

teacher@ggm.tw

郭冠宏(GGM) @ 資訊系統訓練班 2017

智慧聊天機器人 基礎概念與實作



郭冠宏(GGM)

- ▶ 台大資訊系畢
- ▶ Google 實習軟體工程師
- ▶ Qualcomm 實習工程師
- ▶ Apple WWDC 獎學金
- ▶ ACM ICPC 亞洲區高雄站冠軍
- ▶ 高等計算機程式設計課助教
- ▶ 計算機程式設計課助教
- ▶ 網路與平台服務程式設計助教



郭冠宏(GGM)

- ▶ 2017 - Botimize 共同創辦人
- ▶ 2017 g0v 公民科技獎助金獲獎
提案「真的假的 LINE Bot」
- ▶ 2014 - 2017 Skymizer 共同創辦
人兼共同執行長

課程目標

- ▶ 讓學員們能夠初步了解 chatbot
- ▶ 能透過工具或寫程式建立一支簡單的 chatbot
- ▶ 有三個作業，分別在三個平台上建立簡單的 chatbot

授課對象

- ▶ 任何對 chatbot 有興趣的人
- ▶ 需要一點程式基礎，最好是有 Javascript (node.js) 經驗
- ▶ 本課程有大量的動手實作時間，強烈建議攜帶筆電

課程規劃 (5堂課10小時)

- ▶ 第一堂課
 - ▶ Chatbot 的發展趨勢與簡介
 - ▶ 使用 chatfuel 無痛打造 Chatbot
- ▶ 第二堂課
 - ▶ Node.js 的簡介與環境設置
 - ▶ Node.js 的套件管理與語法介紹

課程規劃（5堂課10小時）

- ▶ 第三堂課
 - ▶ 使用 Node.js 的 Express 套件建置簡易網頁服務
 - ▶ 使用 Node.js 的 Request 套件發送 HTTP 需求
- ▶ 第四堂課
 - ▶ 使用 Node.js 實作 Facebook 的聊天機器人
 - ▶ 使用 Node.js 實作 LINE 的聊天機器人

