

Prediction Markets for Bitcoin

"Ending the Age of Bullshit"

First Half Of Slides Presented to MIT Bitcoin Club

on

Jan 20th, 2015

- Paul Sztorc

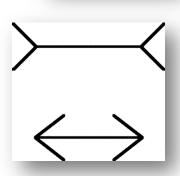


Who / Why

- Degrees (BA, MS-M, MBA) from CWRU in economics, psychology, statistics and finance.
- Researcher at Yale Economics Dept for 2 years.
- Consulting experience Finance role.
- Lifelong interest in human biases and prediction markets.









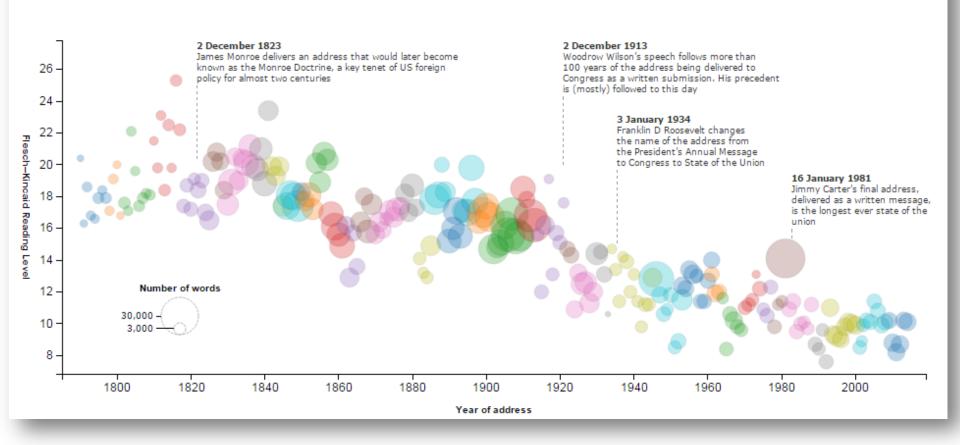
- I used to believe in **learning** and **sharing knowledge** through discussion. Now I think that's a waste of time.
- In fact, I feel it is immoral:
 - Talk is cheap (and you get what you pay for).
 - Encourages trust in experts/authority
 - Better to trust one's own experience, or, even better one's own skepticism (cautious people do "OK").

Our Age: The Age of Bullshit

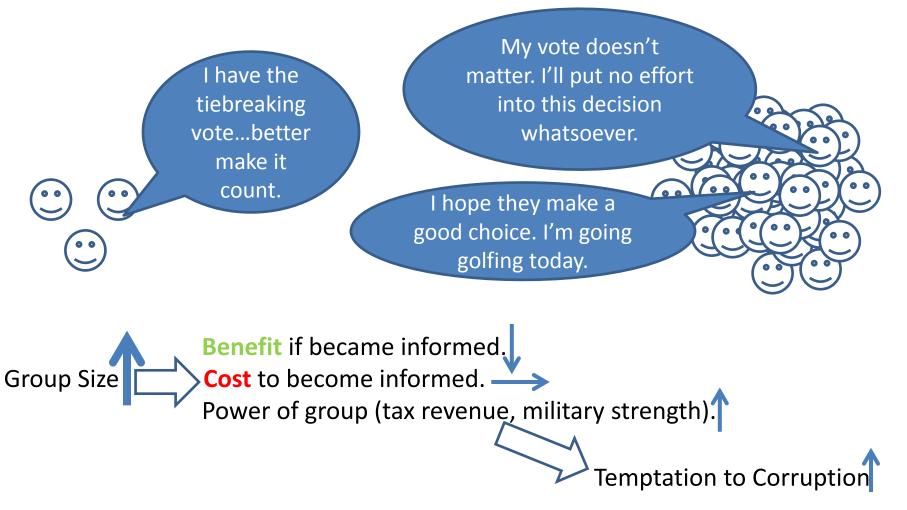
The state of our union is ... dumber:

How the linguistic standard of the presidential address has declined

Using the Flesch-Kincaid readability test the Guardian has tracked the reading level of every State of the Union

