

“Multimodal Sentiment Analysis on Political Extremism Content”

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Political Extremism

- An extremist group -> individuals whose values, ideals and beliefs differ significantly of what society considers normal
- Extremists Social Networking groups (forums) to exchange ideas, propaganda, or express their beliefs
- 5,3 Gb , DAS-4 , JSON files , many categories

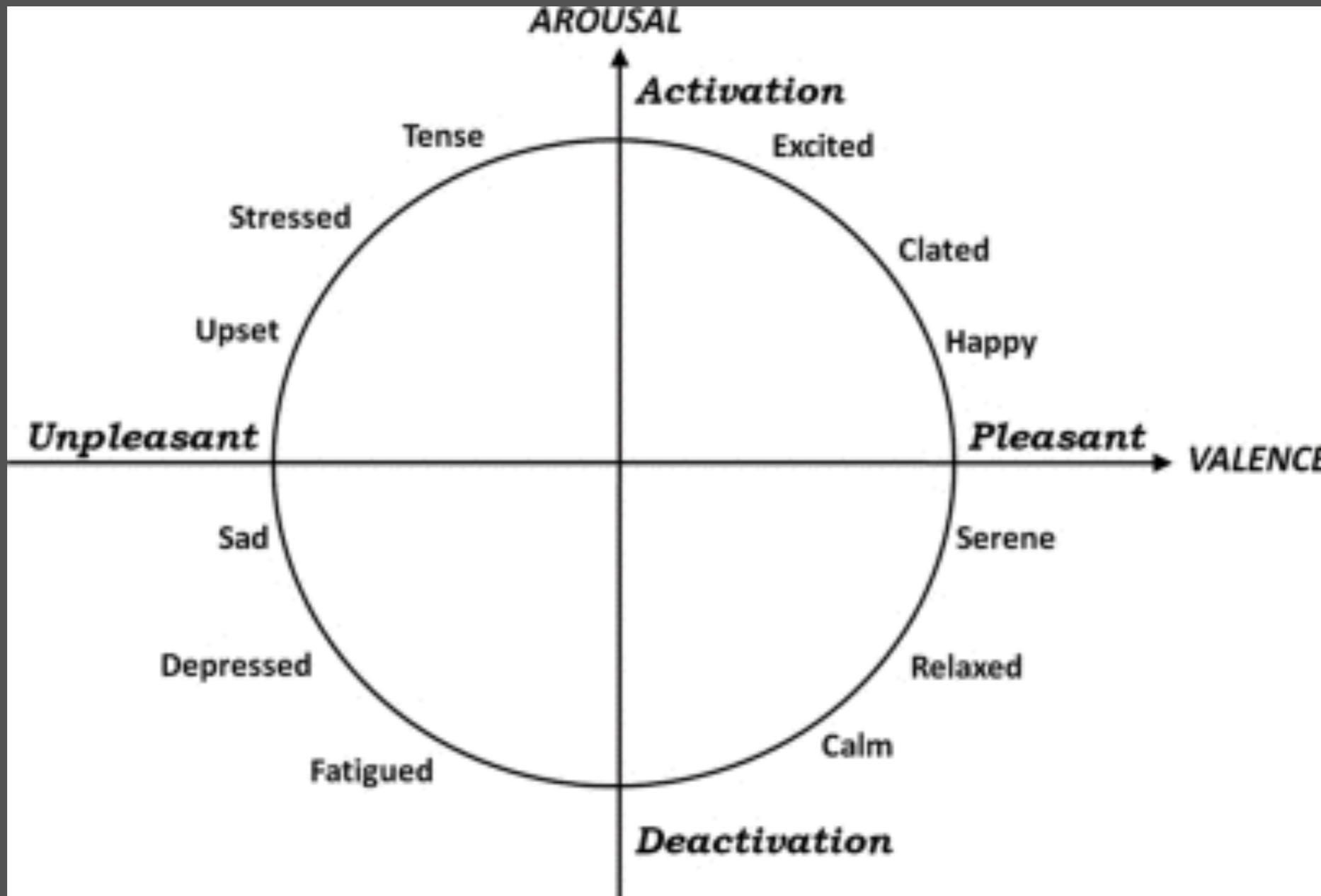
Research questions

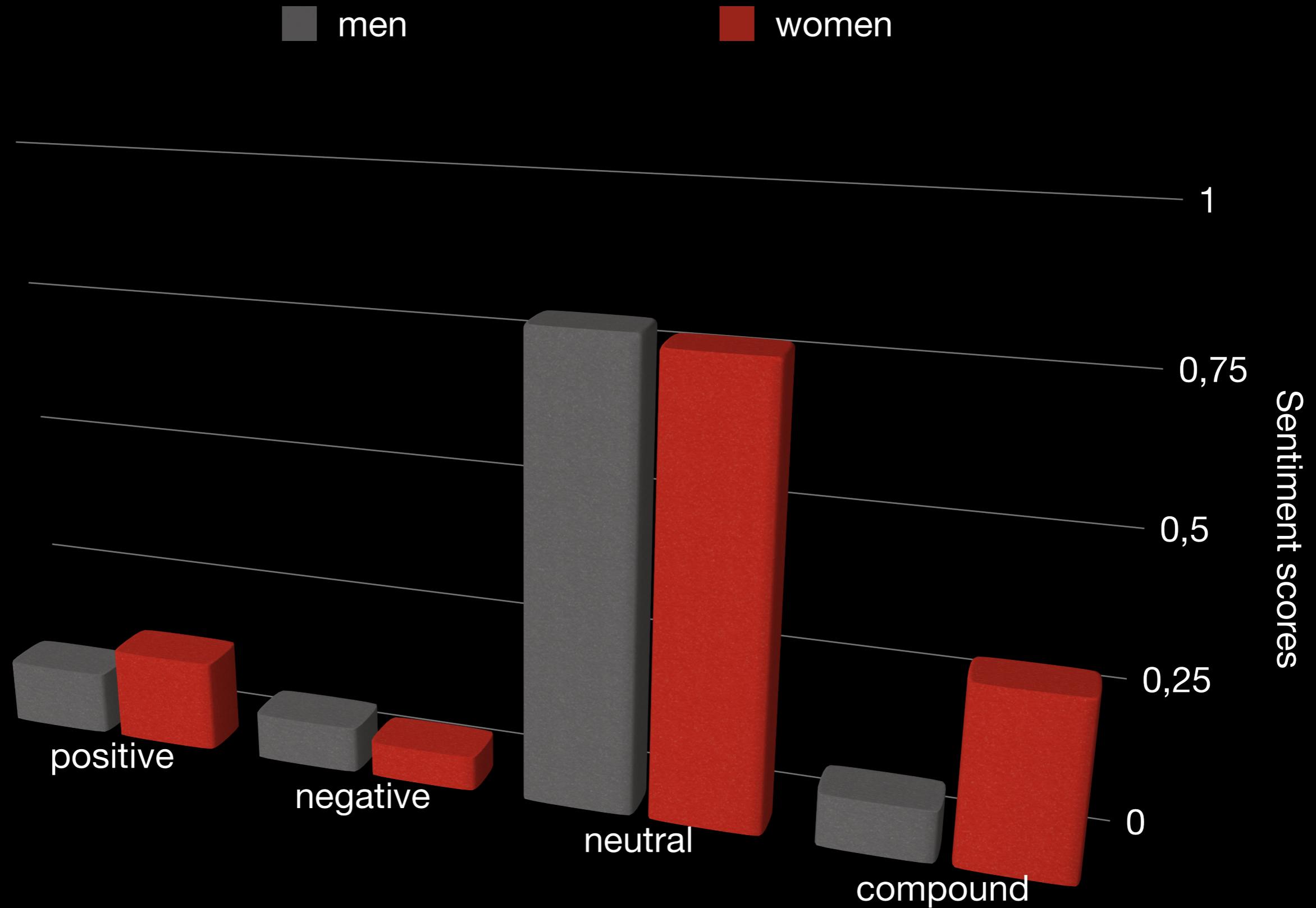
- RQ: Is it possible to estimate "extremeness" of ideologies in extremist groups, based on automatic, multi-modal sentiment analysis
- Sub: Which posts are highly positive and negative
- Sub: Do female extremists forum members present higher levels of extremeness compared to male members?

The circumplex model of affect (Russel)

