

Cognitive Services

Text Analysis in Power BI



Kristen Chan

2019.03.10

Hello !

I am Kristen Chan

Data Scientist

E-Commerce / Telecom

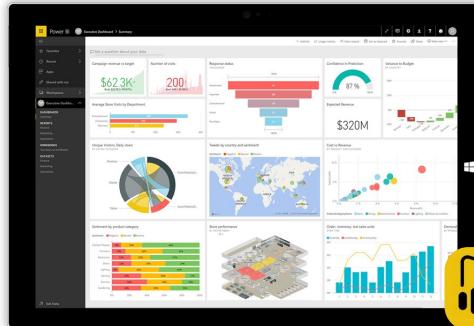
R-Ladies Taipei

Co-Organizer [link](#)



Overview

什麼是 Power BI



Power BI



Cognitive Services 認知服務



辨識

影像處理演算法，以智慧的方式識別、加上字幕、建立索引及調整您的圖片與影片。



知識

對應複雜資訊和資料，以解決 智慧建議和語意搜尋等工作。



語言

讓您的應用程式能夠透過預先建置的指令碼處理自然語言、評估情感，以及了解如何辨識使用者想要的項目。



語音

將語音轉換成文字、使用語音來驗證，或將說話者 辨識新增至您的應用程式。



搜尋

將 Bing 搜尋 API 新增至您的應用程式，並充分利用 以單一 API 呼叫合併數十億個網頁、影像、影片和新聞的能力。



Go to Cognitive Services !!

KristenChian 5

Cognitive Services 認知服務



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Go to Cognitive Services !!

KristenChian 6

Cognitive Services 認知服務 – 語言



文字分析

- 具名實體辨識
- 關鍵字詞擷取
- 文字情感分析



Bing 拼字檢查

- 網路規模的多重語言拼字檢查
- 內容拼字檢查



語言理解

- 情境語言理解



Translator Text

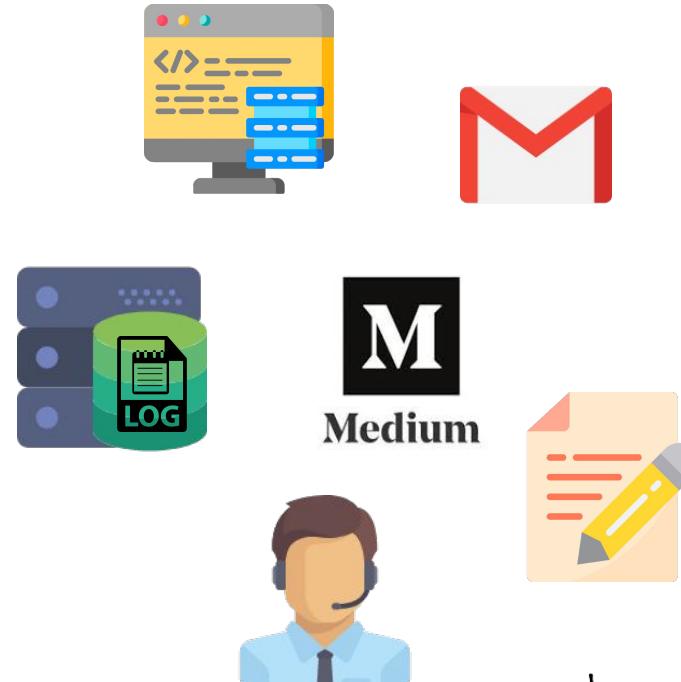
- 自動語言偵測
- 自動文字翻譯
- 可自訂式翻譯



內容仲裁

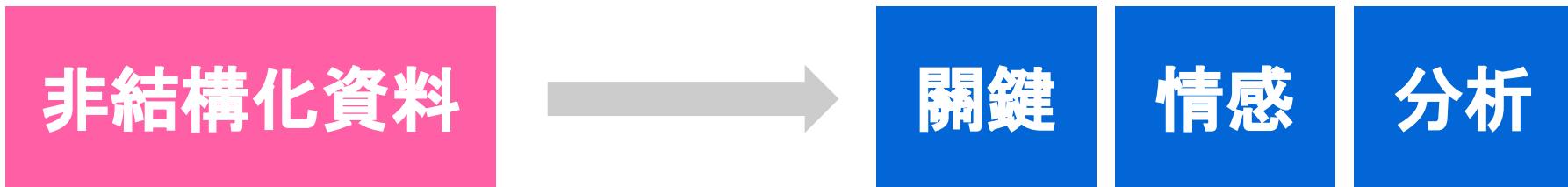
- 仲裁影像及影片中偏激或冒犯性的內容
- 要封鎖或允許比對內容的自訂映像與文字清單
- 包含來自真人仲裁者的工具

Text analysis 文本分析



Text analysis 文本分析

- 資訊爆炸 -- 產生大量的資訊
- 沒辦法將這些資料逐一閱讀完
- 更別說要從中找出有趣的內容





Cognitive Services

Text Analysis

認知服務



Microsoft Azure

概觀 解決方案 產品 文件 定價 訓練 Marketplace 合作夥伴 支援 部落格 其他

連絡銷售員: 0809090343 搜尋 我的帳戶 入口網站 登入 免費帳戶 >

認知服務

在您的應用程式、網站和 Bot 中融入智慧型演算法，透過自然的溝通方式，來查看、聆聽、述說、了解及詮釋您的使用者需求。立即使用 AI 讓業務轉型。

免費試用認知服務 >

探索 認知服務： 目錄 定價 文件



↑
認知服務
Website

使用 AI 來解決業務問題

KristenChen 11

認知服務 - 語言

The screenshot shows the Microsoft Azure homepage with a dark header. The header includes the Microsoft Azure logo, a search bar, and links for '連絡銷售員: 0809090343' (Contact Sales), '我的帳戶' (My Account), '入口網站' (Portal), and '登入' (Log In). Below the header, there's a navigation bar with items like '概觀' (Overview), '解決方案' (Solutions), '產品' (Products) (which is highlighted in yellow), '文件' (Files), '定價' (Pricing), '訓練' (Training), 'Marketplace' (Marketplace), '合作夥伴' (Partners), '支援' (Support), '部落格' (Blog), and '其他' (More). On the right side of the header, there's a '免費帳戶' (Free Account) button.

使用 AI 來解決業務問題



辨識

影像處理演算法，以智慧的方式識別、加上字幕、建立索引及調整您的圖片與影片。



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讓您的應用程式能夠透過預先建置的指令碼處理自然語言、評估情感，以及了解如何辨識使用者想要的項目。

"Because the Cognitive Services APIs harness the power of machine learning, we were able to bring advanced intelligence into our product without the need to have a team of data scientists on hand."

Kristen Chan 12

認知服務 - 語言(文本分析)

The screenshot shows the Microsoft Azure portal with the 'Text Analytics' service selected. The top navigation bar includes links for Overview, Solutions, Products, Marketplace, Partners, Support, Blogs, and Other. The main content area is titled '從您的文字擷取資訊' (Extract information from your text) and provides instructions for testing the Text Analytics API. A text input field contains the sentence 'I had a wonderful trip to Seattle and enjoyed seeing the Space Needle!'. Below the input, there are two tabs: '分析的文字' (Analyzed text) and 'JSON'. The 'JSON' tab displays the following analysis results:

分析結果	詳細
語言:	English (信心 : 100%)
關鍵片語:	Seattle, wonderful trip, Space Needle
人氣:	98 %
連結的實體 (預覽):	I had a wonderful trip to Seattle and enjoyed seeing the Space Needle!

從您的文字擷取資訊

使用下列示範來試驗 Text Analytics API。選擇其中一個範例或提供 您自己的範例。按一下 [分析] 就能識別您文字的語言、情感、關鍵片語與實體 (預覽)。

觀看影片

I had a wonderful trip to Seattle and enjoyed seeing the Space Needle!

分析的文字 JSON

語言:	English (信心 : 100%)
關鍵片語:	Seattle, wonderful trip, Space Needle
人氣:	98 %
連結的實體 (預覽):	I had a wonderful trip to Seattle and enjoyed seeing the Space Needle!

分析

範例 - 英文 - 正值

範例 - 英文 - 負值

範例 - 西班牙文 - 正值

範例 - 西班牙文 - 負值

KristenChen 13

資料

Data Source

<https://github.com/Kaiqb/KaiqbRepo0731190208/blob/master/CognitiveServices/TextAnalytics/FabrikamComments.csv>

Searched or jump to... Pull requests Issues Marketplace Explore Watch 0 Star 1 Fork 64

Kaiqb / KaiqbRepo0731190208 Issues 0 Pull requests 0 Projects 0 Wiki Insights

Branch: master KaiqbRepo0731190208 / CognitiveServices / TextAnalytics / FabrikamComments.csv Find file Copy path

Kaiqb Create FabrikamComments.csv 7a0570d on 7 Sep 2017

1 contributor

22 lines (21 sloc) 7.74 KB Raw Blame History

Search this file...

id	inreplyto	name	userid	emailaddress	datetime	topic	subject	comment
1102	0	Donald Erie	derie	don@example.com	9:04 AM	shipping	Insufficient packaging	I ordered three widge
1103	0	Jake Bering	jakeb	jake.bering@example.com	9:37 AM	fulfillment	Wrong items again	Can't believe you fo
1104	0	Ann Huron	annh	ahuron@example.com	10:11 AM	praise	Fantastic!	Wow! I had NO IDE
1105	1103	David Columbia	davidc	davidc78@example.com	10:15 AM	fulfillment	Re: Wrong items again	Jake, I've had simila
1106	0	Maria Michigan	mariam	maria@example.com	10:44 AM	other	Photo on framistan brochure	That hand model ne
1107	0	Juan Brazos	juanm	juan1@example.com	11:01 AM	techsupport	Bag of Holding	I put my wedding ri
1108	1105	Jake Bering	jakeb	jake.bering@example.com	12:23 PM	fulfillment	Re: Wrong items again	David, sorry, it's wh
1109	0	Susan Colorado	susanc	suecol@example.com	1:15 PM	techsupport	Problems with retro-encabulator	Hi folks. According



認知服務 - 語言(文本分析)

The screenshot shows the Microsoft Azure portal interface. At the top, there's a navigation bar with links like '概觀' (Overview), '解決方案' (Solution), '產品' (Product) (which is highlighted in yellow), '文件' (File), '定價' (Pricing), '訓練' (Training), 'Marketplace' (Marketplace), '合作夥伴' (Partners), '支援' (Support), '部落格' (Blog), and '其他' (Others). On the right side of the top bar are links for '連絡銷售員: 0809090343' (Contact Sales: 0809090343), '搜尋' (Search), '我的帳戶' (My Account), '入口網站' (Portal Home), and '登入' (Log In). Below the top bar, there's a green button labeled '免費帳戶 >' (Free Account >).

