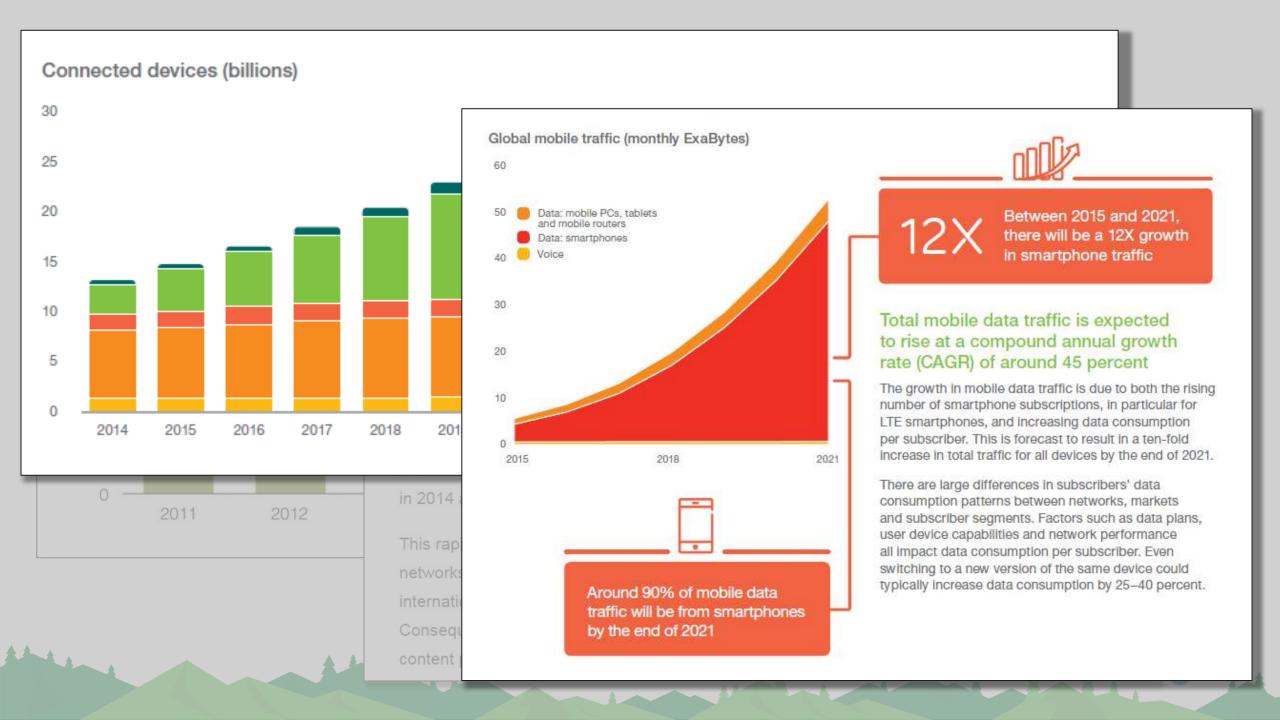


0 2011 2012

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salesforce



Connection is the Reason this is Not Another "AI Winter"

The most significant developments over the last two decades that are taking AI from concept to reality include:

- Massive connectivity and mobility
- Machine learning models and algorithms: systems today can *know more* without requiring a person to teach them
- Cloud capacity

Abstract

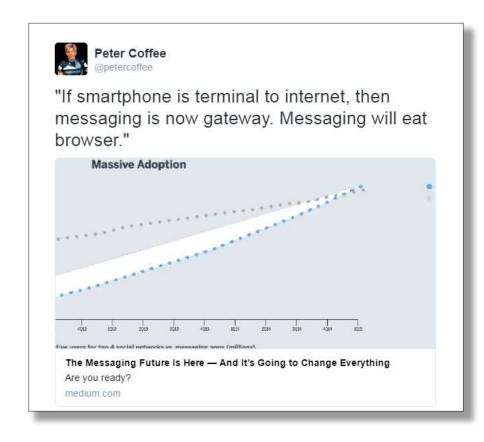
XCON is a rule-based expert system that configures computer systems. Over 7 years, XCON has grown to 6,200 rules, of which approximately 50% change every year. While the performance of XCON is satisfactory, it is increasingly becoming more difficult to change. With the goal of facilitating maintenance, DEC has developed a new rule-based language, RIME, in which the successor to XCON, XCON-in-RIME, is being written. This paper evaluates the potential for enhanced maintainability of XCON-in-RIME over XCON.

I. Introduction: Motivation and Goals

The following properties of XCON, an expert system, make it a particularly interesting system to examine:

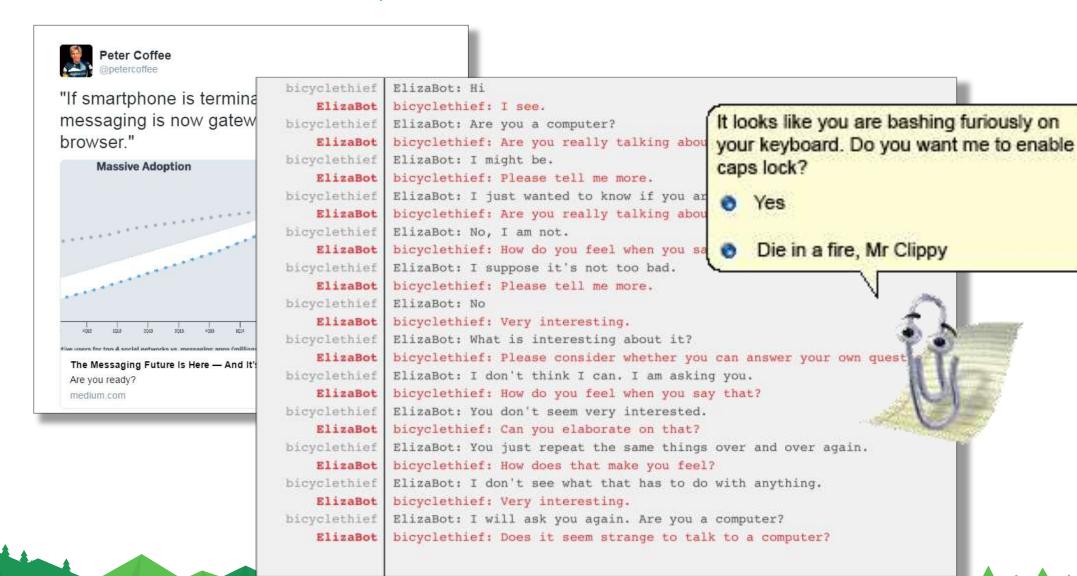
- XCON performs a complex design task: XCON configures computer systems for DEC; XCON is used in a production mode, day in, day out -- it has been used since January 1980.
- XCON is a very large rule-based system: currently there are approximately 6,200 rules in XCON, which draw on a database of approximately 20,000 parts.
- XCON undergoes constant change: 50% of the rules in XCON are changed each year.