課程規劃（5堂課10小時）

- ▶ 第五堂課
 - ▶ 使用 Node.js 實作 Telegram 的聊天機器人
 - ▶ 使用 Chatbot 的分析服務與其他第三方 API

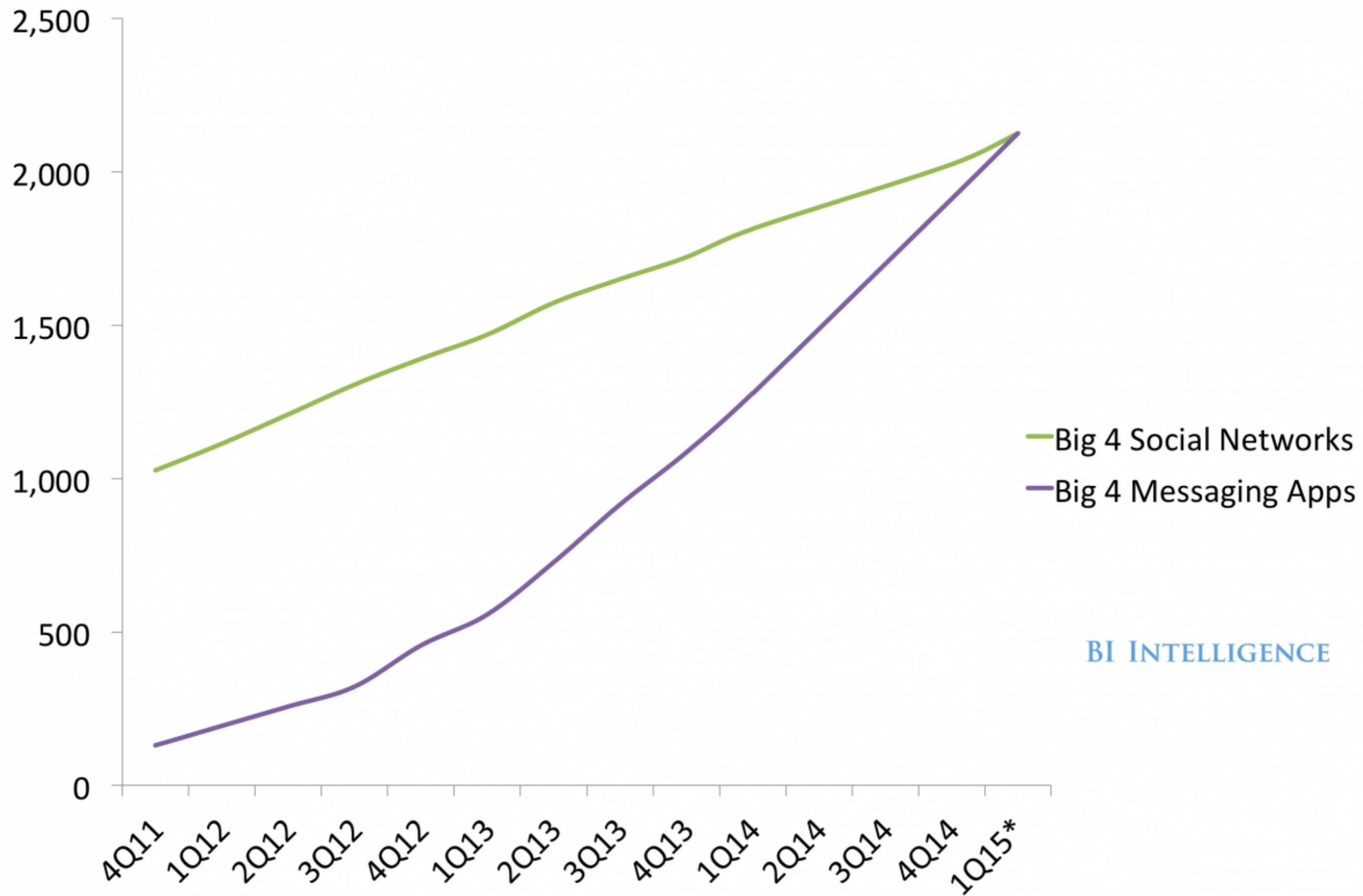


CHATBOT 的發展趨勢

數據

Messaging Apps Have Caught Up To Social Networks

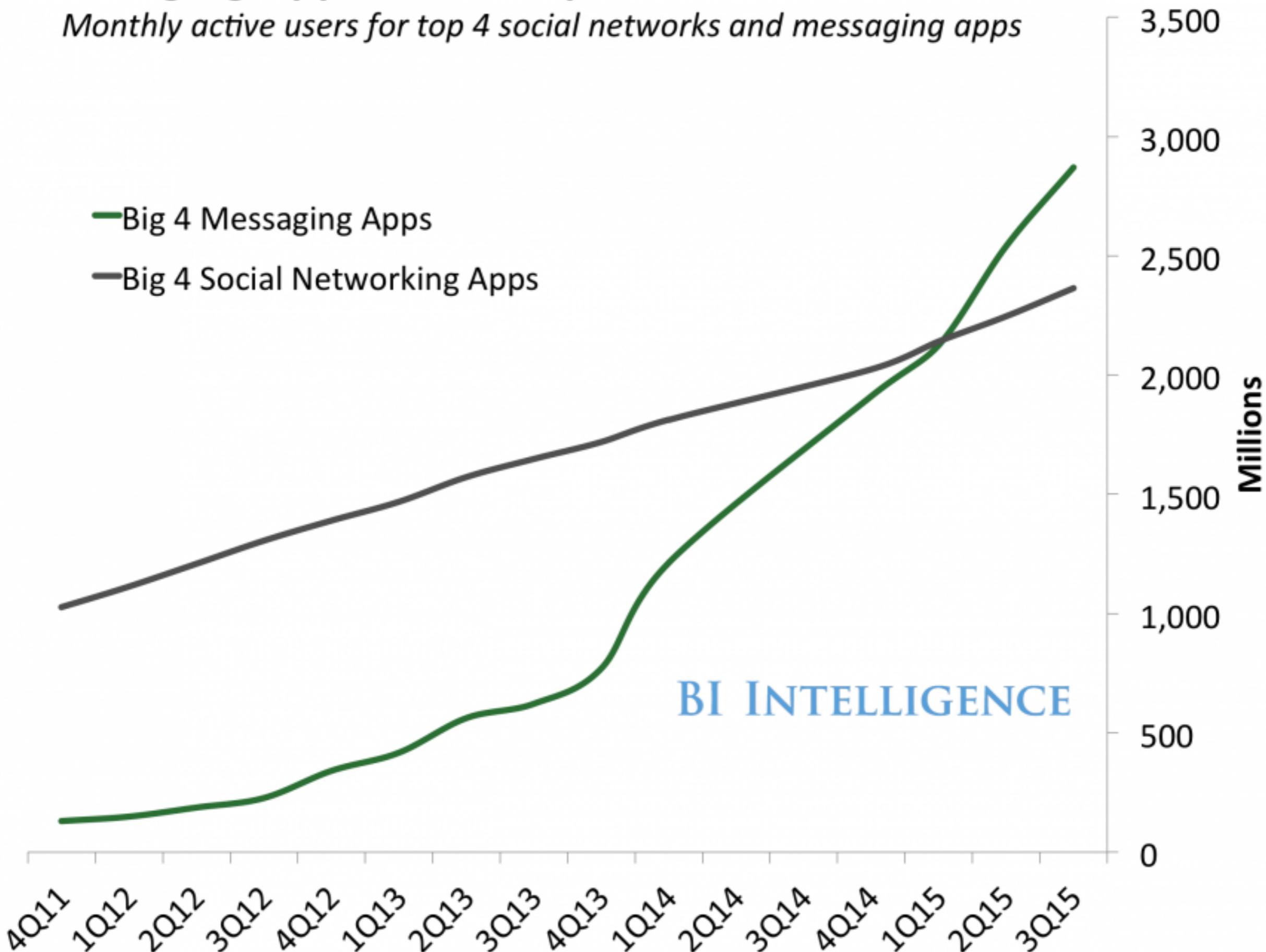
Monthly Active Users For Selected Top 4 Social Networks* And Mesagging Apps**