從您的文字擷取資訊

使用下列示範來試驗 Text Analytics API。選擇其中一個範例或提供 您自己的範例。按一下 [分析] 就能識別您文字的語言、情感、關鍵片語與實體 (預覽)。

觀看影片

I ordered three widgets last week and just received them. I am VERY disappointed in the way they were packed. The box was only about two thirds full of packing peanuts and the widgets were not individually wrapped. As a result they were able to bump up against each other while in transit. The display on one doesn't work at all and the other two are quite scratched up (look like they have been in service for years) though they do work fine. I have always been satisfied with your service and trust you will make this right, but I suggest you look into how you are packing these items. You will have a lot of unhappy customers otherwise.

分析

The results page displays the analyzed text in two tabs: '分析的文字' (Analyzed Text) and 'JSON'. The '分析的文字' tab is active, showing the following details:

- 語言:** English (信心 : 100%)
- 關鍵片語:** widgets, service, packing peanuts, thirds, lot of unhappy customers, way, result, box, years, week, transit, display, right, items
- 人氣:** 8 %
- 連結的實體:** I ordered three widgets last week and just received them. I am VERY disappointed in the way they were packed. The box was only about two thirds full of packing peanuts and the widgets were not individually wrapped. As a result they were able to bump up against each other while in transit.

KristenChen 15

Azure X Power BI

開啟一個 VM

Step 1

The screenshot shows the Microsoft Azure portal interface. A blue banner at the top right reads "Step 1". On the left, a sidebar menu has a pink circle labeled "1" over the "建立資源" (Create Resource) button. Below it, under "AI + 機器學習服務" (AI + Machine Learning Services), a pink dashed box encloses the "Data Science Virtual Machine - Windows 2016 (預覽)" (Data Science Virtual Machine - Windows 2016 (Preview)) option, which is highlighted with a pink circle labeled "3". The main content area shows the Azure Marketplace search results for "Data Science Virtual Machine - Windows 2016 (預覽)".

Microsoft Azure

1 建立資源

2 AI + 機器學習服務

3 Data Science Virtual Machine - Windows 2016 (預覽)

Step 1

首頁 > 新增

新增

搜尋 Marketplace

搜尋資源、服務及文件

步驟

開始使用

Machine Learning service workspace

深入了解

最近建立

計算

Data Science Virtual Machine - Windows 2016 (預覽)

快速入門教學課程

網路

儲存體

Web

行動

容器

資料庫

分析

AI + 機器學習服務

物聯網

Mixed Reality

整合

Security

身分識別

開發人員工具

管理工具

軟體即服務 (SaaS)

Machine Learning service workspace

深入了解

Web App Bot

快速入門教學課程

Computer Vision

快速入門教學課程

Face

快速入門教學課程

Text Analytics

快速入門教學課程

Language Understanding

快速入門教學課程

Bing Search v7

快速入門教學課程

Ubuntu Server 18.04 LTS

深入了解

開啟一個 VM

Microsoft Azure

首頁 > 新建資源 > 建立虛擬機器

選取 VM 大小

瀏覽可用的虛擬機器大小及其功能

依 VM 大小搜尋... 還原預設篩選

Step 2

選擇機器大小

目前顯示 195 個 VM 大小。 | 訂用帳戶: Visual Studio Enterprise | 區域: 美國西部 2 | 目前大小: Standard_DS4_v2

VM 大...	供應項目	系列	VCPUs	RAM (GB)	資料磁碟	IOPS 上限	暫存位置	高階磁碟支援	成本/月 (預估)
A0	標準	一般用途	1	0.75	1	1x500		否	NT\$447.21
A0	基本	一般用途	1	0.75	1	1x300		否	NT\$402.49
A1	標準	一般用途	1	1.75	2	2x500		否	NT\$1,140.38
A1	基本	一般用途	1	1.75	2	2x300		否	NT\$514.29
A1_v2	標準	一般用途	1	2	2	2x500		否	NT\$804.97
A2	標準	一般用途	2	3.5	4	4x500		否	NT\$2,258.39
A2	基本	一般用途	2	3.5	4	4x300		否	NT\$1,520.50
A2_v2	標準	一般用途	2	4	4	4x500		否	NT\$1,699.38
A2m_v2	標準	一般用途	2	16	4	4x500		否	NT\$2,213.67
A3	標準	一般用途	4	7	8	8x500		否	NT\$4,516.79
A3	基本	一般用途	4	7	8	8x300		否	NT\$3,935.42
A4	標準	一般用途	8	14	16	16x500		否	NT\$9,055.93
A4	基本	一般用途	8	14	16	16x300		否	NT\$7,870.83

選取

顯示的價格是以您當地貨幣所估算出，包含適用於 Azure 基礎結構的軟體成本，以及訂用帳戶與位置的所有折扣。最終費用會在成本分析與帳單檢視中，以您的當地貨幣顯示。[檢視 Azure 定價計算機。](#)

KristenChen 18

開啟一個 VM

Microsoft Azure

搜尋資源、服務及文件

Step 3

首頁 > 新增 > 建立虛擬機器

建立虛擬機器

基本 磁碟 網路 管理 客體設定 標籤 檢閱 + 建立

Azure VM 搭載一部作業系統磁碟及一部磁碟供短期儲存之用。您可以連結其他資料磁碟。VM 的大小決定您可以使用的儲存體類型，以及所能連結的資料磁碟數量。[深入了解](#)

磁碟選項

* OS 磁碟類型

是 否

Ultra SSD 相容性不適用於此 VM 大小及位置。

資料磁碟

您可以另外為虛擬機器新增和設定資料磁碟，或連結現有磁碟。此 VM 也隨附暫存磁碟。

LUN	名稱	大小 (GiB)	磁碟類型	主機快取

建立並連結新的磁碟 連結現有磁碟

進階

檢閱 + 建立 上一個 下一步：網路 >



19

開啟一個 VM

Microsoft Azure

首頁 > 新增 > 建立虛擬機器

建立虛擬機器

Step 4

基本 磁碟 網路 管理 客體設定 標籤 檢閱 + 建立

藉由進行網路介面卡 (NIC) 設定來定義您虛擬機器的網路連線。您可以透過安全性群組規則控制連接埠、傳入及傳出連線，也可以放在現有的負載平衡解決方案後方。 [深入了解](#)

網路介面
在建立虛擬機器時，會為您建立網路介面。

設定虛擬網路

* 虛擬網路 [\(新\) DSWin-vnet](#) [建立新的](#)

* 子網路 [\(新\) default \(10.0.3.0/24\)](#)

公用 IP [\(新\) DSWin-ip](#) [建立新的項目](#)

NIC 網路安全性群組 [無](#) [基本](#) [進階](#)

[此 VM 映像已預先設定 NSG 規則](#)

* 設定網路安全性群組 [\(新\) DSWin-nsq](#) [建立新的項目](#)

加速的網路 [開啟](#) [關閉](#) 選取的映像不支援高速網路。

負載平衡

[檢閱 + 建立](#) [上一個](#) [下一步：管理 >](#)

KristenChen 20

開啟一個 VM

Microsoft Azure

首頁 > 新增 > 建立虛擬機器

建立虛擬機器

Step 5

基本 磁碟 網路 管理 客體設定 標籤 檢閱 + 建立

為您的 VM 設定監視及管理選項。

監視

- 開機診斷 開啟 關閉
- OS 客體診斷 開啟 關閉
- * 診斷儲存體帳戶 (新) dswindig [建立新的項目](#)

識別

- 系統指派的受控識別 開啟 關閉

自動關機

- 啟用自動關機 開啟 關閉
- 關機時間 19:00:00
- 時區 (UTC) 國際標準時間
- 關機之前的通知 開啟 關閉

檢閱 + 建立 上一個 下一步：客體設定 >

設定自動關機

KristenChen 21

開啟一個 VM

Microsoft Azure

搜尋資源、服務及文件

首頁 > 新增 > 建立虛擬機器

建立虛擬機器

Step 6

基本 磁碟 網路 管理 **客體設定** 標籤 檢閱 + 建立

透過虛擬機器延伸模組或 cloud-init，新增其他設定、代理程式、指令碼或應用程式。

延伸模組

擴充功能提供部署後的設定及自動化。

延伸模組 選取要安裝的延伸模組

CLOUD INIT

cloud init 這項方法常常用來在 Linux VM 第一次開機時自訂該 VM。您可以使用 cloud-init 安裝套件及寫入檔案，或設定使用者與安全性。
[深入了解](#)

選取的映像不支援 cloud init。

檢閱 + 建立 上一個 下一步：標籤 >



開啟一個 VM

Microsoft Azure

搜尋資源、服務及文件

首頁 > 新增 > 建立虛擬機器

建立虛擬機器

Step 7

基本 磁碟 網路 管理 客體設定 標籤 檢閱 + 建立

標籤為成對的名稱和數值，可讓您透過將相同標籤套用至多個資源與資源群組，進而分類資源並檢視合併的帳單。 [深入了解](#)

請注意，若您在建立標籤後變更其他索引標籤上的資源設定，您的標籤將會自動更新。

名稱	值	資源
		已選取 7 項

檢閱 + 建立 上一個 下一步：檢閱 + 建立 >

KristenChian 23

開啟一個 VM

Microsoft Azure

首頁 > 新增 > 建立虛擬機器

建立虛擬機器

Step 8

驗證成功

產品詳細資料

Data Science Virtual Machine - Windows 不在點數適用範圍內 2016 0.0000 TWD/小時
由 Microsoft 使用規定 | 隱私權原則

標準 A0 0.6011 TWD/小時
由 Microsoft 使用規定 | 隱私權原則

條款

按一下 [建立]，即表示我 (a) 同意上述 Marketplace 供應項目的相關法律條款及隱私權聲明；(b) 授權 Microsoft 向我目前的付款方式收取供應項目的相關費用，帳單週期與我的 Azure 訂用帳戶相同；並 (c) 同意 Microsoft 將我的連絡資料、使用方式及交易資訊提供給供應項目的提供者，以用於支援、帳單及其他交易活動。Microsoft 不提供第三方供應項目的權利。如需其他詳細資料，請參閱 [Azure Marketplace 條款](#)。

基本

訂用帳戶	Visual Studio Enterprise
資源群組	(新) DSWin
虛擬機器名稱	DSWin
區域	美國西部 2
可用性選項	不需要基礎結構備援
使用者名稱	kristen

建立 上一個 下一個 下載自動化的範本

KristenChian 24

開啟一個 VM

Microsoft Azure

首頁 > 虛擬機器 > DSWin

DSWin 虛擬機器

搜尋 (Ctrl+ /)

概觀

活動記錄

存取控制 (IAM)

標籤

診斷並解決問題

設定

網路

磁碟

大小

安全性

延伸模組

持續傳遞 (預覽)

可用性設定組

組態

身分識別

屬性

鎖定

自動化指令碼

作業

搜尋資源、服務及文件

連接 啟動 重新啟動 停止 擷取 刪除 重新整理

資源群組 (變更) : DSWin 電腦名稱 : DSWin
狀態 : 正在執行 作業系統 : Windows
位置 : 美國西部 2 大小 : 標準 A0 (1 vcpu, 0.75 GB 記憶體)
訂用帳戶 (變更) : Visual Studio Enterprise 公用 IP 位址 : IP
訂用帳戶識別碼 : 4b17375d-57de-4803-a920-a7446a41ca4f 虛擬網路/子網路 : DSWin-vnet/default
DNS 名稱 : 設定

顯示下列時間內的資料: 1小時 6小時 12小時 1天 7天 30天

CPU (平均)

網路 (總計)

磁碟位元組 (總計)

磁碟作業數/秒 (平均)

KristenChian 25

The screenshot shows the Microsoft Azure portal interface. On the left, there's a sidebar with various service icons. The main area shows a VM named 'DSWin' with its status as '正在執行'. It provides details like operating system (Windows), location (美国西部 2), and size (標準 A0). Metrics like CPU usage (60.89%) and network traffic (14.08 MB) are shown in charts. The IP address of the VM is highlighted in pink.