Before 23 June 2015, Conversation Was "Eliza"





Before 23 June 2015, Conversation Was "Eliza"



Before 23 June 2015, Conversation Was "Eliza" - not Alexa



"Each company is creating its version of posthardware, post-app future...entirely in the cloud"



The Amazon Echo Is Winning the Race to a Screenless Future

For a screen-less gadget, the Amazon Echo is a stunning success. But can it get smart enough fast enough to truly peel people away from their smartphones? wired.com

I see. you a computer? Are you really might be. Please tell me ust wanted to kno Are you really I am not. How do you feel suppose it's not Please tell me Very interesting hat is interesting Please consider don't think I can How do you feel don't seem very Can you elaborat just repeat the



"There are only ~3 million apps in the store; there will be ten or a hundred times more bots."



The smart bots are coming and this one is brilliant

Last week I hired a personal assistant named Amy Ingram. She set up four meetings for me, adding them to my calendar with the relevant contact details incl... theverge.com

ElizaBot bicyclethief ElizaBot

ElizaBot: I don't see what that has to do with anything.
bicyclethief: Very interesting.
ElizaBot: I will ask you again. Are you a computer?
bicyclethief: Does it seem strange to talk to a computer?

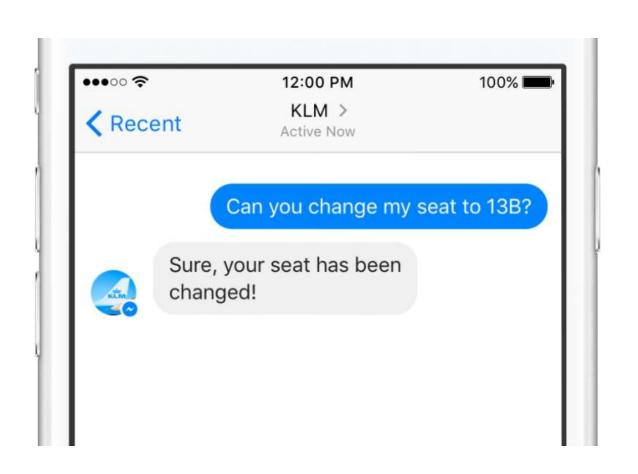
How does that make you reel?



A Conversation Connection Enables a Superior Experience

The moment social messaging was opened up as a service channel in March 2016, the volume of messages shot up.

KLM gets on average five questions a minute via Facebook Messenger, with 13 messages a minute during peak times (15h-17h)





Yes, Mister Stark?

Better Question Answering through Conditional Understanding of Text

The idea of open-domain question answering—a system's ability to answer arbitrary questions about arbitrary documents—is one of the most difficult, albeit important, challenges we face in natural language processing (NLP).

The Dynamic Coattention Network (DCN), a state of the art neural network system, achieves the highest accuracy on the Stanford Question Answering Dataset (SQuAD) – significantly significantly **outperforming all submitted systems to date**, including those developed by the Allen Institute for Artificial Intelligence, Microsoft, Google and IBM.



Out of Einstein's Lab: Salesforce Research Unveils Breakthroughs in Deep Learning

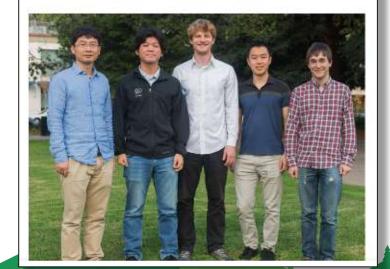
By Richard Socher, Chief Scientist, Salesforce

Artificial intelligence will be at the core of most enterprise products that deal with large amounts of text, structured data and image data. Salesforce

Einstein strives to bring AI to use cases in service, sales, marketing and others by embedding it directly into Salesforce products and enabling developers through our platform. AI will empower every company to deliver smarter, more personalized customer experiences.

Democratizing AI to everyone is challenging but something that Salesforce is uniquely positioned to take on. Our mission is to bring the power of AI to CRM, and Salesforce Research is focused on bringing cutting edge algorithms into the Salesforce CRM ecosystem, ensuring that our customers benefit from the latest breakthroughs in AI.

In the less than two months since its inception, the Salesforce Research team has made incredible progress. Today I'm excited to announce our breakthroughs in deep learning including question answering, joint many-task learning, inventing faster, more accurate neural networks and enabling models to predict previously unseen outcomes. The team's findings have broad applicability as AI continues to move into the enterprise.



What Are We Doing That's Wrong in a Connected World?*

- A Assuming
- B Bridging
- C Coding
- D Debugging
- E Estimating & Extrapolating



What Are The Dumb Things We're Doing?

Assuming: We Teach Calculus Instead of Statistics

Too much optimizing of actions based on flawed understanding

Review A Refresher on Statistical Significance

by Amy Gallo



When you run an experiment or analyze data, you want to know if your findings are "significant." But business relevance (i.e., practical significance) isn't always the same thing as confidence that a result isn't due purely to chance (i.e., statistical significance). This is an important distinction; unfortunately, statistical significance is often misunderstood and misused in organizations today. And yet because more and more companies are relying on data to make critical business decisions, it's an essential concept for managers to understand.

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Bridging: We Build Castles of Data, Then Bridge Between Them

In a connected world, continuity & coherence should be inherent



"The distributed ledger makes it easier to create cost-efficient business networks where virtually anything of value can be tracked and traded—without requiring a central point of control."

