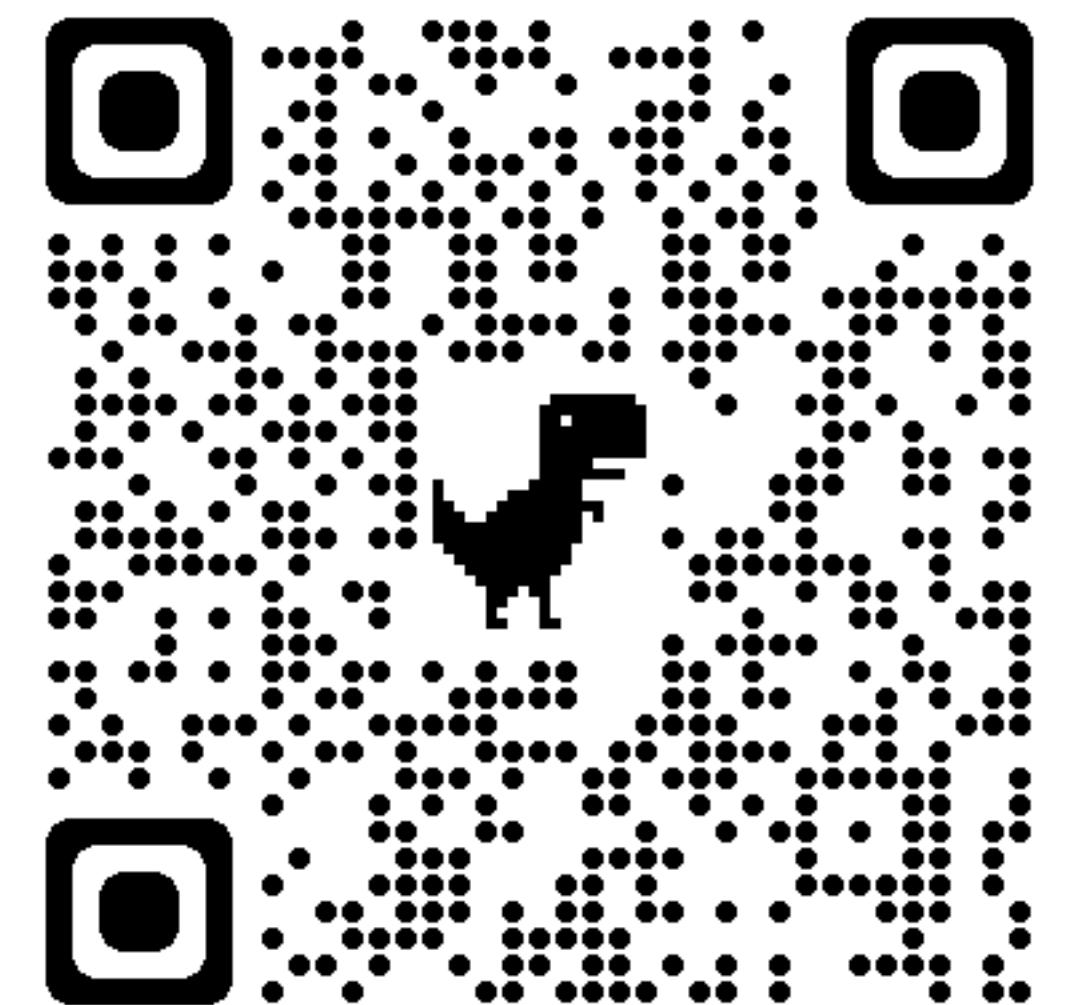


Flex 開發人員工具

輔助開發 LINE chatbot 的開源工具

戴均民 - LINE API Expert - 2023/02/17

簡報下載



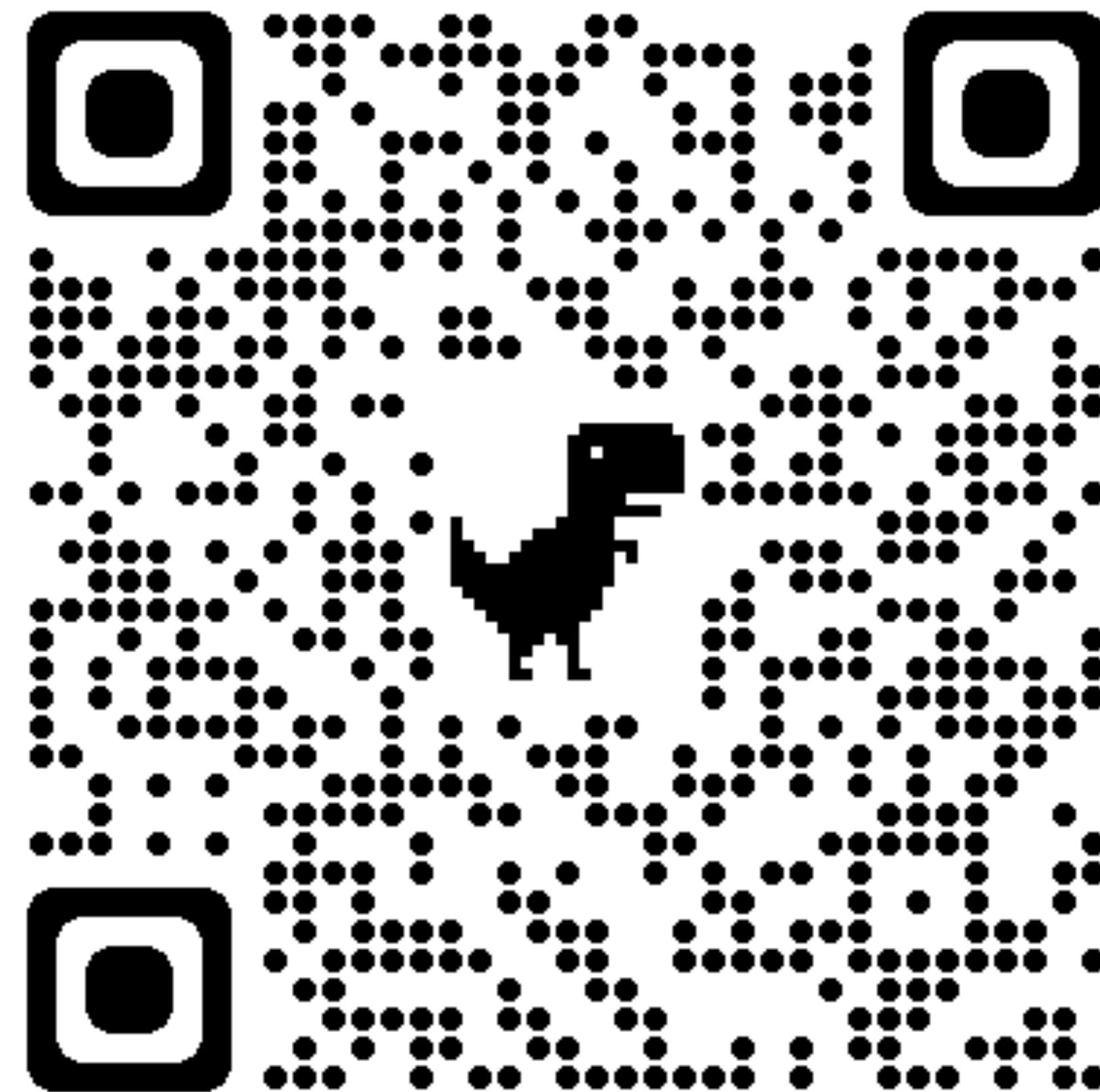
I am 戴均民

- 任職於 Ionex Energy Co., Ltd.
- LINE API Expert
- [LINE 數位版名片 開發者](#)
-  [筆記國度 \(部落格\)](#)
-  [taichunmin](#)