Cognitive Services with Power BI

設定 Cognitive Services

The screenshot shows the Microsoft Azure portal interface. A pink circle labeled '1' highlights the '建立資源' (Create Resource) button in the left sidebar. A pink circle labeled '2' highlights the 'AI + 機器學習服務' (AI + Machine Learning Services) category in the search results. A pink circle labeled '3' highlights the 'Text Analytics' service card.

Microsoft Azure

搜尋資源、服務及文件

sinue625@hotmail.com 預設目錄

1 建立資源

2 AI + 機器學習服務

3 Text Analytics

新增

Azure Marketplace 精選

開始使用 Machine Learning service workspace

最近建立 Data Science Virtual Machine - Windows 2016 (預覽)

計算 Web App Bot

網路 Computer Vision

儲存體 Face

Web 快速入門教學課程

行動

容器

資料庫

分析

AI + 機器學習服務

物聯網

Mixed Reality

整合

Security

身分識別

開發人員工具

管理工具

軟體即服務 (SaaS)

區塊鏈

Language Understanding

Bing Search v7

Ubuntu Server 18.04 LTS

深入了解

設定 Cognitive Services

The screenshot shows the Microsoft Azure portal interface. On the left, there's a sidebar with various service icons. The main content area is titled '文字分析' (Text Analysis) under the 'Microsoft' section. It lists three main features: 情感分析 (Sentiment Analysis), 關鍵片語萃取 (Key Phrase Extraction), and 語言偵測 (Language Detection). Below these features, there's a '儲存以便稍後使用' (Save for later) button. Further down, it shows the provider as Microsoft and links to the API documentation and pricing information. At the bottom, there's a dropdown menu for selecting a software solution, currently set to '文字分析' (Text Analysis), with a note: '輕鬆評估情感及主題，以了解使用者的需求' (Easily assess sentiment and themes to understand user needs). A large blue '建立' (Create) button is at the bottom right.

Microsoft Azure

首頁 > 新增 > 文字分析

文字分析 Microsoft

使用少少幾行程式碼，就能輕鬆為任何種類的文字分析情感、擷取關鍵片語及偵測語言。

情感分析

了解使用者對您的產品或服務有何想法。您可以為文字的整體情感評分。

關鍵片語擷取

自動從文字中擷取關鍵片語，快速找出重點。

語言偵測

判斷一段文字以哪種語言寫成，支援 120 種語言。

♡ 儲存以便稍後使用

發行者 Microsoft

深入了解文字分析 API

文件 程式碼範例

實用的連結 API 參考 定價 區域可用性

選取軟體方案

文字分析 輕鬆評估情感及主題，以了解使用者的需求

建立

設定 Cognitive Services

Microsoft Azure

搜尋資源、服務及文件

sinue625@hotmail.com 預設目錄

Create

文字分析

* Name: textanalysis_powerbi

* 訂用帳戶: Visual Studio Enterprise

* 位置: 美國西部 2

* Pricing tier (View full pricing details): F0 (5K 每 30 天交易數)

* Resource group: powerbi_win

建立 自動化選項

KristenChian 29

設定 Cognitive Services

Microsoft Azure

首頁 > textanalysis_powerbi

textanalysis_powerbi

Cognitive Services

Overview

活動記錄

存取控制 (IAM)

標籤

診斷並解決問題

RESOURCE MANAGEMENT

Keys

Quick start

Pricing tier

Billing By Subscription

Properties

鎖定

自動化指令碼

監視

警訊

計量

診斷設定

記錄

支援與疑難排解

Unavailable setting

位置 美國西部 2

訂用帳戶 (變更) Visual Studio Enterprise

Endpoint https://westus2.api.cognitive.microsoft.com/text/analytics/v2.0

Manage keys Show access keys ...

API type 文字分析

Westus2 Pricing tier Free

Quota info

Free tier Total 5000 Calls

Free tier Remaining 5000 Calls

Free tier Rest period 30.00 Days

設定 Cognitive Services

The screenshot shows the Microsoft Azure portal interface for setting up a new Cognitive Services resource named "textanalysis_powerbi".

Left Sidebar: Shows the Azure navigation menu with various service categories like Machine Learning, Storage, and Database.

Resource Overview: The main page displays the "Overview" tab for the "textanalysis_powerbi" resource. A prominent message "← 剛剛建立好的" (Just created) is shown at the top. The resource group is "powerbi_win", status is "Active", location is "美國西部 2" (West US 2), and it's associated with "Visual Studio Enterprise".

API Type: 文字分析 (Text Analytics)

Pricing tier: Free

Endpoint: <https://westus2.api.cognitive.microsoft.com/text/analytics/v2.0>

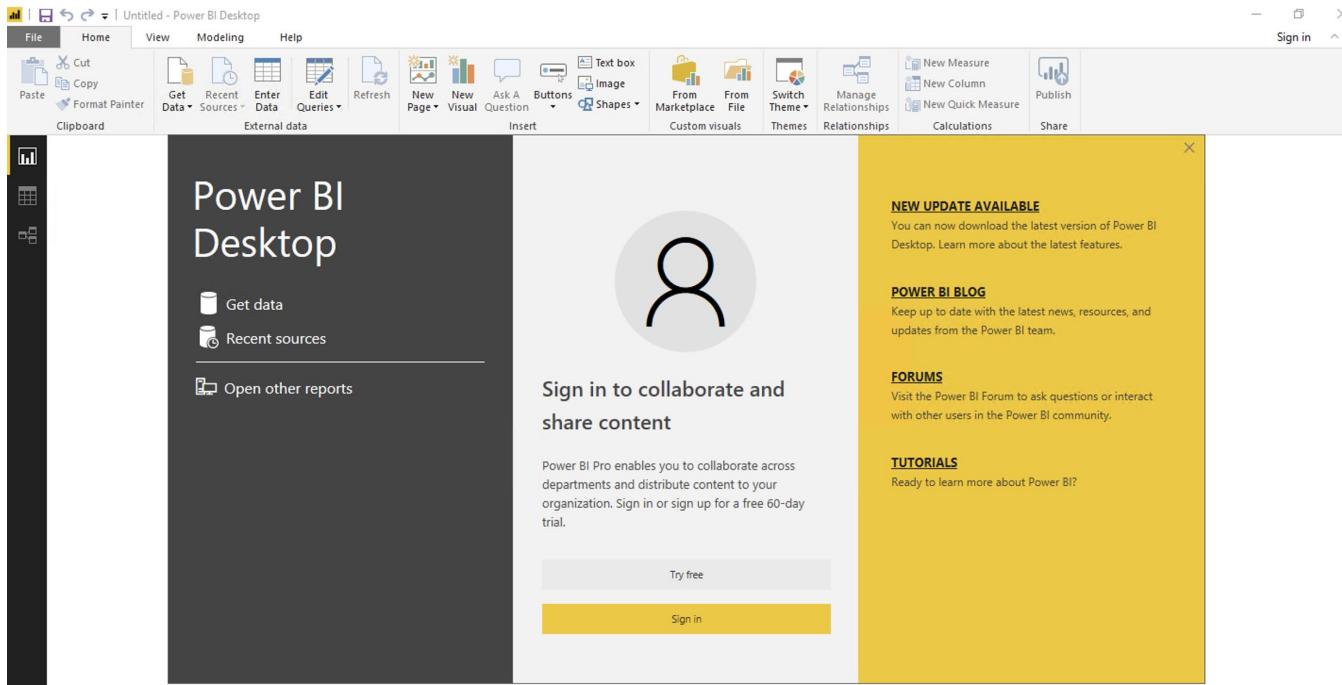
Manage keys and **Show access keys ...** buttons are available for managing authentication.

URL & Key section is highlighted with a pink box.