- developer.ibm.com/bluemix/2016/05/09/ blockchain-on-bluemix-now-beta/



Distributed Ledgers Are Real



"Four of world's biggest banks developing system to settle transact's quickly w/blockchain"



UBS leads team of banks working on blockchain settlement system Swiss bank UBS (UBSG.S) is leading a team of four of the world's biggest banks developing a system to enable financial markets to make payments and settle t...

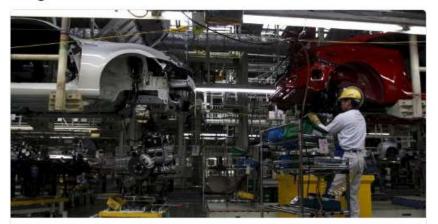
reuters.com



8:50 PM - 28 Aug 2016



"Toyota Financial Services plans to launch tests this year of blockchain distributed ledgers"



Toyota Unit Joins R3 Blockchain Group

Beyond financial transactions, Toyota Financial Services eyes distributed ledger technology for use in the automotive supply chain and in connected cars. "That's...

blogs.wsj.com









9:41 PM - 25 Jun 2016

LIKES



Distributed Ledgers Are Real



"Toyota Financial Services plans to launch tests this year of blockchain distributed ledgers"



"Four of world's bige system to settle trar w/blockchain"



UBS leads team of banks working Swiss bank UBS (UBSG.S) is lead

developing a system to enable financial markets to make payments and s

reuters.com















International Bu companies to test

The service is an industry, where t banks and exchar Depository Trust

are experimentin

Corp., have explo

Vala Afshar @ValaAfshar

THE WALL STREET JOURNAL.

"#Blockchain, isn't that the thing Bitcoin runs on," is like saying "Internet, isn't that the thing Amazon uses to sell books" —@petercoffee

RETWEETS LIKES 13 14

















3:13 PM - 22 Jul 2016

8:50 PM - 28 Aug 2016



stributed ledger

ted cars. "That's..

An Open API Can Connect with the Future of Data



"The Salesforce.com1 platform can push and pull data from the Blockchain APIs used on the web application built on Heroku with Node.js.

"Using the CRM software, businesses that operate with a Bitcoin License can generate reports on their customers, their Bitcoin transactions, their tax requirements on capital gains; and pull all of this data from blockchain APIs.

"The power is in the endless capabilities of Salesforce1 and the real-time data intensive transaction data built on Node.js. There is so much data available from the Blockchain."

- https://domsteil.com/tag/bitcoin-and-salesforce/



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In a connected world, continuity & coherence should be intrinsic

Coding: We Teach People to Hand-Craft, instead of Assemble

Writing new code = costly failure mode

```
IDENTIFICATION DIVISION.

PROGRAM-ID. SequenceProgram.

AUTHOR. Michael Coughlan.

DATA DIVISION.

WORKING-STORAGE SECTION.

01 Num1 PIC 9 VALUE ZEROS.

01 Num2 PIC 9 VALUE ZEROS.

01 Result PIC 99 VALUE ZEROS.

PROCEDURE DIVISION.

CalculateResult.

ACCEPT Num1.

ACCEPT Num2.

MULTIPLY Num1 BY Num2 GIVING Result.

DISPLAY "Result is = ", Result.

STOP RUN.
```



Is Future Success About "Learning to Code"?



F1 "Driver": \$30 million per year

Uber "Driver": \$34k/year*



I can't recommend becoming a "coder"



Yes, There Really Is a Low-Code Revolution



Leading the Low-Code Revolution

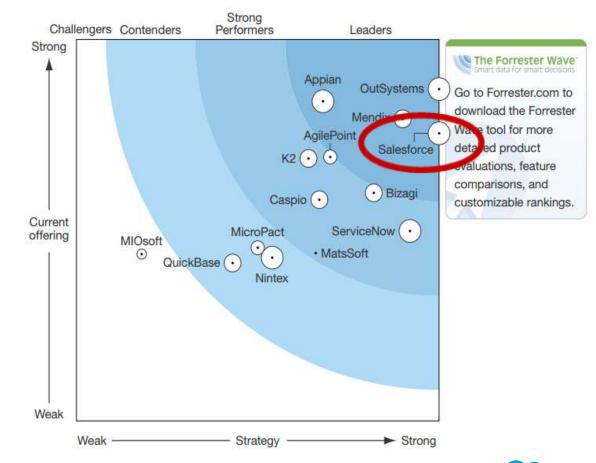
Jun 15, 2016 By Bobby Lancaster in App Cloud, Apps, IT

One of the most exciting developments in the world of apps is also one of the most democratic. No longer is app development exclusively the territory of programmers. Now, visual app development tools allow non-technical employees to become "citizen developers" who can build apps without writing code.



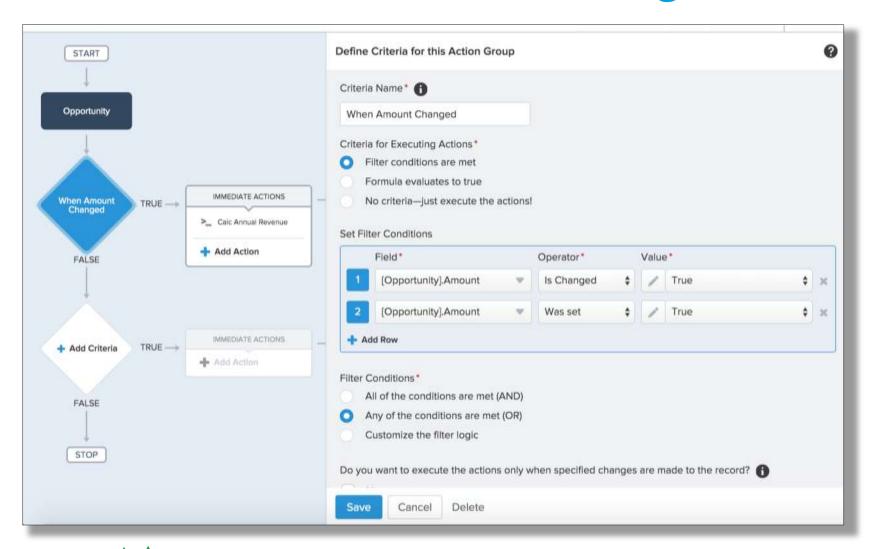
What this means is that the ability to build apps (and the responsibility for innovating) for a business becomes decentralized: anyone in any department can create software to solve a problem or address a need. Not only are problems being solved at the source, but coders are freed up to solve higher-order problems.

