# AdverseMediaSearch

File created on: 3/26/2019 1:48:43 PM

Lucerne University of
Applied Sciences and Arts
HOCHSCHULE
LUZERN
Informatik
FH Zentralschweiz



#### Certificate of Advance Studies in Big Data Analytics

### Adverse Media Search Tracking Politically Exposed People in the Banking Industry

#### Project

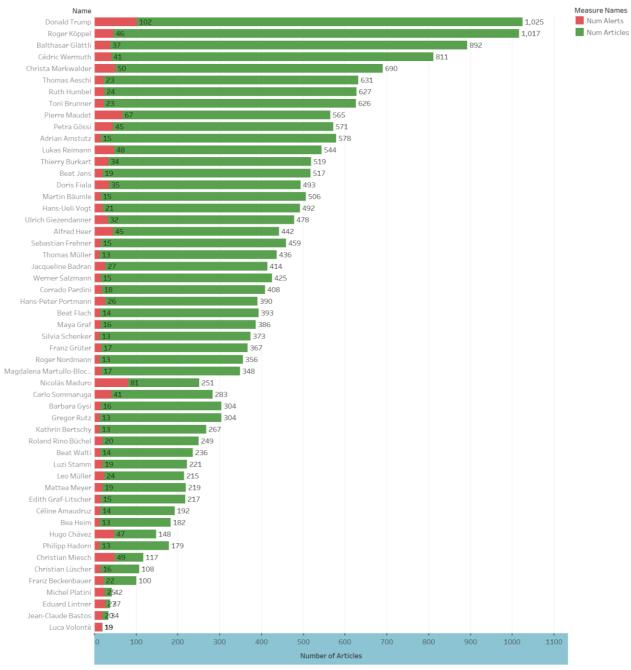
Submitted on the 22nd of March 2019 from:

Block-Kaefer Barbara, Finnova AG

Alvarado Liliana, IT Evotion GmbH

Worthington William, Sequoia Intelligence

#### Articles Per PEP



Num Alerts and Num Articles for each Name. Color shows details about Num Alerts and Num Articles. The view is filtered on Name, Num Alerts as an attribute and Num Articles as an attribute. The Name filter keeps 163 of 174 members. The Num Alerts as an attribute filter ranges from 1 to 1,025 and keeps Null values.

### Articles Per PEP Block

Donald Trump 1,025 102	Thomas Aeschi 631 23  Ruth Humbel	Lukas Reimann 544 48	Thierry Burkart 519 34		Beat Jans 517 19		Martin Bäumle 506 15			Doris Fiala 493 35		Hans-Ueli Vogt 492 21		
Roger Köppel 1,017 46	Toni Brunner	Ulrich Giezendanner 478 32		Jacqueline 414 27			Fran hker Grüt 367 17						Magdalena	
Balthasar Glättli 892 37  Adrian Amstutz 578 15  Cédric Wermuth 811 41  Petra Gössi 571 45	23 Adrian Amstutz	Sebastian Frehner 459 15  Alfred Heer 442 45  Thomas Müller 436 13		Corrado Pardini 408 18  Beat Flach 393 14  Hans-Peter Portmann 390 26		Barbara Gysi 304 16			Roland Rino Büchel 249	W 2.	Beat Walti 236 14		ızi ramm 21	
	15 Petra Gössi					Gregor Rutz 304 13 Carlo Sommaruga		<i>r</i> uga	Mattea E Meyer 219		lith	Leo Müller 215 24		
						283 41 Kathrin Bertsch 267		chy	Céline Amaudruz		Hug Cha	ávez		
Christa Markwalder 690 50	Pierre Maudet 565 67	Werner Salzman 425 15			Maya Graf 386 16		Nicolás Maduro 251		Bea Heim 182 Philipp Hadorn 179					

