

Automate the Boring Stuff with Slackbot

Takanori Suzuki

PyCon Thailand 2019 / 2019 Jun 15

Who am I?

- 鈴木たかのり / Takanori Suzuki
- Twitter: [@takanory](#)
- Vice Chair of [PyCon JP Committee](#): #pyconjp
- Director of [BeProud Inc.](#)
- Organizer of [Python mini Hack-a-thon](#): #pyhack
- Captain of [Python Bouldering Club](#): #kabepy



PyCon JP

- <https://pycon.jp/2019>
- Date: 2019 Sepember 16, 17
- Venue: Tokyo, Japan

Slide URL

- <https://gitpitch.com/takanory/slides?p=20190615pyconth>

The screenshot shows a presentation slide. At the top left is a circular profile picture of a ferret. To its right is the name "Takanori Suzuki" and the handle "@takanory". Below this section is a large text area containing the title "My slide: Automate the Boring Stuff with Slackbot" followed by the URL "gitpitch.com/takanory/slide ..." and the hashtag "#pyconthailand2019". The bottom half of the slide features a large, bold, blue text box with the text "Automate the Boring Stuff with Slackbot" and the name "Takanori Suzuki" at the bottom.

Takanori Suzuki
@takanory

My slide: Automate the Boring Stuff with
Slackbot
gitpitch.com/takanory/slides ...
#pyconthailand2019

Automate the Boring Stuff
with Slackbot

Takanori Suzuki

Background and Motivation

Conference Tasks

- I held PyCon JP(2014-2016) as Chair
- Conference tasks:
 - Keynotes, Talks and Trainings arrangement
 - Ticket sales and reception
 - Venue and facility(WiFi, Video...) management
 - Foods, Coffee, Snacks and Beers

Staff ask me the same things

- 40+ staff
- **New** staff:**Old** staff = 50:50

Programmer is Lazy

Let's create a secretary!!

Goal

- How to create **simple chatbot**
- How to create **interactive bot**
- How to **extend bot** using libs and APIs

Why Slackot

- Launching the Slack application at any time
- Easy to access Slack
- To do everything in Slack

#pycon-overseas ★

☆ 5 | 世界のPyCon情報 <https://tinyurl.com/r54v7w4>



106



takanory 🐍 00:13

20分からじゃねーのかよ!!! (edited)

Saturday, May 15th ▾



terapyon 00:13

画像の話？



canzawa 00:13

ですねw



canzawa 00:18

取り敢えず啓蒙？しました。

<https://twitter.com/yutakanzawa/status/1393224062713798656>



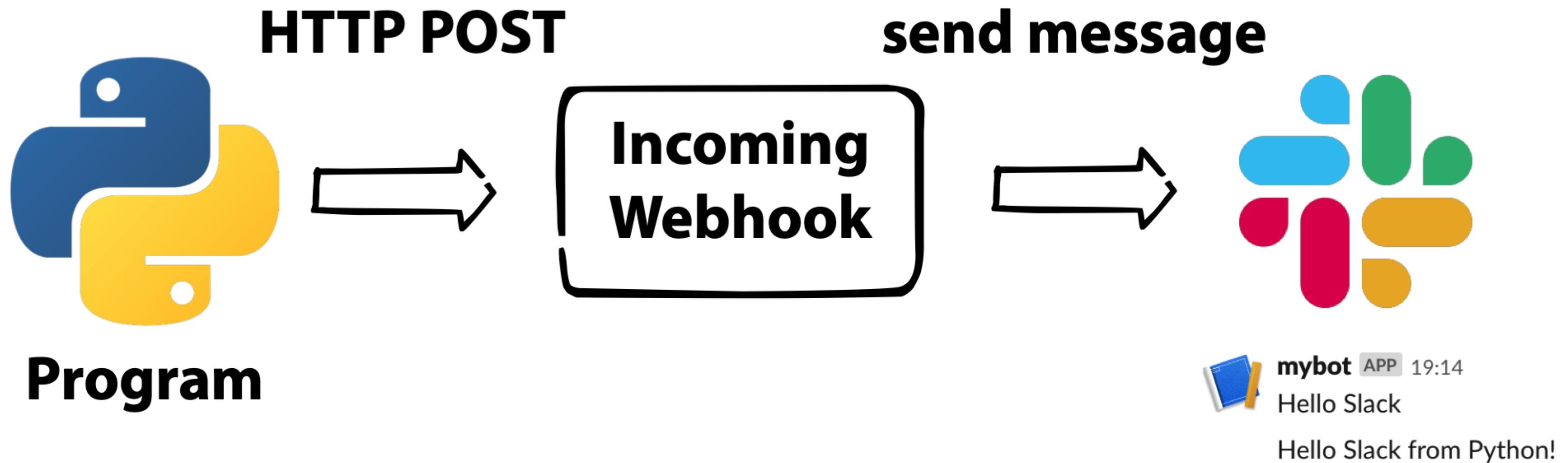
Yuta Kanzawa @yutakanzawa

Keynote of #PyConUS now! #PyCon

<https://pbs.twimg.com/media/E1W5uszVUAEP589.jpg>

Simple integration with Incoming Webhooks

System overview



- see: <https://api.slack.com/incoming-webhooks>

Create Incoming Webhooks Integration

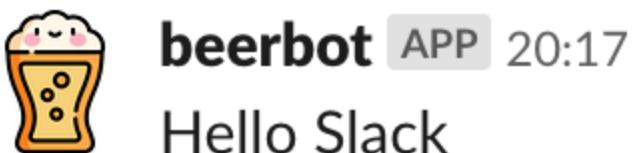
- Generate Webhook URL
 - 1. Create a Slack app
 - 2. Enable Incoming Webhooks in the app
 - 3. Create an Incoming Webhook
- Webhook URL like this:

`https://hooks.slack.com/services/T00000000/B00000000/XXXXXXXXXXXX`

- see: [Getting started with Incoming Webhooks](#)

Post message with cURL

```
$ curl -X POST -H 'Content-type: application/json' \
> --data '{"text": "Hello Slack"}' \
> https://hooks.slack.com/services/T00000000/B00000000/XXXXXXX
```



Post message with Python

```
import json
from urllib import request

URL = 'https://hooks.slack.com/services/T00000000/B00000000/XXX'
data = json.dumps({'text': 'Hello from Python!'}).encode('utf-8')
req = request.Request(URL, data=data, method='POST')
request.urlopen(req)
```



beerbot APP 20:19

Hello from Python!

Post message with Requests

```
import json
import requests

URL = 'https://hooks.slack.com/services/T00000000/B00000000/XXX'
requests.post(URL, json={'text': 'Hello from Requests!'})
```



Complex message with Requests

```
fields = [ {'title': 'Love', 'value': 'Ferrets, :beer:, LEGO', 'short': True},  
          {'title': 'From', 'value': 'Japan :jp:', 'short': True} ]  
  
requests.post(URL, json={'attachments': [  
    {  
        'pretext': 'Nice to meet you!!!',  
        'author_name': 'Takanori Suzuki',  
        'author_link': 'https://twitter.com/takanory/',  
        'text': '*THANK YOU* for coming to my talk !:tada: Please give me feedback about this talk !:partying_face:',  
        'image_url': 'https://i.imgur.com/3QHdLJG.jpg'  
    }  
]})
```



beerbot APP 20:23

Nice to meet you!!

Takanori Suzuki

THANK YOU for coming to my talk !:party: Please give me feedback about this talk !:thinking:

Love

Ferrets, 🍺, LEGO

From

Japan 🇯🇵

How to create complex message

- Block-Kit: new UI framework
- Introducing Block Kit
 - <https://api.slack.com/block-kit>
- Block Kit Builder
 - <https://api.slack.com/tools/block-kit-builder>

T Section

Image

Context

Divider

Actions

Section with...

Image

Button

Select

Multi-Select

Overflow

Datepicker

Fields

Message Preview ▾

Desktop ▾

Select a Template

Your App APP 2:37 AM

Hello, Assistant to the Regional Manager Dwight! **Michael Scott** wants to know where you'd like to take the Paper Company investors to dinner tonight.

Please select a restaurant:

Farmhouse Thai Cuisine

 1528 reviews

They do have some vegan options, like the roti and curry, plus they have a ton of salad stuff and noodles can be ordered without meat!! They have something for everyone here



Kin Khao

 1638 reviews

The sticky rice also goes wonderfully with the caramelized pork belly, which is absolutely melt-in-your-mouth and so soft.



Ler Ros

 2082 reviews

I would really recommend the Yum Koh Moo Yang - Spicy lime dressing and roasted quick marinated pork shoulder, basil leaves, chili & rice powder.



[Farmhouse](#)

[Kin Khao](#)

[Ler Ros](#)

```

1 { "blocks": [
2   {
3     "type": "section",
4     "text": {
5       "type": "mrkdwn",
6       "text": "Hello, Assistant to the Regional Manager Dwight! *Michael Scott* wants to
7       know where you'd like to take the Paper Company investors to dinner tonight.\n\n *Please select a
8       restaurant:*

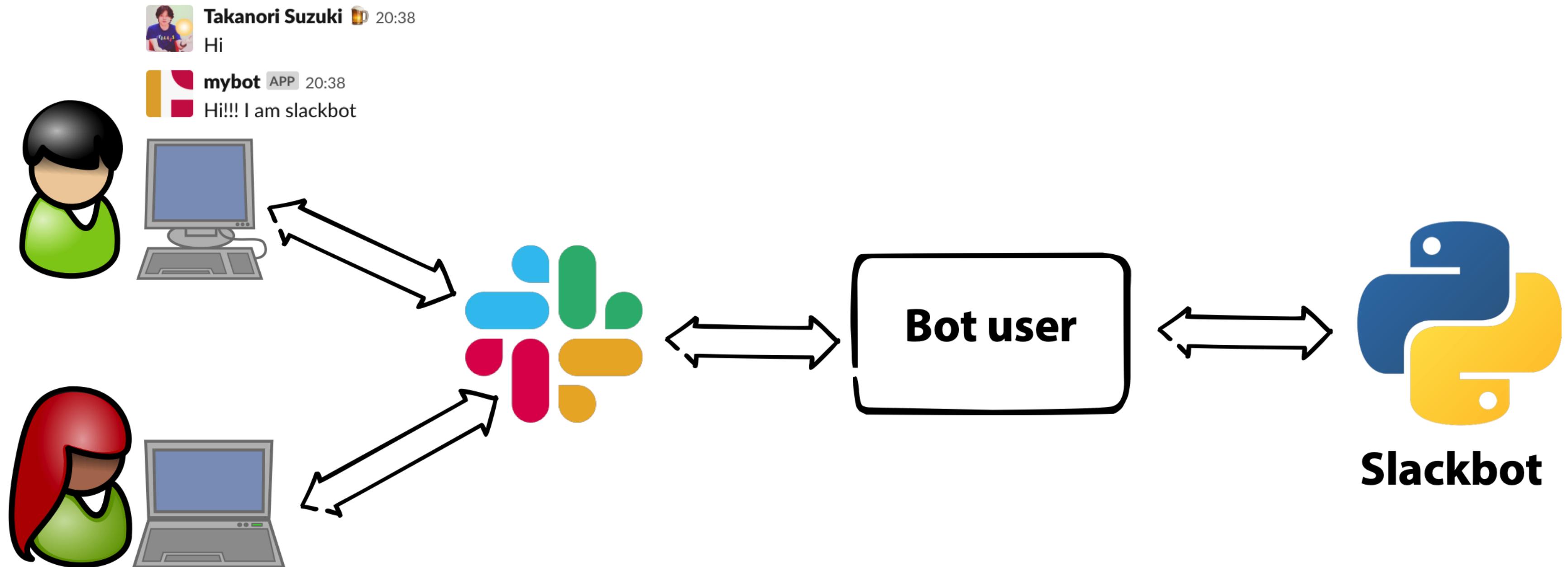
```