FIGURE 3 Forrester Wave™: Low-Code Development Platforms, Q2 '16





Salesforce Process Builder: Low Code, High Power





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Debugging: Security Model is Static/Perfectionist (vs. Dynamic/Risk Mgmt)

This is Game Theory: we should

- Deter
- Deceive
- Defend
- Detect
- Develop

Game theory is "the study of mathematical models of conflict and cooperation between intelligent rational decision-makers."



Someday, You Will Be Hacked. Design For That Day.

September 7, 2016 11:27 am

Safe as houses: how the super-rich make their homes super-secure

Hugo Cox

From face-recognition cameras to blast-resistant windows, the wealthy are going to greater lengths to protect their properties



"If you still hanker for a good old-fashioned safe, make sure it has two codes: one for normal use, the other for when you're being forced to open it, simultaneously alerting the police or your security team."

Programming Techniques R. Rivest Editor

How to Share a Secret

Adi Shamir Massachusetts Institute of Technology

In this paper we show how to divide data D into n pieces in such a way that D is easily reconstructable from any k pieces, but even complete knowledge of k-1 pieces reveals absolutely no information about D. This technique enables the construction of robust key management schemes for cryptographic systems that can function securely and reliably even when misfortunes destroy half the pieces and security breaches expose all but one of the remaining pieces.

Key Words and Phrases: cryptography, key manage-

- (1) knowledge of any k or more D_i pieces makes D easily computable;
- (2) knowledge of any k-1 or fewer D_i pieces leaves D completely undetermined (in the sense that all its possible values are equally likely).

Such a scheme is called a (k, n) threshold scheme.

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This is Game Theory: we should deter, deceive, defend, detect & develop

Estimation & Extrapolation: We Should Measure and Model

All existing market research spends too much to (mis)learn too little



Why Does Measurement Matter?

 People are slow and unreliable reporters of incomplete and inaccurate memories

FaxSync CrystalDecisions, CrystalReports, Engine, LoadSaveReportException: Load report failed. , EngineExceptionErrorID □ at \(\subset \subset B(String \subset \subset , Int32 \subset \subset \) at CrystalDecisions.CrystalReports.Engine.ReportDocument.Load(String reportName, OpenRepo at CrystalDecisions.CrystalReports.Engine.ReportClass.Load(String reportName, OpenReportMe at CrystalDecisions.CrystalReports.Engine.ReportDocument.□%() at CrystalDecisions.CrystalReports.Engine.ReportDocument. □3() at CrystalDecisions, CrystalReports, Engine, ReportDocument, get PrintOptions() at Nexsus.FaxServer.Presentation.frmShowReport.LoadReport() in C:\Documents and Settings\ at Nexsus.FaxServer.Presentation.frmShowReport.frmShowReport_Load(Object sender, Event. Settings\dilip.gajare\Desktop\Backup\frmShowReport.cs:line 242 at System. Windows. Forms. Form. OnLoad (EventArgs e) at System.Windows.Forms.Form.OnCreateControl() at System. Windows. Forms. Control. Create Control (Boolean Fignore Visible) at System. Windows. Forms. Control. CreateControl() at System. Windows. Forms, Control. WmShowWindow (Message & m) at System. Windows. Forms. Control. WndProc(Message&m) at System. Windows. Forms. Scrollable Control. WndProc(Message & m) at System. Windows. Forms. Container Control. WndProc(Message&m) at System.Windows.Forms.Form.WmShowWindow(Message&m) at System.Windows.Forms.Form.WndProc(Message&m) at System. Windows. Forms. Control. ControlNativeWindow. OnMessage (Message & m) at System. Windows. Forms. Control. ControlNativeWindow. WndProc(Message&m) at System, Windows, Forms, Native Window, Callback (IntPtr hWnd, Int32 msq, IntPtr wparam, IntF

Why Does Measurement Matter?

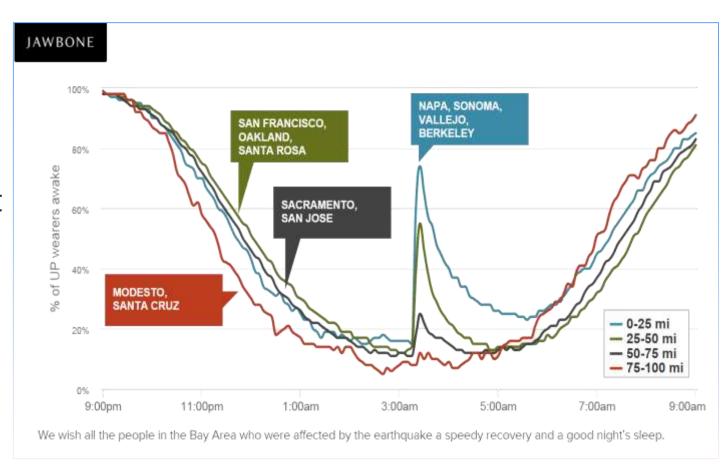
- People are slow and unreliable reporters of incomplete and inaccurate memories
- People are passengers, not test pilots: they're not thinking about indicators of trouble until the trouble is already there





Why Does Measurement Matter?

- People are slow and unreliable reporters of incomplete and inaccurate memories
- People are passengers, not test pilots: they're not thinking about indicators of trouble until the trouble is already there
- Statistical significance emerges much sooner with accurate, timely collection at global scale



GE Ascends to Co-Creation

"Salesforce gives everyone the synthesis of the data that we need to really know our customers.

"We can **build a community of** service professionals around a machine to help reduce maintenance costs and increase engine lifespan. Social will help us deliver a better engine than ever before."

- Beth Comstock, CMO, GE





packing PN j1438P016 on JAL stock and replaced the packing with no issue. Thank you very much for your kindle support!!

July 23, 2012 at 11:53 PM . Comment . Like

Write a comment.



Don't Talk to Me About "Digital Transformation."

