



Streamlining Social Decision Making for Improved Internet Standards

IETF 115 Hackathon

 sodestream.github.io



This work is funded by the UK Engineering and Physical Sciences Research Council, under grants EP/S033564/1 and EP/S036075/1.

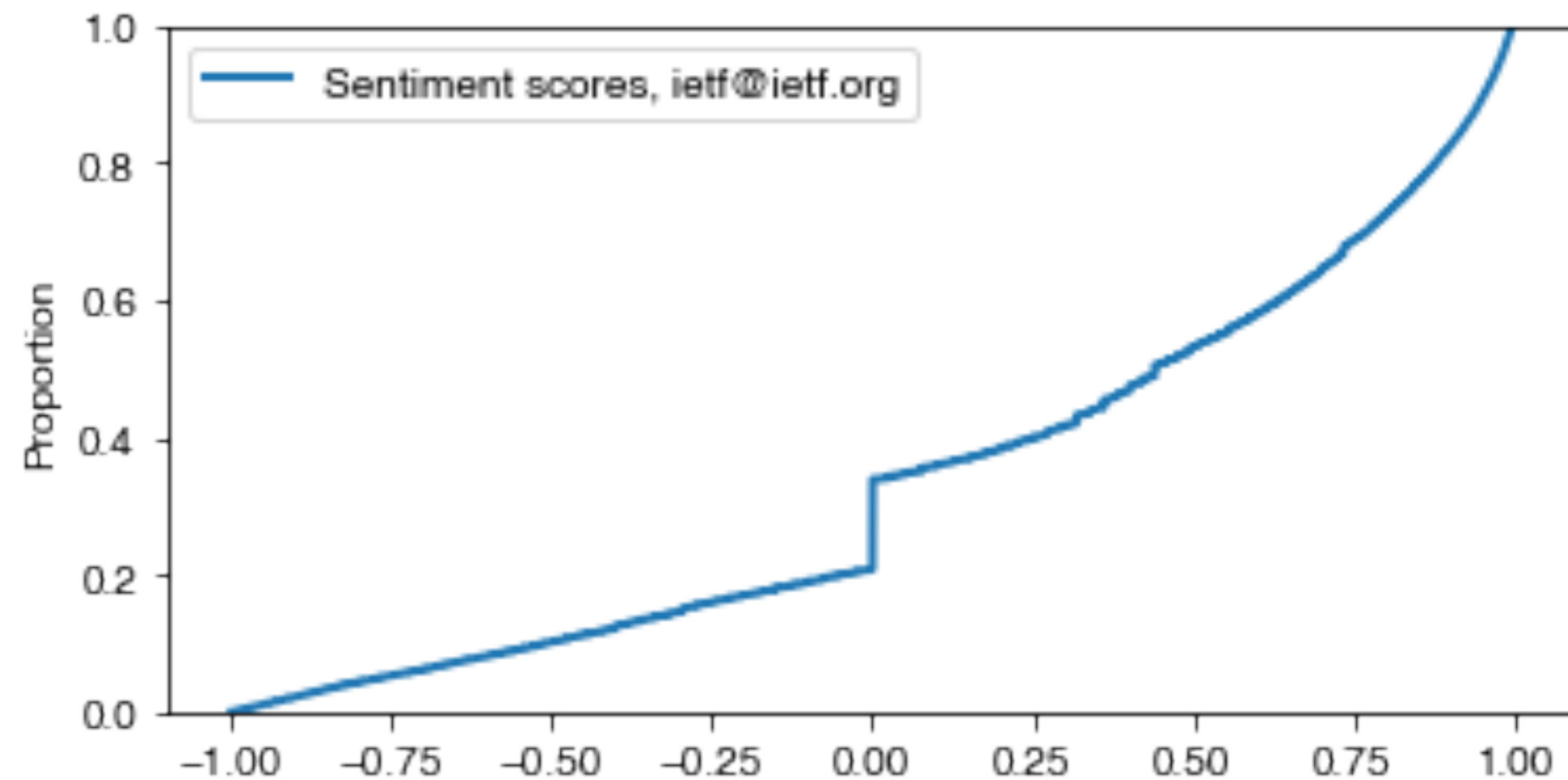
Hackathon plan

- **Sentiment analysis of ietf@ietf.org postings**
 - *The ietf@ietf.org mailing list provides a forum for the broad discussion of IETF-related topics. Sentiment analysis techniques could be useful in characterising the tone, and levels of toxicity, in the interactions that take place on this, and other, IETF mailing lists. With historical data, these trends can be tracked over time, providing insight into how the IETF community is evolving.*