Summary of Incoming Webhooks

- Easy to send messages from programs
- We can create complex messages
- BUT one way only(program -> Webhook -> Slack)

How to create slackbot

System overview



Create bot user on Slack

- Create bot user
 1. Create a Slack app
 2. Enable Bots
 3. Add a **Bot User**
 4. Install App to Workspace -> **Authorize**
- Invite Bot User to Slack channels
- **Bot User OAuth Access Token** like this: xoxb-123467890-XXXXXX-XXXXXXXXXXXX
- see: [Creating a bot user](#)

Install slackbot

- <https://github.com/lins05/slackbot>

```
$ mkdir mybot
$ cd mybot
$ python3.6 -m venv env
$ . env/bin/activate
(env) $ pip install slackbot
:
:
```

Create a simple bot with slackbot

- slackbot_settings.py

```
API_TOKEN = "xoxb-123467890-XXXXXX-XXXXXXXXXXXX" # Bot token
PLUGINS = ['mybot.plugins'] # Plugin packages
```

- run.py

```
from slackbot.bot import Bot

def main():
    bot = Bot()
    bot.run()

if __name__ == "__main__":
```

Simple Plugin

- mybot/plugins/__init__.py

```
(env) $ mkdir mybot
(env) $ mkdir mybot/plugins
(env) $ touch mybot/plugins/__init__.py # empty file
```

- mybot/plugins/sample.py

```
from slackbot.bot import listen_to

@listen_to('Hi')
def hello(message):
    message.send('Hi!!! I am slackbot')
```

Run slackbot

- Files for slackbot

```
mybot/
├── env/ # venv
└── mybot/plugins/
    └── __init__.py
        └── sample.py
└── run.py
└── slackbot_settings.py
```

```
(env) $ python run.py
```



Takanori Suzuki 🍺 20:54

Hi



beerbot APP 20:54

Hi!!! I am beerbot! 🍺

Extend slackbot

listen_to / respond_to decorator

```
from slackbot.bot import listen_to, respond_to

@listen_to('Hi')
def hello(message):
    message.send('Hi!!! I am slackbot')

/respond_to('ping') # mention
```

listen_to / respond_to decorator



Takanori Suzuki 14:40

Hi



beerbot APP 14:40

Hi!!! I am beerbot!



Takanori Suzuki 14:40

cheers

@beerbot cheers!



beerbot APP 14:40

Cheers!

emoji reaction

- Use `mesasge.react()` method

```
# -- snip--
```

```
@listen_to('beer')
def beer(message):
    message.react(':beer:')
```



Takanori Suzuki 15:55

I want to drink craft beer in Pittsburgh!!!



Extract parameters on chat message

- Use regular expressions

```
@respond_to('choice (.*)')
def choice(message, words):
    word = random.choice(words.split())
    message.send('I chose *{}*'.format(word))
```

Extract parameters on chat message



Takanori Suzuki 15:17

@beerbot choice pizza ramen sushi



beerbot APP 15:17

I chose sushi



Takanori Suzuki 15:17

@beerbot choice beer wine sake



beerbot APP 15:17

I chose beer



Takanori Suzuki 15:18

3 beers



beerbot APP 15:18



Takanori Suzuki 15:18

100beers



beerbot APP 15:18



settings

- slackbot_settings.py file

```
ALIASES = '$' # Prefix instead of mention (@mybot ping -> $ping)
ERRORS_TO = 'mybot-error' # Some channel
DEFAULT_REPLY = "Sorry but I didn't understand you"
PLUGIN = ['mybot.plugins', 'other.plugins',] # Pluing packages
```

 **Takanori Suzuki** 15:31
\$choice beer wine sake

 **beerbot** APP 15:31
I chose beer

 **Takanori Suzuki** 15:32
\$ping

 **beerbot** APP 15:32
@takanory: Sorry but I didn't understand you

- see: Usage of Slackbot

Attachments support

```
import json

/respond_to('follow me')
def followme(message):
    attachments = [
        'author_name': 'Takanori Suzuki',
        'text': 'Follow me! <https://twitter.com/takanory|@taka
```