Making it 'digital' is just the beginning

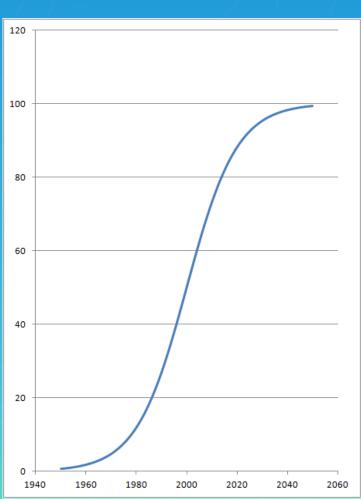
The *reason* to make it digital is to make it computable and transformable

The stuff you think is cool today is tomorrow's 1984 Macintosh

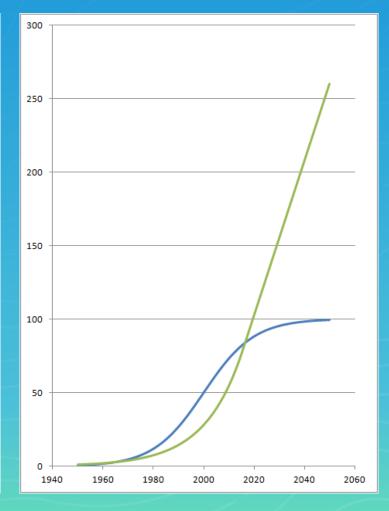


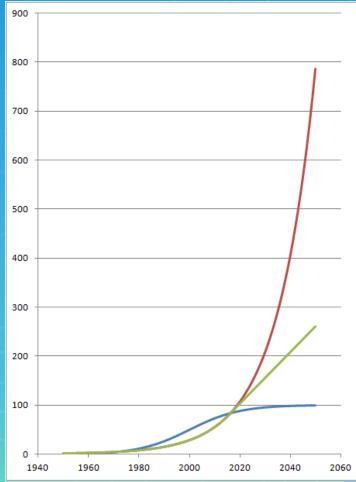


This is Acceleration, Not Saturation



"This has to level off" "That's too conservative" "You're both clueless"





Hockey-Stick Curves Are Not a Fantasy

From IBM PC in 1981 to HP 6305* in 2015

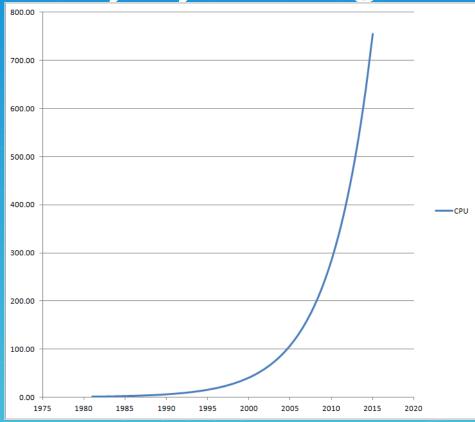
- 4.77 MHz to 3.6 GHz: Compute **speed** has risen **~20% per year**
- 64K to 4 GB:
 Memory has surged ~40% per year
- 160K to 500 GB:
 Mass storage tsunami ~50% per year

We didn't design for where we wound up going 300 bps to 50 Mbps:

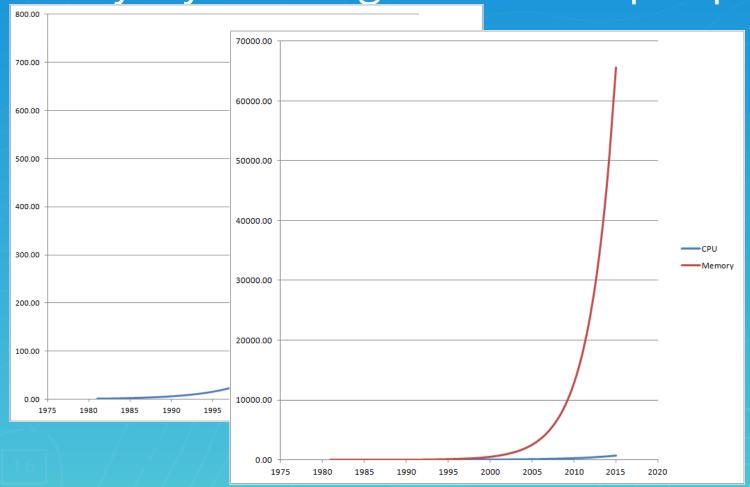
Connectivity has grown by ~45% per year

* (most popular desktop PC sold in USA)

