

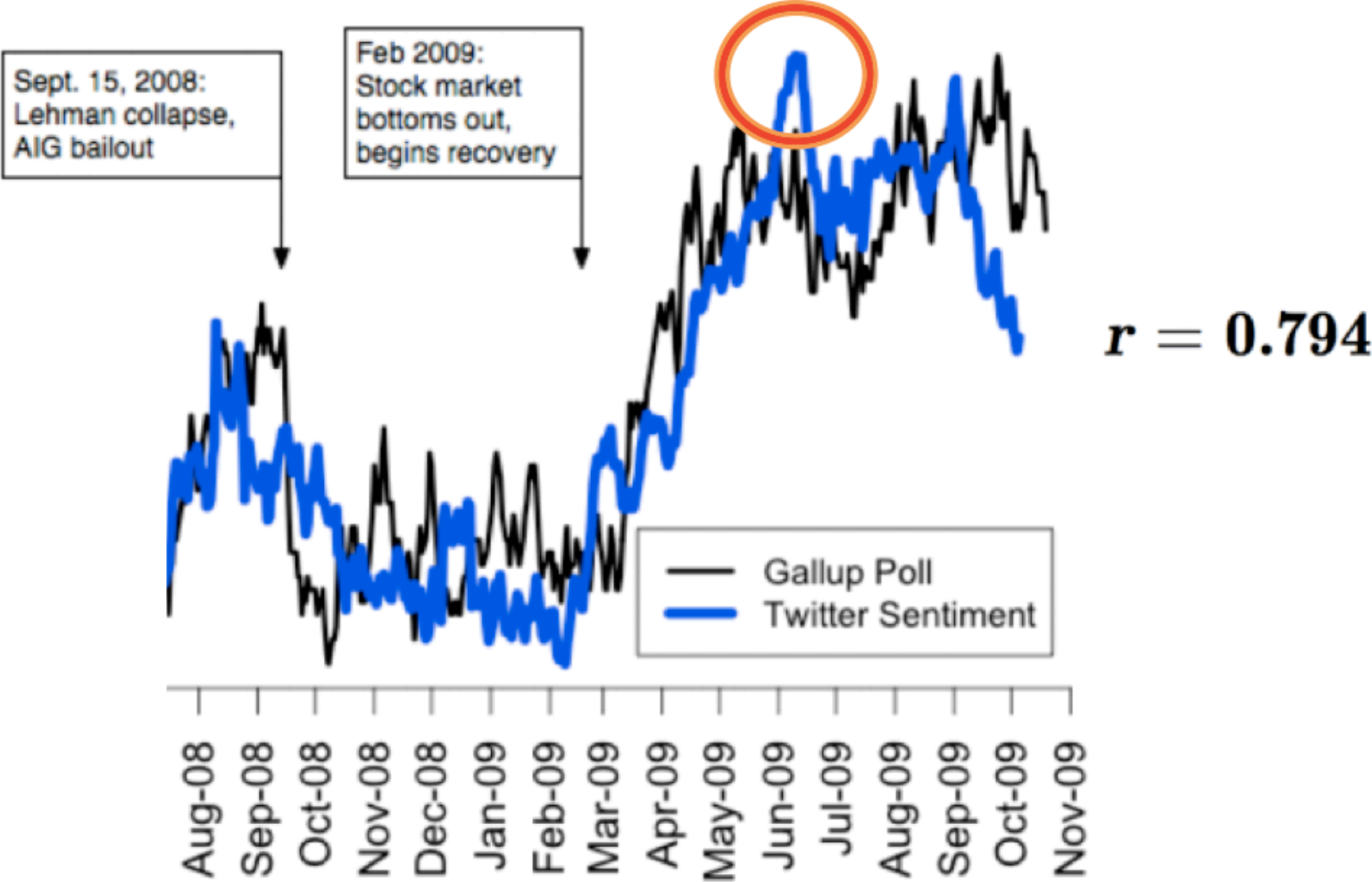


Convey: A New Generation of Social Intelligence

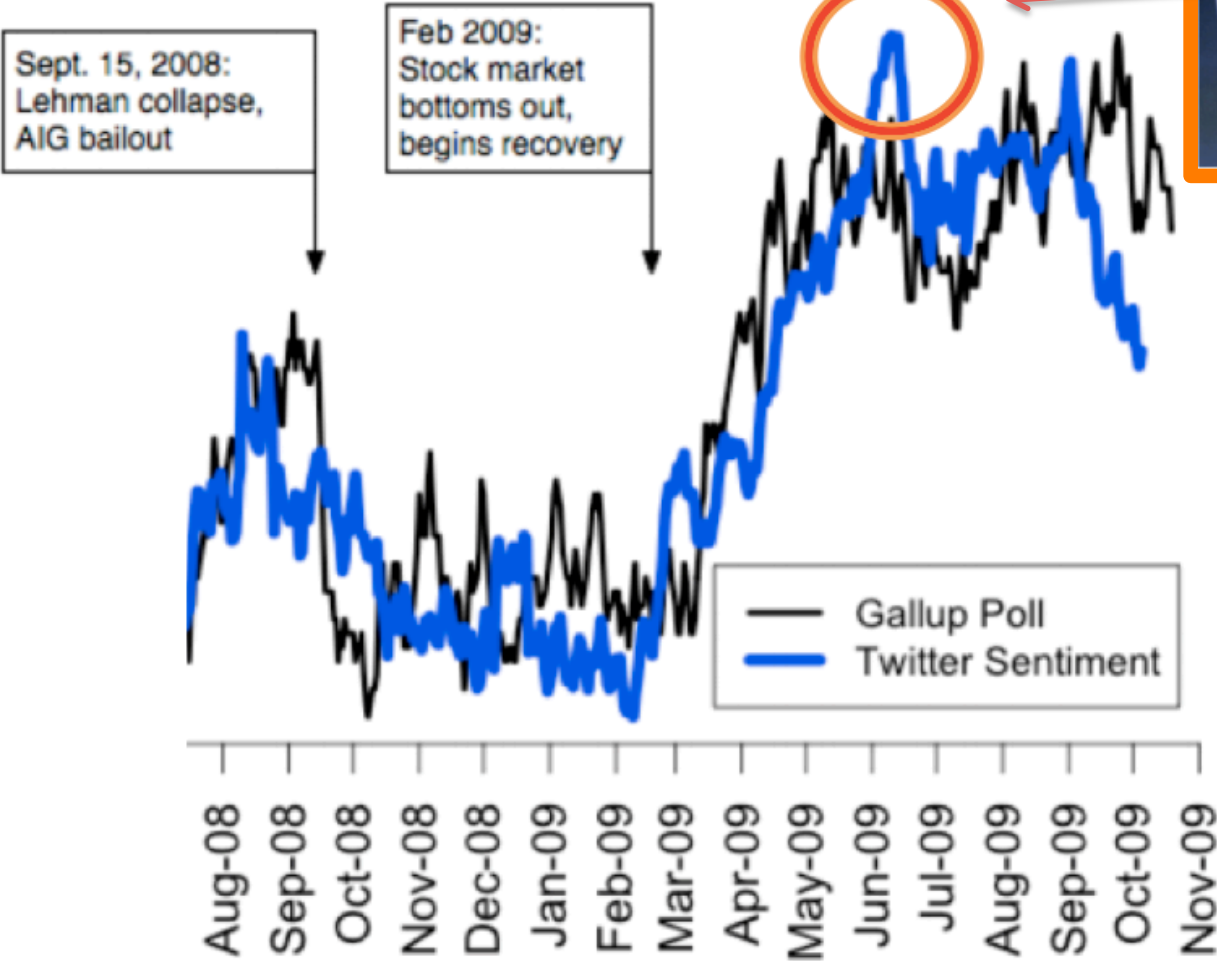
Sentiment Symposium



Correlating consumer confidence with mentions of “jobs” on Twitter



Yay! Steve Jobs launches a new iPhone!



$$r = 0.794$$



Relevance often fails with “word spotting”

- “T-Mobile” will be found quite easily
- “Sprint” not so much
- “Verizon Wireless” is also not easy to isolate

...T-Mobile



Booleans are like doing wood carving with a chain saw

- How do you set up a Boolean search for Sprint?
- “sprint” AND “phone”?
- “sprint” AND “cell”?
- “sprint” AND NOT “car”?
- “sprint” AND NOT “race”?
- “sprint” AND NOT “run”?



Instead, train with machine learning

Webpage Screenshot

Converseon Interrel

Quickstart

Sandbox

Start training: "Sprint" from random

Seed documents

Let's get started, please review these documents

@FSMBELGIUM What would you like to see more of at Super Sprint events this year?

