

Aigents

Automatic Intelligent Internet Agents

**for personal analytics in social networks
and news relevance assessment for
online and social media**



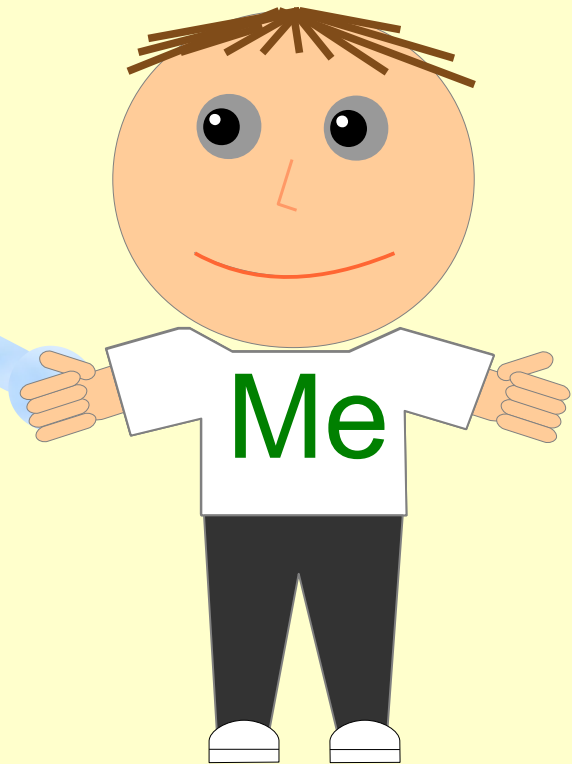
Anton Kolonin, akolonin@aigents.com

Personal Intelligent Agent

serves as a “crystal ball” in the world of social and informational networks, recognizes your preferences, knows your friends and finds what you need



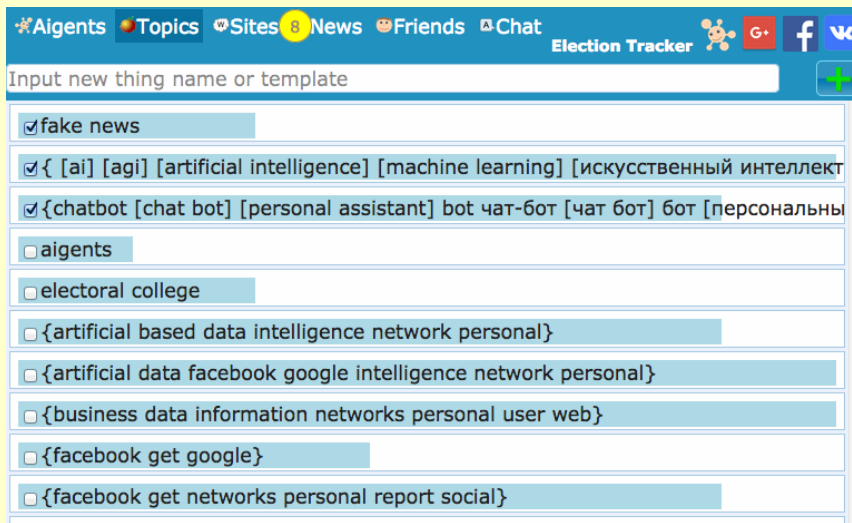
News



Friends

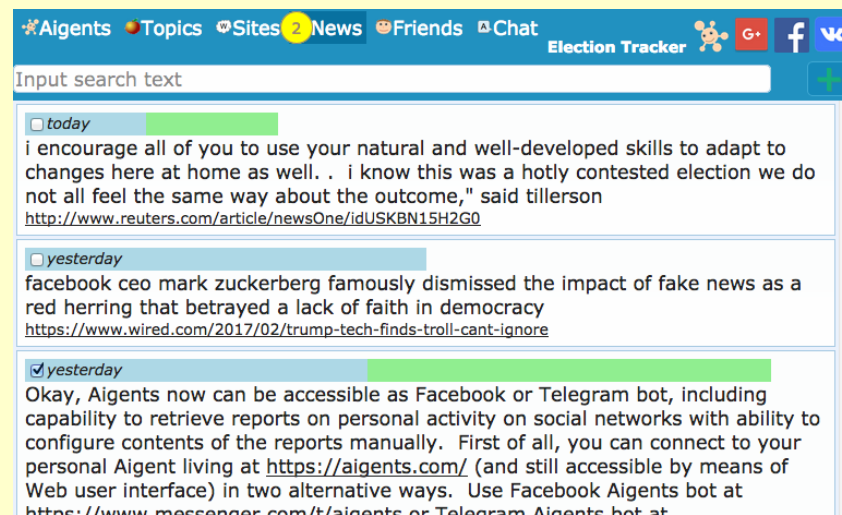
I teach my Aigent while it learns from me