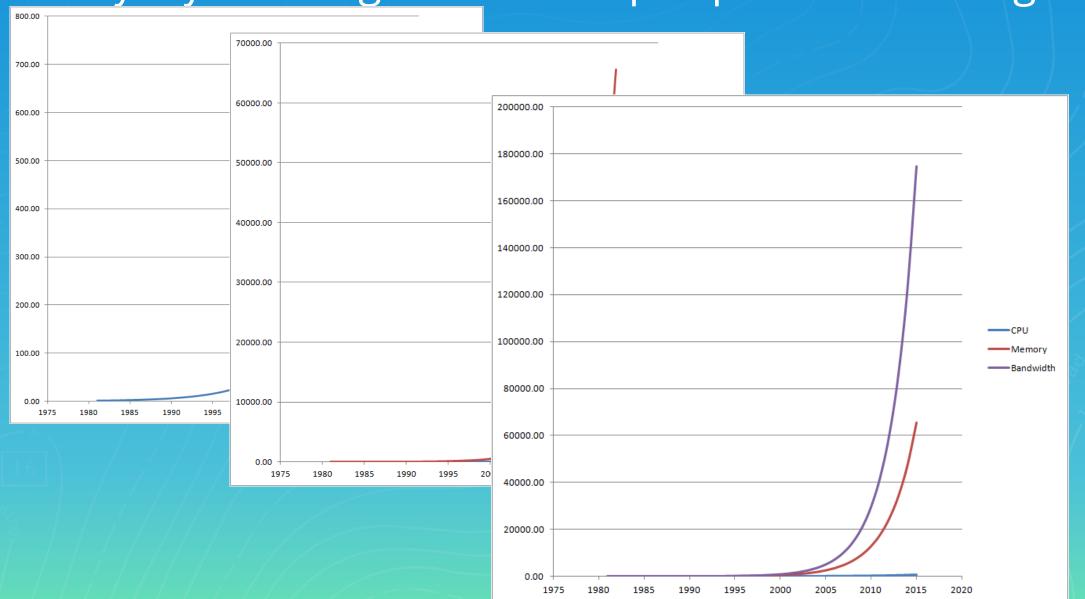




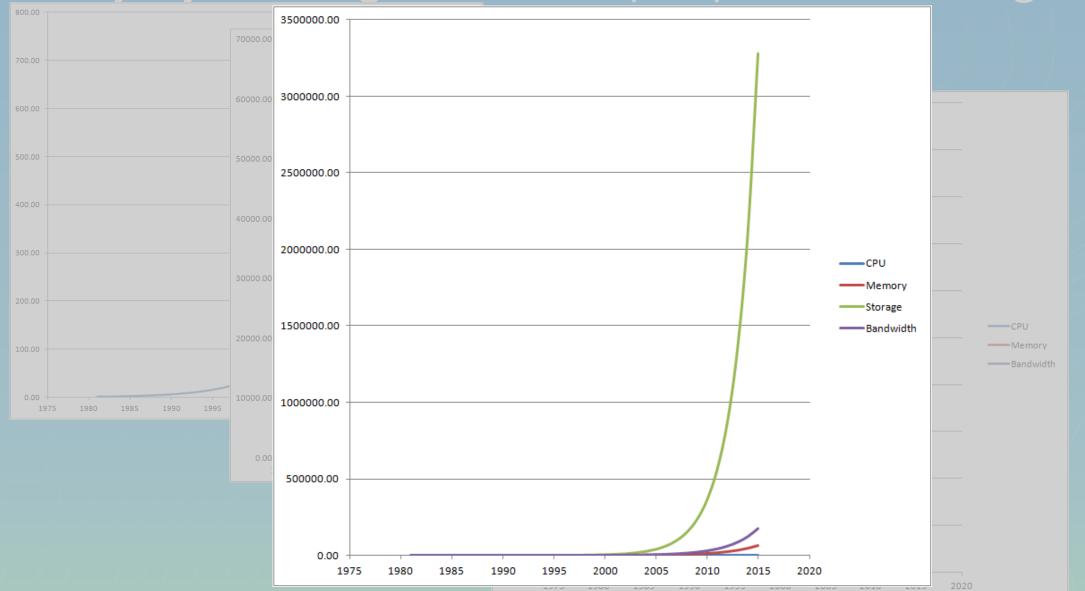














For example: the watch will not extend the phone. The phone will be a control panel for the watch.





For example: the watch will not extend the phone. The phone will be a control panel for the watch...

We won't just digitally enhance the sound. We'll digitize and operate on the raw signal.





The watch will not extend the phone. Rather, the phone will be a control panel for the watch.

We won't just digitally enhance the sound. We'll digitize and operate on the raw signal.

We will do things indistinguishable from magic...

MIT And Georgia Tech Develop System To Read

Closed Books Using Terahertz Radiation

T-Waves May Offer Just Right Choice

BY MARY PASCALINE ON 09/10/16 AT 7:25 AM

By Peter Coffee | Posted 2002-05-20



Every Device Connected & Intelligent

New England Biolabs/Xively

"We built a connected freezer with the Salesforce1 Platform so we can keep in touch with researchers in real time and better anticipate their needs. Now we can better support them to solve their problems."



...but we still struggle with *simple* things.

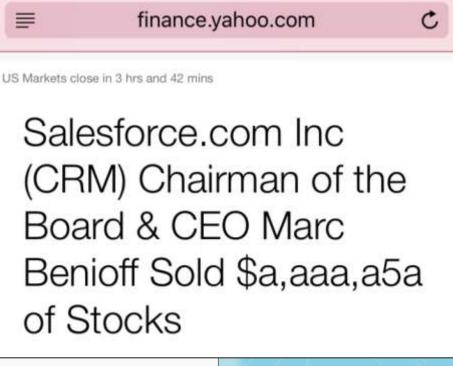
If data will have power, it *must* be trustworthy.

To: pcoffee@salesforce.com > of Stocks

Of NOTIFICATION: You landed this xx% off promo!

Today at 6:28 AM

What are you waiting for? Get more deals now!





Do You Realize How Old is the Acronym, "GIGO"?

"The first use of the term has been dated to a **November 10, 1957**, syndicated newspaper article about US Army mathematicians and their work with early computers, in which an Army Specialist named William D. Mellin explained that computers cannot think for themselves, and that 'sloppily programmed' inputs inevitably lead to incorrect outputs."

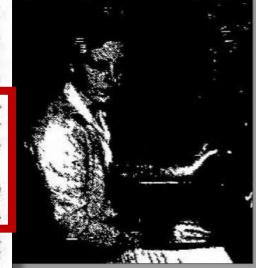
en.wikipedia.org/wiki/Garbage_in,_garbage_out

Work With New Electronic Brains' Opens Field for Army Math Experts

WASHINGTON — BIZMAC UNIVAC, GARBAGE IN-GAR-

In his Signal Corps work with the computer Mellin might be given a problem to solve in connection with radio frequency data. Done the old fashioned way it might have taken 50 girls with hand calculating machines a week to come up with the answer

One man however in this case
Mellin "programs the problem a
pre-panning task that may take a
few hours of a couple of days of
figuring out the step by step process to be taken by the electronic
brain"





Let's Not Rediscover GIGO at IoT Scale

"Moneyball has an implicit flaw not seen until quite recently. It depends, as all analysis does, on good, clean, and valid data and for that reason should only be applied in its pure form outside of baseball with care. Without care, you revert to the old IT maxim of GIGO or 'garbage in, garbage out.'

"We've just seen a painful example of GIGO play itself out in the US election..."

diginomica

The Moneyball failure



By Denis Pombriant November 15, 2016

SUMMARY: Without true information from customers, in CRM terms you're not much better than a HIPPO dealing with GIGO - go figure!

We increasingly use data and analysis to inform business decisions often replacing business processes that relied on little more than gut instinct. There's a long history of it.

Using one's gut is far from perfect, but for almost forever, that's all we had. It's one of the reasons that middle-aged men with grey hair have historically populated the executive suite. In the last few years, a derivative idea, the HIPPO, has



been trending. It simply means the "highest paid person's opinion" and it reinforces the concept that big decisions have tended to be made on that person's gut instinct.