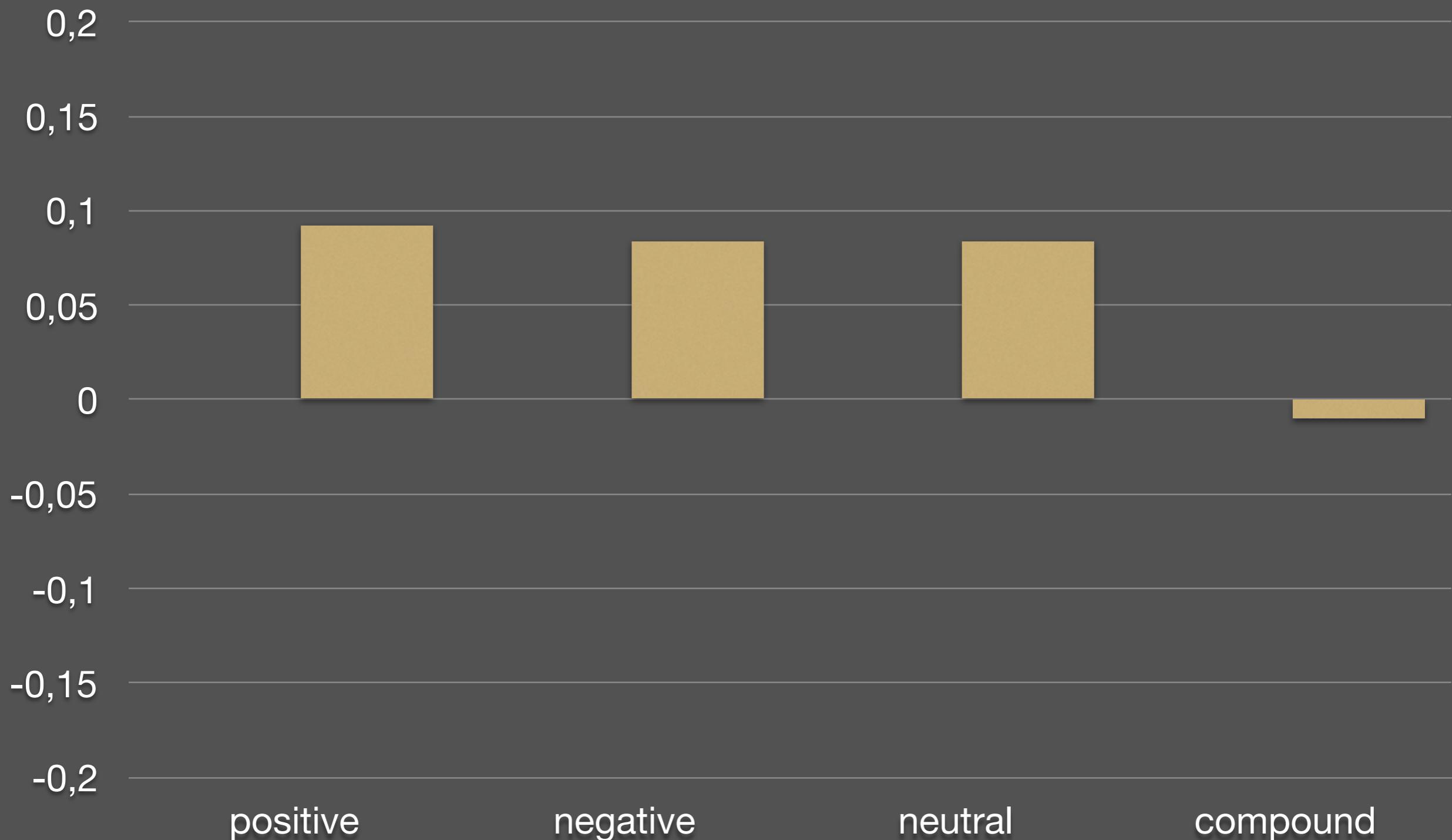
valence: a pleasure–displeasure continuum