#health When i bend down such as this, men go mad <http://t.co/AzVpy5ii>

#tfbjp Excitation is all more than the place <http://t.co/mbtfkpUB>

@thejohnbrennan It's a marathon, not a sprint. Do you love it yet?

RT @KastroDaOne: The dreaded moment when u sprint to the bathroom for your "morning pee" and someone is already in it! :(

Exit mentions RT @MartezLV: "@KAM_iAM: Where is sprint in Florence ???" Google it.

#ipad Chloe you soooooo have to see this <http://t.co/4AuD9OQI>

@Sprint 's new 3G speeds are wayyyyyyy better. I love it.#MuchAppreciated

New blog post imported from «Wired» by deus ex machina: Sprint Connects With the 2013 Ram Pickup, Dod... <http://t.co/tGN6enVw>

#lol I presume myself, i truly like this <http://t.co/qLc1Eat2>

Word-spotting sentiment analysis misses sarcasm

July 04, 2007

Fixing the iPhone - Independence Day

Link: [Fixing the iPhone](#) | Crave : [The gadget blog](#). This article at Crave

Treo™ 700P
SMARTPHONE



contains a laundry list of the functions missing from the iPhone that may, or may not, be fixed in the next iteration. For now, declare your independence from the hype and choose a cell phone

based upon functionality and usefulness and open architecture, rather than beauty. **Oh, the iPhone is a beautiful girl, no doubt.** But she entices with exterior charm, and doesn't deliver on the promise. I am going out to the beach now; I am spending my Independence Day on the tip of the Treasure Island, Florida peninsula, caressing my Treo and letting her know that she is still my girl, and that I love her very much.

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July 04, 2007 in [Computers and Gadgets](#) | [Permalink](#)

“Oh, the iPhone is a beautiful girl, no doubt.”

The automated sentiment analysis failed to identify the sarcasm and coded the entry as *positive* for iPhone, while failing to understand the author was actually saying there was no value for the iPhone beneath its flashy exterior

Word-spotting sentiment analysis misses nuance

“I waited on line for my entire lunch hour at my Wells Fargo branch today.”

You know that these are negative, but there is no word to tell the algorithm

These would be marked neutral by most algorithms

“State Farm never told me I had no flood coverage.”

“Amazon wouldn’t refund my money.”

Word-spotting sentiment analysis misses context

- ***The same words mean different things***
- That movie has an *unpredictable* ending.
That restaurant has *unpredictable* food quality.
- This new cell phone is *small!*
This hotel room is *small!*
- What's a poor word-spotting algorithm to do?



Word spotting leads to the wrong conclusions



- **Lack of relevance:** Many conversations you think are about you, aren't.
- **Poor accuracy:** Many automated sentiment solutions are as good as a coin flip.
- **Generic:** All analysis is applied the same way across domains
- **Language Evolves:** Slang, sarcasm is rampant in social media. Dictionary-based approaches are largely ineffective.



Convey™ scales human-level accuracy in text analysis



Convey™ is a powerful text analytics engine, yielding the industry's best accuracy; **over 90% of human performance**.

Dataweek Social Media Innovator of the Year.

It utilizes natural language processing, statistical modeling and machine learning techniques to return content-specific annotations.