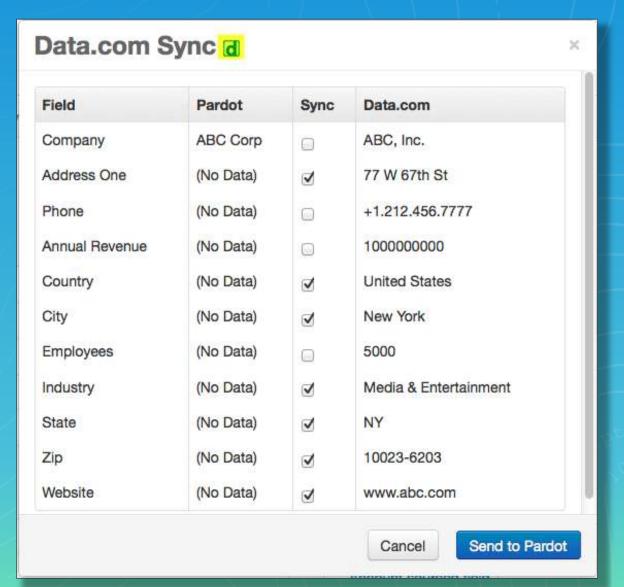


Data Quality Must Be Part of Platform Performance

"Data.com helps CenturyLink prioritize account records to update based on market segment and cleans the data so contact info is accurate, complete and current. Over half of their records have been updated so far – and the number grows daily.

"'Data.com arms our acquisition hunters with clean data to locate new leads and opportunities,' adds John Serdinsky, Director of Sales Effectiveness. "Data.com enables us to solve a number of problems with one investment."





Even Clean Data May Not Tell the Whole Truth...



"I'm sorry. My responses are limited. You must ask the right questions."







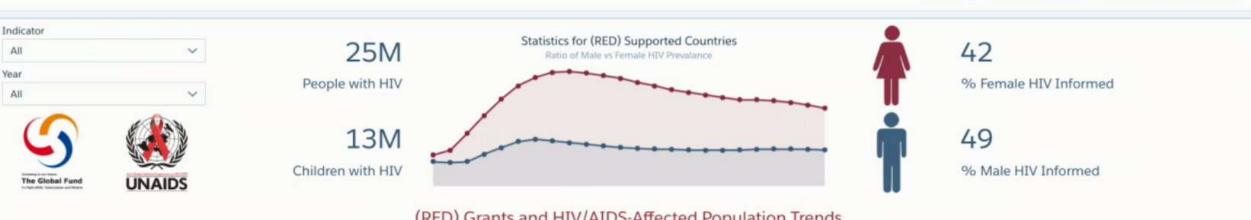




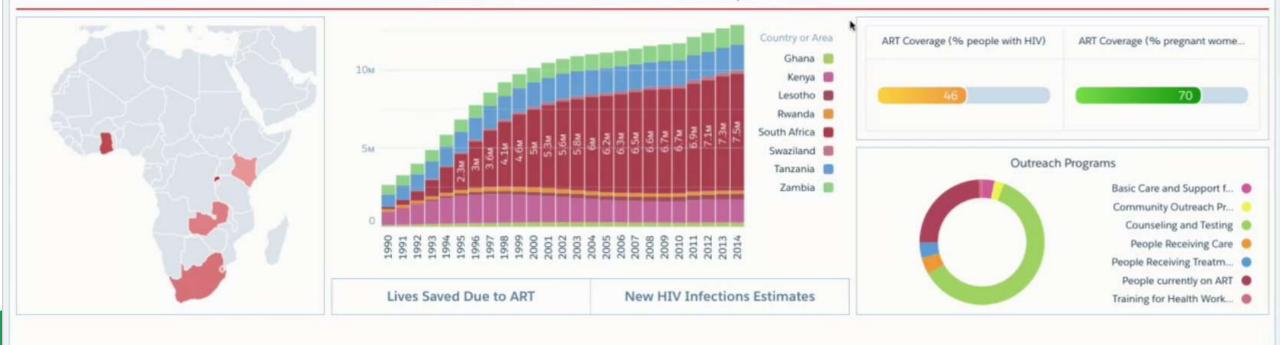


(RED) HIV/AIDS Outlo...

(RED) HIV/AIDS Outlook



(RED) Grants and HIV/AIDS-Affected Population Trends







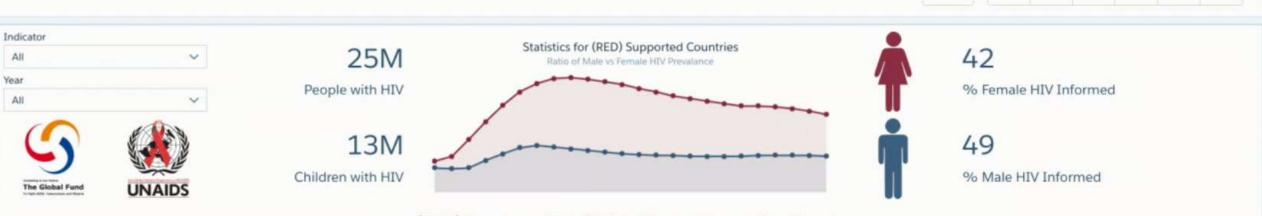




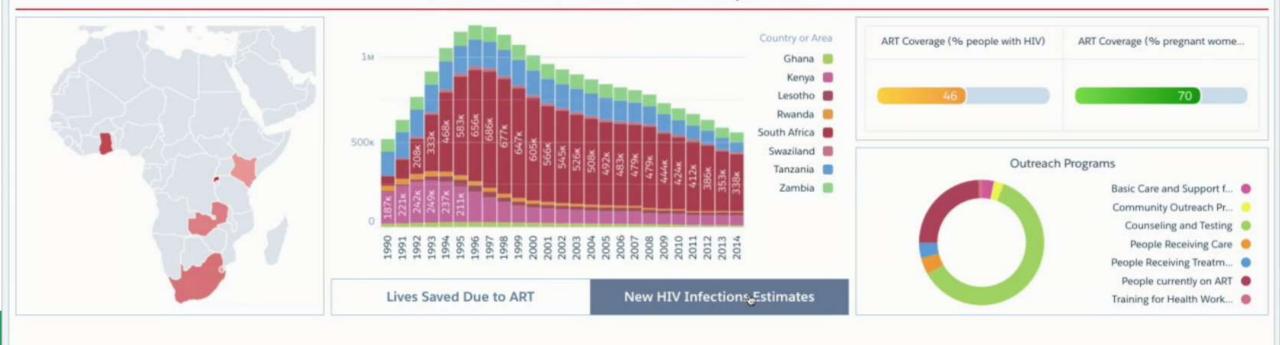


(RED) HIV/AIDS Outlo...