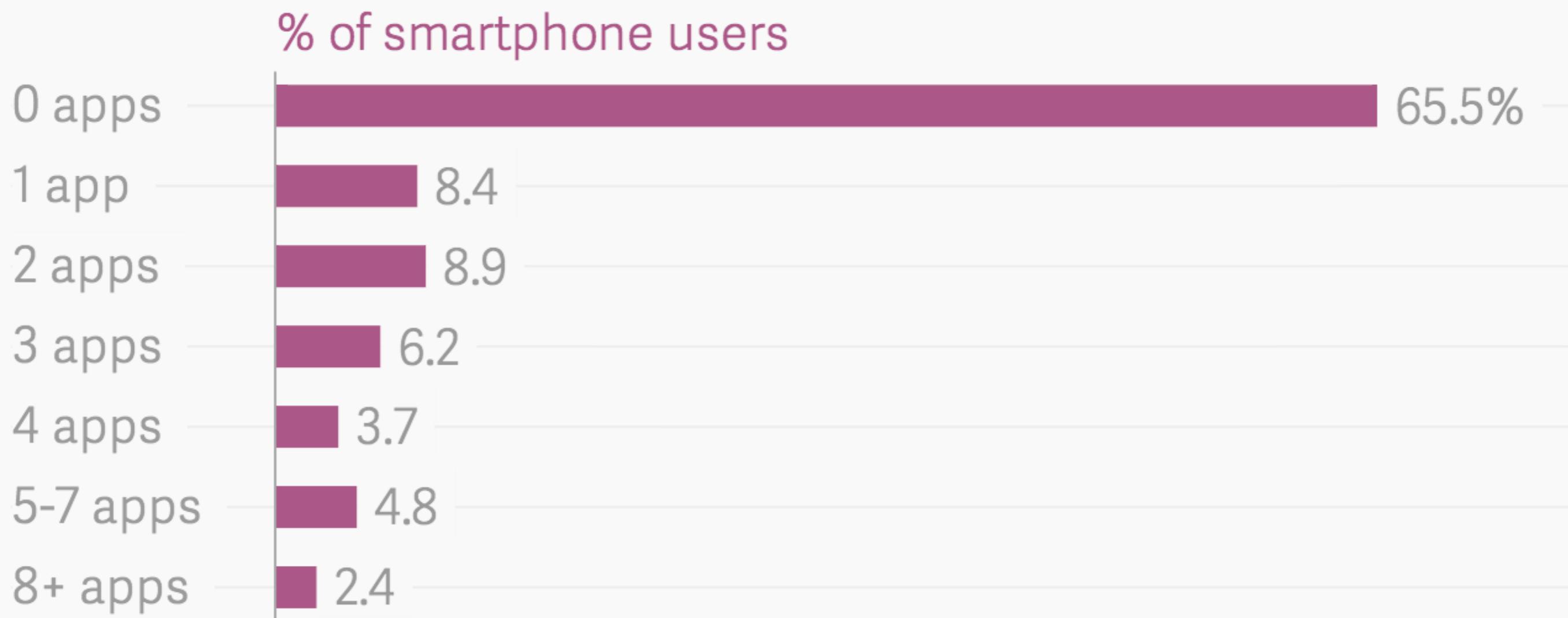
BI INTELLIGENCE

Messaging Apps Have Surpassed Social Networks

Monthly active users for top 4 social networks and messaging apps



US smartphone users' number of app downloads per month



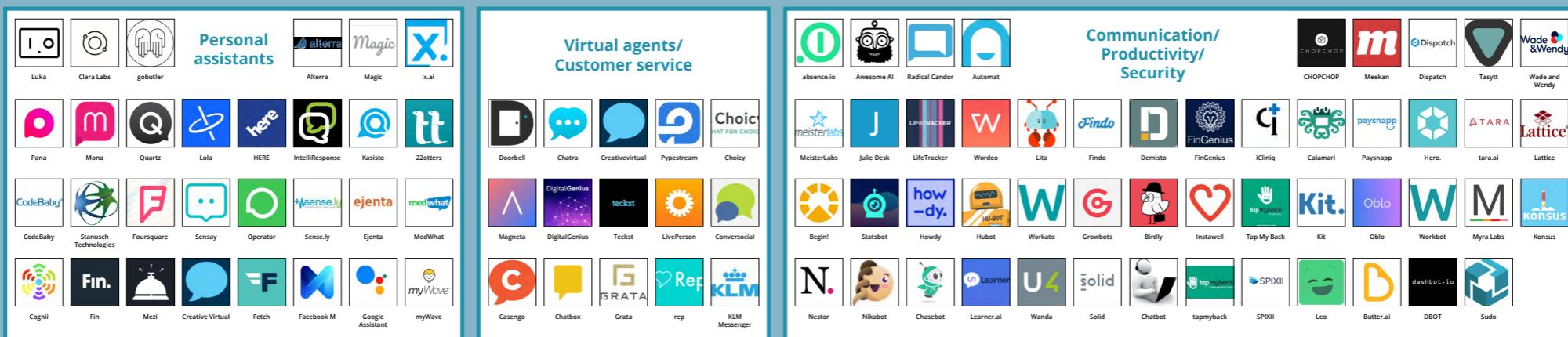
Quartz | qz.com

Data: comScore (3-month avg. ending Jun. 2014, 18+ only)