It learns from my interactions with friends

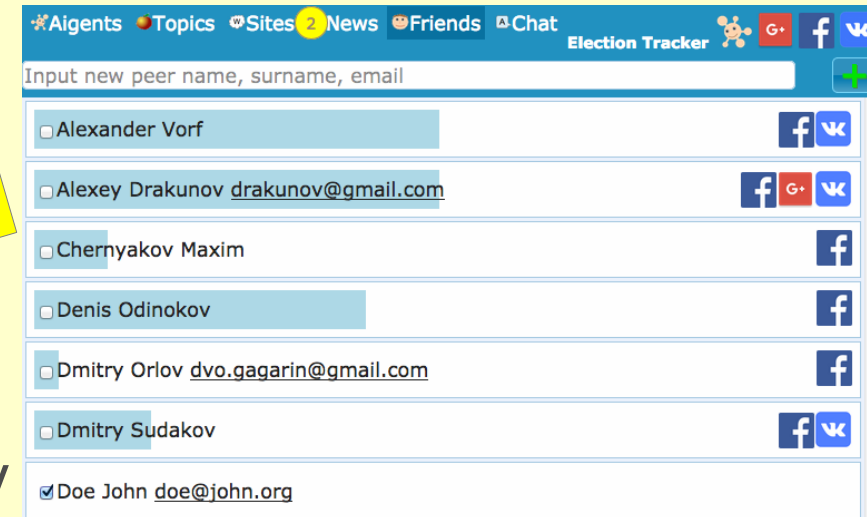


The screenshot shows the 'Aigents' tab in the 'Election Tracker' application. Below the header, there is a search bar and a list of templates. The templates include 'fake news', '{ [ai] [agi] [artificial intelligence] [machine learning] [искусственный интеллект]', '{chatbot [chat bot] [personal assistant] bot чат-бот [чат бот] бот [персональн]', 'aigents', 'electoral college', '{artificial based data intelligence network personal}', '{artificial data facebook google intelligence network personal}', '{business data information networks personal user web}', '{facebook get google}', and '{facebook get networks personal report social}'.

I adjust my profile and provide feedback

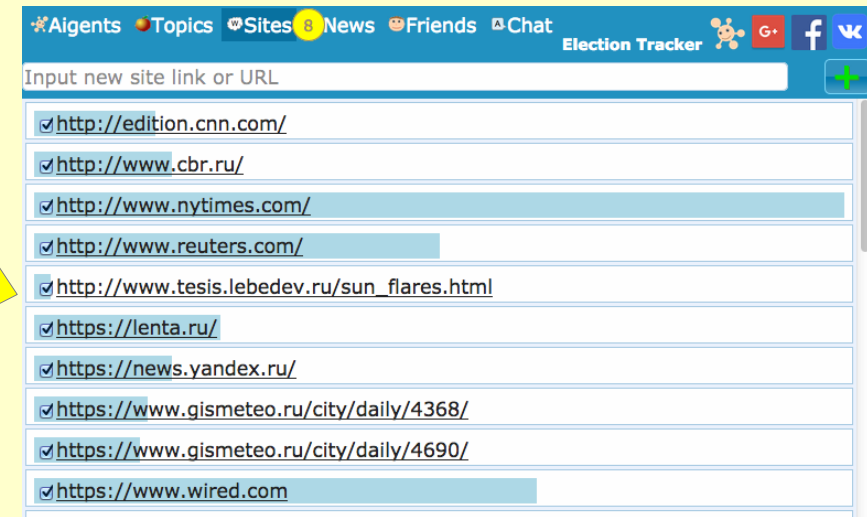


The screenshot shows the 'Aigents' tab in the 'Election Tracker' application. Below the header, there is a search bar and a chat conversation. The chat history shows three messages: 'today' (a green bar), 'yesterday' (a blue bar), and 'yesterday' (a green bar). The text of the messages is as follows: 'i encourage all of you to use your natural and well-developed skills to adapt to changes here at home as well. . i know this was a hotly contested election we do not all feel the same way about the outcome," said tillerson <http://www.reuters.com/article/newsOne/idUSKBN15H2G0>', 'facebook ceo mark zuckerberg famously dismissed the impact of fake news as a red herring that betrayed a lack of faith in democracy <https://www.wired.com/2017/02/trump-tech-finds-troll-cant-ignore>', and 'Okay, Aigents now can be accessible as Facebook or Telegram bot, including capability to retrieve reports on personal activity on social networks with ability to configure contents of the reports manually. First of all, you can connect to your personal Aigent living at <https://aigents.com/> (and still accessible by means of Web user interface) in two alternative ways. Use Facebook Aigents bot at <https://www.messenger.com/t/aigents> or Telegram Aigents bot at <https://www.messenger.com/t/aigents>'.



The screenshot shows the 'Aigents' tab in the 'Election Tracker' application. Below the header, there is a search bar and a list of peers. The peers are: 'Alexander Vorf', 'Alexey Drakunov drakunov@gmail.com', 'Chernyakov Maxim', 'Denis Odinkov', 'Dmitry Orlov dvo.gagarin@gmail.com', 'Dmitry Sudakov', and 'Doe John doe@john.org'.

It extracts and delivers information having it sorted out by relevance



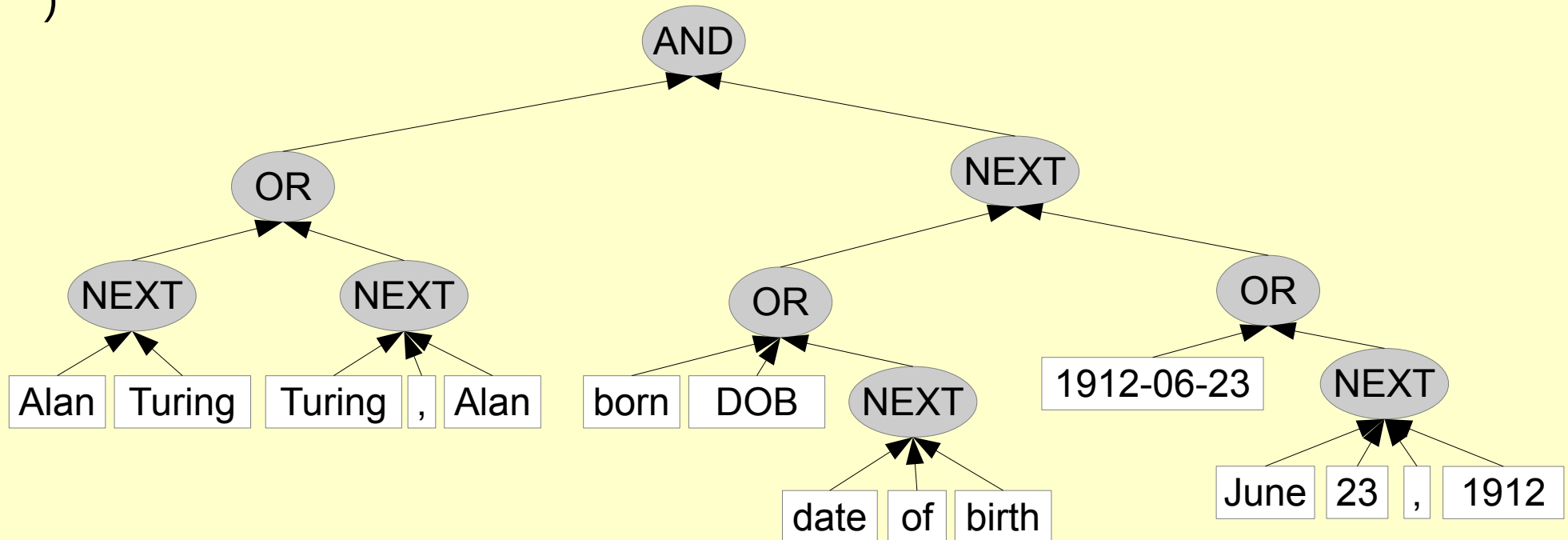
The screenshot shows the 'Aigents' tab in the 'Election Tracker' application. Below the header, there is a search bar and a list of site links. The links are: 'http://edition.cnn.com/', 'http://www.cbr.ru/', 'http://www.nytimes.com/', 'http://www.reuters.com/', 'http://www.thesis.lebedev.ru/sun_flares.html', 'https://lenta.ru/', 'https://news.yandex.ru/', 'https://www.gismeteo.ru/city/daily/4368/', 'https://www.gismeteo.ru/city/daily/4690/', and 'https://www.wired.com'.