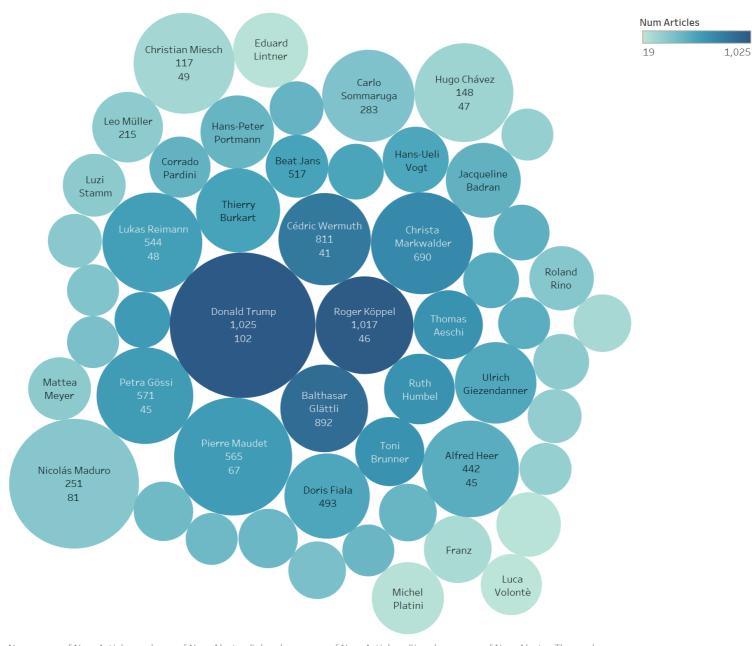
Articles

1,025

19

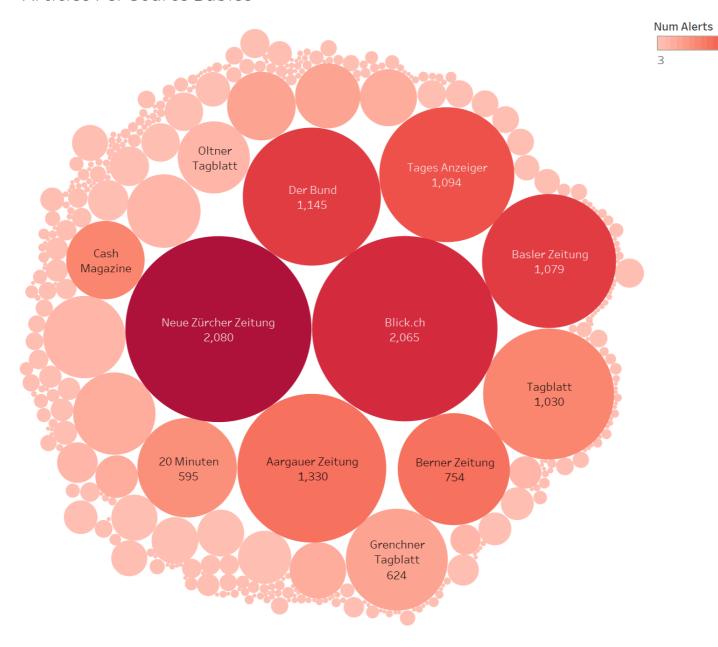
Name, sum of Num Articles and sum of Num Alerts. Color shows sum of Num Articles. Size shows sum of Num Articles. The marks are labeled by Name, sum of Num Articles and sum of Num Alerts. The data is filtered on Num Alerts as an attribute and Num Articles as an attribute. The Num Alerts as an attribute filter ranges from 13 to 102. The Num Articles as an attribute filter ranges from 1 to 1,025 and keeps Null values. The view is filtered on Name, which keeps 163 of 174 members.