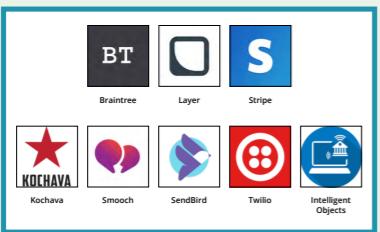
生態系

Bots Landscape

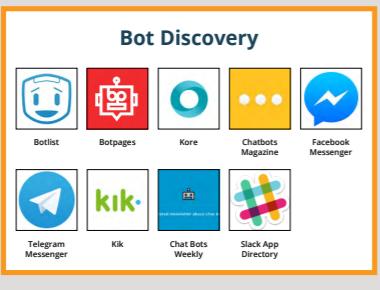
Bots with traction



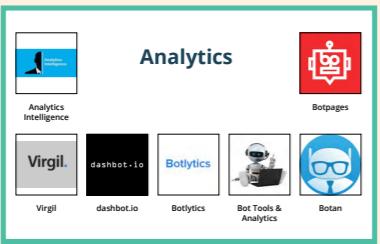
Connectors/ Shared Services



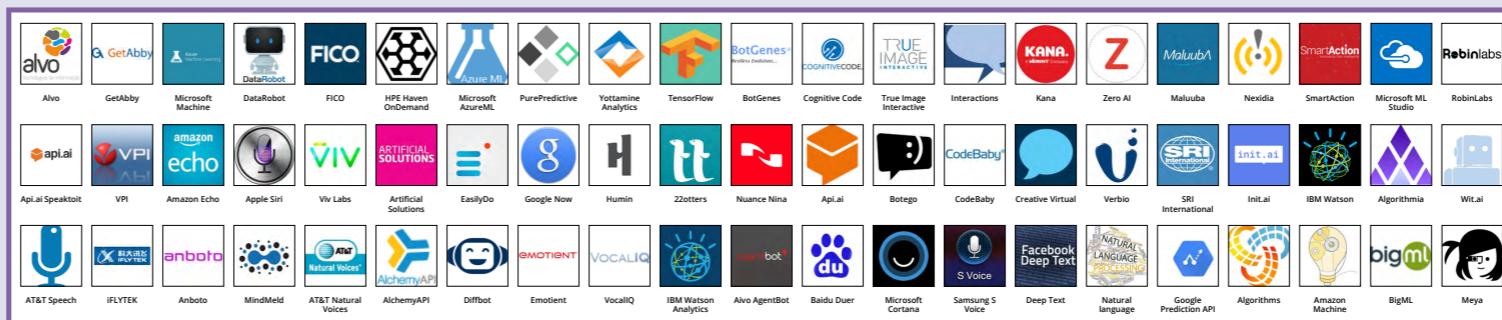
Bot Discovery



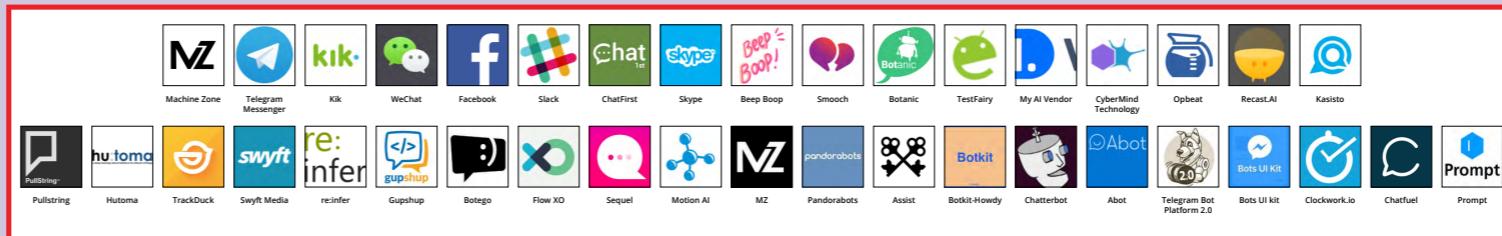
Analytics



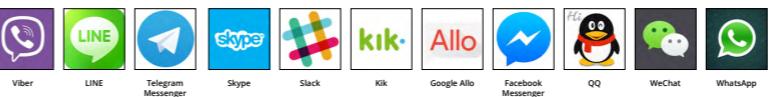
AI Tools: Natural Language Processing, Machine Learning, Speech & Voice Recognition