News

are detected by means of hierarchical “patterns” recognizable by Aigents pattern matching engine (like “pattern” for identifying a particular person)

Alan Turing:

```
(  
  {[Alan Turing] [Turing, Alan]}  
  [{born DOB [date of birth]} {1912-06-23 ... [June 23, 1912]}]  
)
```



News

are detected by means of hierarchical “patterns”
recognizable by Aigents pattern matching engine
(anything can be expressed as an Aigents “pattern”)

Human Language (e.g. English):

```
{a abandon /abandon(ed|ing)$/ abase ...  
... zygoma /zygot(e|ies|ic)$/ zymogen}
```

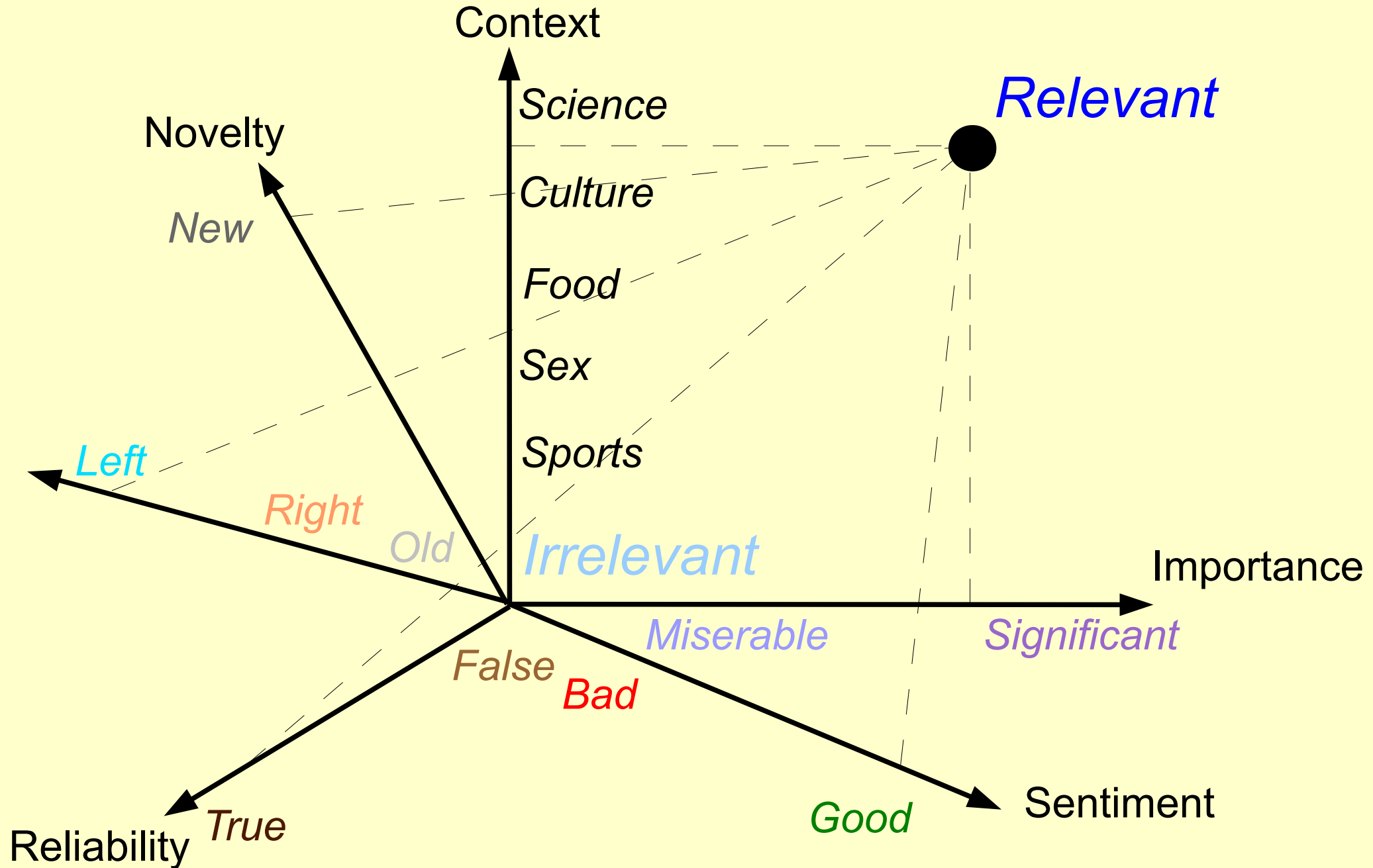
Abstract entity (e.g. English person):

```
{  
  [{Ackerley Acton ... Zaina Zaire} {Evans Jones ... Smith Taylor}]  
  [{Evans Jones ... Smith Taylor}, {Ackerley Acton ... Zaina Zaire}]  
}
```