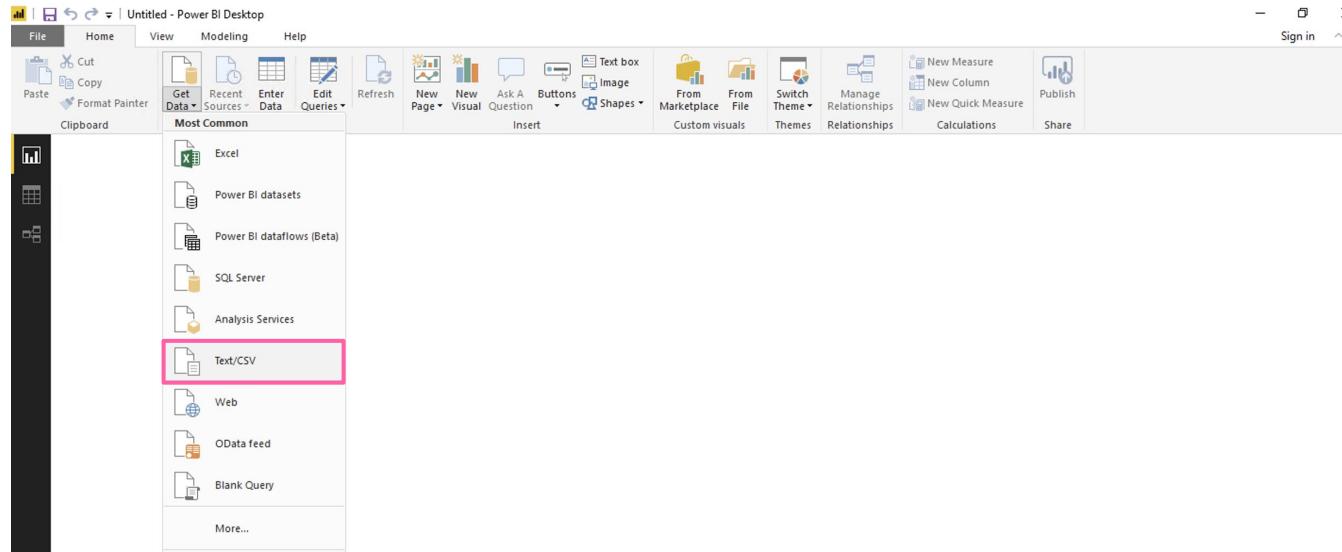
Quota info:

- Free tier Total: **5000 Calls**
- Free tier Remaining: **5000 Calls**
- Free tier Rest period: **30.00 Days**

開啟 Power BI



Power BI - 汇入資料



Power BI - 汇入資料

The screenshot shows the Power BI Desktop interface with the 'FabrikamComments.csv' file open for import. The 'File' tab is selected in the ribbon. The import dialog includes fields for 'File Origin' (set to '1252: Western European (Windows)'), 'Delimiter' (set to 'Comma'), and 'Data Type Detection' (set to 'Based on first 200 rows'). The main area displays the CSV data with columns: id, inreplyto, name, userid, emailaddress, datetime, topic, subject, and comment. The data consists of 1221 rows of comments from various users. At the bottom of the dialog are 'Load', 'Edit', and 'Cancel' buttons.

id	inreplyto	name	userid	emailaddress	datetime	topic	subject	comment
1102	0	Donald Erie	derie	don@example.com	9:04:00 AM	shipping	Insufficient packaging	I ordered three
1103	0	Jake Bering	jakeb	jake.bering@example.com	9:37:00 AM	fulfillment	Wrong items again	Can't believe you
1104	0	Ann Huron	annh	ahuron@example.com	10:11:00 AM	praise	Fantastic!	Wow! I had NO
1105	1103	David Columbia	davidc	davidc78@example.com	10:15:00 AM	fulfillment	Re: Wrong items again	Jake, I've had s
1106	0	Maria Michigan	mariam	maria@example.com	10:44:00 AM	other	Photo on framistan brochure	That hand mod
1107	0	Juan Brazos	juanm	juan1@example.com	11:01:00 AM	techsupport	Bag of Holding	I put my weddi
1108	1105	Jake Bering	jakeb	jake.bering@example.com	12:23:00 PM	fulfillment	Re: Wrong items again	David, sorry, it'
1109	0	Susan Colorado	susanc	suecol@example.com	1:15:00 PM	techsupport	Problems with retro-encabulator	Hi folks. Accord
1110	1108	Ron Puget	ronp	ronnp@example.com	1:57:00 PM	fulfillment	Re: Wrong items again	Jake, it's proba
1111	1106	Elena Pecos	elenab	pecos@example.com	2:14:00 PM	other	Re: Photo on framistan brochure	Maria, I'm pret
1112	1107	Darius Willmette	dariusw	go-dawgs@example.com	3:03:00 PM	techsupport	Re: Bag of Holding	Juan, are you s
1113	1109	Fabrikam Support	fssupport	support@fabrikam.com	3:16:00 PM	techsupport	Re: Problems with retro-encabulator	Susan, the hyd
1114	1109	Roy Ontario	royo	roy_it@example.com	3:29:00 PM	techsupport	Re: Problems with retro-encabulator	Have you tried
1115	1110	Jake Bering	jakeb	jake.bering@example.com	3:33:00 PM	fulfillment	Re: Wrong items again	Ron, you're qui
1116	1114	Susan Colorado	susanc	suecol@example.com	3:57:00 PM	techsupport	Re: Problems with retro-encabulator	Roy, thanks for
1117	1103	Fabrikam Sales	fsales	sales@fabrikam.com	4:04:00 PM	fulfillment	Re: Wrong items again	Jake, I'm very s
1118	0	Wen Niagara	wenn	wen@example.com	4:19:00 PM	productinfo	When are the new models coming out?	I am in need of
1119	1109	Susan Colorado	susanc	suecol@example.com	4:47:00 PM	techsupport	Re: Problems with retro-encabulator	Thanks. One of
1120	1117	Jake Bering	jakeb	jake.bering@example.com	5:12:00 PM	fulfillment	Re: Wrong items again	That's all well a
1121	0	Riya Champlain	riyac	riya@example.com	6:49:00 PM	suggestion	Gizmo colors	Hi, have you ev

Power BI – 確認資料

Untitled - Power BI Desktop

File Home Modeling Help

Cut Copy Paste Get Data Recent Sources Enter Data Refresh New Page New Visual Ask A Question Buttons Text box From Marketplace From File Switch Theme + Manage Relationships New Measure New Column New Quick Measure Calculations Publish Share

Clipboard External data Insert Custom visuals Themes Relationships Share

	id	inreplyto	name	userid	emailaddress	datetime	topic	subject	comment	spamscore
1102	0	Donald Erie	derie	don@example.com	9:04:00 AM	shipping	Insufficient packaging	I ordered three widgets last week and just received them. I am VEI		
1103	0	Jake Bering	jake.bering@example.com		9:37:00 AM	fulfillment	Wrong items again	Can't believe you fools shipped me the wrong items AGAIN. If you		
1104	0	Ann Huron	annh	ahuron@example.com	10:11:00 AM	praise	Fantastic!	Wow! I had NO IDEA that reciprocating garobles of such high qu		
1105	1103	David Columbia	davidc	davidc78@example.com	10:15:00 AM	fulfillment	Re: Wrong items again	Jake, I've had similar problems tracking down another source of th		
1106	0	Maria Michigan	mariam	maria@example.com	10:44:00 AM	other	Photo on framistan brochure	That hand model needs a manicure, stat!		
1107	0	Juan Brazos	juann	juan1@example.com	11:01:00 AM	techsupport	Bag of Holding	I put my wedding ring in a Bag of Holding I purchased from you gu		
1108	1105	Jake Bering	jake.bering@example.com		12:23:00 PM	fulfillment	Re: Wrong items again	David, sorry, it's whatchmascallits I'm looking for. I should have be		
1109	0	Susan Colorado	susanc	suecol@example.com	1:15:00 PM	techsupport	Problems with retro-encabulator	Hi folks. According to your encabulator brochure, the hydrooptic		
1110	1108	Ron Puget	ronp	romny@example.com	1:57:00 PM	fulfillment	Re: Wrong items again	Jake, it's probably none of my business, but you will probably get a		
1111	1106	Elena Pecos	elenab	pecos@example.com	2:14:00 PM	other	Re: Photo on framistan brochure	Maria, I'm pretty sure the folks at Fabrikam use photos of actual cu		
1112	1107	Darius Willmette	dariusw	go-dawgs@example.com	3:03:00 PM	techsupport	Re: Bag of Holding	Juan, are you sure it's not a Bag of Transmuting? They look very sim		
1113	1109	Fabrikam Support	fsupport	support@fabrikam.com	3:16:00 PM	techsupport	Re: Problems with retro-encabulator	Susan, the hydrooptic marlevanes MUST be fitted properly to thi		
1114	1109	Roy Ontario	royo	roy_it@example.com	3:29:00 PM	techsupport	Re: Problems with retro-encabulator	Have you tried turning it off and back on again? The encabulator n		
1115	1110	Jake Bering	jake.bering@example.com		3:33:00 PM	fulfillment	Re: Wrong items again	Ron, you're quite right. It is none of your business! The terms I use		
1116	1114	Susan Colorado	susanc	suecol@example.com	3:57:00 PM	techsupport	Re: Problems with retro-encabulator	Roy, thanks for the suggestion. It did help a little, but did not entri		
1117	1103	Fabrikam Sales	fsales	sales@fabrikam.com	4:04:00 PM	fulfillment	Re: Wrong items again	Jake, I'm very sorry that you've had this problem for so long. Our s		
1118	0	Wen Niagara	wenn	wen@example.com	4:19:00 PM	productinfo	When are the new models coming out?	I am in need of some doohickeys in the near future. If I remember		
1119	1109	Susan Colorado	susanc	suecol@example.com	4:47:00 PM	techsupport	Re: Problems with retro-encabulator	Thanks. One of the marlevanes was installed backward, so it's my		
1120	1117	Jake Bering	jake.bering@example.com		5:12:00 PM	fulfillment	Re: Wrong items again	That's all well and good for ME, and I do appreciate it, but what ab		
1121	0	Riya Champlain	riyac	riya@example.com	6:49:00 PM	suggestion	Gizmo colors	Hi, have you ever considered making gizmos in colors other than c		

TABLE: FabrikamComments (20 rows)

UPDATE AVAILABLE (CLICK TO DOWNLOAD)

5:55 PM 3/9/2019



關鍵字詞擷取

- 快速識別文件中關鍵的字詞
 - 支援的語言
 - 英文
 - 德文
 - 西班牙文
 - 日文

關鍵字詞擷取 API

了解 API

<https://westus.dev.cognitive.microsoft.com/docs/services/TextAnalytics.V2.0/operations/56f30cee0a5650db055a3c6>

language	文件中的語言 <small>Ocp-Apim-Subscription-Key: string Subscription key which provides access to this API. Found in your Cognitive Services accounts.</small>
id	文件中的唯一識別碼 <small>Request body Selection of documents to analyze. Documents can now contain a language field to indicate the text language</small>
text	要處理的文字 <small>application/json Sample Schema</small> <pre>{ "documents": [{ "language": "en", "id": "1", "text": "Hello world. This is some input text that I love." }, { "language": "fr", "id": "2", "text": "Bonjour tout le monde" }, { "language": "es", "id": "3", "text": "La carretera estaba atascada. Había mucho tráfico el día de ayer." }] }</pre>

Response 200

A successful response results in 0 or more key phrases identified in each valid document

application/json	text/json
Sample	Schema

```
{}
```



Power BI - 自訂函式

The screenshot shows the Power BI Desktop interface. The ribbon at the top has a 'Get Data' icon highlighted with a red circle labeled '1'. Below the ribbon is a table titled 'FabrikamComments' with 20 rows of data. To the right of the table is a 'FIELDS' pane listing columns: comment, datetime, emailaddress, id, inreplyto, name, spamscore, subject, topic, userid, and votes. At the bottom left, it says 'TABLE: FabrikamComments (20 rows)'. At the bottom right, it says 'UPDATE AVAILABLE (CLICK TO DOWNLOAD)' and shows the date '3/9/2019'.