Bot developer frameworks and tools



Messaging



Marketing

Support

Managed

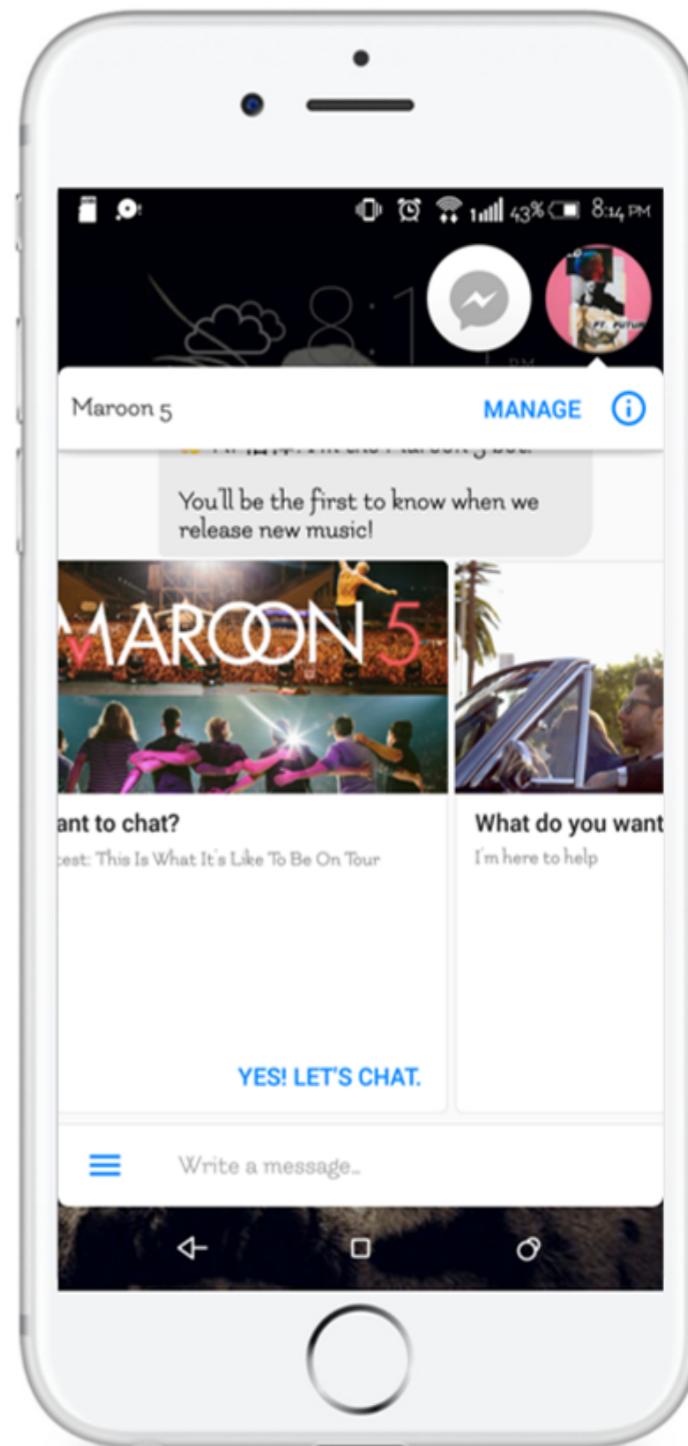
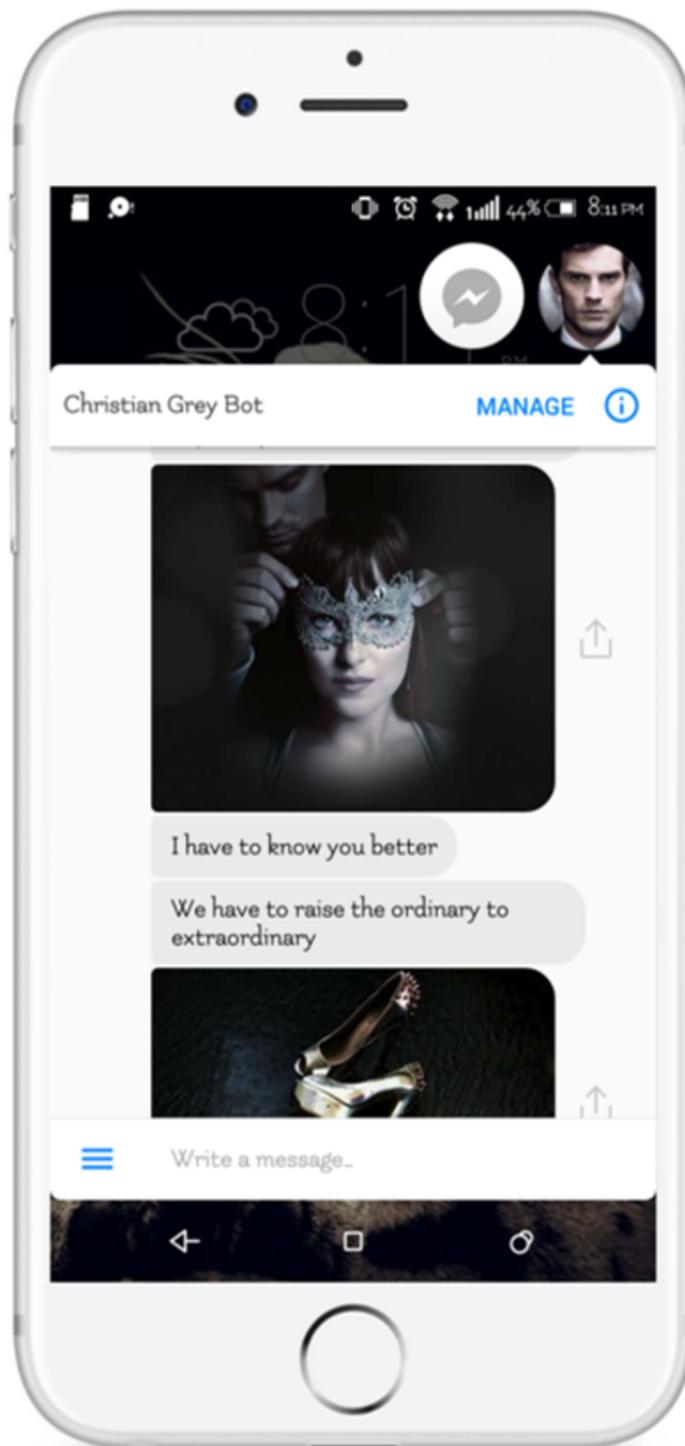
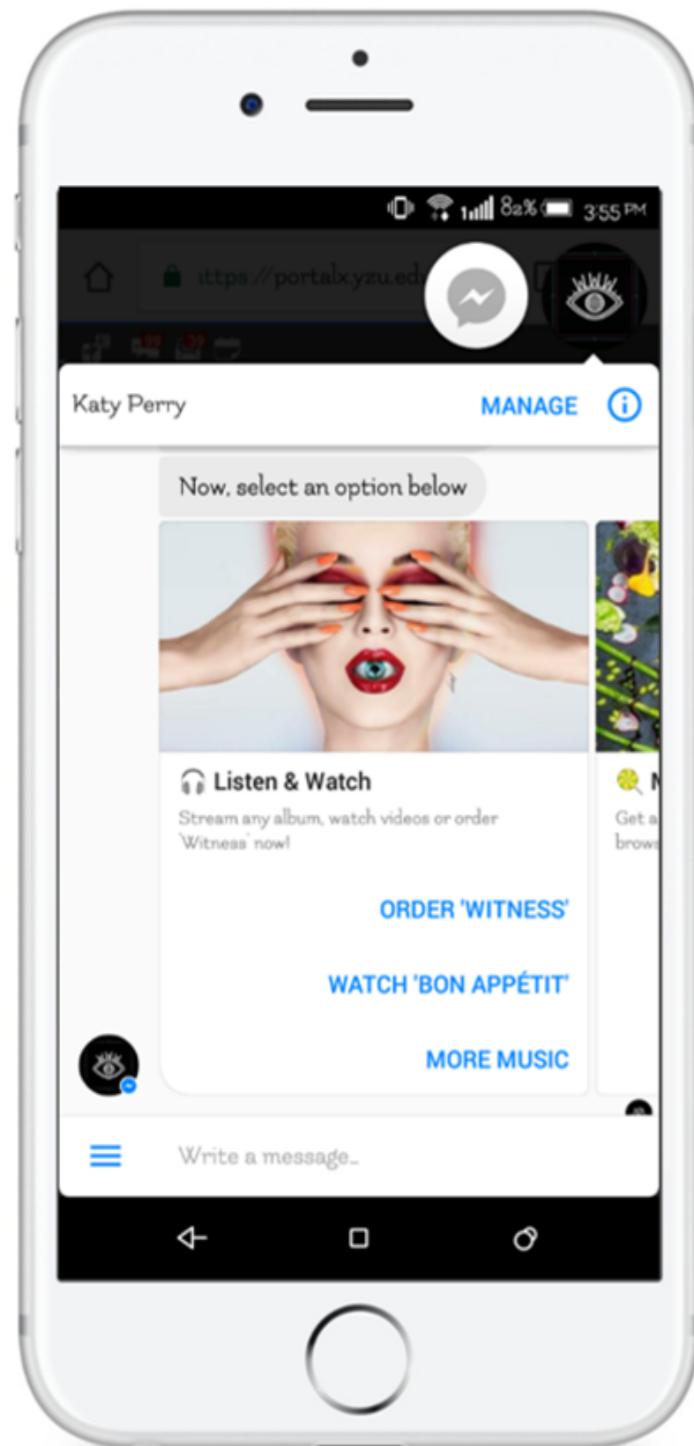