Highly scalable, large-volume text analytics achieving human-level performance

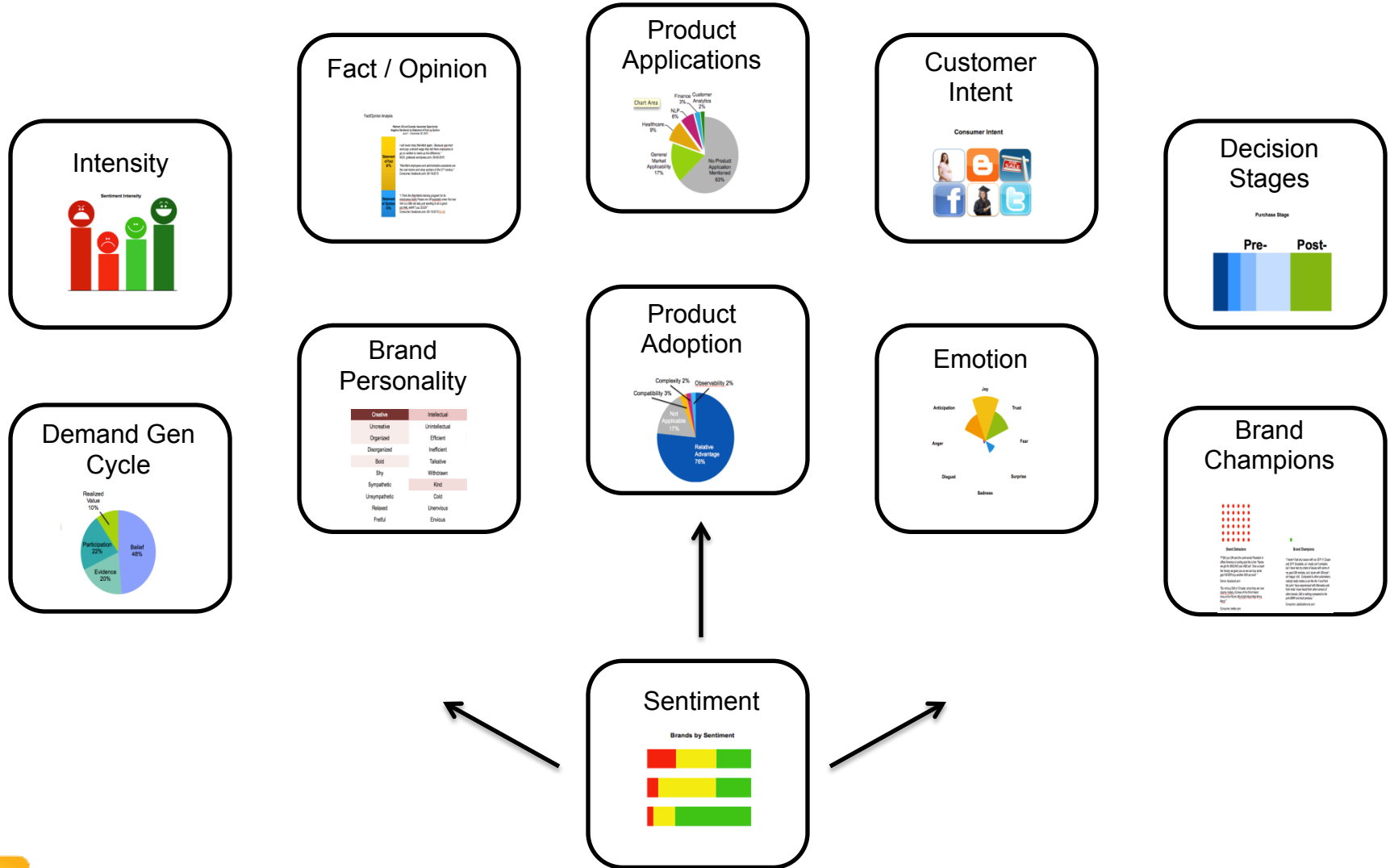
Supported annotations include:

- **Sentiment (polarity)**
- **Emotion**
- **Intensity**
- **Spam**
- **Relevance**
- **Custom Classifiers**

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"documents": [
  {
    "text": "now is the time for all good men to come to the aid of their country.",
    "annotations": {
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        "value": "positive",
        "confidence": 0.4644159728829226
      },
      "emotion": {
        "value": "anticipation",
        "confidence": 0.2538278908872076
      },
      "intensity": {
        "value": "none",
        "confidence": 0.07847689486351318
      },
      "spam": {
        "value": "not spam",
        "confidence": 0.8790331817466877
      }
    }
  }
]
```



Convey opens the door to a new generation of insight



Our Academic Pedigree



Dr. Philip Resnik
Lead Scientist

Dr. Resnik holds joint appointments in the Department of Linguistics and at the Institute for Advanced Computer Studies as a professor at the University of Maryland.

His research focuses on combining knowledge-based and statistical methods for natural language processing

His current work is supported by NSF, DARPA, IARPA, ARL, and a Google Research Award.

Dr. Jason Baldridge
Sr. Data Scientist



Dr. Baldridge is a noted expert in Natural Language Processing.

He currently holds a tenured position as an associate professor of computational linguistics at the University of Texas at Austin.

In 1999, he co-founded the OpenNLP project and created the OpenNLP Toolkit, which was recently incorporated into the Apache Software Foundation's portfolio.



Classifiers need not be one-size fits all

- New Convey announcement today
- Classifiers specific to *industry* verticals
 - Automotive
 - Pharmaceutical
 - Hospitality
 - Financial services
 - Consumer Packaged Goods (CPG)
 - Consumer/Business technology



Thank you

Mike Moran

Chief Strategist

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