Takanori Suzuki 15:34

\$follow me



beerbot APP 15:34

Takanori Suzuki

Follow me! [@takanory](https://twitter.com/takanory)

Summary of Slackbot

- We can **communicate** with Slackbot
- Slackbot can handle **arguments** in messages
- Slackbot can send messages in **various formats**

Case studies

Calculator function using SymPy

Calculator function using SymPy

- Motivation
 - I feel heavy to call a caluclator app on my smartphone
 - It seems useful if Slack as a calculator

Install SymPy

- SymPy: Python library for symbolic mathematics
- <https://www.sympy.org/>

```
(env) $ pip install sympy  
:  
Successfully installed mpmath-1.1.0 sympy-1.4
```

- mybot/plugins/calc.py

```
from slackbot.bot import listen_to
from sympy import sympify, SympifyError

@listen_to(r'^([-+*/^%!().]\d\s]+)$') # Formula like pattern
def calc(message, formula):
    try:
        result = sympify(formula)
```



Takanori Suzuki 15:45

1 + 1



beerbot APP 15:45

2



Takanori Suzuki 15:45

9500 / 3



beerbot APP 15:45

3,166.666666666666



Takanori Suzuki 15:45

$10^2 + 11^2 + 12^2$



beerbot APP 15:45

365



Takanori Suzuki 15:45

10!



beerbot APP 15:45

3,628,800

Plusplus function using Peewee ORM

Plusplus function using Peewee ORM

- Motivation
 - In PyCon JP, I want to make a culture that appreciates each other staff

Install Peewee

- simple and small ORM.
 - a small, expressive ORM
 - python 2.7+ and 3.4+ (developed with 3.6)
 - supports sqlite, mysql and postgresql
- <http://docs.peewee-orm.com/>

```
(env) $ pip install peewee
:
Successfully installed peewee-3.9.6
```

Plusplus model

```
from pathlib import Path
from peewee import SqliteDatabase, Model, CharField, IntegerField

dbpath = Path(__file__).parent / 'plusplus.db'
db = SqliteDatabase(dbpath)

class Plusplus(Model):
```

Plusplus command

```
from slackbot.bot import listen_to  
  
from .plusplus_model import Plusplus  
  
@listen_to(r'^(\w+)\+\+')  
def plusplus(message, name):  
    target = name.lower()  
    if target == 'me':  
        target = message['user']
```



Takanori Suzuki 15:56

staff++



beerbot APP 15:56

Thank you staff! (count: 1)



Takanori Suzuki 15:56

Staff++



beerbot APP 15:56

Thank you Staff! (count: 2)



Takanori Suzuki 15:56

beer++



beerbot APP 15:56

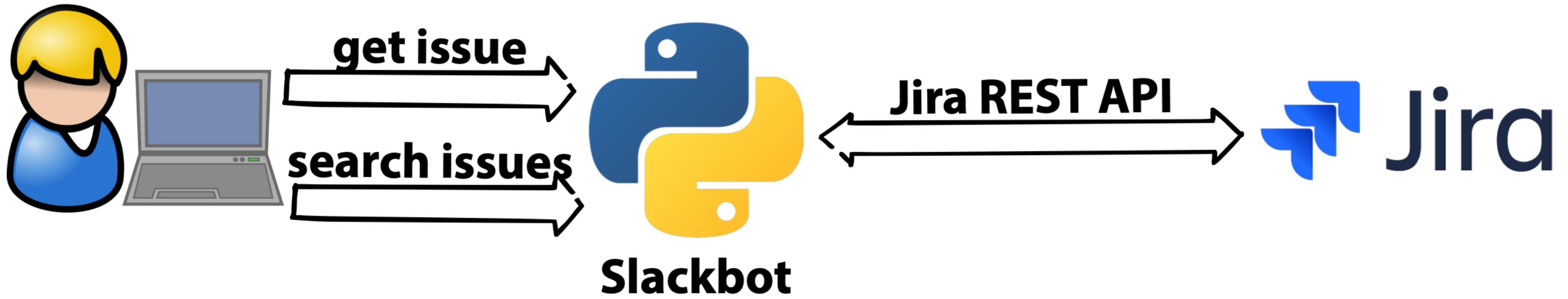
Thank you beer! (count: 1)

Display JIRA issue and Search issues

Display JIRA issue and Search issues

- Motivation
 - JIRA is very useful
 - JIRA Web is **very heavy**
 - I want to check issue details without JIRA Web

System Overview



Install Python JIRA

- Python library to work with JIRA APIs
- <https://jira.readthedocs.io/>

```
(env) $ pip install jira
```

```
:
```

```
Successfully installed asn1crypto-0.24.0 cffi-1.12.3 cryptography-2.4.2 jira-2.0.0 requests-2.22.0
```

```
(env) $ pip list | grep jira
```

```
jira    2.0.0
```

Authentication

```
from jira import JIRA  
  
URL = 'https://jira.atlassian.com/'  
jira = JIRA(URL, basic_auth=('user', 'pass'))
```

- see: [2.1.2. Authentication](#)