Specific instance (e.g. Alan Turing):

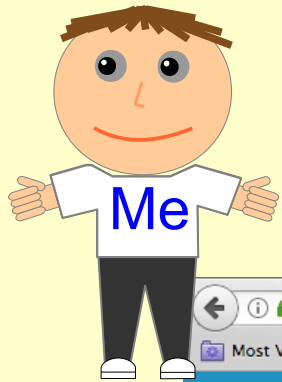
```
(  
  {[Alan Turing] [Turing, Alan]}  
  [{born DOB [date of birth]} {1912-06-23 ... [June 23, 1912]}]  
)
```

News relevance assessment



News relevance assessment

Personal and Social relevances



Browser window showing the Aigents website (https://aigents.com) with a search bar and navigation links: Agents, Topics, Sites, News, Friends, Chat. The page displays a list of news items from Wired, each with a date, a title, and a URL. A blue arrow points from the 'Me' character to the first news item, and a green arrow points from the 'Friends' characters to the same item.

Date	Title	URL
2017-02-01	apparently out of a commitment to "freedom of speech with clear limits." and the day after the election facebook ceo mark zuckerberg famously dismissed the impact of fake news as a red herring that betrayed a lack of faith in democracy	https://www.wired.com/2017/02/trump-tech-finds-troll-cant-ignore
2017-02-01	artificial intelligence inside the poker ai that out-bluffed the best humans	https://www.wired.com
2017-02-01	facebook ceo mark zuckerberg famously dismissed the impact of fake news as a red herring that betrayed a lack of faith in democracy	https://www.wired.com/2017/02/trump-tech-finds-troll-cant-ignore
2017-02-01	fake news overtook facebook	https://www.wired.com/2017/02/trump-tech-finds-troll-cant-ignore
2017-02-01	social media facebook reboots trending topics—again—as fake news festers	https://www.wired.com/category/business
2017-01-30	artificial intelligence google's go-playing ai opens the door to robots that learn	https://www.wired.com
2017-01-30	in a world full of fake news spin	https://www.wired.com/2017/01/review-kz-ate-hi-fi-earphones

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Personal and social analytics

my interests
interests of my friends
similar to me
best friends
fans
like and comment me
authorities
liked by me
my karma by periods
my words by periods
my favorite words
my posts liked and commented
my best words
my words liked and commented
words liked by me
my posts for the period



Aigents Report for Facebook (2016-01-31 - 2017-01-31, number of posts 193)

My karma by periods

Period	Karma,%	Likes	Comments
2017-01	76	54	15
2016-12	100	55	36
2016-11	37	15	19
2016-10	66	46	14
2016-09	90	52	30
2016-08	22	16	4
2016-07	44	20	20
2016-06	45	31	10
2016-05	38	14	21
2016-04	42	26	12
2016-03	23	17	4
2016-02	66	47	13
2016-01	0	0	0

Personal and social analytics - relationships

Best friends

Rank, %	Friend	My likes	Likes	Comments
100	Misha Kolonin	8	8	11
61	Vladimir Kirilenko	3	26	5
43	Aigents	1	26	40
41	Виктор Голиков	3	10	11
32	Georgy Dralkin	4	7	5
32	Vladimir Zavialov	6	2	6
18	Дмитрий Кошелев	3	6	3
8	Ilya Nenashev	2	1	5
6	Gleb Protopopov	1	8	1
5	Александр Субботин	2	1	3
4	Инесса Чиликина	2	1	2

Authorities

Rank, %	Friend	My likes	Likes	Comments
100	Vladimir Zavialov	6	2	6
75	Инесса Чиликина	2	1	2
75	Vyacheslav Popov	1	0	1
75	Anton Lobastov	1	0	1
75	Yana Artamonova	1	0	1
75	Anton Karpov	1	0	1
60	Александр Субботин	2	1	3
60	Misha Kolonin	8	8	11
50	Evgeny Markov	1	1	1
50	Anastasia Blizniuk	1	1	1
50	Galina NordicWalking	1	1	1
50	Игорь Кондратьев	1	1	1
50	Evgeniy Pluzhnik	1	1	1
50	Vladislav Bozheday	1	1	1
46	Georgy Dralkin	4	7	5
45	Дмитрий Кошелев	3	6	3
43	Ilya Nenashev	2	1	5
38	Tatyana Dubatolova	1	2	1
30	Raymond de Lacaze	1	2	2
21	Сергей Шумский	1	5	1
20	Виктор Голиков	3	10	11

Fans

Rank, %	Friend	My likes	Likes	Comments
100	Aigents	1	26	40
58	Lyudmila Kolonina	0	15	4
48	Oleg Baskov	0	16	0
42	Rafik Yamoleev	0	14	0
30	Danila Akimov	0	10	0
27	Mikhail Nikolskiy	0	9	0
27	Denis Odinokov	0	9	0
24	Madiha Khan	0	8	0
23	Vladimir Kirilenko	3	26	5
21	Yulia Danilova	0	7	0
21	Victor Smirnov	0	5	2
21	Андрей Толстихин	0	6	1
21	Сергей Нефедов	0	7	0