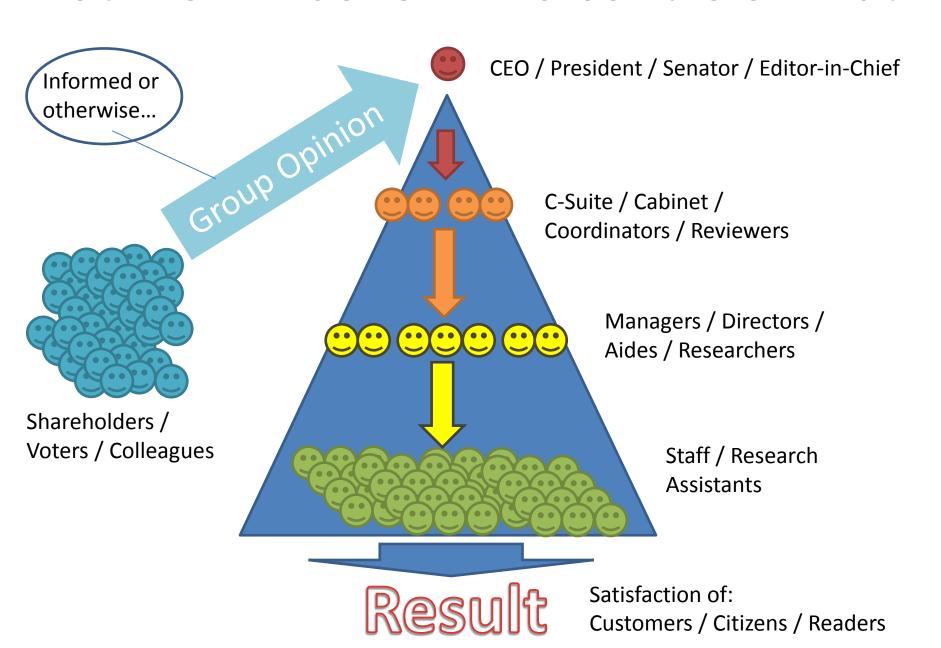


Why so bad? Scale. Ex: Voting

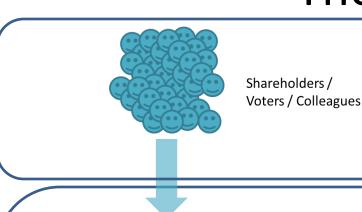


- 1. We are **choking on information**: too much on each plate, no reason to chew.
- Too many info-sources, not enough info-aggregation.

Rot From Above: Who controls what?

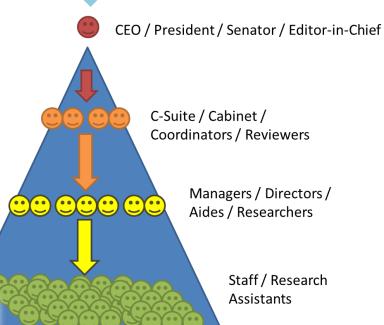


Ownership and Control: The Weakest Link



- 1. How to we **combine** the many preferences of this group into one request?
- 2. Do we each have to **monitor** the leader's work? If not, who do we trust (and why)?
- 3. If I don't like this leader, how do I find out if others agree? How do we <u>fire the leader</u>?





Can easily...

...make requests.

...observe work/results.

...fire insubordinates.



Quis custodiet ipsos custodes? – "But who is in charge of those who are in charge?"

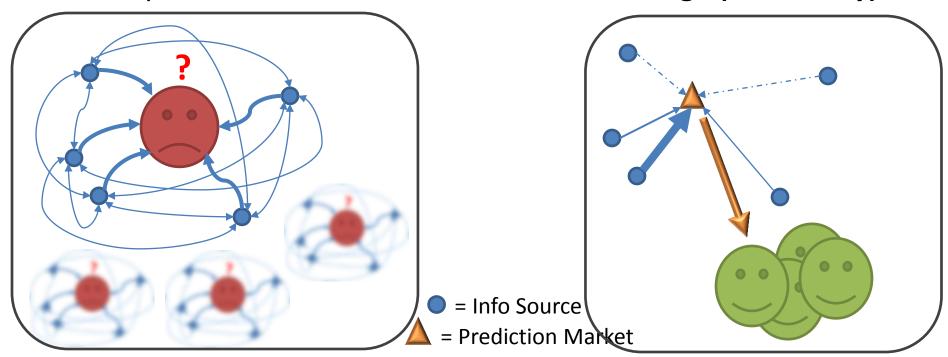
Truthcoin enables **Prediction Markets** to Aggregate Info

• For the Public: Reliable and Common Information

It's right.

It's broadcast to everyone (and everyone knows that everyone got it).

For example: no more bullshit about climate change (either way).