Get Issue object

```
@listen_to(r'(ISSHA-[\d]+)') # Issue id pattern
def jira_issue(message, issue_id):
    issue = jira.issue(issue_id)
    summary = issue.fields.summary
    status = issue.fields.status.name
    assignee = issue.fields.assignee.name
    issue_url = issue.permalink()
```

- see: [2.1.3 Issues](#)



Takanori Suzuki 🍺 11:06

ISSHA-1484



mybot APP 11:06

ISSHA-1484 bot: amesh command

Assignee

takanory

Status

オープン

Search issues

```
@respond_to('jira (.*)')
def jira_search(message, keywords):
    # make JQL query string
    jql = f'project=ISSHA and text ~ "{keywords}" order by crea
    text = ''
    # get 5 recent issues
    for issue in jira.search_issues(jql, maxResults=5):
        . . .
```

- see: [2.1.5 Searching](#)
- JQL: JIRA Query Language
- see: [Advanced searching - Atlassian Documentation](#)



Takanori Suzuki 🍺 19:31

\$jira pycon apac



mybot APP 19:31

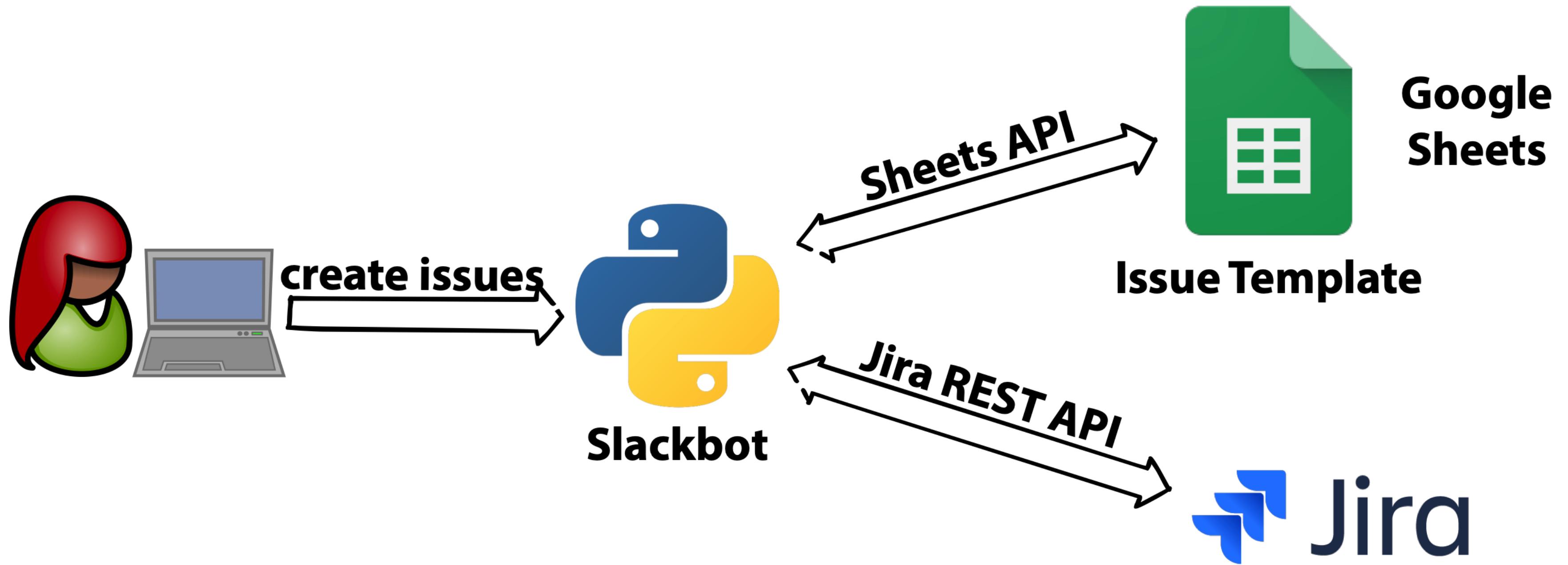
- [ISSHA-1549 OSC沖縄申込み](#)
- [ISSHA-1457 運営会議#26 \(2018年12月\) の準備](#)
- [ISSHA-1301 PyCon JP 2019 座長募集を行う](#)
- [ISSHA-1031 PyCon APAC 2018 シンガポール参加ツアーの段取り](#)
- [ISSHA-1024 一般社団法人PyCon JPの2017年の会計について報告する](#)

Create multiple issues from a template

Create multiple issues from a template

- Motivation
 - In pycamp event, **20+ issues** are required for each event
 - It is very painful for me to **copy issues** manually
 - JIRA Web is **very heavy**(again)

System Overview



Google Authorization is VERY Complex(1/2)

- create Google Cloud Platform project
 - enable API(in this case: Google Sheets API)
 - download credentials.json
- Install Google Client Library

```
(env) $ pip install google-api-python-client \
          google-auth-oauthlib
```

:

```
Successfully installed cachetools-3.1.1 google-api-python-clien
```

```
(env) $ pip list | grep google
google-api-python-client 1.7.9
google-auth              1.6.3
```

Google Authorization is VERY Complex(2/2)

- download quickstart.py
 - [quickstart.py on GitHub](#)
- run quickstart.py
 - select your Google account in Web browser
 - Click the Accept button
 - get token.pickle file(finish!!)

```
(env) $ python quickstart.py
Please visit this URL to authorize this application: https://ad
Name, Major:
Alexandra, English
:
Will, Math
```