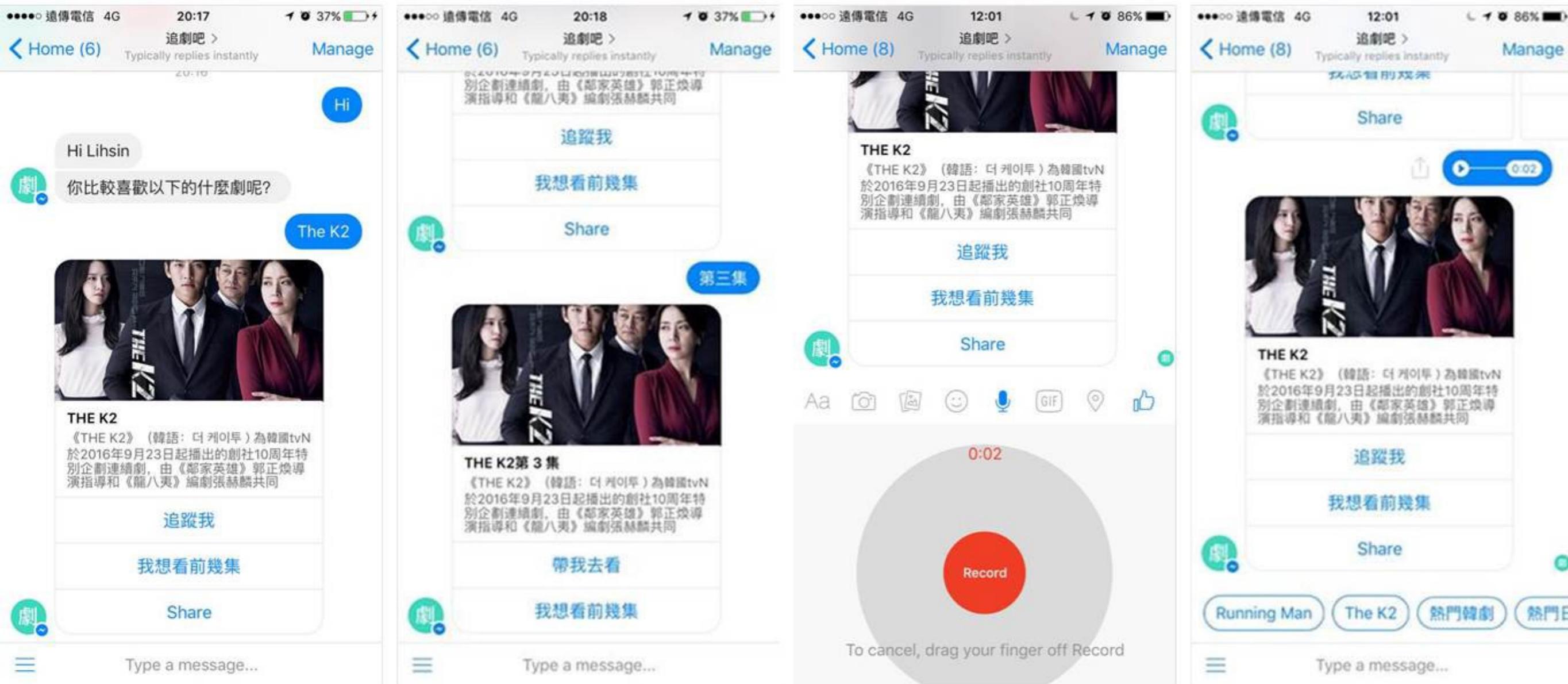
網路上所扮演的角色

- ▶ Facebook
 - ▶ Facebook Messenger
 - ▶ wit.ai
- ▶ Google
 - ▶ Allo
 - ▶ api.ai
 - ▶ chatbase