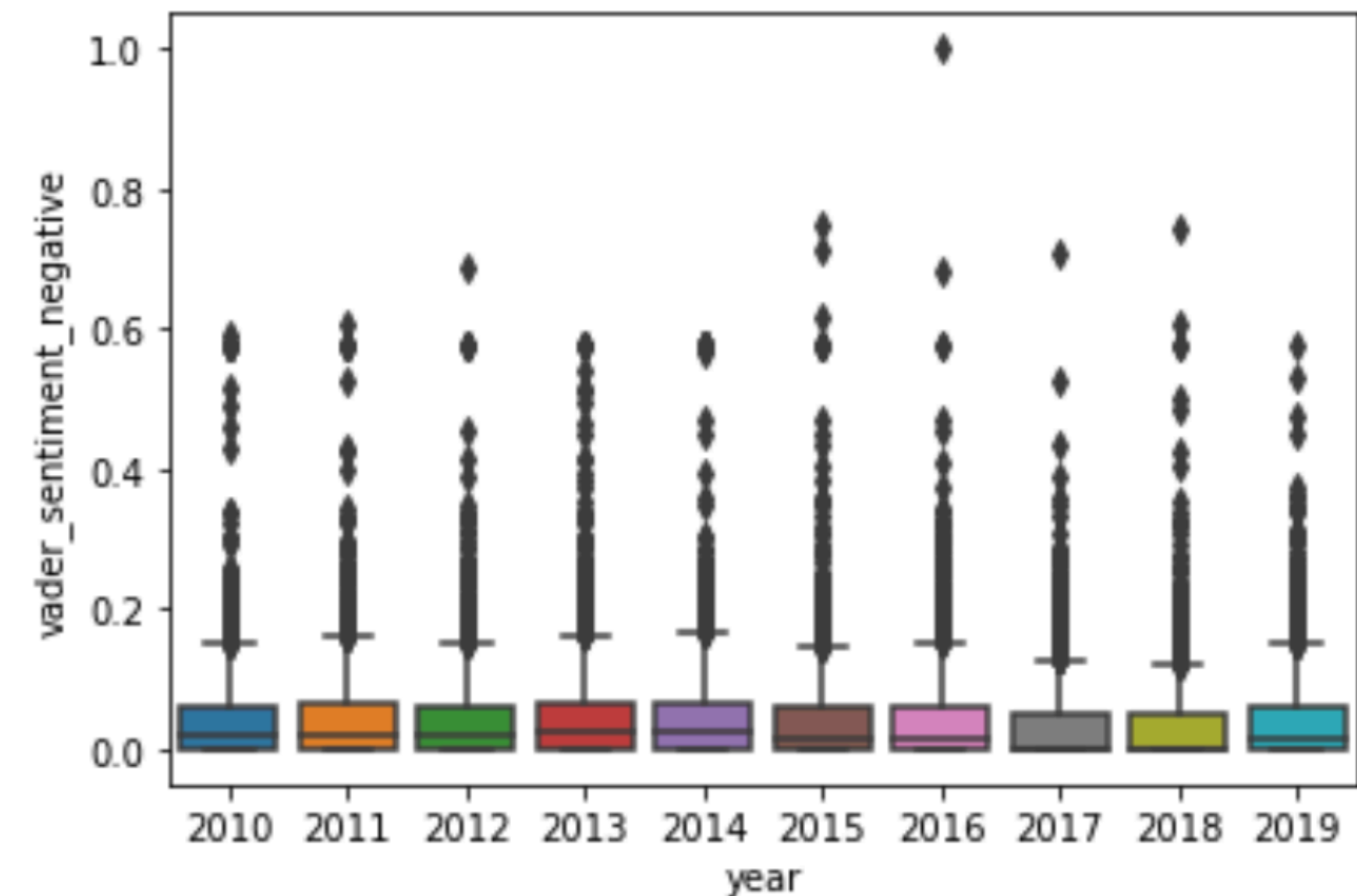
What got done

- Generated a dataset of sentiment scores, passing e-mail through the VADER library to understand if messages are broadly positive, negative, or neutral
- Started to plot broad trends over time, and for individuals
- Sketched out improvements to tooling documentation and packaging

What we learned



<AxesSubplot:xlabel='year', ylabel='vader_sentiment_negative



- Initial evidence of some interesting trends: relatively low levels of negativity, more negativity on weekends and via person e-mail addresses, more positivity on Monday's...

What we learned

- **Sentiment analysis over technical text is difficult**
 - “dropped packets”, “killed process”, “abort transmission”, ...
 - Essential to build up a lexicon of technical phrases to avoid misclassification

Wrap-up

- **Team members**
 - Elizabeth Boswell, Ignacio Castro, Mladen Karan, Prashant Khare, Stephen McQuistin, Mairi Sillars Moya, Ivan Nikitin, Hugo Ramirez, Ravi Shekhar
- More information available from <https://sodestream.github.io>
- **This project relates to efforts to form a potential IRTF Research Group around "Researching Internet Standards Processes".** A side meeting will be taking place on Thursday, November 10th, 15:30 to 16:30 in Mezzanine 12. Further information is available from <https://pad.riseup.net/p/charterdiscussion-keep>.

We need your help!

- We are building a reviewer recommendation engine for the IETF. This is intended to help Working Group chairs by automatically suggesting available reviewers for given drafts based on a composition of interests and expertise.