#### Articles Per PEP Bubbles



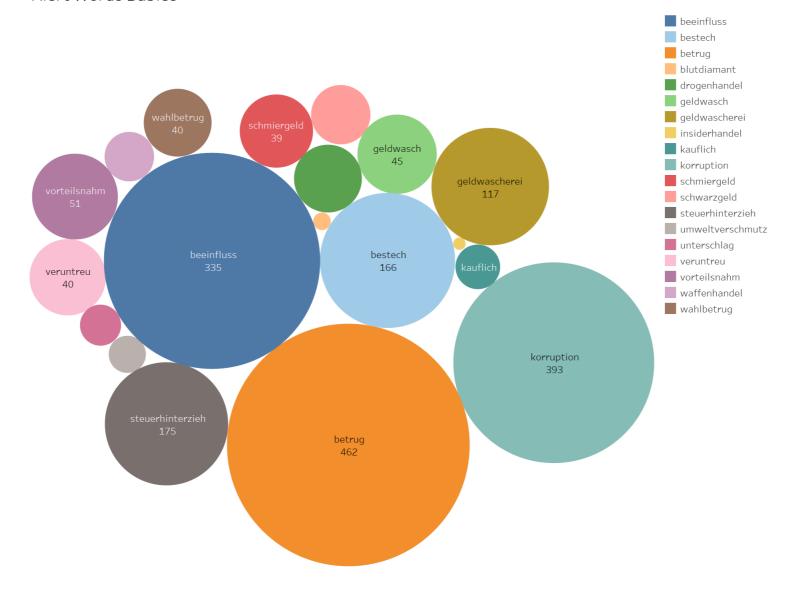
Name, sum of Num Articles and sum of Num Alerts. Color shows sum of Num Articles. Size shows sum of Num Alerts. The marks are labeled by Name, sum of Num Articles and sum of Num Alerts. The data is filtered on Num Alerts as an attribute and Num Articles as an attribute. The Num Alerts as an attribute filter ranges from 13 to 102. The Num Articles as an attribute filter ranges from 1 to 1,025 and keeps Null values. The view is filtered on Name, which keeps 163 of 174 members.

#### Articles Per Source Bubles



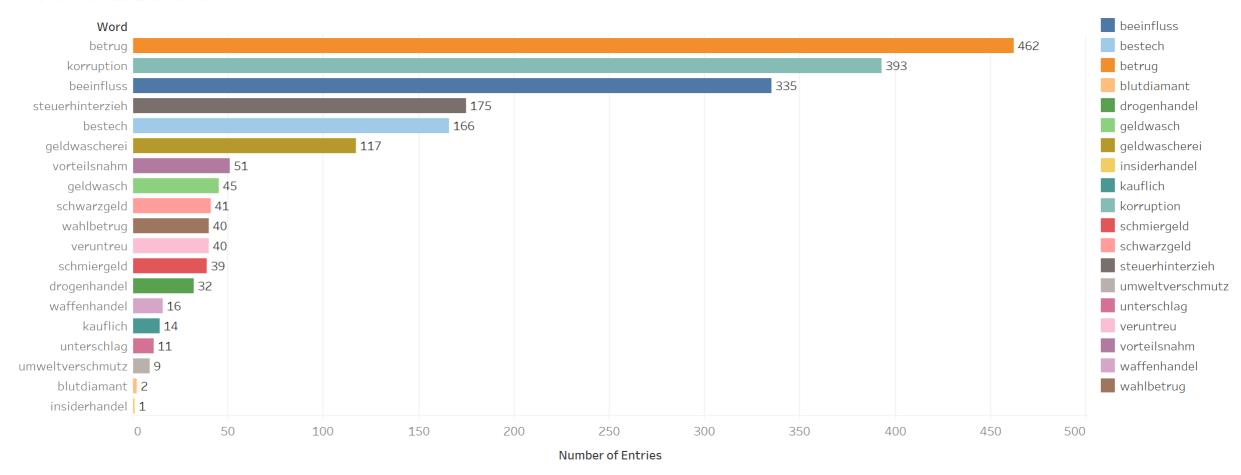
121

Source and Num Articles. Color shows Num Alerts. Size shows Num Articles. The marks are labeled by Source and Num Articles. The data is filtered on Num Articles and Num Alerts. The Num Articles filter ranges from 1 to 2080. The Num Alerts filter ranges from 0 to 121. The view is filtered on Source, which keeps 357 of 357 members.



Word and sum of Number of Entries. Color shows details about Word. Size shows Number of Documents as an attribute. The marks are labeled by Word and sum of Number of Entries. The view is filtered on Number of Entries as an attribute, Word and Number of Documents as an attribute. The Number of Entries as an attribute filter ranges from 1 to 462. The Word filter keeps 19 of 19 members. The Number of Documents as an attribute filter ranges from 1 to 384.