- see: [Python Quickstart | Sheets API | Google Developers](#)

Get Spreadsheet Data

```
from googleapiclient.discovery import build  
SHEET_ID = '1LETpNewhAFSXXXXXXXXXXXX'  
  
creds = None  
if os.path.exists('token.pickle'):  
    with open('token.pickle', 'rb') as token:  
        creds = pickle.load(token)
```

- see: [Method: spreadsheets.values.get](#)

Create JIRA Issue

```
duedate = datetime.date.today + datetime.timedelta(days + 14)
issue_dict = {
    'project': {'key': PROJECT},
    'components': [{name: COMPONENT}],
    'summary': SUMMARY_TEXT,
    'description': LONG_DESCRIPTION,
    'assignee': {'name': NAME_OF_ASSIGNEE},
```

- see: [2.1.3 Issues](#)

Sample of template command

- `$pycamp create`: Create issues for pycamp event

Place **Target date** **Staff name**

 **Tomohiro Kobayashi** 21:58
\$pycamp create 和歌山 4/20 kobatomo ottidododo massa142

 **pyconjpbot APP** 22:00
チケットを作成しました: <https://pyconjp.atlassian.net/browse/ISSHA-1521>

Bot created parent issue

pycampチケットテンプレート

ファイル 編集 表示 挿入 表示形式 データ ツール アドオン ヘルプ 最終編集: 2018年11月27日 (Ryuji Tsutsui さん)

Due date

Due date				
Category	Assignee	Summary	Description	
カテゴリー	担当者	日付	タイトル	本文
1.事前準備	コアスタッフ	-30	connpassイベント公開(現地スタッフ)	<p>h2. 目的</p> <ul style="list-style-type: none"> * 参加者を募るために、イベント本体、懇親会のconnpassイベントを作成して公開する * イベント開催の一ヶ月前くらいには公開したい <p>h2. 内容</p> <ul style="list-style-type: none"> * connpassイベントを過去イベントからコピーしてベースを作成(コアスタッフが実施) ** タイトルを変更する ** 日時を変更する ** 参加人数を消す ** 場所を未設定状態にする ** ロゴ画像を削除する ** アンケートを過去イベントからコピーする * 現地スタッフは以下を記述 ** ロゴ設定 ** 会場設定 ** 説明文の修正(場所、講師など) * 公開前にコアスタッフに内容のレビュー依頼をSlackでする * 公開のタイミングは平日の昼間が狙い目（多くの人に見てもらえる） * 懇親会のconnpassは場所未定で公開でもOKです。公開後に早めに場所を決めてください <p>以下、イベント公開に関するマニュアルも参照してください。 http://bootcamp-text.readthedocs.io/organize/1_manual.html#id8</p>
1.事前準備	講師	-30	ホテル、移動の手配(講師)	<p>h2. 目的</p> <ul style="list-style-type: none"> * 現地往復の交通手段を事前に予約する * ホテルの予約をする <p>h2. 内容</p> <ul style="list-style-type: none"> * 予約した内容と金額の記載をする * 支払いは、Python Boot Camp 終了後に別チケットで行います
1.事前準備	コアスタッフ	-21	事前打ち合わせ(主: コアスタッフ)	<p>h2. 目的</p> <ul style="list-style-type: none"> * 現地スタッフ、コアスタッフ、講師のやること認識合わせのために事前打ち合わせを実施する * Slack の Call を使う想定 <p>h2. 内容</p> <ul style="list-style-type: none"> * pyconjp-fellow.slack.comに#地域名（県単位）のチャンネルを作っておく * 作ったらpyconjp.slack.comの#pycampで現地スタッフ・TA・講師に報告する

Python Boot Camp in 和歌山を開催

[編集](#) [コメント](#) [割り当て](#) [処理中止](#) [課題の解決](#) [課題のクローズ](#) [管理 ▾](#)

タイプ: タスク ステータス: [進行中 \(ワークフローを表示\)](#)
 優先度: 重度 解決状況: 未解決
 コンポーネント: [Python Boot Camp](#)
 ラベル: なし

説明

目的

- Python Boot Camp in 和歌山を開催するのに必要なタスクとか情報をまとめる親タスク

内容

- 日時: 2019-04-20(Sat)
- 会場: T-LABO
- 現地スタッフ: 落合大輔
- 講師: [Masataka Arai](#)
- TA: 堀口日向, Shimasan
- イベントconnpass: <https://pyconjp.connpass.com/event/120116/>
- 懇親会connpass: <https://pyconjp.connpass.com/event/120117/>

JIRAの使い方については以下マニュアルを参照してください。

http://bootcamp-text.readthedocs.io/organize/_1_manual.html#id28

1.事前準備

- [ISSHA-1522](#) [CLOSED](#) connpassイベント公開(現地スタッフ)
- [ISSHA-1523](#) [OPEN](#) ホテル、移動の手配(講師)
- [ISSHA-1524](#) [IN PROGRESS](#) 事前打ち合わせ(主: コアスタッフ)