Flex 開發人員工具

歡迎掃碼加入官方帳號 等等會用這個做示範



這是受卡米哥的帝霸狗啟發而寫出來的工具



帝霸狗

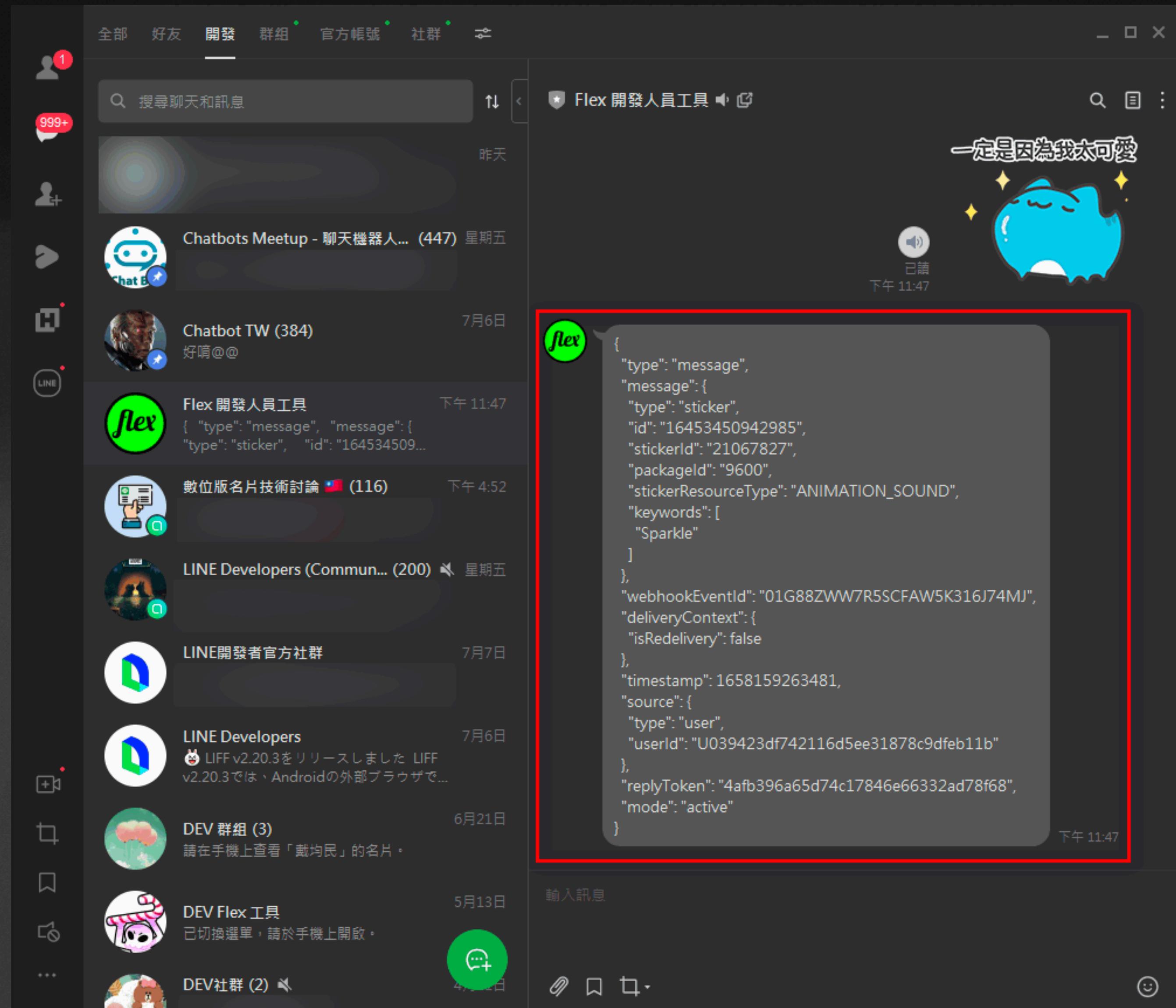
在 LINE 上提供開發人員除錯時所需各式資訊的機器人

進入

LINE Bot

功能介紹

#1 直接把收到的 Event 以 JSON 回傳

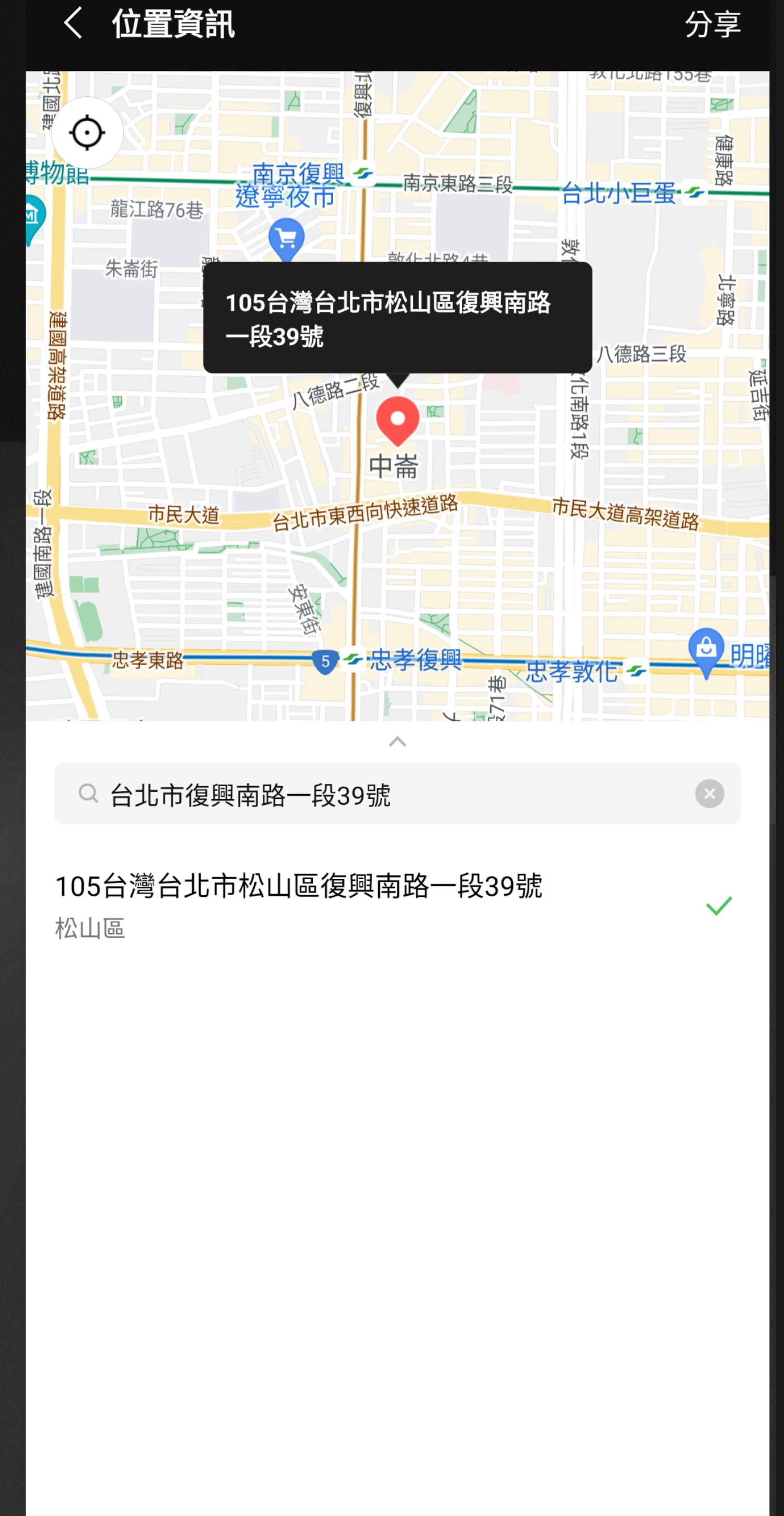


Follow 訊息

一對一聊天

```
{  
  "type": "follow",  
  "webhookEventId": "01GREAPB9DD  
NKSGY0ZEZD29ZJS",  
  "deliveryContext": {  
    "isRedelivery": false  
  },  
  "timestamp": 1675518225469,  
  "source": {  
    "type": "user",  
    "userId": "U039423df742116d5ee3  
1878c9dfb11b"  
  },  
  "replyToken": "b7ce4bb5cb34022a  
7daed8fc162c120",  
  "mode": "active"  
}
```

Location 訊息 一對一聊天



flex

```
{  
  "type": "message",  
  "message": {  
    "type": "location",  
    "id": "17587560849258",  
    "latitude": 25.046157,  
    "longitude": 121.54483,  
    "title": "105台灣台北市松山區復興南路一段39號",  
    "address": "松山區"  
  },  
  "webhookEventId": "01GREATDEGRHH3EWPRY5PQ88VW",  
  "deliveryContext": {  
    "isRedelivery": false  
  },  
  "timestamp": 1675518358486,  
  "source": {  
    "type": "user",  
    "userId": "U039423df742116d5ee31878c9dfcb11b"  
  },  
  "replyToken": "47f81600fb04ba6942501cc68e96263",  
  "mode": "active"  
}
```