#### Alert Words Bar Char



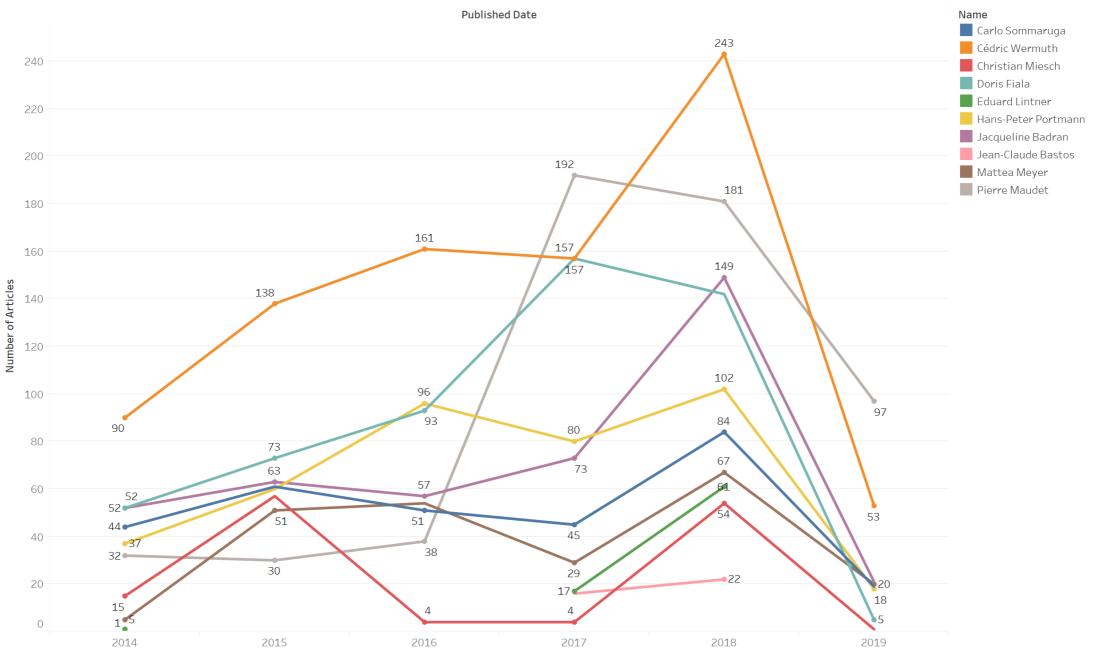
Sum of Number of Entries for each Word. Color shows details about Word. The view is filtered on Number of Documents as an attribute and Number of Entries as an attribute. The Number of Documents as an attribute filter ranges from 1 to 384. The Number of Entries as an attribute filter ranges from 1 to 462.

Introduction Alert Words Articles Per Source Articles Per PEP Top Ten PEPs Articles Per TO PEP GitHub

## Python code, data base scripts, CSV exports of data, and full data base documentation can be viewed at:

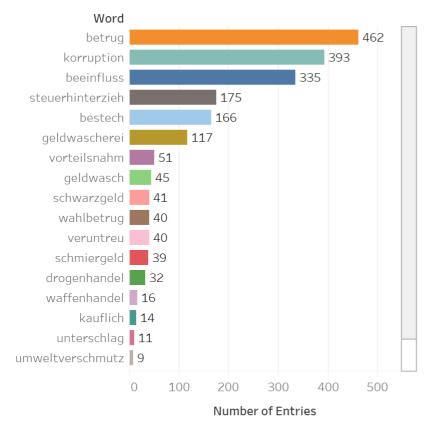
https://github.com/SequoiaIntelligence/UHL

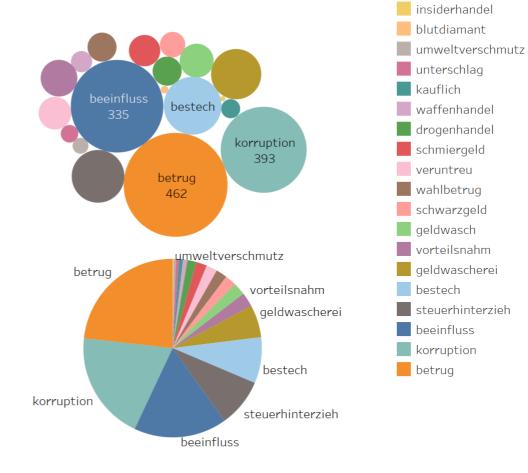
■ Data	Check in of CSV
PythonCode	Python Code
SQL_Functions	SQL Script for user defined functions.
20190309_FINOVA_SCHEMA.html	Data base design document.
Finnova Schema.png	Data base design document.
FinovaDB.sql	SQL Script for Finnova DB Schema



The trend of sum of Number of Articles for Published Date Year. Color shows details about Name. The data is filtered on count of Number of Articles and Published Date Month. The count of Number of Articles filter ranges from 1 to 243. The Published Date Month filter ranges from January 2014 to March 2019. The view is filtered on Name, which keeps 10 of 10 members.