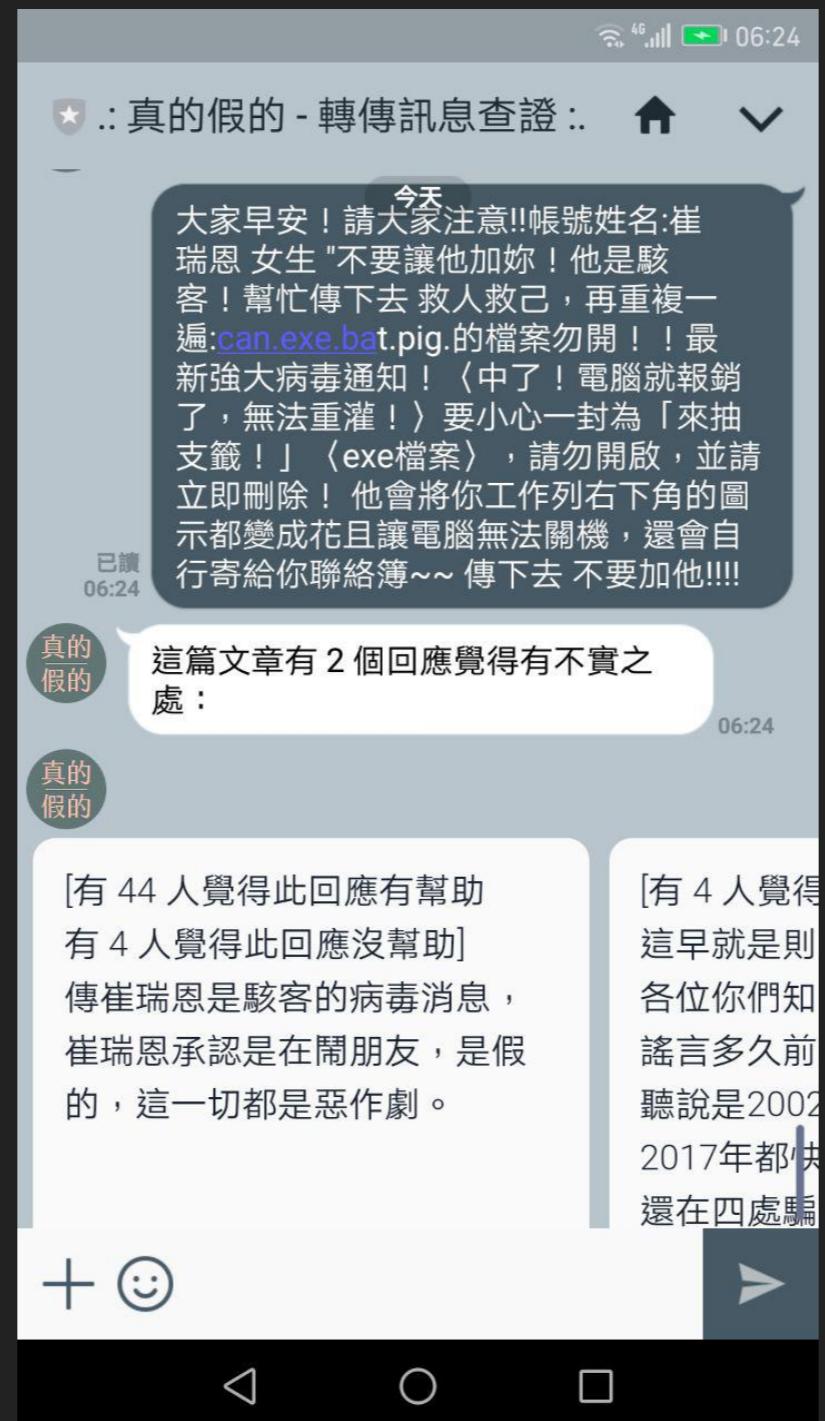
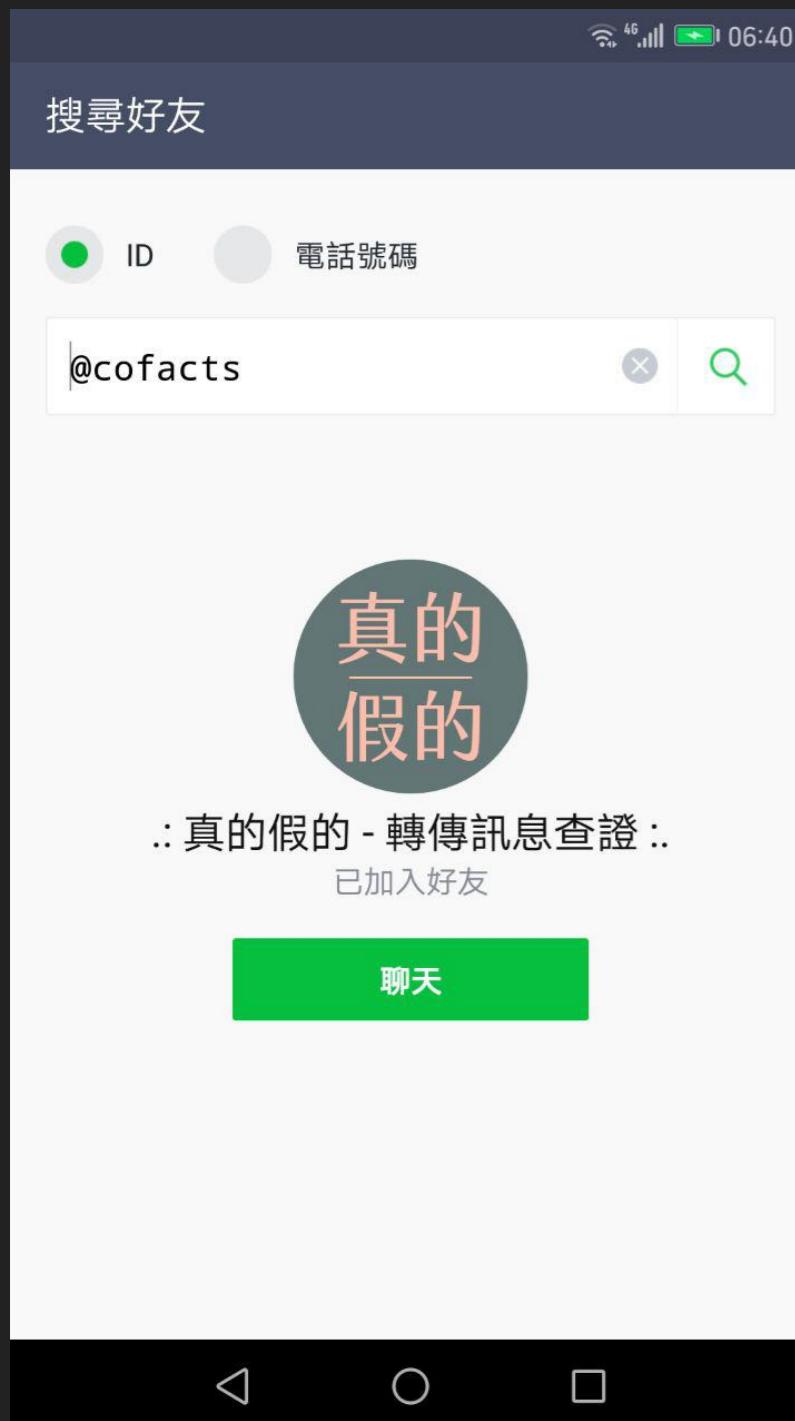
- ▶ Microsoft
 - ▶ Skype
 - ▶ Botframework
 - ▶ LUIS.ai
- ▶ IBM
 - ▶ Watson