Personal and social analytics - interests

My favorite words

Rank, %	Word	My likes	Likes	Comments	Posts	Occurences
100	social	18	77	26	33	82
68	report	3	5	2	4	32
67	web	18	62	25	29	48
58	networks	13	44	11	21	41
56	news	19	68	19	34	45
44	personal	10	64	22	18	34
44	facebook	8	46	13	10	23
37	now	15	85	24	30	33
36	google	10	40	15	17	26
34	email	6	23	6	10	23
34	fresh	1	3	0	1	8
32	list	2	4	1	2	10
31	intelligence	8	63	24	19	31
31	steemit	3	5	2	3	11
31	vkontakte	3	5	2	3	11
29	periods	2	4	1	2	9
28	business	8	32	15	17	25
26	information	9	41	17	21	26
25	get	5	16	8	10	20
25	id	1	1	1	1	6
25	options	1	3	0	1	6
25	user	4	28	4	10	24
25	выявление	1	9	4	1	6
25	friends	6	13	9	10	17
24	posts	4	12	2	7	16
24	make	6	23	5	8	13
24	data	9	43	9	15	17
24	network	8	25	6	12	15
23	liked	4	12	2	5	11
23	bot	4	16	11	7	15
23	agents	4	22	10	8	17
21	activity	4	9	4	5	10

My interests

Topics	Number of posts
business, data, information, networks, personal, user, web	63
email, facebook, get, google	34
intelligence	20
network	14
friends	10
email, make	9

Personal and social analytics - proximity

Similar to me

Rank, %	Friend	Crosses	My likes	Likes	Comments	Words
100	Aigents	375	1	26	40	social web news networks personal now report intelligence more information google bus <small>computer copies humans change business конкуренция good week completing many conclusions to drink day make accurate future data into its represented action its drink drink businesses details concepts definition prices for</small>
52	Misha Kolonin	17	8	8	11	more time make good like need computer build over down look why together processes water awareness pain <small></small>
47	Сергей Шумский	15	1	5	1	intelligence learning cognitive human machine best order groups perform distributed design companies success women knowledge <small></small>
23	Georgy Dralkin	33	4	7	5	более агентов другие сам системы пользователя этом сегодня <small></small>
22	Vladimir Zavialov	12	6	2	6	time время event антон сами было лично думать ничего есть трудно показывать <small></small>
18	Владимир Зюбин	7	0	0	2	webmind проект время действительно посетил сайт отключил <small></small>
17	Виктор Голиков	14	3	10	11	сети агентов агент интеллекта антон планетарного решение назад гибридного есть масштаба сожаления app <small></small>
16	Ilya Nenashev	19	2	1	5	будет новости новых поиска пользователя сами было агентами однос <small></small>
15	Gleb Protopopov	1	1	8	1	google <small></small>
13	Victor Smirnov	10	0	5	2	области может бена россия сами ии оренбург выпустить работы интересно <small></small>

Personal and social analytics - dynamics

My words by periods

Period	Karma,%	Likes	Comments	Words
2017-02	2	2	0	report facebook user email fresh vkontakte google name social reports options get registered personal networks words periods fans karma available either liked
2017-01	75	54	15	personal social interface now information making based news intelligence including bot further us turtle hackers english профессионалам окружения resort reflects events waves audience pool using доступ successfully august ai analysis ссылкой marches ленту selection заданные plans demo brother наши wind bb based environment ones time enjoyed taking russians meme определяет наш тему interactive entire tracking ultra многие improved thanks ski послать upgraded usability тема far воспользоваться action model okay st like both corporations directions источники руководителям person improve keep coupled collect week locate part terceks media security public along design наблюдение hospital physical track зарабатывают direction инт
2016-12	100	56	36	social using web language agents networks steemit posts list while get ontology ai words report agen computer might expressions time three extraction какатон нейротехнологиях фэйсбук quick keeps group market keep invests mentioned enough interaction attention user areas ai easy adaptive communications sample sometimes computational a интерпретация facebook выступит age change called considered контекстами fusers approach tracks курси number dovosok интерпретирует итаа order thing rather specify distributed identifying sorts driven дерзковому against админ respectively valid native suitable speak entity decoration interpretive порождает requests vladq интерфейс collections патчи тонкориса page results mood вотчас show video аутридж yesterday cabsn non statements early overview start новостях mistake target приложение itcon evasions delivers соображ transfer получить login collectively logged golden технологийми truly greatest case der sent buye beyond действия нора sufficient использования compta сонная поймают айдолл баротинг анализе падак gus эдвардс мачно-класс путан нейтрально valley projects атлетик манку дефто стилистика приключен от affecting ranked inequality познаниемический data consultant interesting технологиями технологич
2016-11	37	15	19	social news now semantic world web released derivative relevance long-term-memory physical совпадения bar based google triggers version либо virtual away встания father mass carable лямкам москвички content redundant random движением обществом произносимым множества thoughts green election штрихами false reading джуня may интеграция better поиска removal fact-checker мыться formula карте лямкам челы дорогов second коммате bypassing аукционам tal earlier maintained горизонтального connections auctions likes контактов количества красным плану поделиться совпадающие pressure seriously basis maintaining experiences plus corporations дорожной relevant amazon бек
2016-10	65	46	14	webmind social проект networks language intelligence глобального artificial наиболее мозга personal aigent communications основе well мечты беном каждогого открытий констанции looking shortly structure гол weeks проекты развращено вступая пожайги проекту возможностей заплес процессо nivalasoc самона ослики эксперимент отчетов ролевиги черствости coze социальное дифференци даде привлекательна переименованиях переносить пользователи коллективные а цучие наследствен трудно воспользоваться кадра птисл поди son non order неспаско важнейшей детализиэ позже болочен го сактурности сава распыли чаша неизвестного команды конечно заканчива разум команду слабо века извлечений редактор едким токможи возможно нешли комменту посторонним т саде композ дуля экстремизм персонализация ктотой проектов собирались ссылки may прокомментировать религиозный переоборудовать го существенно функция обновления искусственного конца работало сопостав сопоставленного ритмов персональные новости планировки oden подготавливаю департаменту ketchen ja разумной полимерно сообщества царе ковыня генерировать мадер бап поиски информации рамкой деловой сообществом пазог учения разуме искусственной безопасности exploration эволюция отменяете история дорогие сезоны птисл метосчаственно основательно неизменно сократило eam темпа планастных педю пед
2016-09	89	52	30	ai ads now world social year google hotel presentation news during years study report tolerable state old conference typed seo panel email выявленных think semanticsearch charge committee silly one автоматические stay transportation weird standing эффективной watch series автоматический progress junk новых experts член про market анализ being relevance выдача terrific strongly ежедневно cancers разум completely совета city north arent screenshots eight healthcare linkeddata немедленно seeing антон strings закономерностей course сле
2016-08	22	16	4	social web intelligence conference networks russia pp state knowledge personal adaptive business computational agents international describ mail system can aim eventually mac world future pages links including bot mental genetics says automatic conventional let starting availability sb key situations people th agent contexts robe results engineering motivation android conclusion graphs experiential interest linux n agent businesses made understand index names classification transactions proper distributions being centralize presenting navigationem doi дериватореке turned boss tanka its functionality targets cycle segments пенале themea speak everything exponentially may custom supplies within topics comfort demographic m level method natural организация колора работников innovative toward smart embedded abstractionmchis endowing dubnet requires corporon specified кемкина linguistic consuming acyclic power minimizing architecture оксимокон деалте indexing born haw заглушение бадан organizing слабонка вырванена idad elevenet top
2016-07	43	20	20	ВЫЯВЛЕНИЕ good learning news demo deep service being предложения seems категорий google мало ne in open reports прошлые обращаем наводим microsoft research belonging either кпрыax bias интересно programming stability area автоматическое верхнему making персонального please finding look собственных espe house exposition inbox взаимным шаблонов mathematical дробностью функция развития perfect решение use вышла subject дальшие feel очистка flames количеству second начала growing major значки другого орг
2016-06	45	31	10	social networks news google analysis information internet now web business sites things patterns posts demo new based умение going per middle задачи коммуникации peoples tech автоматическое given making test learns finally technopark делают представлений check users pulls spending extract textmc colleagues useful support full kills deep away khesurfing rather provided android бреквашуре lthealth update