21:45

Postback 訊息

一對一聊天

action

00:27

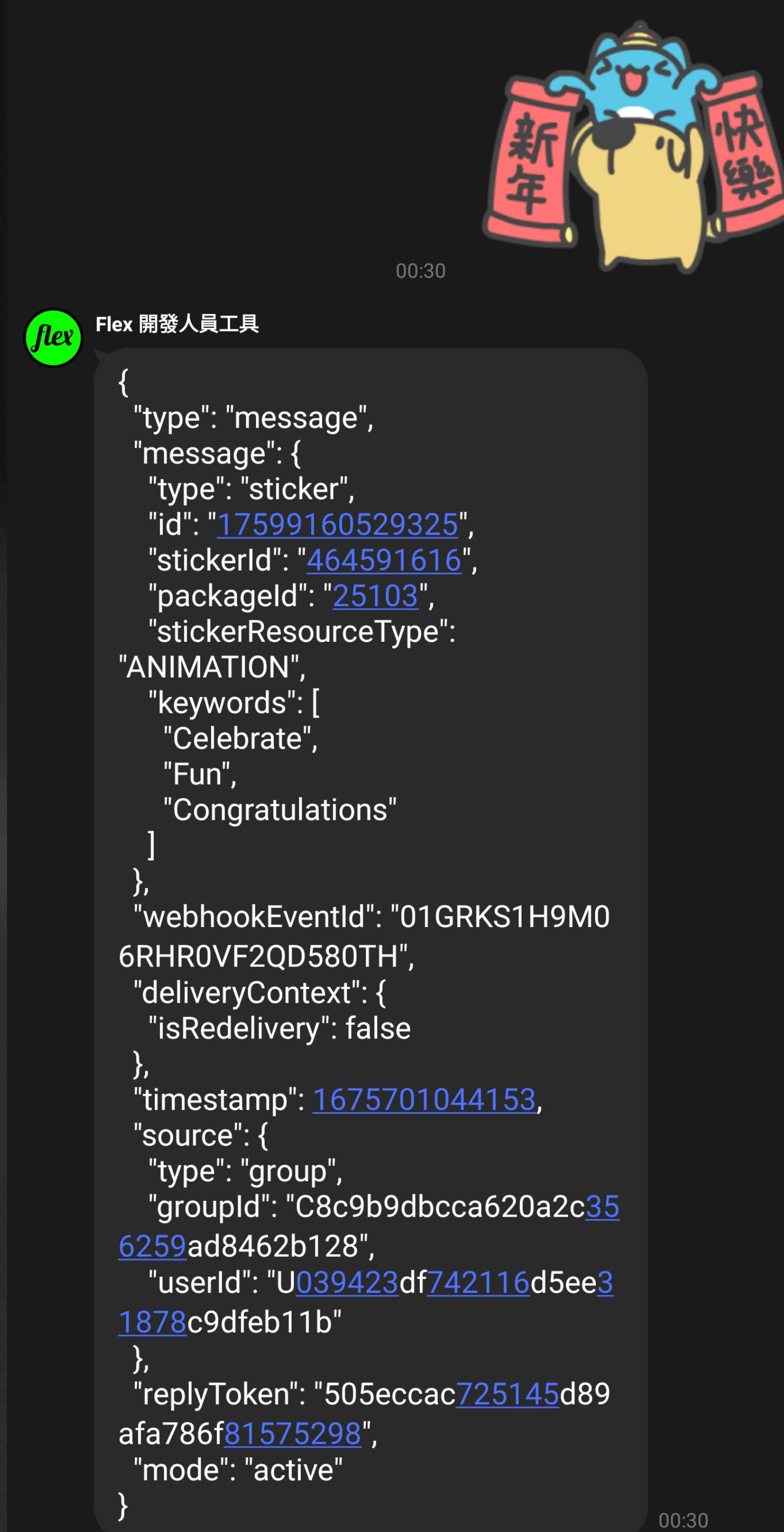
postback-displayText

```
{  
  "type": "postback",  
  "postback": {  
    "data": "postback-data"  
  },  
  "webhookEventId": "01GRKRWEW7N  
34KAD1DVDYHWWQM",  
  "deliveryContext": {  
    "isRedelivery": false  
  },  
  "timestamp": 1675700877812,  
  "source": {  
    "type": "group",  
    "groupId": "C8c9b9dbcca620a2c35  
6259ad8462b128",  
    "userId": "U039423df742116d5ee3  
1878c9dfcb11b"  
  },  
  "replyToken": "0641892f0eb84517b  
b9e274bc2928c18",  
  "mode": "active"  
}
```

00:27

Sticker 訊息

一對一聊天



videoPlayComplete 訊息

一對一聊天

```
{  
  "type": "video",  
  "originalContentUrl": "https://gist.github.com/taichunmin/e1da04f9f8fd8a2529c05f1a2581c17b/raw/countdown.mp4",  
  "previewImageUrl": "https://i.imgur.com/7wuS1uJ.png",  
  "trackingId": "02-countdown"  
}
```

00:33



0:39

00:33

```
{  
  "type": "videoPlayComplete",  
  "videoPlayComplete": {  
    "trackingId": "02-countdown"  
  },  
  "webhookEventId":  
  "01GRKS9QZFAE7MKSFBCFF6FE1A",  
  "deliveryContext": {  
    "isRedelivery": false  
  },  
  "timestamp": 1675701313205,  
  "source": {  
    "type": "user",  
    "userId": "U039423df742116d5ee31878c9dfcb11b"  
  },  
  "replyToken": "293bf49d7f31410f903246bdbcb17b9fc",  
  "mode": "active"  
}
```

}

00:35

你也可以搭配群組中使用

有助於快速測試跨平台的相容性 (Android & iPhone & PC)



Join 訊息

多人群組

00:40

戴均民已新增Flex 開發人員工具至群組。



以下為尚未閱讀的訊息



Flex 開發人員工具

```
{  
  "type": "join",  
  "webhookEventId": "01GRKSM0RS0  
FWDK5TWHW1ATCYV",  
  "deliveryContext": {  
    "isRedelivery": false  
  },  
  "timestamp": 1675701649699,  
  "source": {  
    "type": "group",  
    "groupId": "C8c9b9dbcca620a2c35  
6259ad8462b128"  
  },  
  "replyToken": "299deaf4123d4e33a8  
1b3f35823492ca",  
  "mode": "active"  
}
```



MemberJoin 訊息

多人群組

```
{  
  "type": "memberJoined",  
  "joined": {  
    "members": [  
      {  
        "type": "user",  
        "userId": "U4f5a7286f9af0295fca  
1c6185e09d7d9"  
      }  
    ]  
  },  
  "webhookEventId": "01GRKSQNEP  
FQA0M2YDRSK2AMJ",  
  "deliveryContext": {  
    "isRedelivery": false  
  },  
  "timestamp": 1675701705907,  
  "source": {  
    "type": "group",  
    "groupId": "C8c9b9dbcca620a2c35  
6259ad8462b128"  
  },  
  "replyToken": "9f1c184766be4bfeb3  
c0b4ae5a673c64",  
  "mode": "active"  
}
```

Mention 訊息

多人群組



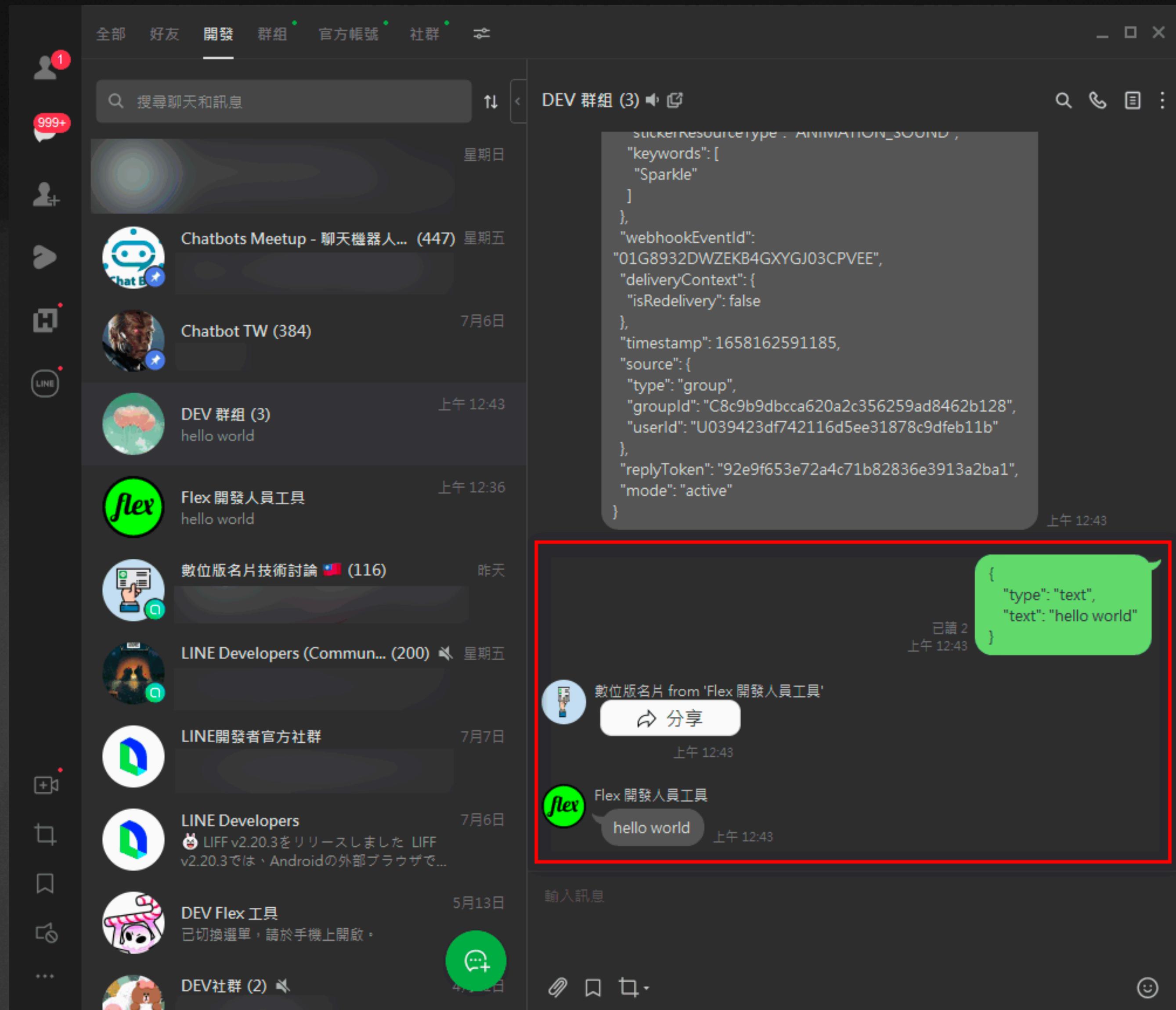
Flex 開發人員工具

```
{  
  "type": "message",  
  "message": {  
    "type": "text",  
    "id": "17599207620511",  
    "text": "hello, @和風信使 ",  
    "mention": {  
      "mentionees": [  
        {  
          "index": 7,  
          "length": 5,  
          "userId": "U4f5a7286f9af0295fc  
a1c6185e09d7d9"  
        }  
      ]  
    },  
    "webhookEventId": "01GRKSYVS0D7  
4K8QW8DZNPPJNF",  
    "deliveryContext": {  
      "isRedelivery": false  
    },  
    "timestamp": 1675702005030,  
    "source": {  
      "type": "group",  
      "groupId": "C8c9b9dbcca620a2c35  
6259ad8462b128",  
      "userId": "U039423df742116d5ee3  
1878c9dfcb11b"  
    },  
    "replyToken": "79326c1a4d024f769c  
4a1df99b157586",  
    "mode": "active"  
  }  
}
```

