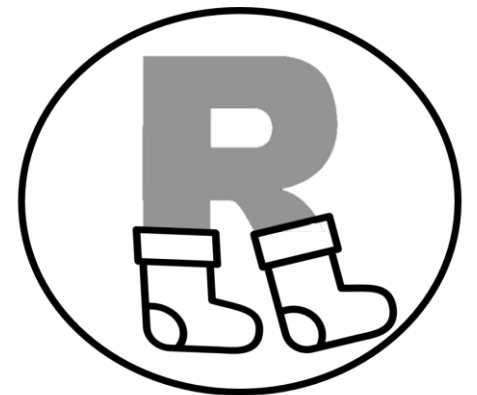



# the GDELT Project

Pei Lee



**R-Socks Taipei**

# the GDELT Project

- the Global Database of Events, Language, and Tone
- 全球事件、語言和音調資料庫
-  **Jigsaw** ( 前 Google 智庫部門 Google Ideas )
- 世界上最大的社會事件開放資料庫：監控全世界 100 多種語言的新聞媒體

# the GDELT Project

- an initiative to construct a catalog of human societal-scale behavior and beliefs across all countries of the world, connecting every person, organization, location, count, theme, news source, and event across the planet into a single massive network that captures what's happening around the world, what its context is and who's involved, and [how the world is feeling about it, every single day.](#)

# the GDELT Project



# the GDELT Project

- 資料存取方式：

	GDELT Analysis Service	Google BigQuery	GDELT API
費用	免費	收費	免費
篩選彈性	小	大	中
技術要求	中	高	低
資料齊全	中	高	低
限制	EVENT：前 20,000 筆資料 GKG：前 200,000 筆資料	\$\$\$	近 12 週 網路新聞

# the GDELT Project

- GDELT Analysis Service

1. GDELT Event Database :

- EVENT TABLE : 58個欄位
- MENTIONS TABLE : 15個欄位
- 詳細説明 : [http://data.gdeltproject.org/documentation/GDELT-Event\\_Codebook-V2.0.pdf](http://data.gdeltproject.org/documentation/GDELT-Event_Codebook-V2.0.pdf)

2. GDELT Global Knowledge Graph :

- 詳細説明 : [http://data.gdeltproject.org/documentation/GDELT-Global\\_Knowledge\\_Graph\\_Codebook-V2.1.pdf](http://data.gdeltproject.org/documentation/GDELT-Global_Knowledge_Graph_Codebook-V2.1.pdf)

# the GDELT Project

- Google BigQuery

- 例如：

```
SELECT theme, COUNT(*) as count
FROM (
  select REGEXP_REPLACE(SPLIT(V2Themes, ';'), r',.*', '') theme
  from [gdelt-bq:gdeltv2.gkg]
  where DATE > 20150302000000 and DATE < 20150304000000 and V2Persons like '%Tsipras%'
)
group by theme
ORDER BY 2 DESC
LIMIT 300
```

# the GDELT Project

- Google BigQuery

- 結果 ( 部分 ) :

Row	theme	count
1	GENERAL_GOVERNMENT	5502
2	TAX_FNCACT_MINISTER	5184
3	TAX_WORLDLANGUAGES_GREEK	4251
4	TAX_ETHNICITY_GREEK	4205
5	ECON_BANKRUPTCY	3514
6	LEADER	2743
7	TAX_FNCACT_PRIME_MINISTER	2286
8	ECON_WORLDCURRENCIES_EURO	1036
9	NEGOTIATIONS	1030



# the GDELT Project

- Google BigQuery 收費方式

Action	Cost	Notes
Storage	\$0.02 per GB, per month	First 10 GB is free each month
Long Term Storage	\$0.01 per GB, per month	
Streaming Inserts	\$0.05 per GB	
Queries	\$5 per TB	First 1 TB per month is free

# the GDELT Project

- GDELT API :

- 使用説明 : <http://blog.gdeltproject.org/gdelt-doc-2-0-api-debuts/>

- 例如 :

http://api.gdeltproject.org/api/v2/doc/doc?  
query= theme:ACT\_MAKESTATEMENT "trump" Domain:cnn.com &  
mode=ArtList &  
format=CSV &  
STARTDATETIME=20170418000000 &  
ENDDATETIME=20170711000000

# the GDELT Project

- GDELT API :

- QUERY :

- "(KEYWORD) "
    - (a OR b)
    - -
    - Domain
    - ImageFaceTone
    - ImageNumFaces
    - ImageOCRMeta
    - ImageTag

# the GDELT Project

- GDELT API :

- QUERY :

- ImageWebCount
    - ImageWebTag
    - SourceCountry
    - SourceLang
    - Theme
    - Tone
    - ToneAbs

# the GDELT Project

- GDELT API :
  - MODE :
    - ArtList
    - ImageCollage
    - ImageCollageInfo : the number of times (up to 200) it has been seen
    - ImageCollageShare
    - TimelineVol
    - TimelineVolInfo : the top 10 most relevant articles

# the GDELT Project

- GDELT API :
  - MODE :
    - TimelineTone :  
<http://api.gdeltproject.org/api/v2/doc/doc?query=%22internet%20of%20things%22&mode=TimelineTone>
    - TimelineLang :  
<http://api.gdeltproject.org/api/v2/doc/doc?query=%22internet%20of%20things%22&mode=TimelineLang>
    - TimelineSourceCountry :  
<http://api.gdeltproject.org/api/v2/doc/doc?query=%22internet%20of%20things%22&mode=TimelineSourceCountry>
    - ToneChart :  
<http://api.gdeltproject.org/api/v2/doc/doc?query=%22internet%20of%20things%22&mode=ToneChart>

# the GDELT Project

- GDELT API :
  - MODE :
    - WordCloudEnglish
    - WordCloudNative :  
<http://api.gdeltproject.org/api/v2/doc/doc?query=%22artificial%20intelligence%22&mode=WordCloudNative>
    - WordCloudTheme :  
<http://api.gdeltproject.org/api/v2/doc/doc?query=%22artificial%20intelligence%22&mode=WordCloudTheme>
    - WordCloudImageTags :  
<http://api.gdeltproject.org/api/v2/doc/doc?query=%22artificial%20intelligence%22&mode=WordCloudImageTags>
    - WordCloudImageWebTags :  
<http://api.gdeltproject.org/api/v2/doc/doc?query=%22artificial%20intelligence%22&mode=WordCloudImageWebTag>

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