### Occurences of Alert Words





Word

Number of Entries

Number of Articles

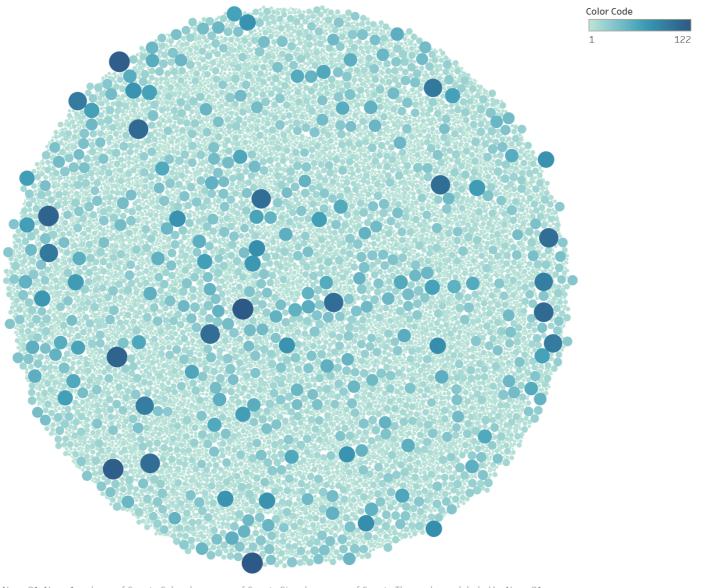
1 to 384

1 to 462

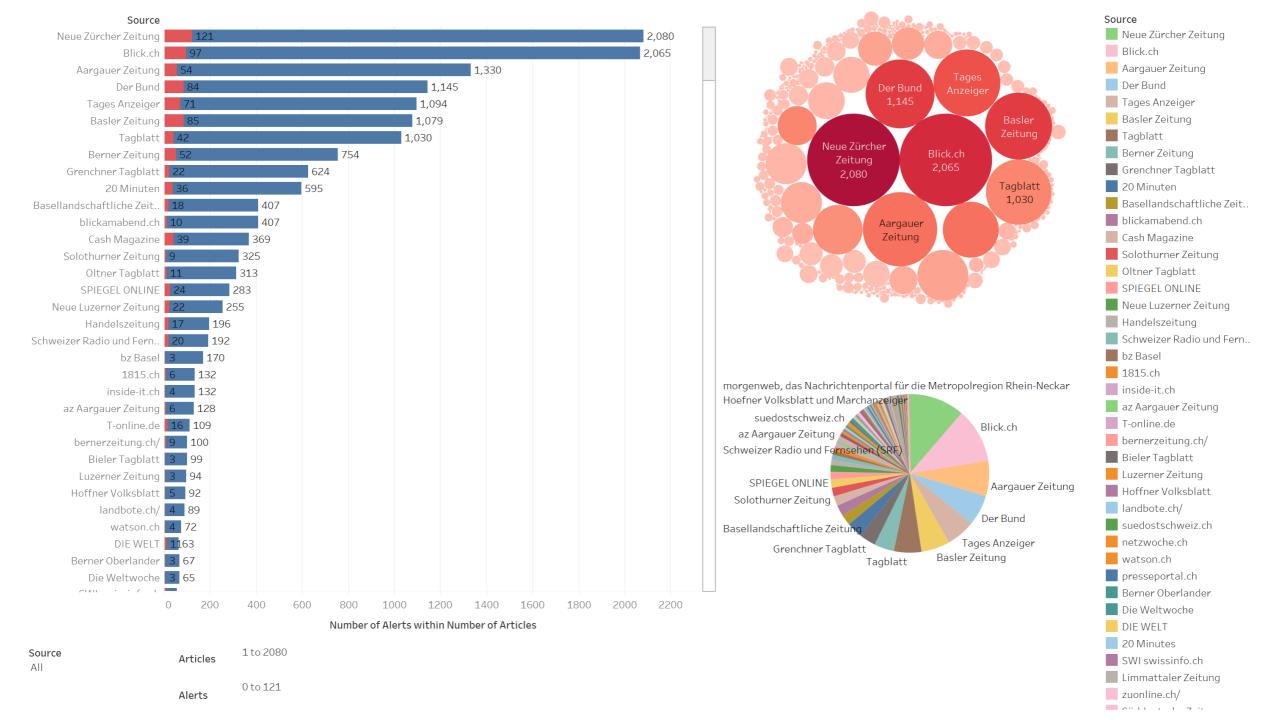
Word All PEPs that have articles with other PEPs in it.