Arousal : alertness



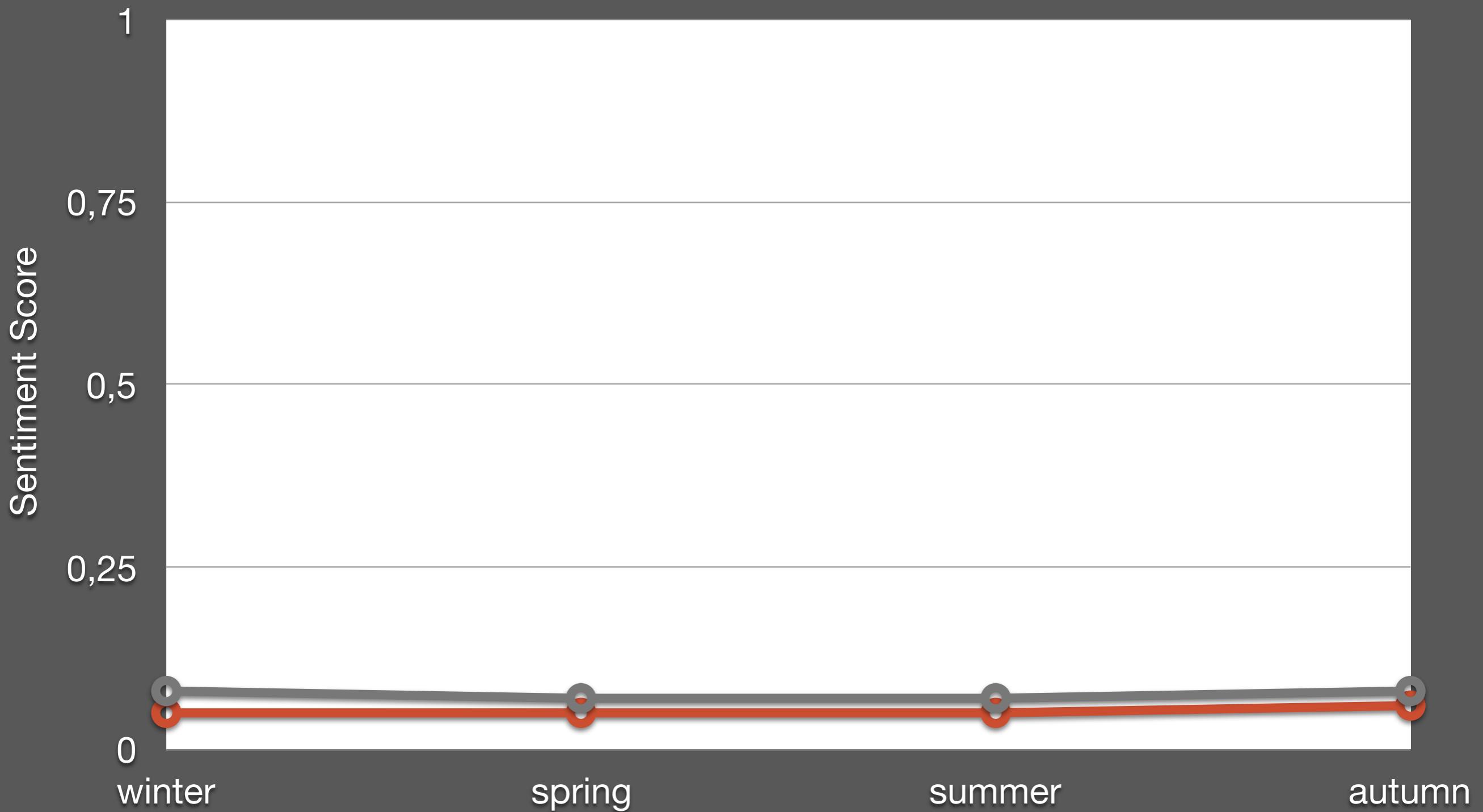


Sentiment Analysis on 25 Most Active Users



negative compound

Seasonality and extremeness



The 5 most active topics:

Pic thread! : 11162

**Ron Paul Revolution with
2,500,000 views: 10920**

Tales of the Holocaust: 6883

The Hellenic thread: 6144

Addressing Filth: 3736

Countries, total posts & sentiment scores

0,5

0,25

0

-0,25

-0,5

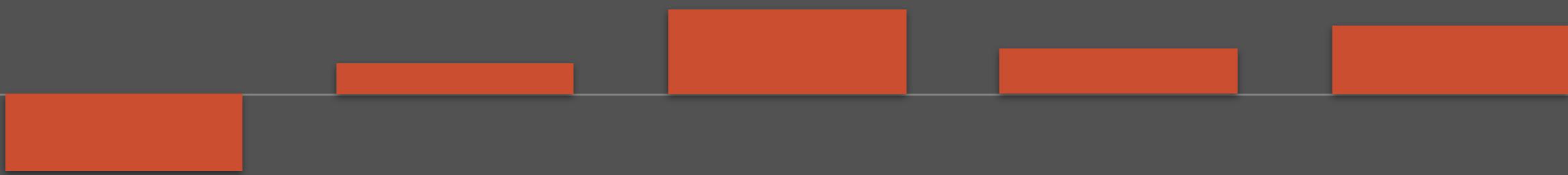
South Africa/3106

Italy/11991

Canada/4658

Russia/62106

Britain/21551



YEAR	SENTIMENT.C	SENTENCES
2001	0,219	4124
2002	0,23	27145
2003	0,214	44784
2004	0,122	107434
2005	0,091	143148
2006	0,054	190728
2007	0,051	191341
2008	0,071	216796
2009	0,035	222111
2010	0,001	181062
2011	0,007	164451
2012	0,001	167198
2013	-0,006	197483
2014	0,033	161324
2015	0,01	14577

Thank you