1

2

		emailaddress	datetime	topic	subject	comment	spamscore
1102	don@example.com	9:04:00 AM	shipping	Insufficient packaging	I ordered three widgets last week and just received them. I am VEI		
1103	jake.bering@example.com	9:37:00 AM	fulfillment	Wrong items again	Can't believe you fools shipped me the wrong items AGAIN. If you		
1104	ahuron@example.com	10:11:00 AM	praise	Fantastic!	Wow! I had NO IDEA that reciprocating garombles of such high qua		
1105	davidc78@example.com	10:15:00 AM	fulfillment	Re: Wrong items again	Jake, I've had similar problems tracking down another source of th		
1106	maria@example.com	10:44:00 AM	other	Photo on framistan brochure	That hand model needs a manicure, stat!		
1107	juan1@example.com	11:01:00 AM	techsupport	Bag of Holding	I put my wedding ring in a Bag of Holding I purchased from you gu		
1108	jake.bering@example.com	12:23:00 PM	fulfillment	Re: Wrong items again	David, sorry, it's whatchamacallits I'm looking for. I should have be		
1109	suecol@example.com	1:15:00 PM	techsupport	Problems with retro-encabulator	Hi folks. According to your encabulator brochure, the hydrooptic		
1110	ronnyp@example.com	1:57:00 PM	fulfillment	Re: Wrong items again	Jake, it's probably none of my business, but you will probably get a		
1111	pecos@example.com	2:14:00 PM	other	Re: Photo on framistan brochure	Maria, I'm pretty sure the folks at Fabrikam use photos of actual cu		
1112	go-dawgs@example.com	3:03:00 PM	techsupport	Re: Bag of Holding	Juan, are you sure it's not a Bag of Transmuting? They look very sir		
1113	support@fabrikam.com	3:16:00 PM	techsupport	Re: Problems with retro-encabulator	Susan, the hydrooptic marzilevanes MUST be fitted properly to thi		
1114	roy_it@example.com	3:29:00 PM	techsupport	Re: Problems with retro-encabulator	Have you tried turning it off and back on again? The encabulator ri		
1115	jake.bering@example.com	3:33:00 PM	fulfillment	Re: Wrong items again	Ron, you're quite right: it is none of your business! The terms I use		
1116	suecol@example.com	3:57:00 PM	techsupport	Re: Problems with retro-encabulator	Roy, thanks for the suggestion. It did help a little, but did not entri		
1117	sales@fabrikam.com	4:04:00 PM	fulfillment	Re: Wrong items again	Jake, I'm very sorry that you've had this problem for so long. Our s		
1118	wen@example.com	4:19:00 PM	productinfo	When are the new models coming out?	I am in need of some doohickeys in the near future. If I remember		
1119	suecol@example.com	4:47:00 PM	techsupport	Re: Problems with retro-encabulator	Thanks. One of the marzilevanes was installed backward, so it's my		
1120	Jake Bering	jaked	jake.bering@example.com	5:12:00 PM	fulfillment	That's all well and good for ME, and I do appreciate it, but what ab	
1121	Riya Champlain	riyac	riya@example.com	6:49:00 PM	suggestion	Hi, have you ever considered making gizmos in colors other than c	

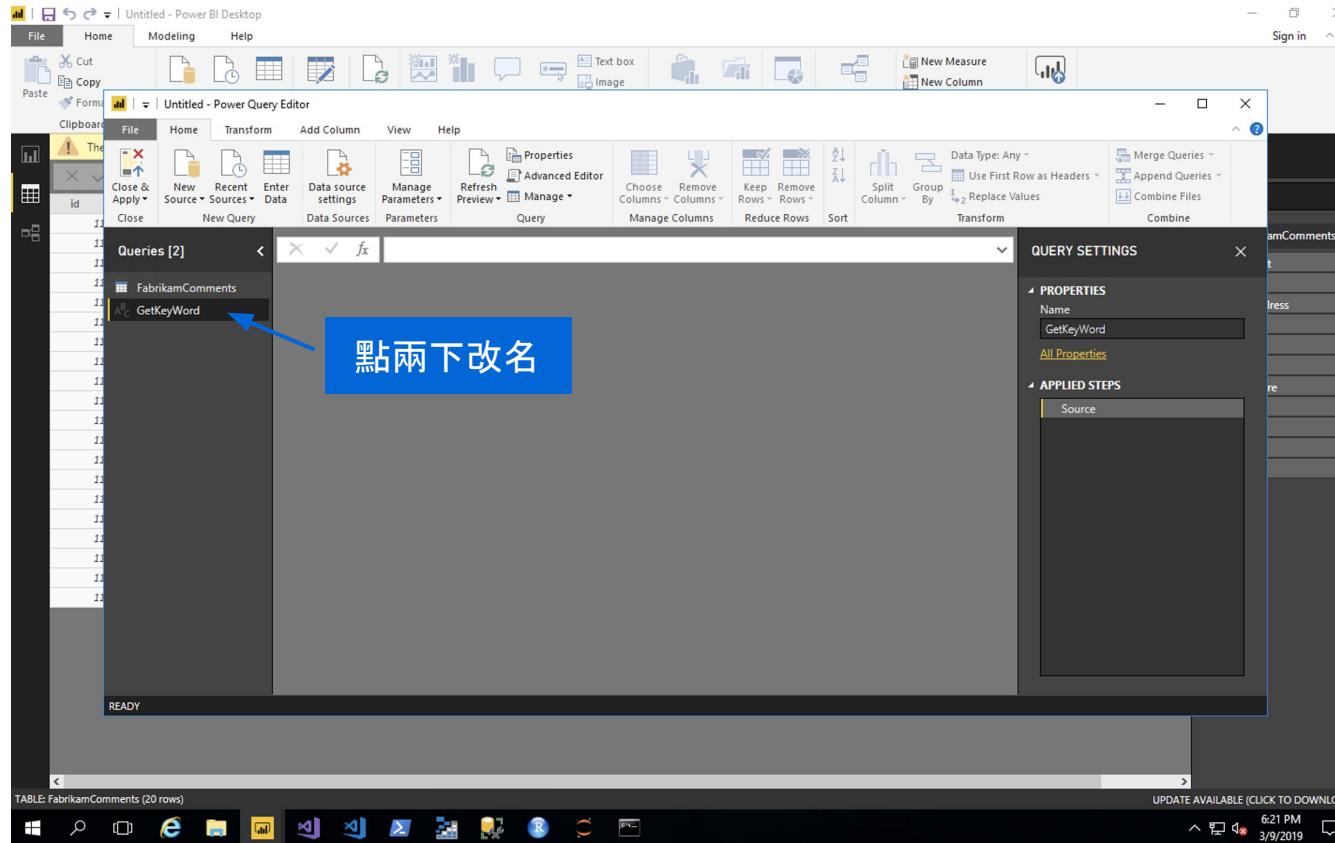
TABLE: FabrikamComments (20 rows)

UPDATE AVAILABLE (CLICK TO DOWNLOAD)

