

Dictionary

Attribute	Details	Example
date	Release Date weekly on Mondays	2025-01-20
ticker	Ticker	HUBS
BBticker	Bloomberg Ticker	HUBS
source	For Example GitHub, Freelancer etc. or Aggregate	Freelancer
RawCount	Raw Count of Observations	24
ActChng	Change in Activity, standardized (normal distributed)	-0.03
TrendRank	Trend of Activity, ranked against universe (0-100%)	84%

Example:

date	ticker	BBticker	source	RawCount	ActChng	TrendRank
<date>	<chr>	<chr>	<chr>	<dbl>	<dbl>	<dbl>
2025-01-06	SNOW	SNOW US	Freelancer	2	0.0675	0.568
2025-01-06	SNOW	SNOW US	GH_forks	69	-0.294	0.0123
2025-01-06	SNOW	SNOW US	GH_pushes	1635	-0.312	0.851
2025-01-06	SNOW	SNOW US	GH_stars	590	0.119	0.0795
2025-01-06	SNOW	SNOW US	StackO	20	0.559	0.955
2025-01-06	WIX	WIX US	Aggregate	NA	-2.09	0.211
2025-01-06	WIX	WIX US	Apps	154603	-0.602	0.144
2025-01-06	WIX	WIX US	Freelancer	54	0.0254	0.608
2025-01-06	WIX	WIX US	GH_pushes	0	-0.352	0.161
2025-01-06	WIX	WIX US	Google_GB	41	-1.01	0.153

Explanation of Data Fields

Date:

The Data is a weekly timeseries, defined and released on Mondays (e.g. 20.01.2025).

The Counts are point-in-time data with the exception of Google Trends.

In the case of Google Trends and Apps, the observations are already 1 week old as scraping takes several days.

Ticker: Ticker Symbol

Source:

The Web Platform on which Activity was measured. The occurrence of keywords / brands on those platforms is measured each week.

Freelancer	Project Postings on Freelancer.com
StackO	Discussions on StackOverflow
GH_forks, GH_pushes, GH_stars	GitHub Repositories can be forked, pushed and starred
Google_glob, Google_GB	Google Search Counts as provided by Google Trends. Regions Global and UK are available. The Search Counts are expressed as a value between 0-100. And the whole history changes each week (!).
Apps	App Downloads on Google Play and Apple Store
Aggregate	<p>An aggregation of all other sources. It calculates the sum of Sources, normalized by Standard Deviation. Only a Value for Activity Changes, not RawCount is provided.</p> <pre>merge(TRND_adj_glob / sd(tail(TRND_adj_glob,60)), TRND_adj_stars / sd(tail(TRND_adj_stars,60)) ... ,join="left") TRND_adj_comb <- colCombine(TRND_adj_comb, fun="sum")</pre>

Links to Sources:

<https://www.freelancer.com/jobs/2/?keyword=twilio&status=all>


<https://stackoverflow.com/search?tab=newest&q=twilio>

<https://github.com/topics/twilio>

<https://trends.google.com/trends/explore?date=today%205-y&q=twilio>

RawCount:


The Number of occurrences for a ticker found on a platform each week. Each ticker/company is measured via its software brands which form the keywords in a query on the platform.



Weekly Change	<code>TRND - stats::lag(TRND,1)</code>
Standardization of each Ticker	<code>TRND / matrix(rep(sapply(TRND , sd)+2 , dim(TRND) [1]), ncol=dim(TRND) [2], byrow=T)</code>
4 week change	<code>TRND[,] <- mav(TRND,4)</code>

ActivityChange:

Just a function of RawCount to make tickers comparable with each other: The rolling 4-week change in RawCount, normalized by its standard deviation.



Calculating 1-year linear trend	<code>SIG <- sig_trend(TRND, 52 ,cusum=T)</code>
Ranking Trends over all Tickers	<code>SIG[,] <- rowRanks(SIG, ties.method="average")/ncol(SIG)</code>

TrendRank:

Just a function of RawCount to identify longer term trends and rank them within tickers. 1. calculating the 1-year linear trend, 2. Rank Significance of Trend within all tickers.

Delivery of Data

A Data Excerpt is openly accessible from GoogleCloud:

https://storage.googleapis.com/antedata_open/AllDat_excerpt_time.csv

https://storage.googleapis.com/antedata_open/AllDat_excerpt_ticker.csv

To test our full data sample, please sign a standard data test license with us.

Integration of Data – Creating Timeseries

Example R Code - Create a TimeSeries of Counts on Freelancer.com (Tickers in Columns):

1. Load CSV

```
df <- read.csv(  
  "https://storage.googleapis.com/antedata_open/AllDat_excrpt.csv")
```

2. Filter and Spread Data to Matrix (Date vertical, Tickers horizontal)

```
df <- spread(  
  df[ which(df$source == "Freelancer"),c("date", "ticker", "RawCount")  
], key="ticker", value="RawCount")
```

3. Create Timeseries Object xts

```
df <- as.xts( df[,2:ncol(df)] , order.by=as.Date(df[,1]) )
```

Example Python Code:

```
df = pd.read_csv(  
  "https://storage.googleapis.com/antedata_open/AllDat_excrpt.csv")  
  
df = df.loc[df['source'] == 'Freelancer', ['date', 'ticker',  
  'RawCount']]  
  
df = df.pivot(index='date', columns='ticker', values='RawCount')
```

Example Result TimeSeries

	CRM	DBX	HUBS	NVDA	OKTA	SNOW	WIX
2024-11-18	50	5	17	7	1	2	63
2024-11-25	55	5	20	3	2	4	66
2024-12-02	60	10	18	12	3	2	49
2024-12-09	58	9	25	4	5	1	52
2024-12-16	53	7	15	7	4	2	39
2024-12-23	41	4	24	4	8	3	34
2024-12-30	22	7	17	3	1	2	30
2025-01-06	44	7	24	12	3	2	54
2025-01-13	44	4	24	6	0	3	54

Contact

If you have technical questions, please don't hesitate to contact:

Florian.Boehringer@antedata.ch

+41 78 69 111 67