(RED) HIV/AIDS Outlook



(RED) Grants and HIV/AIDS-Affected Population Trends



So You Want to Be a Data Scientist

This Is Not an Utterly New Field of Expertise

"How do you become a data scientist? By behaving like a scientist while studying data."

Scientists Need to Have Good Lab Technique

Hiring typically seeks 5+ years of Java, Scala, Python, R, MapReduce etc.

Key traits? "Compulsive, with propulsive laziness, irritable determination and insensitivity to pain"

Don't Do This If You Need to Feel Popular

"I found a substitution effect in DoD research spending, instead of a multiplier effect: it was not what they wanted to hear" – Annie Flippo, edmunds.com



There are Speed Bumps on the Way to Intelligent Business

Mobile data will grow at 53% CAGR¹ between 2015 and 2020

Data proliferation

32%
of data is scattered across multiple systems²

Data fragmentation

58%

of O&G co.'s changing practices w/ mobile apps; 33% merely automating processes.3

Data stagnation

Demand for data scientists in 2018 will exceed talent pool by 300,000⁴

Data skills shortage

- $1. \ www. cisco. com/c/en/us/solutions/collateral/service-provider/visual-networking-index-vni/vni-hyperconnectivity-wp. html. \\$
- 2. nucleusresearch.com/forget-big-data-time-focus-real-data/

- $3. \ www.red hat.com/files/resources/mo-red-hat-mobile-survey-012016.pdf$
- 4. techcrunch.com/2015/12/31/how-to-stem-the-global-shortage-of-data-scientists/



Salesforce Is Focused on "AI First" Leadership

Thunder

Massive collection

Lightning Connect

No-Code integration

Lightning Process
Builder

Process abstraction

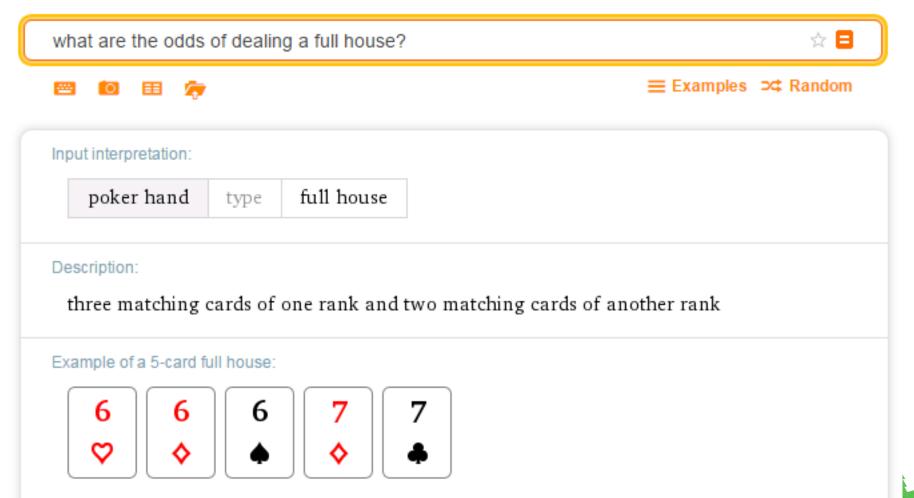
MetaMind RelateIQ MinHash PredictIO

Machine learning

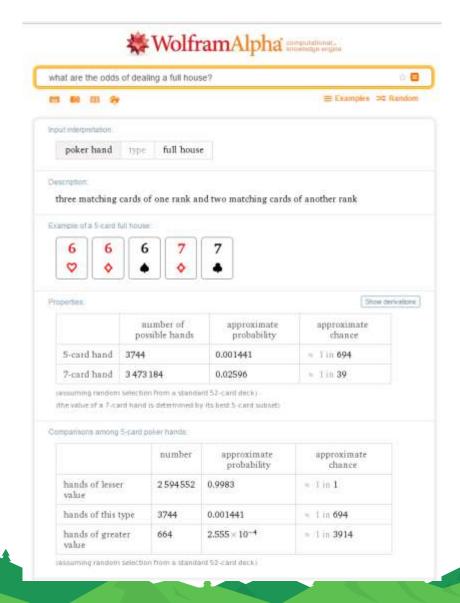


What Will People Still Get Paid to Do?





What Will People Still Get Paid to Do?





What's Not Being Surpassed by Technology?

SKILLS NEEDED IN THE FUTURE WORKPLACE

- and the drivers of change -



Transdisciplinarity: "We can no longer rely on just bringing together groups of specialists to solve our most complex problems"

Computational Thinking: "To understand the meaning, the trends and patterns of what the data is telling us becomes paramount."

- Institute for the Future

Sensemaking: "When you ask creative people how they did something, they feel a little guilty because they didn't really do it, they just saw something" - Steve Jobs

Social Intelligence: "Influence and relationship-building will now come from asking the right questions, not necessarily having all the answers"

- John Hagel

ADAPTED FROM: Institute for the Future, Future Work Skills 2020, 2011



If I End With Three Druckers, This Must Have Been Smart

"There is nothing quite so useless, as doing with great efficiency, something that should not be done at all."

"If you want something new, you have to stop doing something old."

"Management is doing things right; leadership is doing the right things."



What Are The Dumb Things We're Doing?

- A Assuming & Optimizing instead of Assessing and Adapting
- B Bridging Isolations instead of Chaining Collaborations
- C Coding instead of Composing
- D Debugging Brittleness instead of Gaming for Resilience
- E Estimating & Extrapolating instead of Measuring & Modeling



Thank You

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