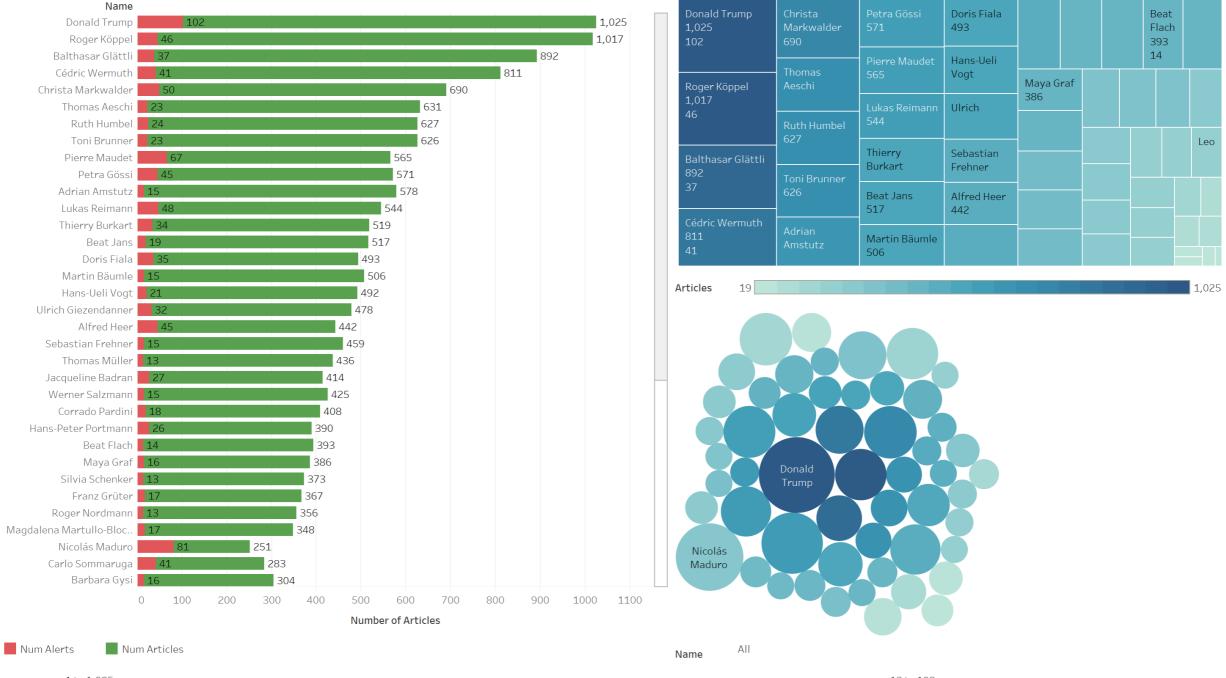
Use the filters to select min and max number of articles PEP should have in common.

Select one or more PEPs to show.



Name21, Name1 and sum of Count. Color shows sum of Count. Size shows sum of Count. The marks are labeled by Name21, Name1 and sum of Count. The view is filtered on Name1 and sum of Count. The Name1 filter keeps 161 of 161 members. The sum of Count filter ranges from 1 to 122.





Articles 1 to 1,025 and Null values

Alerts

13 to 102

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