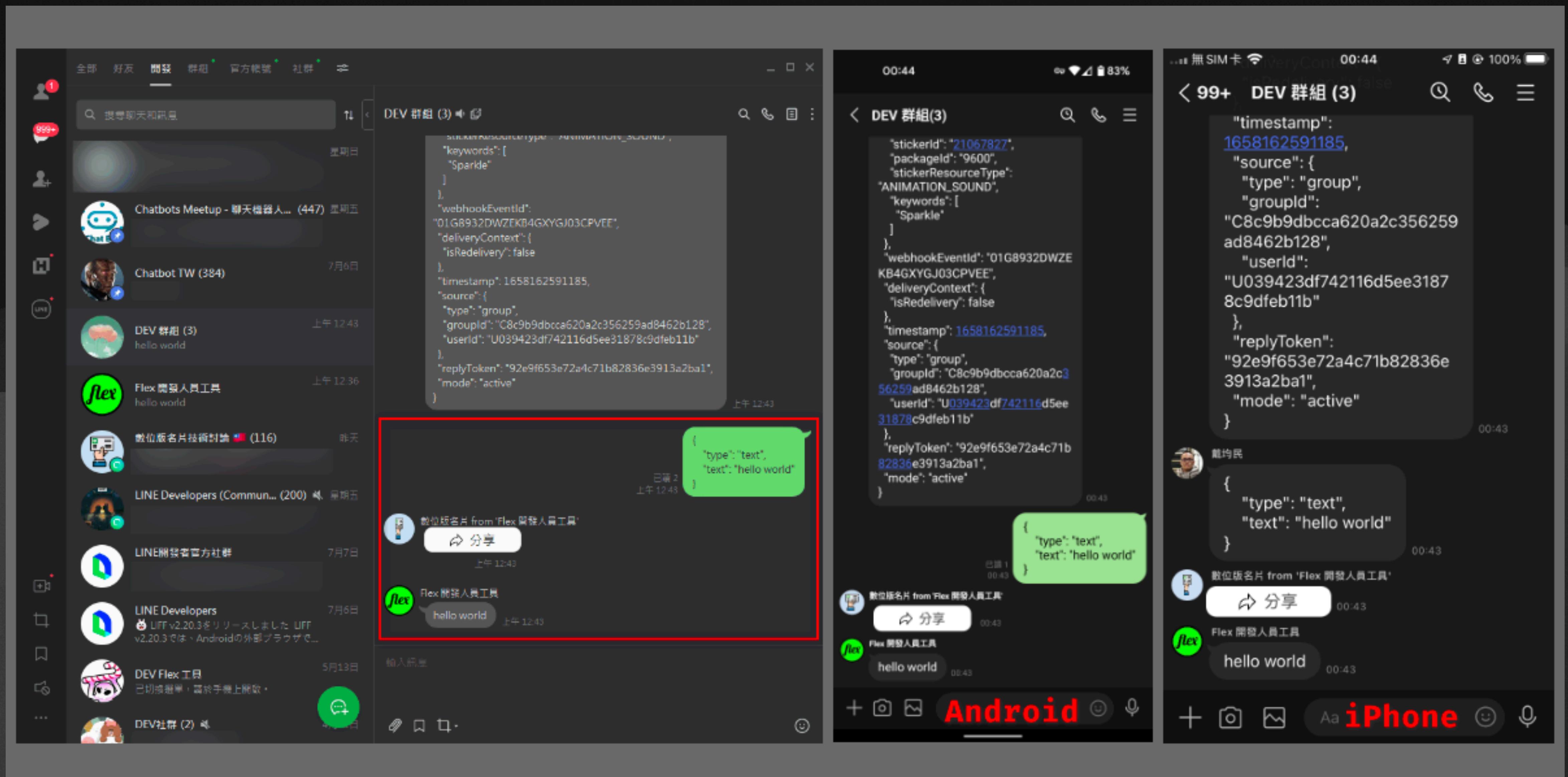
快速開箱測試 LINE 新發佈的功能

- 新功能：在官方帳號開關選單、切換文字或語音輸入
- 近期 LINE 針對開發者的更新：驗證圖文選單、LIFF 插件、Webhook 重送機制
- Flex 訊息第三版更新
- Quick Reply 支援 URI Action
- 測試 mentions 標記好友功能