Studying human social environment and state with social network data

13

Personal analytics and news – via Aigents bot on Facebook and Telegram

The image is a composite of two screenshots. The left screenshot shows a Telegram chat window on a desktop. The address bar at the top displays 'https://www.messenger.com/t/aigents'. The chat header shows 'Aigents Messenger'. The chat history includes a welcome message from the bot, followed by a user asking for help. The bot responds with instructions to ask about 'news', 'sites', or 'topics'. The user then asks for their name and surname, and the bot provides a link to a website. The user then asks for a Facebook report, and the bot provides another link. The user then asks for their name, and the bot responds with 'My name aigents.' The user then asks for 'news', and the bot provides a link to a Reuters article. The right screenshot shows a mobile app interface. The header shows 'Aigents bot' with 'Media' and 'Edit' options. The chat history includes a message from the bot about its email, followed by a user asking 'What you?'. The bot responds with 'my fir'. The user then asks for 'news', and the bot provides a link to a Wired article about Mike Pompeo's CIA Director Hearing. The user then asks for 'news', and the bot provides a link to a text about President-elect Trump's attitude toward Russia. The bottom of the screen shows a 'Write a message...' input field with various emojis and a 'SEND' button.

Personal analytics, news detection and relevance assessment - problems

News detection

- Automatic “deep pattern learning” based on implicit (page level) and/or explicit (fragment level) feedback

Personal analytics

- Fine-grained contextual relationships and mutual compatibilities (need model)
- Psycho-type and values model (need libraries of patterns)
- “Botness” detection (need model and libraries of patterns)

Relevance assessment

- Personal experience – based
- Social experience – based
- Text – based
- Author – based
- Source – based

Personal and social analytics – “botness”

<https://steemit.com/psychology/@akolonin/aigents-bot-on-facebook-and-telegram-with-flexible-personal-karma-analytics>

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Aigents:
https://aigents.com/tmp/aigents_b57775f474xy8c34509d2a1e55566as0744.html
User:
My vkontakte report
Aigents:
https://aigents.com/tmp/aigents_b57775f474xy8c34ase3r45a1e55566as0744.html
User:
my logout
Aigents:
Ok.

For more, stay in touch with us at:
<http://aigents.com>
<https://www.youtube.com/aigents>
<https://www.facebook.com/aigents>
<https://plus.google.com/+Aigents>
<https://vk.com/aigents>