2.広報

- [ISSHA-1525](#) [CLOSED](#) 事前ブログ執筆(現地スタッフ)
- [ISSHA-1526](#) [IN PROGRESS](#) メディアスポンサー経由での告知(コアスタッフ)
- [ISSHA-1527](#) [CLOSED](#) Twitter定期通知(コアスタッフ)
- [ISSHA-1528](#) [IN PROGRESS](#) 現地メディア経由での告知(現地スタッフ)

3.イベント直前、当日

- [ISSHA-1529](#) [OPEN](#) 参加者への事前連絡(現地スタッフ)
- [ISSHA-1530](#) [OPEN](#) お茶、お菓子購入(現地スタッフ)
- [ISSHA-1531](#) [OPEN](#) 案内スライド作成(現地スタッフ)
- [ISSHA-1532](#) [OPEN](#) 座席表作成、印刷(現地スタッフ)
- [ISSHA-1533](#) [IN PROGRESS](#) ランチミーティング(主: 現地スタッフ)
- [ISSHA-1534](#) [OPEN](#) 参加者アンケート実施(現地スタッフ)

4.事後処理

- [ISSHA-1535](#) [OPEN](#) 精算処理(現地スタッフ)
- [ISSHA-1536](#) [OPEN](#) 精算処理(講師)
- [ISSHA-1537](#) [OPEN](#) 事後ブログ(現地スタッフ)

Source code of pycamp command

- see: <https://github.com/pyconjp/pyconjpbot/blob/master/pyconjpbot/plugins/pycamp.py>

I never have to copy issues again

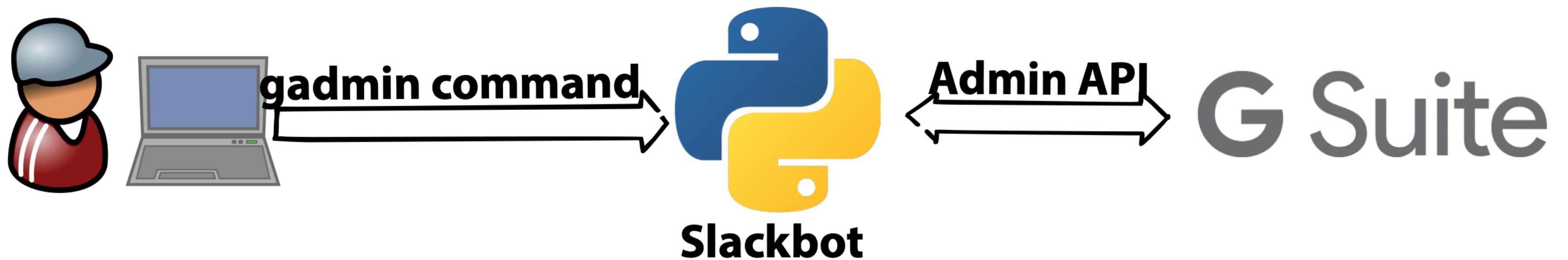


Account management of G Suite

Account management of G Suite

- Motivation
 - PyCon JP use pycon.jp domain with G Suite
 - I only use Google Admin web occasionally
 - I forgot to use admin screen

System Overview



Update Google Authorization

- update Google Cloud Platform project
 - add G Suite Admin API
 - re-download credentials.json
- re-run quickstart.py
 - get new token.pickle

```
(env) $ python quickstart.py
Please visit this URL to authorize this application: https://ad
Name, Major:
Alexandra, English
:
Will, Math
```

Get user list

```
# build service
DOMAIN = 'pycon.jp'
service = build('admin', 'directory_v1', credentials=creds)

# get user list
users_list = service.users().list(orderBy='email', domain=DOMAI
for user in users_list.get('users', []):
    print(user['name'])
```

- see: [Users: list | Directory API](#)

Insert user

```
body = {  
    'primaryEmail': EMAIL_ADDRESS,  
    'password': PASSWORD,  
    'name': {  
        'givenName': FIRST_NAME,  
        'familyName': LAST_NAME,  
    },
```

- see: [Users: insert | Directory API](#)

Suspend, Resume, Delete user

```
suspend = {'suspended': True}  
service.users().update(userKey=EMAIL, body=suspend).execute()  
  
resume = {'suspended': False}  
service.users().update(userKey=EMAIL, body=resume).execute()  
  
service.users().delete(userKey=email).execute()
```

- see: [Users: update | Directory API](#)
- see: [Users: delete | Directory API](#)



Takanori Suzuki 🍺 11:25

\$gadmin help



pyconjpbot APP 11:25

ユーザー管理

- `$gadmin user list`: ユーザーの一覧を返す
- `$gadmin user insert (ユーザー) (名前) (名字)`: ユーザーを追加する
- `$gadmin user delete (ユーザー)`: ユーザーを削除する(停止中のみ削除可)
- `$gadmin user reset (ユーザー)`: ユーザーのパスワードをリセットする
- `$gadmin user suspend (ユーザー)`: ユーザーを停止する(停止中にする)
- `$gadmin user resume (ユーザー)`: ユーザーを再開する(アクティブにする)

メールのエイリアス管理

- `$gadmin alias list (ユーザ)`: ユーザーのエイリアスの一覧を返す
- `$gadmin alias insert (ユーザ) (エイリアス)`: ユーザーにエイリアスを追加する
- `$gadmin alias delete (ユーザ) (エイリアス)`: ユーザーからエイリアスを削除する