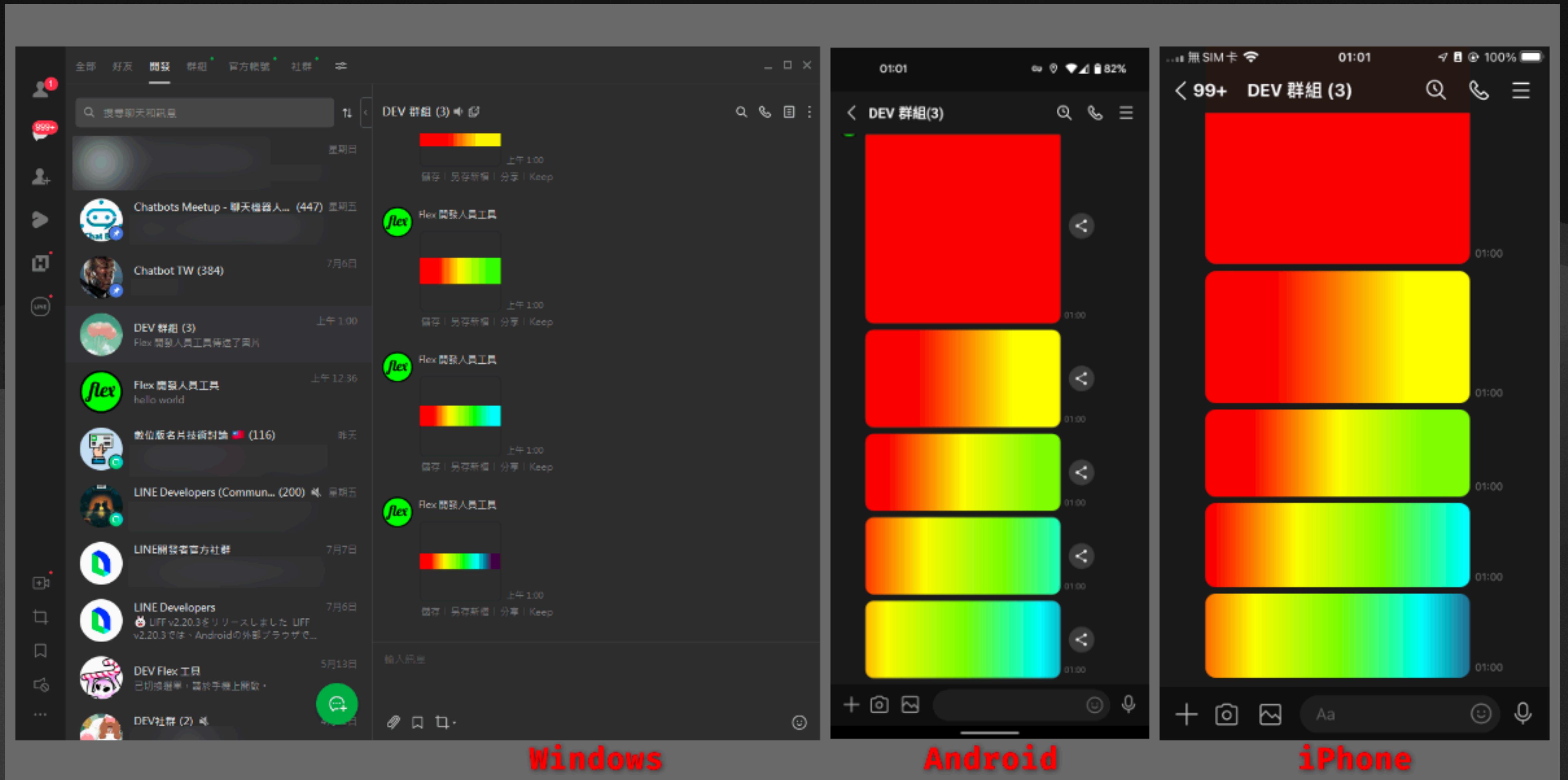
#2 回傳收到的 Message Object



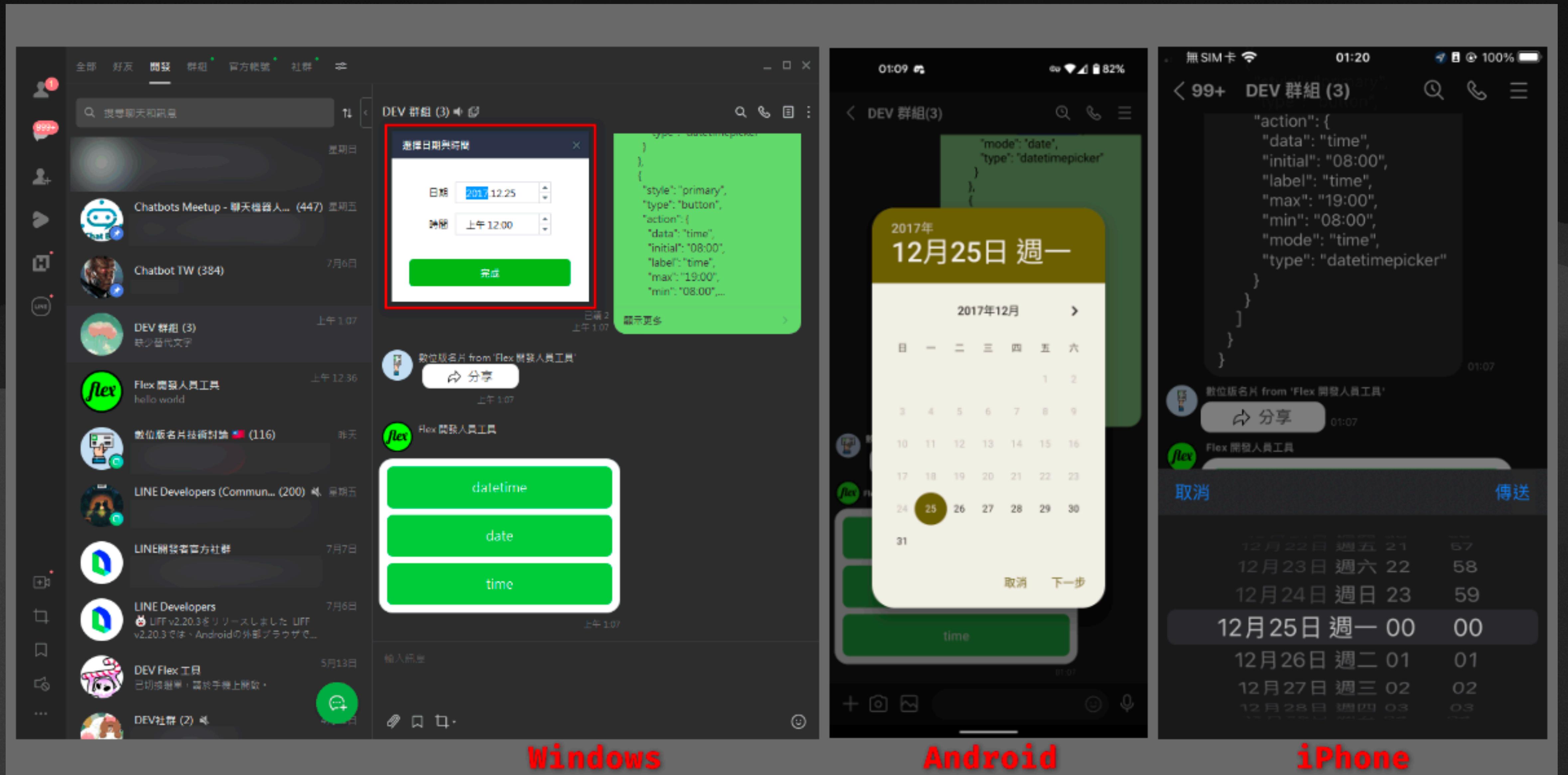
#2 跨平台查看呈現結果 03-text.json



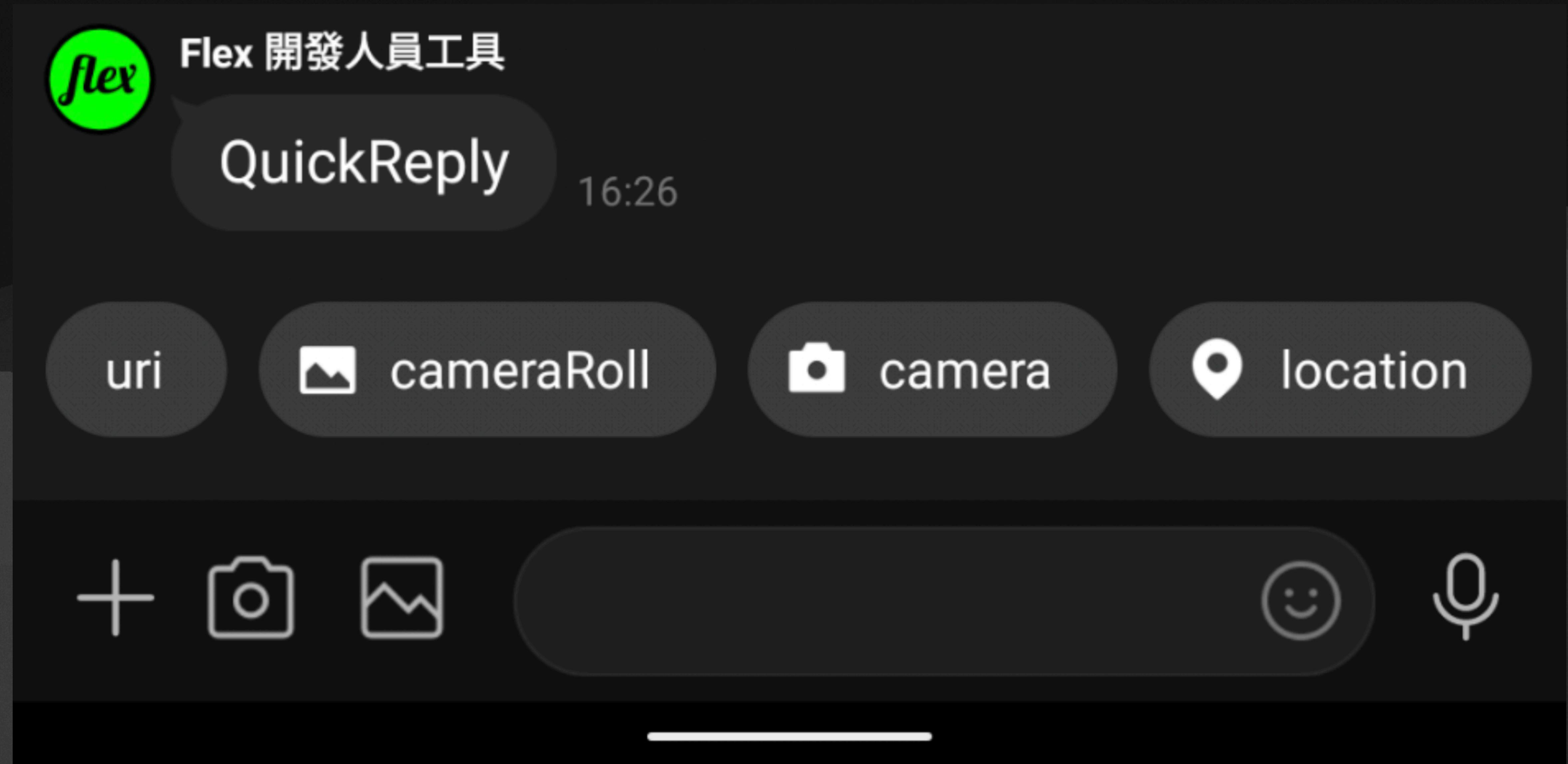
實測才知道不同平台上的微差異 04-images.json



實測才知道不同平台上的微差異 05-datetimepicker.json



實測才知道不同平台上的微差異 06-quicKreply.json



#3 回傳來自 Flex 訊息模擬器 的 07-flex.json

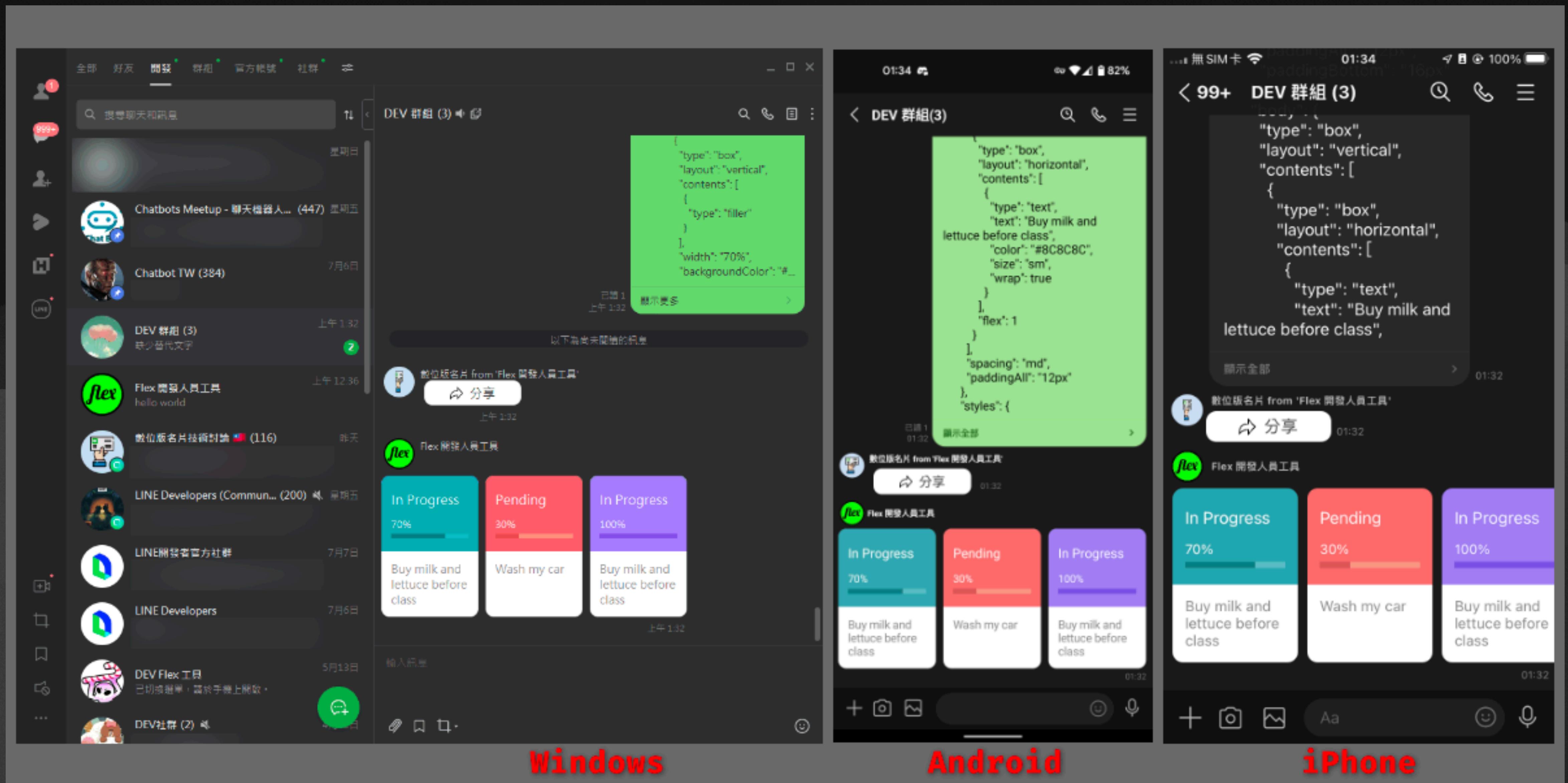
The screenshot shows the LINE Developers Flex Message Simulator interface. On the left, there's a preview of a card message for "Brown Cafe". The card has a thumbnail image, a title "Brown Cafe", a rating of 4.0 stars, and details about its location ("Place: Miraina Tokyo") and opening time ("Time: 10:00 -"). On the right, the JSON specification for this message is displayed in a code editor-like area. The JSON code defines the message structure, including the aspect ratio and mode of the thumbnail, the action URI, and the main body content which includes a bold text block for the cafe name and a gold star icon. A red box highlights the "View as JSON" button at the top right of the JSON editor. At the bottom right of the JSON editor, another red box highlights the "Copy" button.