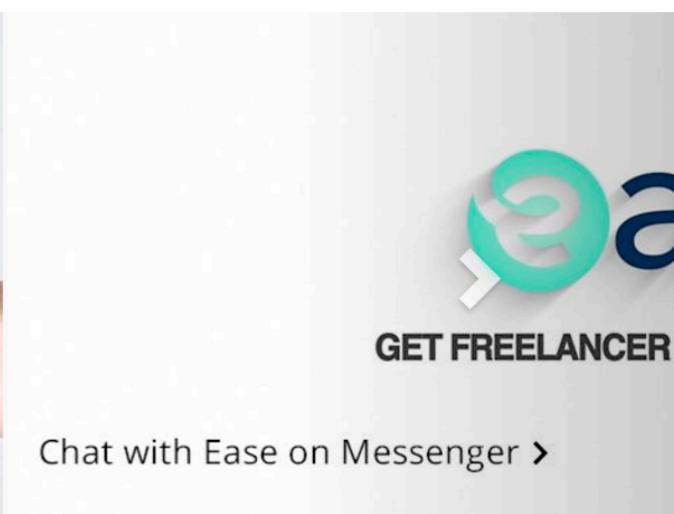
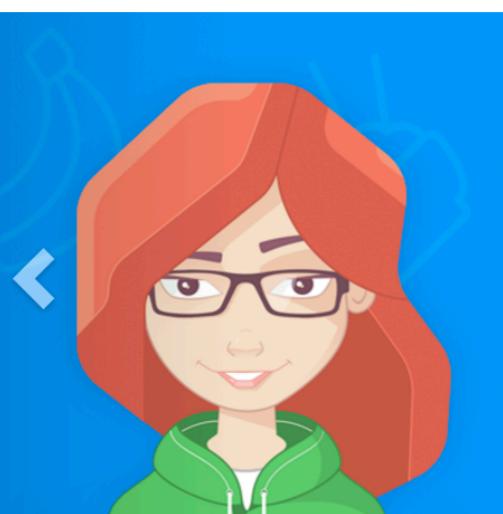
應用











ted >

New Bots

Updated Bots

Verified Bots

All Bots

CATEGORIES

- Build A Bot
- Analytics
- Communication
- Customer Support
- Design
- Developer Tools
- Education
- Entertainment
- File Management
- Finance
- Food & Drink
- Games
- Health & Fitness

**Katy Perry** 

Official bot of Katy Perry



Entertainment +1

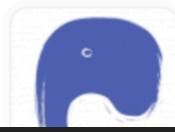
Sponsored

 5.3K  1  5**Tera - Ekcetera Bot**

Learn all about using FB Messenger Bots for marketing



Education +1

 8  0  0**Maya**

Plan a tour in 5 minutes with Maya

VentureBeat

Media Partner

ARTICLES

view more

HOW TO USE CHATBOTS IN CONTENT MARKETING

打造第一個

CHATBOT

申請 FACEBOOK PAGE

Screenshot of the Facebook 'Create a Page' interface:

Create a Page

Give your brand, business or cause a voice on Facebook and connect with the people who matter to you.

It's free to set up. Just choose a Page type to get started.

- Local Business or Place** (Icon: storefront)
- Company, Organization or Institution** (Icon: buildings)
- Brand or Product** (Icon: bottle, phone)
- Personality** (Icon: profile with sparkles)
- Entertainment** (Icon: monitor, CD)
- Nonprofit** (Icon: heart)

<https://chatfuel.com/>

Chatfuel bot m.me/17302...

TEST THIS CHATBOT

Build

Set Up AI

Broadcast

Configure

Grow

Analyze

Updates

Community

Help

KH

Go to Dashboard

Bot Structure

BUILD-IN BLOCKS

Welcome message Default answer

ADD BLOCKS HERE

current class http://train.csie.ntu.... location

contact +

+ ADD A GROUP

current class

LINK

嗨，你是要查詢現在進行中的課程嗎？現在進行中的課程有 ...

+ ADD BUTTON

Upload Image

Upload Image

Python程式設計【283期】

C/C++基礎程式設計班

Subtitle or description

Subtitle or description

URL

URL

詳情

Step 1. Obtain broadcasting permissions

+

?