グループ管理

- `$gadmin group list`: グループの一覧を返す
- `$gadmin group insert (グループ) (グループ名)`: 指定したグループを追加する
- `$gadmin group delete (グループ)`: 指定したグループを削除する

グループのメンバー管理

- `$gadmin member list (グループ)`: 指定したグループのメンバー一覧を返す
- `$gadmin member insert (グループ) (メール1) [(メール2...)]`: 指定したグループにメンバーを追加する
- `$gadmin member delete (グループ) (メール1) [(メール2...)]`: 指定したグループからメンバーを削除する

Takanori Suzuki 🍺 11:27
\$gadmin user list



pyconjpbot APP 11:27

pycon.jp ドメインのユーザー一覧(39ユーザー)

- 2015@pycon.jp PyCon JP 2015事務局
- 2016@pycon.jp PyCon JP 2016
- 2017@pycon.jp PyCon JP 2017
- association@pycon.jp 一般社団法人会計
- event@pycon.jp イベント会計
- pycon.jp user admin
- ai@pycon.jp Ai
- aron.jp Masataka
- jp@pycon.jp JP P
- ha@pycon.jp YOSHIMOTO SHIMOTO
- iai@pycon.jp la
- iq@pycon.jp Iqbal A
- kii@pycon.jp Makoto
- kiyoshi@pycon.jp Fumiaki
- ko@pycon.jp Tomohiro Kobayashi
- koto@pycon.jp Kaori
- m@pycon.jp Mami
- manami@pycon.jp Manami
- miyuu@pycon.jp Ryuu
- m@pycon.jp メディア
- pr@pycon.jp プロ
- py@pycon.jp Book
- py@pycon.jp python
- ry@pycon.jp Ichiro Kamiya
- shizuka@pycon.jp Shimizukawa
- sotaro@pycon.jp Sotaro
- su@pycon.jp Suyako
- sy@pycon.jp Aoi
- syn@pycon.jp V
- sy@pycon.jp Shu
- ta@pycon.jp Tak
- te@pycon.jp Yuya
- te@pycon.jp Mana
- ts@pycon.jp Mamiko
- t@pycon.jp Takanori



Takanori Suzuki 🍺 11:30

\$gadmin group list



pyconjpbot APP 11:30

pycon.jp ドメインのグループ一覧(21グループ)
- 20 [REDACTED]@pycon.jp 2015グループ(2ユーザー)
- 20 [REDACTED]@pycon.jp 2016グループ(9ユーザー)
- 20 [REDACTED]@pycon.jp 2017グループ(6ユーザー)
- 20 [REDACTED]day-staff@pycon.jp 2018当日スタッフDocs権限用(16ユーザー)
- 20 [REDACTED]staff@pycon.jp 2019コアスタッフDocs権限用(11ユーザー)
- acc [REDACTED]min@pycon.jp 一般社団法人会計責任者グループ(2ユーザー)
- acc [REDACTED]ociation-group@pycon.jp 一般社団法人会計用グループアドレス(5ユーザー)
- acc [REDACTED]ent-group@pycon.jp イベント会計用グループアドレス(3ユーザー)
- app [REDACTED]on.jp AppleDeveloperProgram管理(2ユーザー)
- boar [REDACTED]on.jp 法人理事会(7ユーザー)
- cor [REDACTED]up@pycon.jp contactグループ(4ユーザー)
- des [REDACTED]on.jp デザイン(5ユーザー)
- hiro [REDACTED]pycon.jp PyCon mini Hiroshima(1ユーザー)
- ma [REDACTED]it-group@pycon.jp 事務局グループ(8ユーザー)
- me [REDACTED]o@pycon.jp メディアグループ(6ユーザー)
- pro [REDACTED]oup@pycon.jp プログラムグループ(6ユーザー)
- pycamp-[REDACTED]@pycon.jp Python Boot Camp(4ユーザー)
- pycc [REDACTED]up@pycon.jp pyconjp@pycon.jp の転送用グループ(3ユーザー)
- spor [REDACTED]up@pycon.jp スポンサーグループ(4ユーザー)
- sym [REDACTED]group@pycon.jp 2016(以降)のWebsiteのアラート送付先(4ユーザー)
- venu [REDACTED]@pycon.jp 会場グループ(15ユーザー)



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\$gadmin member list pycamp-[REDACTED]



pyconjpbot APP 11:30

pycamp-[REDACTED]@pycon.jp グループのメンバー(4ユーザー)
- ko [REDACTED]@pycon.jp
- o6z [REDACTED]@pyconjp.slack.com
- ry [REDACTED]@gmail.com
- tak [REDACTED]@pycon.jp

I can completely forget Google Admin web site



Source code of gadmin command

- see:
https://github.com/pyconjp/pyconjpbot/blob/master/pyconjpbot/google_plugins/gadmin.py

Summary

- Incoming Webhooks
- Slackbot
- Slackbot with Libraries
- Slackbot with APIs

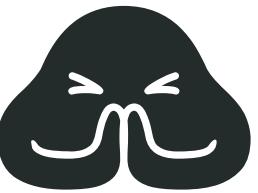
Next steps

- Let's make **your own Slackbot**
- Let's connect with libraries and APIs
- Automate your Boring Stuff with Slackbot

Slide URL

- <https://gitpitch.com/takanory/slides?p=20190615pyconth>

Thank you!



Question?