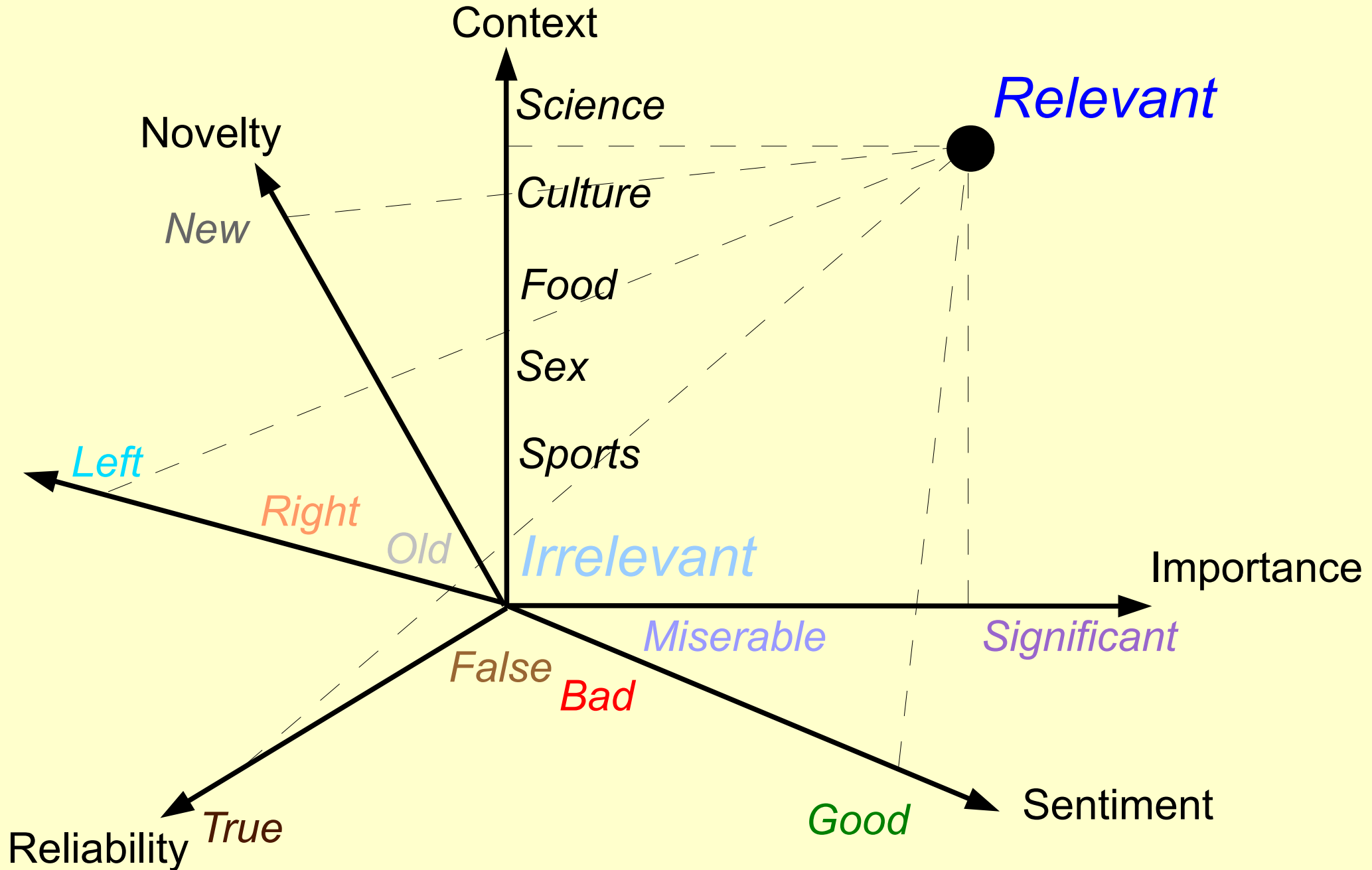
psychology aigents technology news science PROMOTE

21 hours ago by akolonin 44 \$0.67 93 votes Reply Edit 0 3 f t in e

Bot Detection Criteria:

- Literacy - high
- Like rate – high
- Repost rate - high
- Complexity - low
- Vocabulary – poor
- “Karma” – low?
- *what else?*

News relevance assessment



News relevance assessment

Personal experience –
based:

*Do similar news are
treated relevant by
me?*

Social experience –
based:

*Do similar news are
treated relevant by my
friends?*

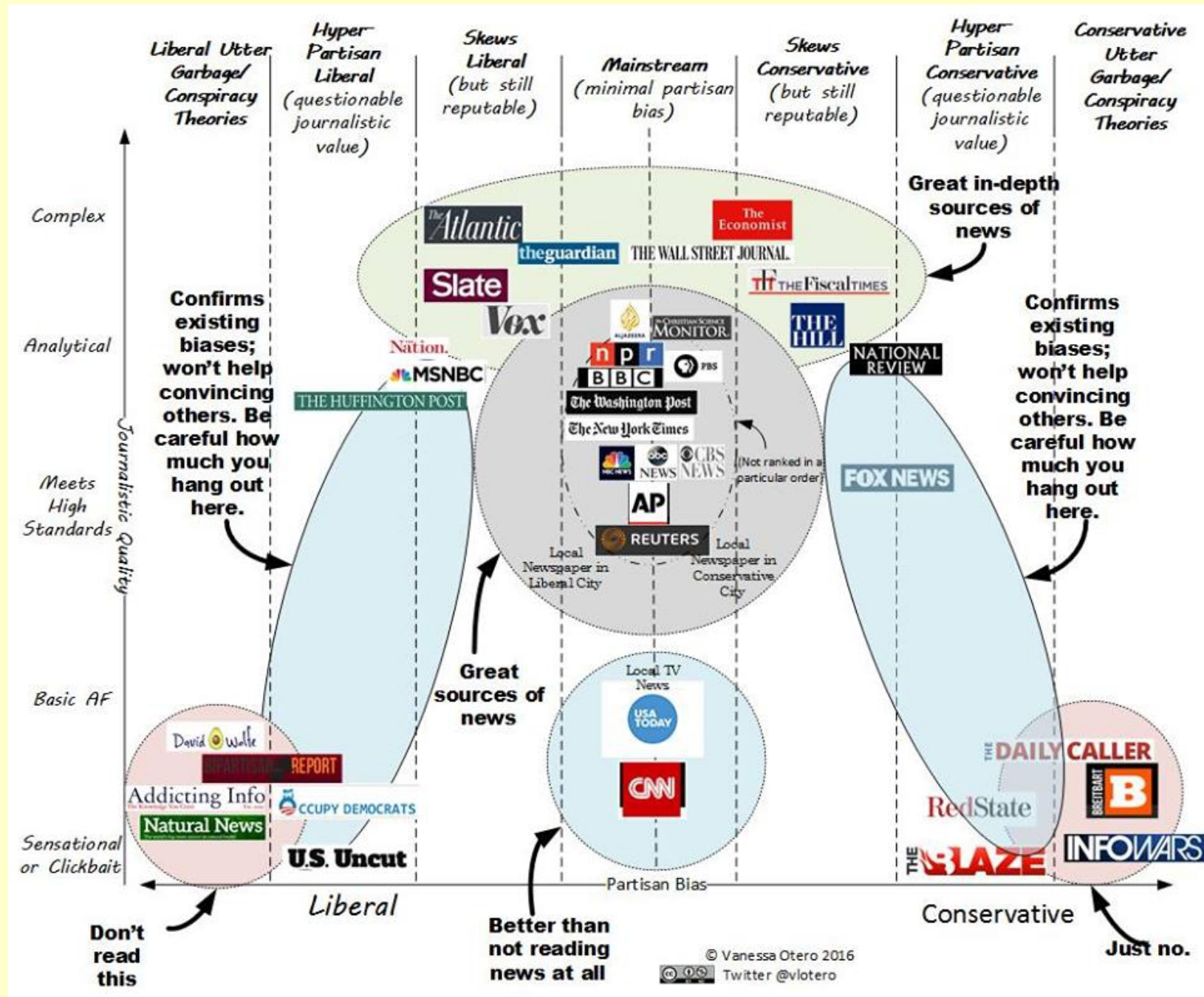


Text – based:
*Does this text
contains signs of
relevance or
irrelevance?*

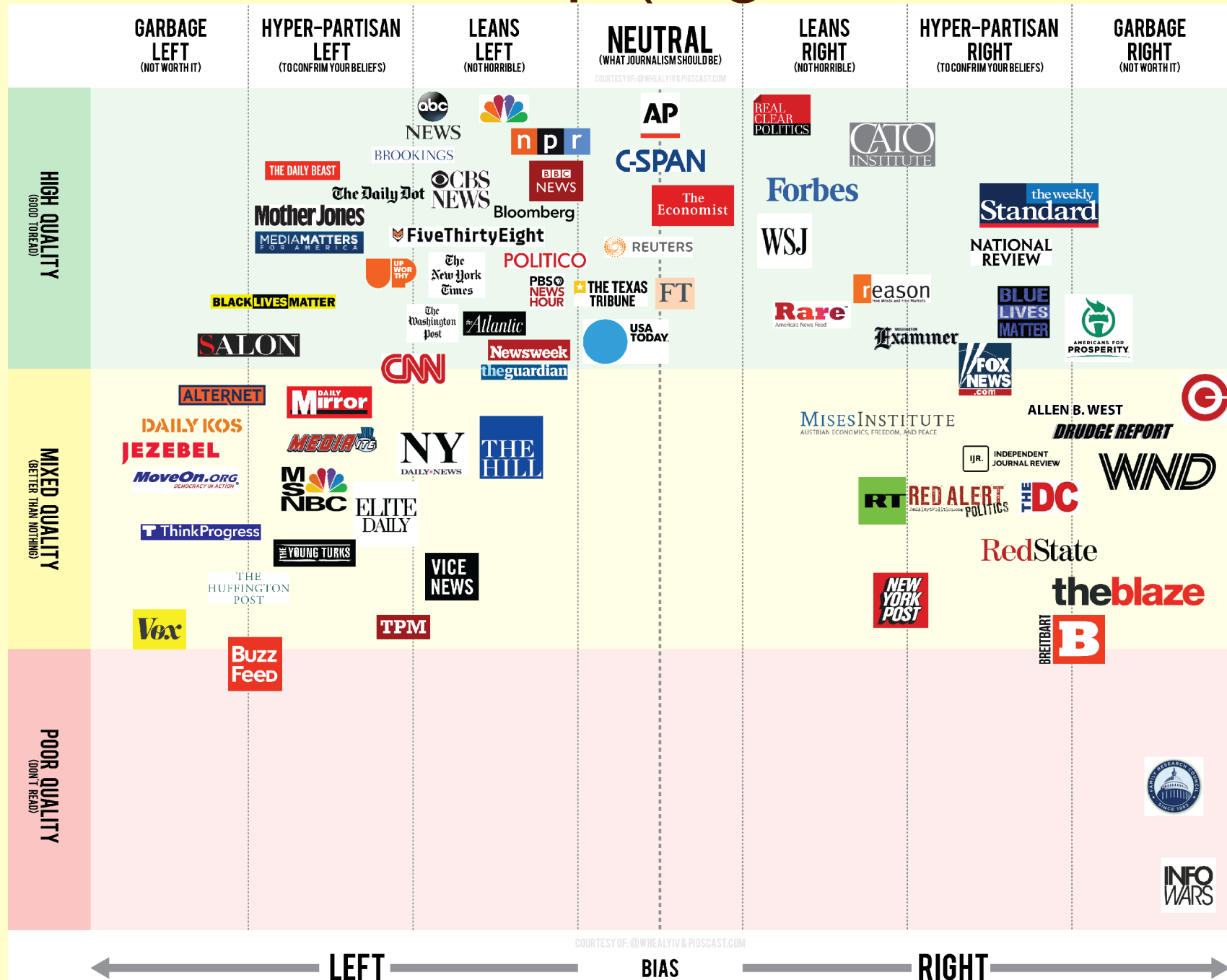
Author – based:
*Does author of this
text can be thought
as relevant?*

Source – based:
*Does sources of
this text can be
thought as
relevant?*

US media bias map ("left-biased view")



US media bias map ("right-biased view")



Automatic Intelligent Internet Agents

<https://aigents.com>



Video: <https://www.youtube.com/aigents>

Google+: <https://plus.google.com/+Aigents>

Facebook: <https://www.facebook.com/aigents>

References: <http://aigents.com/en/references.html>

Email: Anton Kolonin, akolonin@aigents.com

Cell: +7-913-925-0058