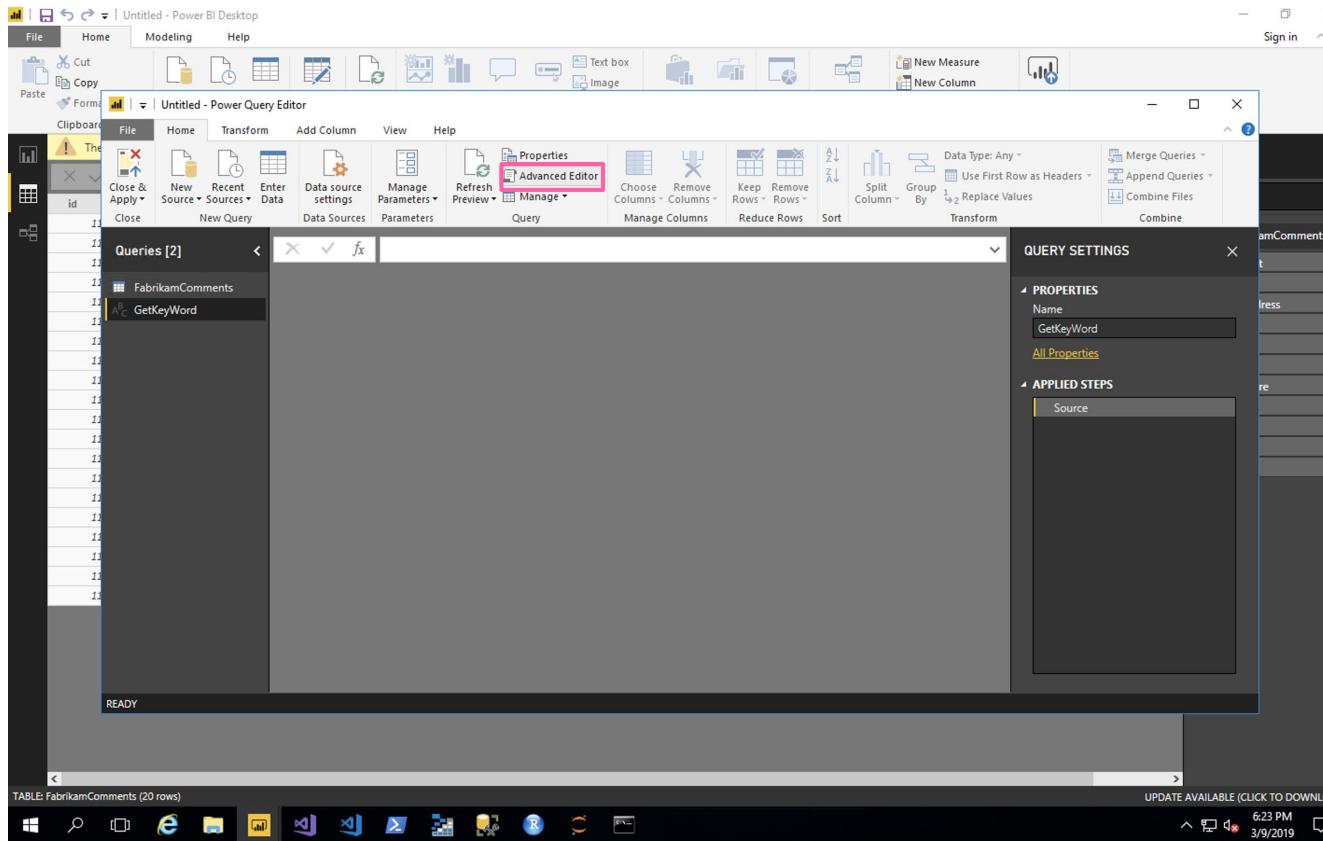
6:12 PM 3/9/2019

KristenChian 38

開啟 Power BI

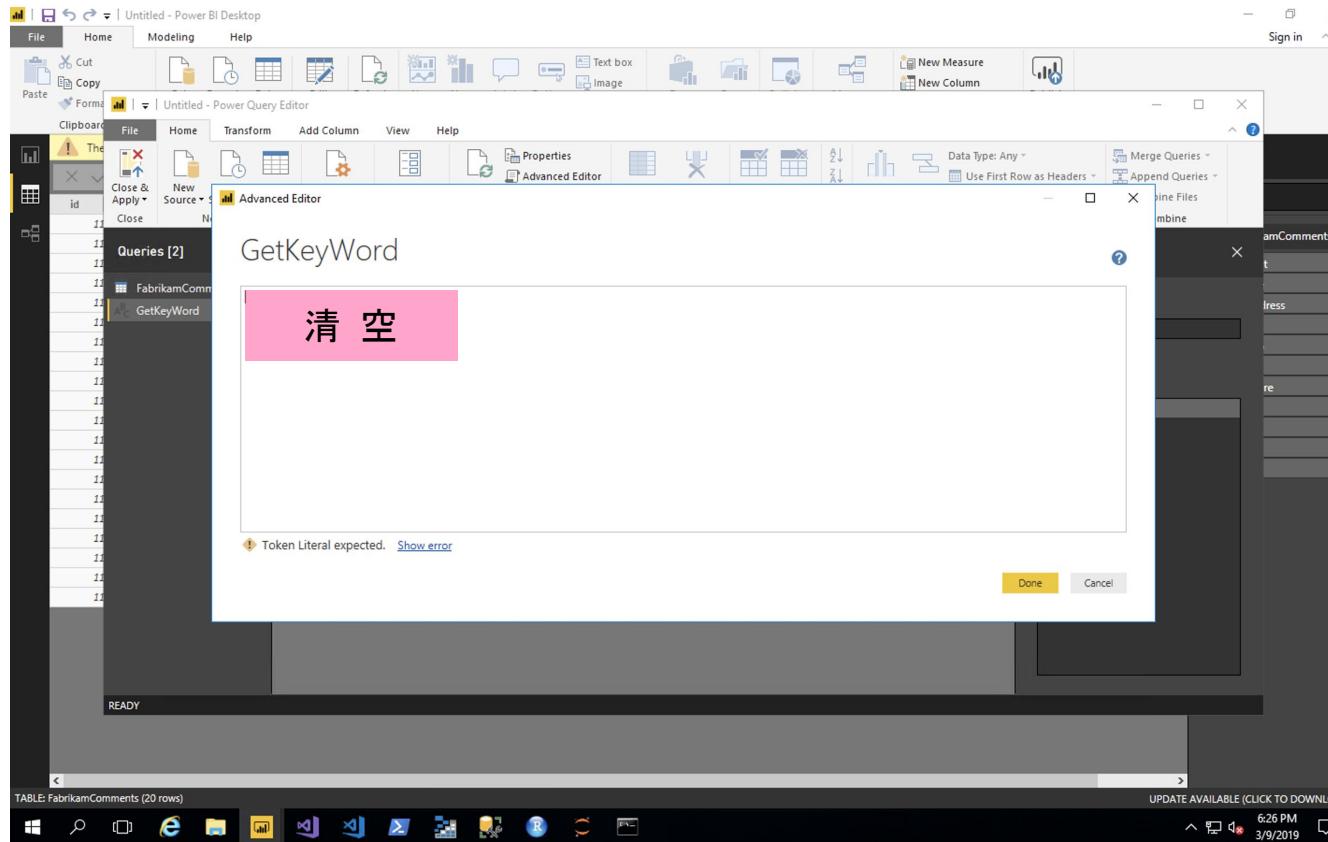


Power BI – 進階編輯器



KristenChian 40

Power BI – 編輯自訂函式



KristenChian 41

Power BI – 編輯自訂函式

Advanced Editor

GetKeyWord

```
| (text) => let
  apikey = "API Key", westus2
  endpoint = "https://westus2.api.cognitive.microsoft.com/text/analytics/v2.0/keyPhrases",
  jsontext = Text.FromBinary(Json.FromValue(Text.Start(Text.Trim(text), 5000))),
  jsonbody = "{ documents: [ { language: ""en"" , id: ""0"" , text: " & jsontext & " } ] }",
  bytesbody = Text.ToBinary(jsonbody),
  headers = [{"Ocp-Apim-Subscription-Key": apikey}],
  bytesresp = Web.Contents(endpoint, [Headers=headers, Content=bytesbody]),
  jsonresp = Json.Document(bytesresp),
  keyphrases = Text.Lower(Text.Combine(jsonresp[documents][0][keyPhrases], ", "))
in keyphrases
```

! Token Literal expected. [Show error](#)

Done Cancel

Power BI - 自訂函式

The screenshot shows the Power BI Desktop interface with the Power Query Editor open. The title bar says "Untitled - Power BI Desktop". The ribbon has tabs like File, Home, Modeling, and Help. The Home tab is selected. The main area shows a query named "GetKeyWord" under "Queries [2]". The formula bar contains the code: `= (text) => let`. Below it, there's a placeholder "Enter Parameter" with "text (optional)". The code pane shows the full function definition:

```
function (text as any) as any
```

The "QUERY SETTINGS" pane on the right shows the function's properties: Name is "GetKeyWord". The "APPLIED STEPS" pane shows the single step "GetKeyWord". A blue callout box with the text "Function 字樣表示你建立好一個 Function" is overlaid on the formula bar area.

KristenChian 43

Power BI – 選定資料並使用剛建立的 Function(GetKeyWord)

The screenshot shows the Power BI Desktop interface. The ribbon is open at the top, and the 'Transform' tab is selected, indicated by a red circle with the number 2. Below the ribbon, the 'Queries [2]' pane on the left shows a table named 'FabrikamComments'. A red circle with the number 1 highlights the table name. A red circle with the number 3 highlights the 'Invoke Custom Function' button in the ribbon's 'Transform' group. The main workspace displays the table data with 11 columns and 20 rows. To the right, the 'QUERY SETTINGS' pane is open, showing the 'Properties' section with the name 'FabrikamComments' and the 'Applied Steps' section which includes 'Promoted Headers' and 'Changed Type'. The status bar at the bottom indicates 'PREVIEW DOWNLOADED AT 5:47 PM'.

id	inreplyto	name	userid	emailaddress	datetime	topic
1102	0	Donald Erie	derie	don@example.com	9:04:00 AM	shipping
1103	0	Jake Bering	jakeb	jake.bering@example.com	9:37:00 AM	fulfillment
1104	0	Ann Huron	annh	ahuron@example.com	10:11:00 AM	praise
1105	1103	David Columbia	davidc	davidc78@example.com	10:15:00 AM	fulfillment
1106	0	Maria Michigan	mariam	maria@example.com	10:44:00 AM	other
1107	0	Juan Brazos	juann	juanl@example.com	11:01:00 AM	techsupport
1108	1105	Jake Bering	jakeb	jake.bering@example.com	12:23:00 PM	fulfillment
1109	0	Susan Colorado	susanc	suco1@example.com	1:15:00 PM	techsupport
1110	1108	Ron Puget	ronp	ronnyp@example.com	1:57:00 PM	fulfillment
1111	1106	Elena Pecos	elenab	pecos@example.com	2:14:00 PM	other
1112	1107	Darius Willamette	dariusw	go-dawgs@example.com	3:03:00 PM	techsupport
1113	1109	Fabrikam Support	fsupport	support@fabrikam.com	3:16:00 PM	techsupport
1114	1109	Roy Ontario	royo	roy_it@example.com	3:29:00 PM	techsupport
1115	1110	Jake Bering	jakeb	jake.bering@example.com	3:33:00 PM	fulfillment
1116	1114	Susan Colorado	susanc	suco1@example.com	3:57:00 PM	techsupport
1117	1103	Fabrikam Sales	fsales	sales@fabrikam.com	4:04:00 PM	fulfillment
1118	0	Wen Niagara	wen	wen@example.com	4:19:00 PM	productivity
1119	1109	Susan Colorado	susanc	suco1@example.com	4:47:00 PM	techsupport
1120	1117	Jake Bering	jakeb	jake.bering@example.com	5:12:00 PM	fulfillment
1121	0	Riya Champlain	riyac	riya@example.com	6:49:00 PM	suggestion

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Power BI – 選定資料並使用剛建立的 Function(GetKeyWord)

給定欄位名

選擇使用 Function(GetKeyWord) 要用的欄位

id	FirstName	LastName	Email	Comment	Created Date	Category
1116	Susan	Colorado	susanc	suecol@example.com	3:57:00 PM	techsupport
1117	Fabrikam	Sales	fsales	sales@fabrikam.com	4:04:00 PM	fulfillment
1118	O Wen	Niagara	wenn	wen@example.com	4:19:00 PM	productivity
1119	Susan	Colorado	susanc	suecol@example.com	4:47:00 PM	techsupport
1120	Jake	Bering	jakeb	jake.bering@example.com	5:12:00 PM	fulfillment
1121	O Riya	Champlain	riyac	riya@example.com	6:49:00 PM	suggestion

KristenChian 45

Power BI -- 完成編輯

The screenshot shows the Power BI Desktop interface with the Power Query Editor open. A context menu is displayed over a column named "KeyWord". The formula bar at the top shows the formula: `= Table.AddColumn(#"Changed Type", "KeyWord", each GetKeyWord([comment]))`. A pink circle labeled "1" highlights the "GetKeyWord" function. A pink circle labeled "2" highlights the close button in the top right corner of the editor window. A pink circle labeled "3" highlights the "Yes" button in a confirmation dialog box that appears in the foreground, asking "Do you want to apply your changes now?". The "QUERY SETTINGS" pane on the right shows the query name "FabrikamComments". The main preview area shows 20 rows of comments and their corresponding keyword counts.

1

2

3

Power Query Editor

Do you want to apply your changes now?