1. PMs: 'stock market' for a special kind of derivative.

Below: event derivative (InTrade.com) on 2012 global warming

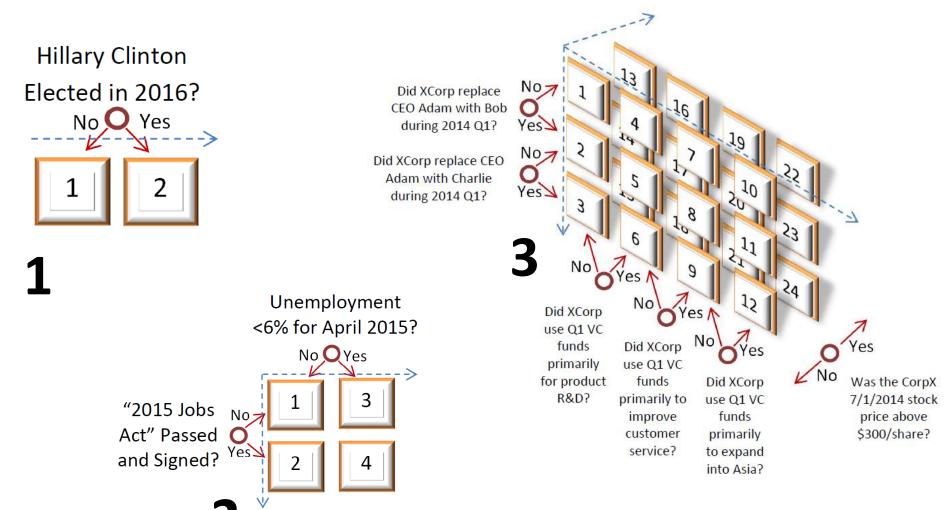


Ran from Jan 2011 to End of 2012

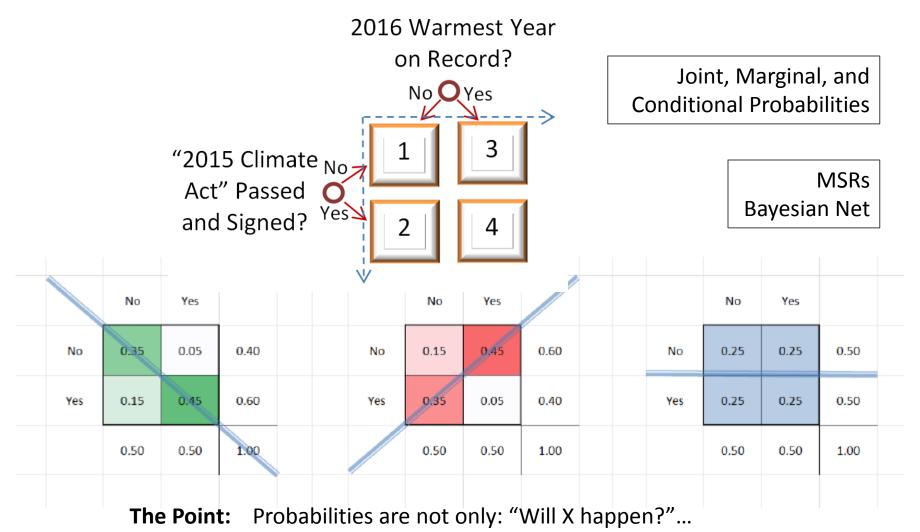
Climate Change: PM vs Talk

- Talk: Why even bother becoming informed?
 - Hard to learn this stuff (and I only have so much time)
 - How am I supposed to convince others?
 - Why résumés must be short (info-processing costs).
 - Minimal-info strategies (join a tribe/"political party").
- PM forces a clear definition.
- Prices are constantly and unanimously acceptable.
 At all times, everyone agrees with the price (if not, they can profitably trade).
- Note: Suppose climate change were false. The "reliability" and "broadcast" problems are much worse.

Prediction Market Magic: More Than One Dimension



More Dimensions: More Forecasts, AND More **Relationships**

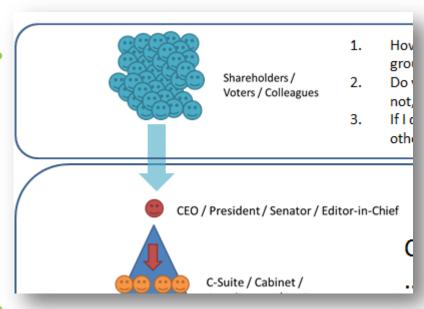


...they are also: "Would Y influence X?"

Multidimensional Governance

Applications

- "Which CEO would most increase our stock price?"
- "Which President would most decrease unemployment?"
- "Which FED Policy would most increase GDP?"
- "Which law would most decrease violent crime?"



So much more:

- Betting "in" USD / DJIA / etc.
- Provision of Public Goods (without taxes)