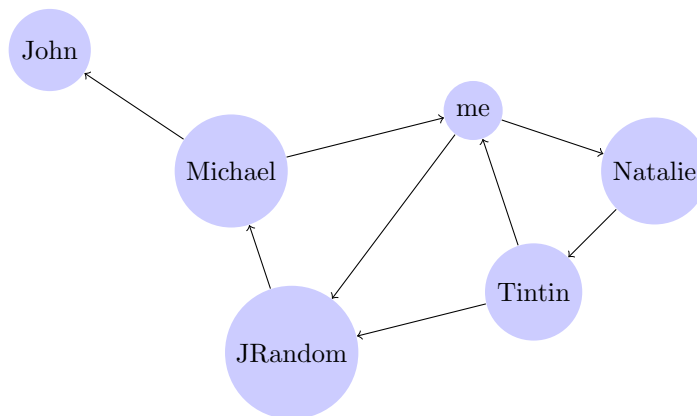


# example

June 22, 2011



ps. This story is fictional.

Michael just wrote an article about the impact of the ozone hole in the climate. He thinks that this article has these properties.

1. It is a scientific article about the climate , so it can be rated whether it is important to the scientific community of Climatology.
2. It is a scientific article about the climate , so it can be rated whether it is scientifically well founded from the point of view of Climatology.
3. It is a scientific article about the climate , it can be rated whether the experiments and statistics have been done correctly.

He checks to see if someone else has created those properties. If not he creates them and then he attaches those properties at this specific article. After that he rates those properties.

Michael wants others to find his article. In order to do that, he has to attach to those new properties a human property that is needed to rate these properties. He looks for previous human properties and he finds that someone else has created the human property of being a good meteorologist. He doesnt think that it is specific enough, so he creates the human property of being a Climatologist. He then goes and order the human properties that should be used if the previous Human property hasnt been used as source of information

by a specific person, node. Firstly, he puts the HP 'Climatologist', then he puts 'Meteorologist', then he puts all other properties that are related to science. If a person, node doesn't know people that are scientists, they will have to obtain their information from the so called general trust, ie the property 'trustworthy'.

Jrandom who is a friend of Michael checks Michael's article, he sees the rating that his friend has put plus the rating that everyone else has put and the weights that he has put that define his opinion. (This opinion is the rank that will be used to rank articles for him). Jrandom had already put Michael as the sole source of information (apart from that of the sum of all users' ratings) when it comes to the human Property 'Meteorologist'. He knew he was a climatologist, but since then Michael has only rated articles about the weather Forecasting. Because Michael put the HP 'Meteorologist' second in order, that is why Jrandom used those weights to have his own opinion (automated). Jrandom sees that those properties are specific to Climatology and defines his source of information for Climatology (weights). He puts more weight now for Michael's opinion since he knows this is his expertise.

Let me remind you that when we use someone as source of information we either use his opinion or his automated opinion derived from his sources. The second works as a form of propagation. Moreover, if your SOI, or friend hasn't rated the property of an article, the weight of his opinion is redistributed into the others in a way that he pleases. (It will be required to limit the freedom of redistribution due to memory shortages)

Tintin knows that Jrandom has friends that are good in Meteorology, so he uses his automated opinion. He has defined SOI for the HP 'Meteorologist'. He has put 0 weight to the opinion of Jrandom. Me is a Philosopher. I mostly look at the sky for inspiration and nothing more. I either don't have friends that are Climatologist meteorologists or I just can't distinguish people who know about the subject, because I simply don't know about these things. I am good at finding trustworthy people though and I have defined the General Human property with weights to Jrandom and Natalie.

Let me also remind you that a person can have multiple (automated) opinions, he can keep one for himself, the real one, and send other automated opinions to his friends. That means that everyone can lie.

Some time passes and more Climatologists (or not) use those properties for their articles. Me, one day, started worrying about the Climate. He went into the site (wiki), looked at the properties, chose to rank articles with the first property that Michael had created and searched the term Ozone. After clicking enter, Michael's article came first because it had received the best reviews through the trust network of Me.

How did the ratings for this article propagate to reach Me? They propagated through semantically different kinds of trust. In fact each property of an article defines through the ordering of HP about a specific property, a new graph.

In fact Me can be informed if there are enough trustworthy ratings. He could choose not to include articles with low number of trustworthy ratings (I leave this unexplained)

as you can see, the ordering of HP is a vector of attack, but that can be fixed

easily. The ordering is necessary, since everyone can create a new property and it is impossible for everyone to update all the time their SOI.

A big difference between advogato and this metric is that advogato only allows open source 'advocates' to rate other open source 'advocates'. In real life, and that was the reason of the creation of this metric, It is necessary that we judge people about things we are not experts. That is why the propagation of information through semantically different trust is important.