```
"aspectRatio": "20:13",
"aspectMode": "cover",
"action": {
  "type": "uri",
  "uri": "http://linecorp.com/"
},
"body": {
  "type": "box",
  "layout": "vertical",
  "contents": [
    {
      "type": "text",
      "text": "Brown Cafe",
      "weight": "bold",
      "size": "xl"
    },
    {
      "type": "box",
      "layout": "baseline",
      "margin": "md",
      "contents": [
        {
          "type": "icon",
          "size": "sm",
          "url": "https://scdn.line-apps.com/n/channel_devcenter/img/fx/review_gold_star_28.png"
        }
      ]
    }
  ]
}
```

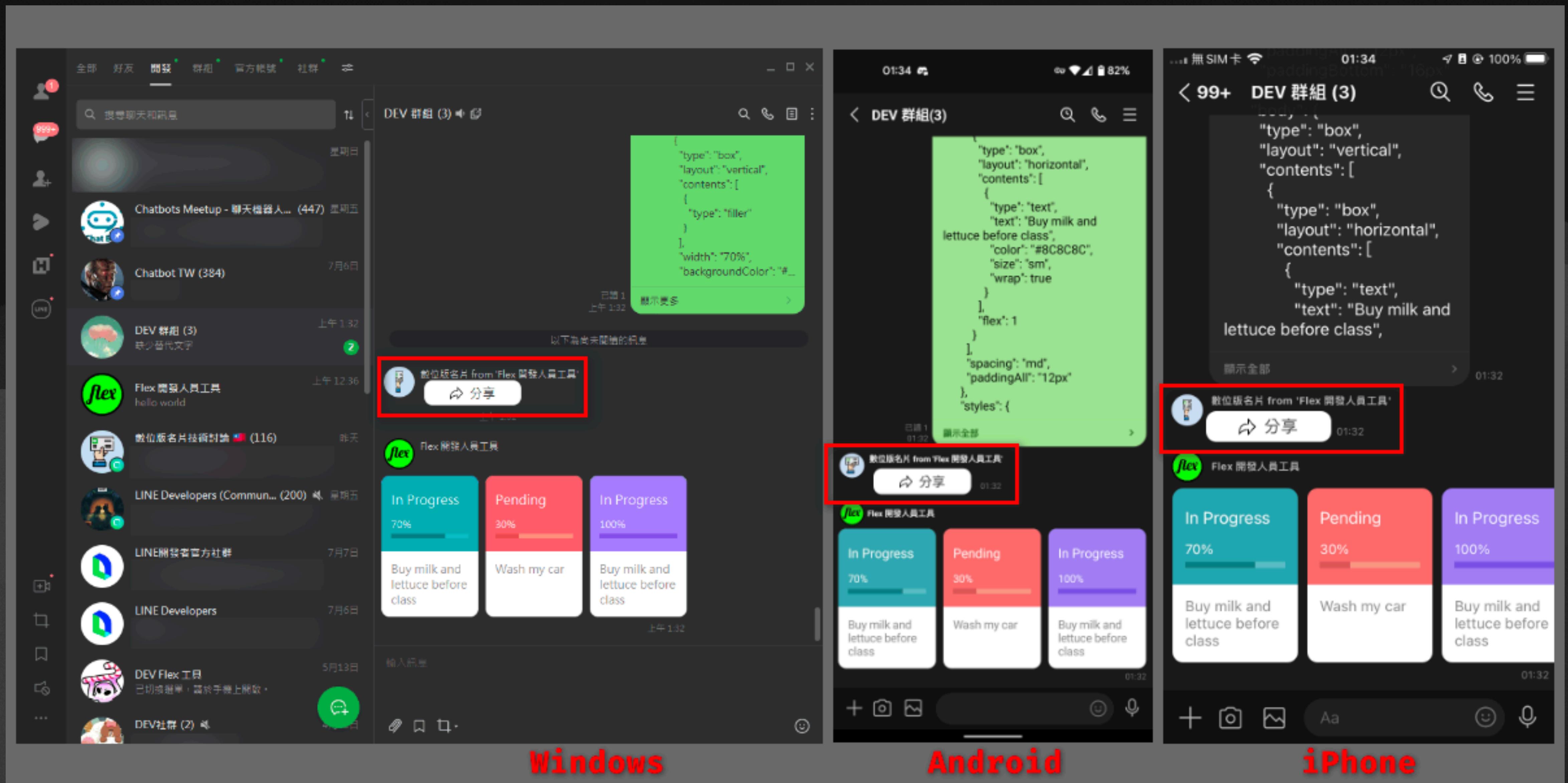
JSON spec

Copy Close Apply

#3 回傳來自 Flex 訊息模擬器 的 07-flex.json



#3 分享訊息給好友或群組 DEMO



#4 帶你超快速認識圖文選單的 圖文選單遊樂場

The image displays six screenshots from the WeChat Mini Program Test Platform, each showing a different type of menu action:

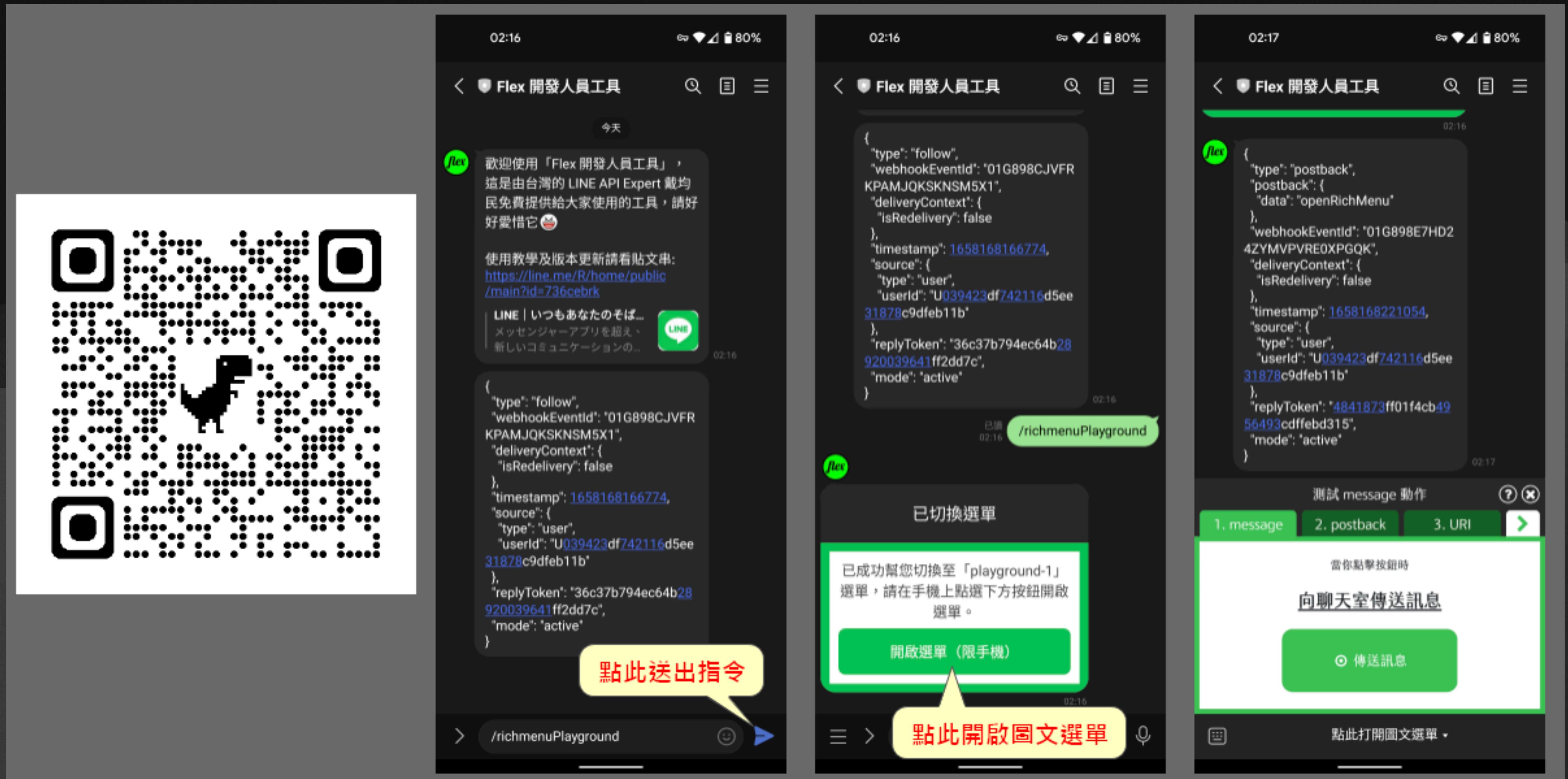
- 測試 message 動作**: Shows a green button labeled "傳送訊息".
 - 當你點擊按鈕時
 - 向聊天室傳送訊息
 - 傳送訊息
- 測試 postback 動作**: Shows a green button labeled "傳送隱藏資料給機器人".
 - 當你點擊按鈕時
 - 傳送隱藏資料給機器人
 - 包含 displayText
 - 沒有 displayText
 - 測試 inputOption 屬性 (僅限手機)
- 測試 URI 動作**: Shows three green buttons for opening URLs.
 - 開啟 URL
 - 查看網址
 - 當你點擊按鈕時
 - 在外部瀏覽器開啟
 - 查看網址
 - 以指定方式
 - 開啟 URL
 - 查看網址
- 測試選擇日期和時間的動作**: Shows two green buttons for date and time selection.
 - 當你點擊按鈕時
 - 選擇日期時間後連同隱藏資料傳送給機器人
 - 選擇日期與時間 mode=datetime
 - 選擇日期 mode=date
 - 指定初始值 initial 屬性
 - 指定上下限 min, max 屬性
 - 選擇時間 mode=time
- 測試切換圖文選單的動作**: Shows two blue buttons for switching menus.
 - 當你點擊按鈕時
 - 切換成指定的圖文選單
 - 換成藍色選單
 - 換成小型選單
- 測試切換圖文選單的動作**: Shows two blue buttons for switching menus.
 - 當你點擊按鈕時
 - 切換成指定的圖文選單
 - 換回綠色選單
 - 換成小型選單

#4 模仿官方提供的圖文選單遊樂場(日文)

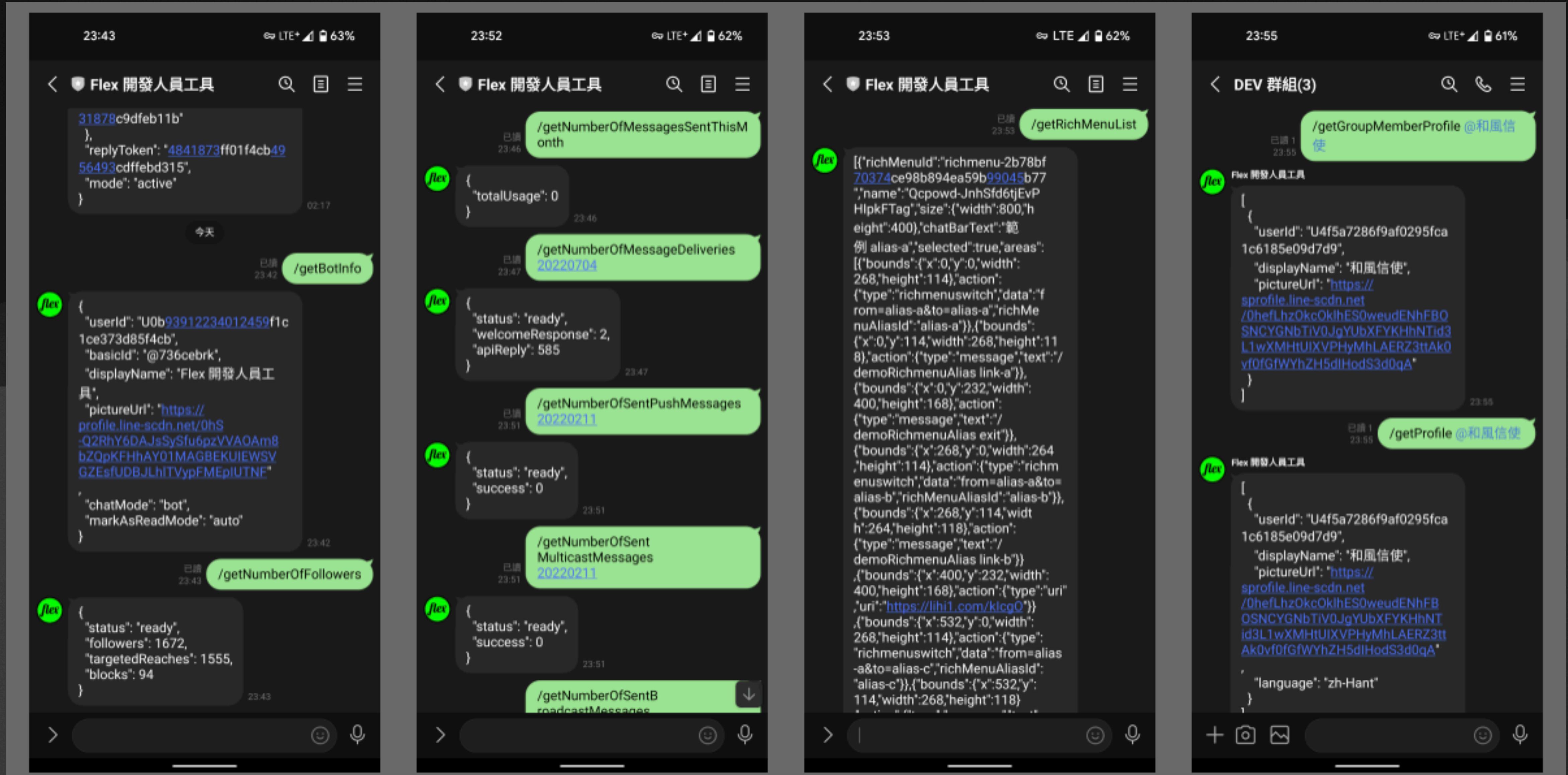
The screenshot displays five cards from the Microsoft Bot Framework Composer, each representing a different type of action:

- メッセージアクションを試す**:
 - ボタンをタップすると
トークにメッセージを送信します
 - メッセージ送信
- ポストバックアクションを試す**:
 - ボタンをタップすると
特定の文字列を含む
Webhookイベントを
ボットサーバーに送信します
 - displayTextあり
 - displayTextなし
- URIアクションを試す**:
 - URLを開く
 - 外部ブラウザで開く
 - Chromeカスタムタブで開く (Androidのみ)
- 日時選択アクションを試す**:
 - ボタンをタップすると
特定の日付、時刻、または日時を選択し
ボットサーバーに送信します
 - 日付と時刻を選択
(datetimeモード)
 - 初期値設定あり
(initialプロパティあり)
 - 最大・最小値設定あり
(min, maxプロパティあり)
 - 日付を選択
(dateモード)
 - 時刻を選択
(timeモード)
- リッチメニュー切り替えアクションを試す**:
 - ボタンをタップすると
指定したリッチメニューに切り替えます
 - リッチメニューを
切り替える
 - 小さいサイズの
リッチメニューに
切り替える

使用方法：掃描連結然後送出指令



#5 快速測試部份 Messaging API 指令清單



/getProfile @和風信使

01:00

搭配 Mention 使用指令

多人群組



Flex 開發人員工具

```
[  
 {  
   "userId": "U4f5a7286f9af0295fca1  
c6185e09d7d9",  
   "displayName": "和風信使",  
   "pictureUrl": "https://sprofile.line  
-scdn.net/0hefLhzOkcOklhES0weud  
ENhFBOSNCYGNbTiV0JgYUbXFYKH  
hNTid3L1wXMHtUIXVPHyMhLAERZ  
3ttAk0vf0fGfWYhZH5dIHodS3d0qA"  
,  
   "language": "zh-TW"  
 }  
 ]
```