Yes Not now Cancel

PREVIEW DOWNLOADED AT 6:57 PM

12 COLUMNS, 20 ROWS

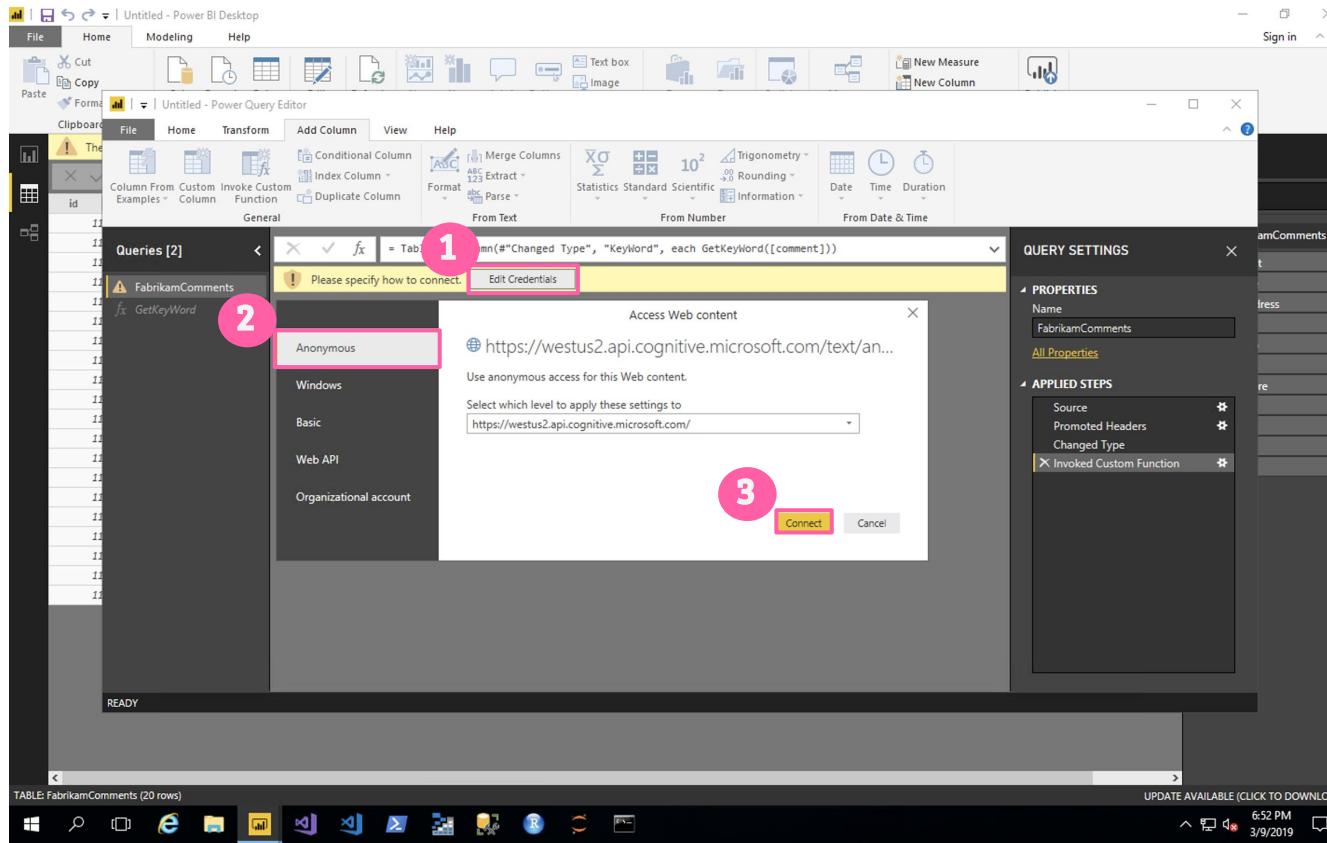
TABLE: FabrikamComments (20 rows)

UPDATE AVAILABLE (CLICK TO DOWNLOAD)

7:41 PM 3/9/2019

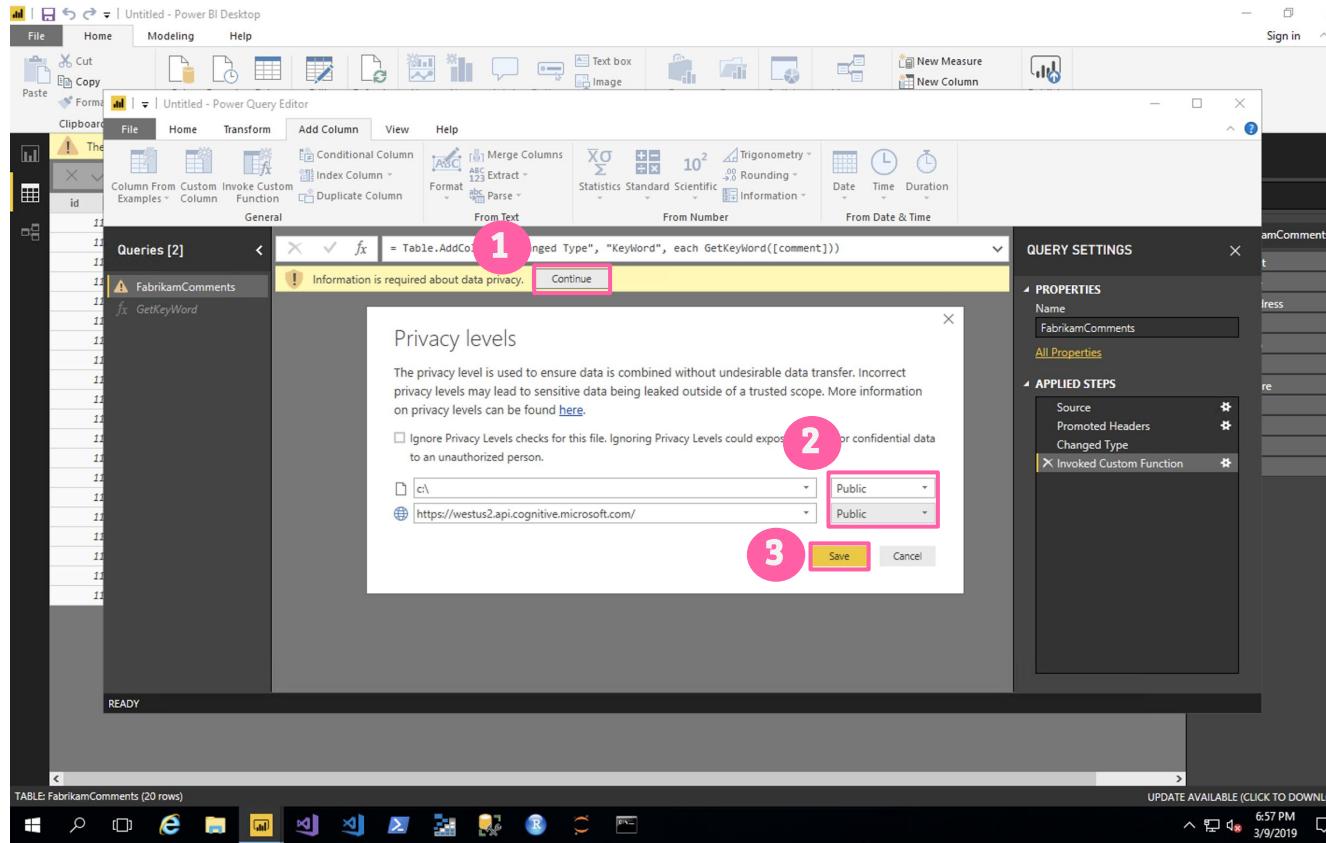
KristenChian 46

Power BI -- 編輯認證



KristenChian 47

Power BI -- 編輯認證



KristenChian 48

Power BI - 產生有含關鍵字的欄位

The screenshot shows the Power BI Desktop interface with the Power Query Editor open. The main area displays a table with 20 rows and 12 columns. The first column is labeled 'comment' and contains various customer reviews. The 'QUERY SETTINGS' pane on the right shows the query name 'FabrikamComments' and the applied step 'Changed Type'. A green box highlights the 'comment' column in the table.

comment	spamscore	votes	KeyWord
I ordered three widgets last week and just received them. I am VERY di...	10	9	widgets, service, packing peanuts, th...
n't believe you fools shipped me the wrong items AGAIN. If you wer...	5	10	extra inventory, wrong items, order...
ow! I had NO IDEA that reciprocating garombles of such high quality ...	15	2	garombles, plus, overnight shipping,
e, I've had similar problems tracking down another source of thinga...	5	0	source of thingamabobs, similar prol...
at hand model needs a manicure, stat!	30	2	hand model, manicure, stat
At my wedding ring in a Bag of Holding I purchased from you guys (f...	12	8	work, wedding ring, bag, guys, safek...
7 vid, sorry, it's whatchamacallits I'm looking for. I should have been ...	30	2	david, whatchamacallits, doits, fabri...
8 folks. According to your encabulator brochure, the hydrooptic mar...	19	2	fumbling, retro-encabulator, encabu...
9 e, it's probably none of my business, but you will probably get a bet...	11	2	people, better response, help, jake, i...
10 ria, I'm pretty sure the folks at Fabrikam use photos of actual custo...	19	12	hands, folks, fabrikam use photos of
11 in, are you sure it's not a Bag of Transmuting? They look very simila...	12	12	bag of transmuting, gold, lead, juan
12 san, the hydrooptic marzelvanes MUST be fitted properly to the a...	2	7	fumbling issues, page, hydrooptic n
13 ve you tried turning it off and back on again? The encabulator runs ...	31	9	self-calibration, encabulator, power,
14 n, you're quite right: it is none of your business! The terms I used ar...	49	12	terms, frustration, months, names, a...
15 y, thanks for the suggestion. It did help a little, but did not entirely e...	31	15	roy, thanks, suggestion, issue
16 e, I'm very sorry that you've had this problem for so long. Our syste...	27	4	recent order, additional review, free
17 m in need of some doohickeys in the near future. If I remember corr...	20	2	doohickeys, near future, product, ne...
18 anks. One of the marzelvanes was installed backward, so it's my faul...	9	0	suggestion, thanks, marzelvanes, fa...
19 t's all well and good for ME, and I do appreciate it, but what about ...	14	3	problems, systems, computers
20 have you ever considered making gizmos in colors other than chart...	35	19	gizmos, sedate design, colors, intric...

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6:59 PM 3/9/2019

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Power BI - 產生有含關鍵字的欄位

The screenshot shows the Power BI Desktop interface with the Power Query Editor open. A modal dialog box titled "Power Query Editor" is displayed in the center, asking "Do you want to apply your changes now?" with three buttons: "Yes", "Not now", and "Cancel".