01:00

/getGroupMemberProfile @和風信使

01:01



Flex 開發人員工具

```
[  
 {  
   "userId": "U4f5a7286f9af0295fca1  
c6185e09d7d9",  
   "displayName": "和風信使",  
   "pictureUrl": "https://sprofile.line  
-scdn.net/0hefLhzOkcOklhES0weudE  
NhFBOSNCYGNbTiV0JgYUbXFYKKh  
NTid3L1wXMHtUIXVPHyMhLAERZ3t  
tAk0vf0fGfWYhZH5dIHodS3d0qA"  
 }  
 ]
```

01:01

#6 查詢並快速測試傳送貼圖

可以傳送

01:06 /replySticker 11538 51626507

Flex 開發人員工具

```
{ "type": "message", "message": { "type": "sticker", "id": "17599263287063", "stickerId": "51626507", "packageld": "11538", "stickerResourceType": "ANIMATION", "keywords": [ "goodjob", "Celebrate", "Yay", "line", "moon", "Congratulations", "nicework", "jobwelldone", "parade" ], "webhookEventId": "01GRKV2JR2TWJ9W2QYGZFNKJZC", "deliveryContext": { "isRedelivery": false }, "timestamp": "1675703175424", "source": { "type": "group", "groupId": "C8c9b9dbcca620a2c356259ad8462b128", "userId": "U039423df742116d5ee31878c9dfeb11b" }, "replyToken": "69ac9d8eebf247eb92d32d85c4fb160", "mode": "active" }}
```

RESULTS OF /replySticker

packageld 11538
stickerId 51626507
Success

/notifySticker

點此查詢可用貼圖

01:06 /notifySticker 11538 51626507

Flex 開發人員工具

```
RESULTS OF /notifySticker
```

packageld 11538
stickerId 51626507
Success

/replySticker

點此查詢可用貼圖

無法傳送

01:08 /replySticker 1092056 3777410

Flex 開發人員工具

```
{ "type": "message", "message": { "type": "sticker", "id": "17599270245865", "stickerId": "3777410", "packageld": "1092056", "stickerResourceType": "STATIC", "keywords": [ "Bothered" ], "webhookEventId": "01GRKV74C1F326GJW6YGAZ90S5", "deliveryContext": { "isRedelivery": false }, "timestamp": "1675703324553", "source": { "type": "group", "groupId": "C8c9b9dbcca620a2c356259ad8462b128", "userId": "U039423df742116d5ee31878c9dfeb11b" }, "replyToken": "a4e407e561a44a1299441eb058bb2ae0", "mode": "active" }}
```

RESULTS OF /replySticker

packageld 1092056
stickerId 3777410
Invalid package id

/notifySticker

點此查詢可用貼圖

01:08 /notifySticker 1092056 3777410

Flex 開發人員工具

```
RESULTS OF /notifySticker
```

packageld 1092056
stickerId 3777410
LINE Notify account doesn't join group which you want to send.

/replySticker

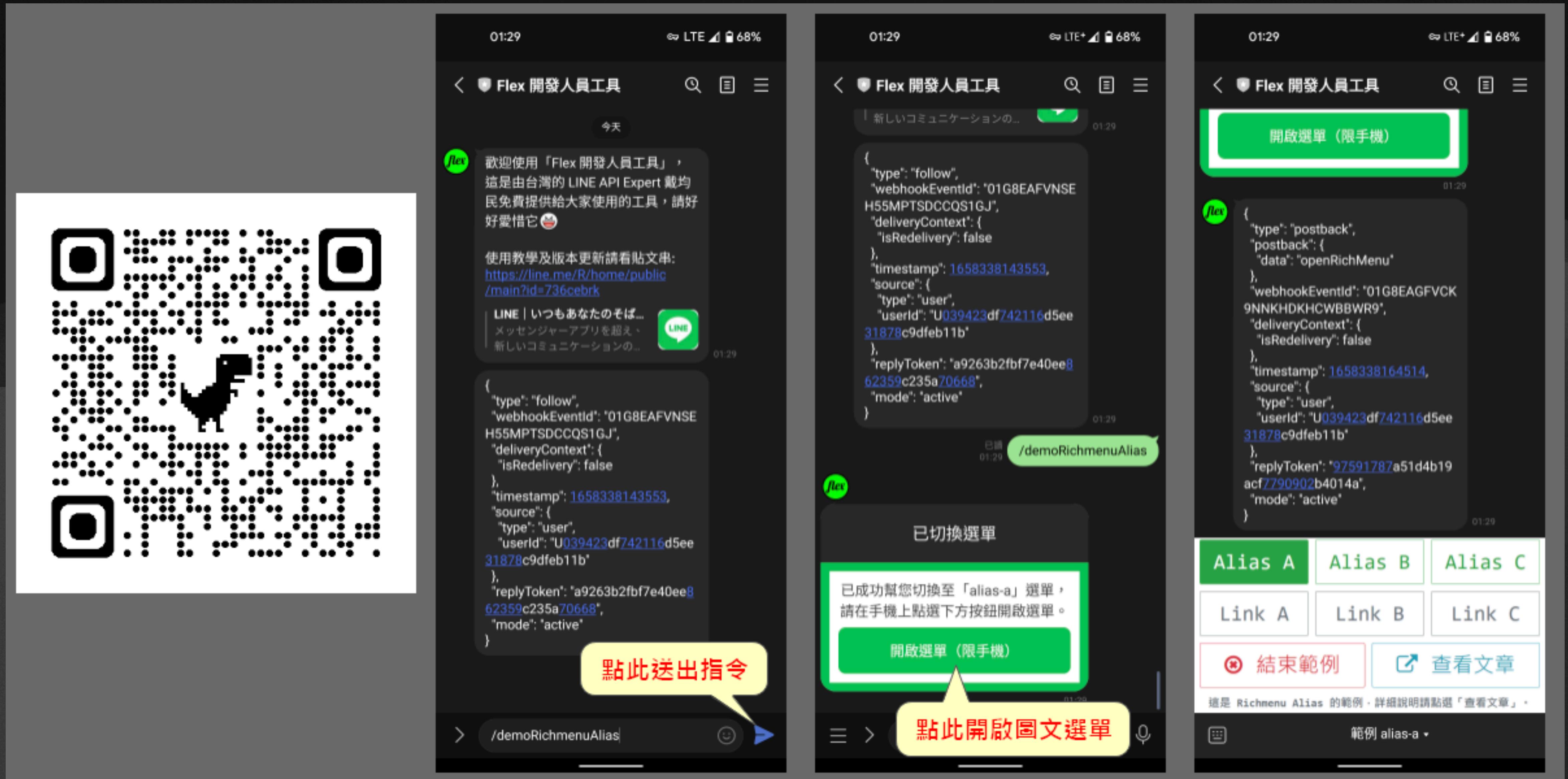
點此查詢可用貼圖

#7 選單 切換速度 測試

Messaging API 目前有兩種選單切換方式

1. [Switch by RichMenu Alias](#) 透過圖文選單別名切換
2. [Link rich menu to user](#) 設定使用者的選單

使用方法：掃描連結然後送出指令



#7 選單 切換速度 測試

Alias A

Alias B

Alias C

Link A

Link B

Link C



結束範例



查看文章

這是 Richmenu Alias 的範例，詳細說明請點選「查看文章」。

#8 測試 LINE Simple Beacon

(感謝 @dabo_huang 提供照片)



#8 測試 LINE Simple Beacon

- 建立個人的 Messaging API 頻道
- 按照教學設定 Webhook
- 發行個人的 LINE Simple Beacon HWID
- 用 ESP32 燒錄 LINE Simple Beacon

#8 用 ESP32 做出來的八合一 LINE Beacon

The image shows a mobile phone screen on the left and a screenshot of the Octobeacon app on the right.

Mobile Phone Screen (Left):

- Top status bar: 無 SIM 卡, 01:38, 95% battery.
- App title: Flex 開...員工具.
- Text content:

```
{  
  "type": "beacon",  
  "beacon": {  
    "hwid": "014b10eeb9",  
    "type": "enter",  
    "dm": "0dfc10cd000001"  
  },  
  "webhookEventId":  
    "01G92Y7MTRK8SWEZJYXNZ  
ZBR07",  
  "deliveryContext": {  
    "isRedelivery": false  
  },  
  "timestamp":  
    1659029934433,  
  "source": {  
    "type": "user",  
    "userId":  
      "U4f5a7286f9af0295fca1c618  
5e09d7d9",  
    "replyToken":  
      "4bbe5d28eb91406d92d01a5  
c0a993687",  
    "mode": "active"  
  }  
}
```

Octobeacon App Screenshot (Right):

Octobeacon 設定

操作
本程式目前支援在 Windows、macOS 及 Android 6.0 以上的 Chrome 中執行。

LINE Beacon 1 (啟用)

offset(16)	0000000000000000	✓
hwid(10)	[REDACTED]	✓
vendor(8)	00000000	✓
lot(16)	0000000000000000	✓

LINE Beacon 2 (啟用)

offset(16)	0000000000000000	✓
hwid(10)	[REDACTED]	✓
vendor(8)	00000000	✓
lot(16)	0000000000000000	✓

LINE Beacon 3 (啟用)

offset(16)	0000000000000000	✓
hwid(10)	[REDACTED]	✓
vendor(8)	00000000	✓
lot(16)	0000000000000000	✓

GitHub 原始碼 & QA 時間

喜歡的話請幫我按個 GitHub Star