The main area of the Power Query Editor shows a table with four columns:

comment	spamscore	votes	KeyWord
1 I ordered three widgets last week and just received them. I am VERY disappointed.	10	3	widgets, service, packing peanuts, shipping
2 You believe you fools shipped me the wrong items AGAIN. If you wer...	5	10	extra inventory, wrong items, ordering
3 wtf! I had NO IDEA that reciprocating...			reciprocating, overnight shipping
4 e, I've had similar problems tracking...			amabobs, similar products
5 my hand model needs a manicure, stat...			manicure, stat
6 It's my wedding ring in a Bag of Holding...			wedding ring, bag, guys, safekeeping
7 vid, sorry, it's whatchamacallit's I'm...			macallit's, dotts, fabrikator
8 folks. According to your encabulator...			encabulator, encabulator
9 e, it's probably none of my business...			response, help, jake, l
10 ria, I'm pretty sure the folks at Fabri...			prikam use photos of
11 n, are you sure it's not a Bag of Transmuting? They look very simila...	12	11	bag of transmuting, gold, lead, juan
12 ian, the hydrooptic marzilvanes MUST be fitted properly to the a...	2	7	fumbling issues, page, hydrooptic m
13 ve you tried turning it off and back on again? That the encabulator runs ...	31	5	self-calibration, encabulator, power,
14 n, you're quite right: it is none of your business! The terms I used ar...	49	12	terms, frustration, months, names, a
15 y, thanks for the suggestion. It did help a little, but did not entirely e...	31	15	roy, thanks, suggestion, issue
16 e, I'm very sorry that you've had this problem for so long. Our syste...	27	4	recent order, additional review, free
17 n in need of some doohickeys in the near future. If I remember corr...	20	2	doohickeys, near future, product, ne
18 nks. One of the marzilvanes was installed backward, so it's my fault...	9	0	suggestion, thanks, marzilvanes, fa
19 it's all well and good for ME, and I do appreciate it, but what about ...	14	3	problems, systems, computers
20 have you ever considered making gizmos in colors other than chart...	35	19	gizmos, sedate design, colors, intric

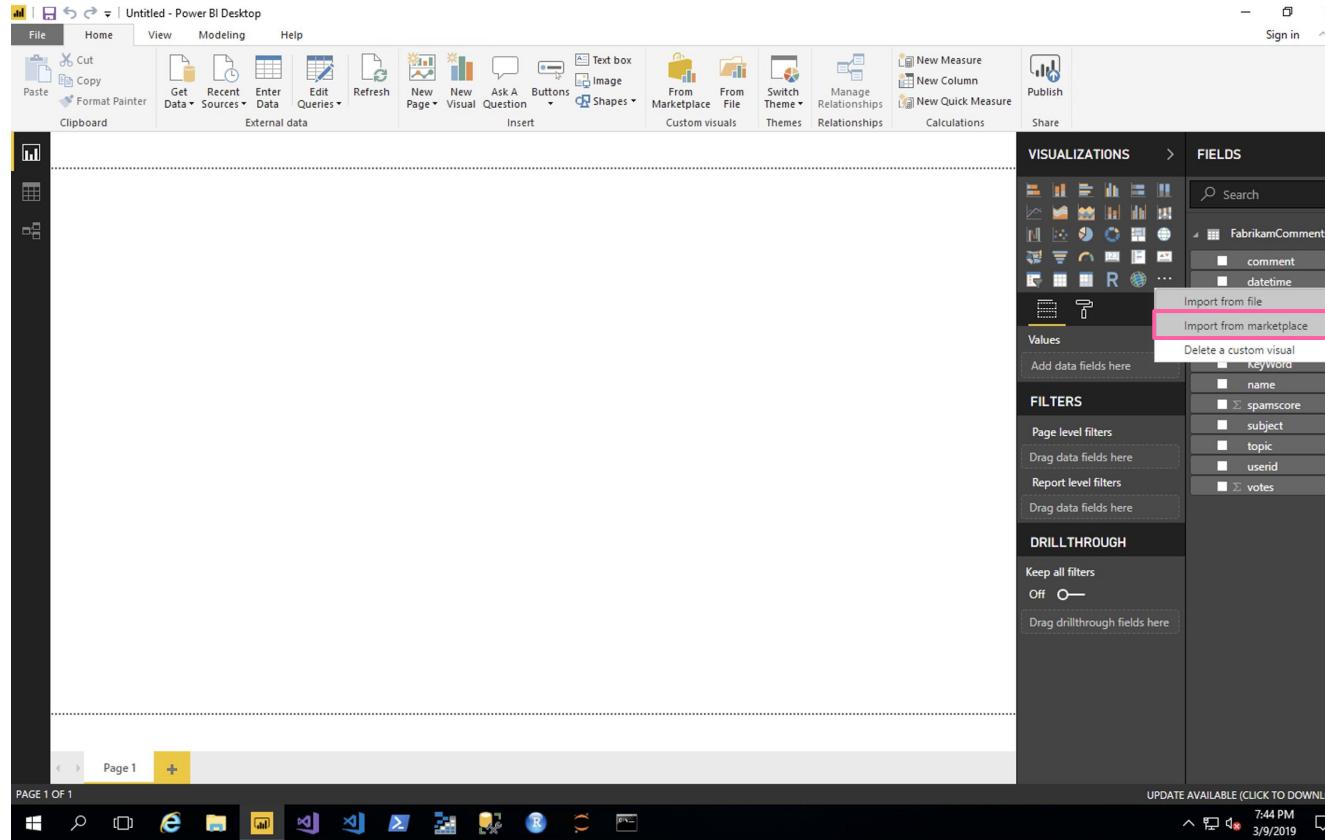
The bottom status bar indicates "PREVIEW DOWNLOADED AT 6:57 PM".

The "APPLIED STEPS" pane on the right shows the following steps:

- Source
- Promoted Headers
- Changed Type
- Invoked Custom Function

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Power BI - 新增文字雲視覺化



KristenChian 51

Power BI - 新增文字雲視覺化

The screenshot shows the Power BI Desktop interface. The ribbon at the top includes File, Home, View, Modeling, and Help. The Home tab is selected, displaying various icons for data management and visualization creation. On the left, a sidebar lists categories like All, Advanced Analytics, Data Visualizations, and Editor's Picks. In the center, a search bar is followed by a 'Suggested for you' section featuring a 'Word Cloud' visual from 'Acterys'. This visual is described as creating a fun visual from frequent text in data. Below it is another suggestion for 'Acterys Comments'. On the right, the Fields pane is open, showing a list of fields from a dataset named 'FabrikamComments', including comment, datetime, emailaddress, id, inreplyto, KeyWord, name, spamscore, subject, topic, userid, and votes. The bottom of the screen shows the Windows taskbar with various pinned icons.

Kristen Chan 52

Power BI - 建立文字雲

The screenshot shows the Power BI Desktop interface with the following details:

- Top Navigation Bar:** File, Home, View, Modeling, Help, Format, Data / Drill, Visual tools, Untitled - Power BI Desktop.
- Clipboard:** Cut, Copy, Paste, Format Painter.
- External data:** Get Data, Recent Sources, Enter Data, Edit Queries, Refresh.
- Insert:** New Page, New Visual, Ask A Question, Buttons, Text box, Shapes, From Marketplace, From File, Switch Themes, Manage Relationships, New Measure, New Column, New Quick Measure, Publish, Share.
- VISUALIZATIONS:** A list of visualization icons including a pie chart, bar charts, and a text cloud icon (highlighted with a red box).
- FIELDS:** A list of fields from the "FabrikamComments" table:
 - comment
 - datetime
 - emailaddress
 - id
 - inreplyto
 - KeyWord
 - name
 - spamscore
 - subject
 - topic
 - userid
 - votes
- Category:** Add data fields here.
- Values:** Add data fields here.
- Excludes:** Add data fields here.
- FILTERS:** Visual level filters, Page level filters, Report level filters.
- DRILLTHROUGH:** Keep all filters, Off.
- Page Footer:** PAGE 1, +, UPDATE AVAILABLE (CLICK TO DOWNLOAD), 7:53 PM, 3/9/2019.

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Power BI - 建立文字雲

The screenshot shows the Power BI Desktop interface with the following details:

- File**, **Home**, **View**, **Modeling**, **Help** menu items.
- Format** and **Data / Drill** buttons under the ribbon.
- Clipboard** tools: Paste, Cut, Copy, Format Painter.
- External data**: Get Data, Recent Sources, Enter Data, Refresh, New Page, New Visual, Ask A Question, Buttons, Text box, Image, Shapes, From Marketplace, From File, Switch Theme, Manage Relationships, New Measure, New Column, New Quick Measure, Publish, Share.
- Insert**: New Page, New Visual, Ask A Question, Buttons, Text box, Image, Shapes, From Marketplace, From File, Switch Theme, Themes, Manage Relationships, New Measure, New Column, New Quick Measure, Calculations.
- VISUALIZATIONS** pane: Shows various visualization icons.
- FIELDS** pane:
 - Search bar.
 - Category: KeyWord.
 - Values:
 - comment
 - datetime
 - emailaddress
 - id
 - inreplyto
 - KeyWord** (selected, highlighted with a yellow border)
 - name
 - spamscore
 - subject
 - topic
 - userid
 - votes
 - Add data fields here.
 - Excludes.
 - Add data fields here.
- FILTERS**:
 - Visual level filters: KeyWord is (All).
 - Page level filters: Drag data fields here.
 - Report level filters: Drag data fields here.
- DRILLTHROUGH**.
- Page navigation**: Page 1, +.
- System status**: UPDATE AVAILABLE (CLICK TO DOWNLOAD), 7:55 PM, 3/9/2019.

A pink arrow points from the "KeyWord" field in the Fields pane to the word cloud visualization on the canvas.

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Power BI - 建立文字雲

KrisenCheck 55

Power BI - 建立文字雲

The screenshot shows the Power BI Desktop interface with a word cloud visualization on the left and the Visualizations pane on the right.

Visualizations pane:

- Search bar: Search
- FabrikamComments folder:
 - comment
 - datetime
 - emailaddress
 - id
 - inreplyto
 - KeyWord** (selected)
 - name
 - spamscore
 - subject
 - topic
 - userid
 - votes
- General
- Data colors
- Stop Words: On
- Rotate Text: Off (highlighted with a pink box)
- Title: Off (highlighted with a pink box)
- Background: Off
- Lock aspect: Off
- Border: Off
- Visual he...: On

Bottom status bar:

- Page 1
- UPDATE AVAILABLE (CLICK TO DOWNLOAD)
- 8:00 PM 3/9/2019

Note

Reference

- 如何使用文字分析來擷取關鍵片語
 - <https://docs.microsoft.com/zh-tw/azure/cognitive-services/text-analytics/how-tos/text-analytics-how-to-keyword-extraction>
- 將 Power BI 與文字分析認知服務整合
 - <https://docs.microsoft.com/zh-tw/azure/cognitive-services/text-analytics/tutorials/tutorial-power-bi-key-phrases>