



Piscine 101

Python 03

Summary: This document is the subject for the PYTHON module 03 of the Piscine 101 @ 42Tokyo.

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Chapter I

Instructions

- Only this page will serve as reference; do not trust rumors.
- Watch out! This document could potentially change up to an hour before submission.
- Make sure you have the appropriate permissions on your files and directories.
- You have to follow the submission procedures for every exercise.
- Your exercises will be checked and graded by your fellow classmates.
- These exercises are carefully laid out by order of difficulty - from easiest to hardest.
- You cannot leave any additional file in your directory than those specified in the subject.
- Your reference guide is called `Google / man / the Internet /`
- Examine the examples thoroughly. They could very well call for details that are not explicitly mentioned in the subject...
- If no other explicit information is displayed, you must assume the following versions of languages : `Python - python3.9.0`.
- Catch every exceptions.
- Each exercises must be done using `venv`.

```
?>python3 -m venv myenv  
?>source myenv/bin/activate
```

- You should use `guacamole.42tokyo.jp` to validate exercises.


Chapter II

Foreword

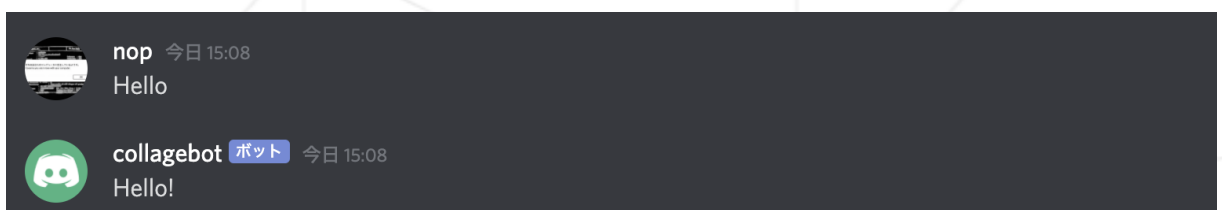
Bible: `https://discordpy.readthedocs.io/en/latest/`

Chapter III

Exercise 00 : my first discordbot


	Exercise 00
my first discordbot	
Turn-in directory : <i>ex00/</i>	
Files to turn in : <code>requirements.txt</code> , <code>discordbot.py</code>	
Allowed functions : <code>discord.py</code>	

- Setup venv for this exercise. (Check Instructions)
- Install necessary package using pip.
- Use the command 'pip freeze' to save the package info inside `requirements.txt`
- Create your own discord server.
- Create a discord bot which reply 'Hello!' When someone type 'Hello'.
- You are free to name your bot as you like.

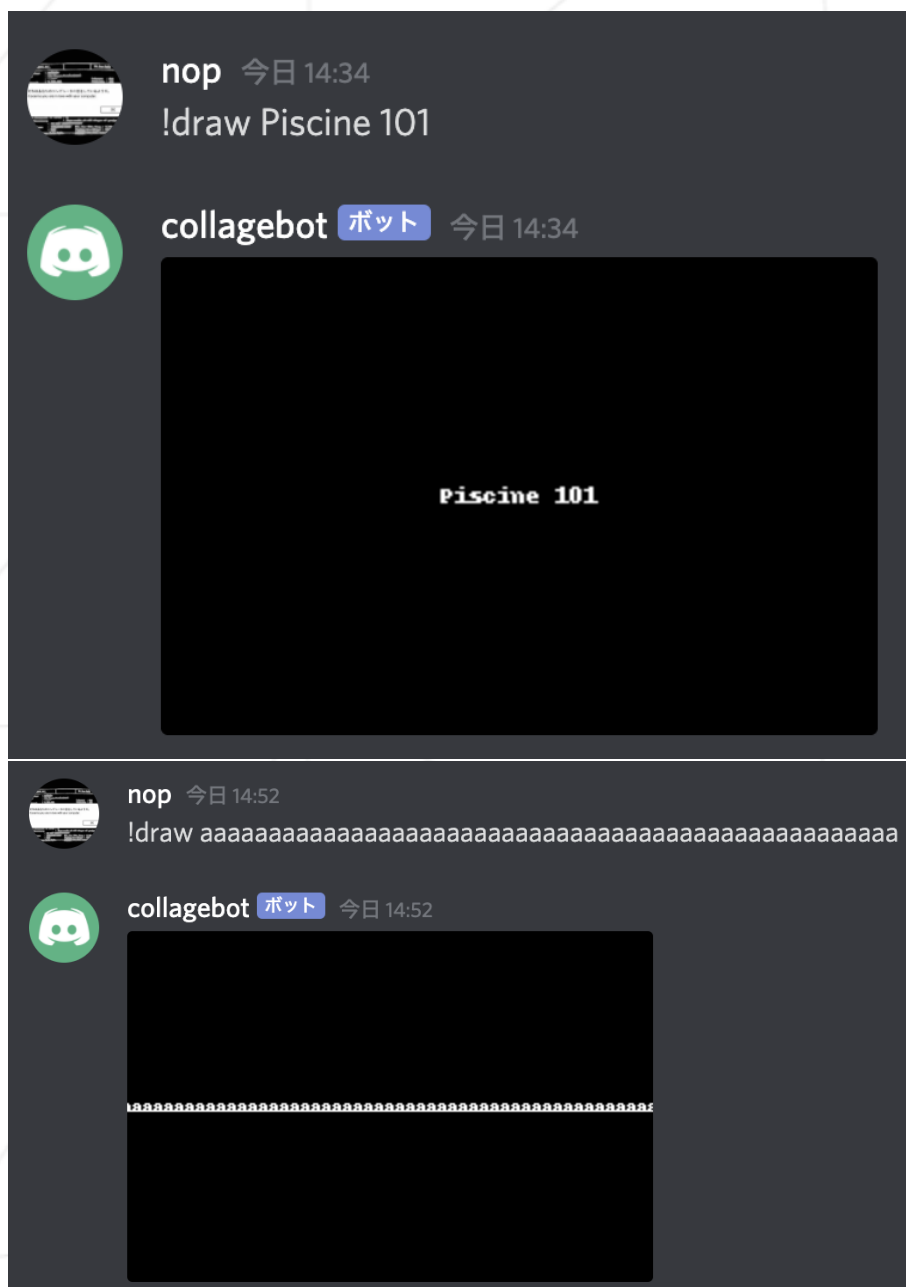


Chapter IV

Exercise 01 : Collage bot v1


	Exercise 01
Collage bot v1	
Turn-in directory : <i>ex01/</i>	
Files to turn in : <code>requirements.txt</code> , <code>discordbot.py</code>	
Allowed functions : <code>discord.py</code> , <code>Pillow(PIL)</code>	

- Setup venv for this exercise.
- Install necessary package using pip.
- Use the command 'pip freeze' to save the package info inside `requirements.txt`
- Use the previously created discord server.
- Create a bot which implement these features below.
- Create '!draw' command which behave as the examples below.
- Text doesn't need to be centered on the image.

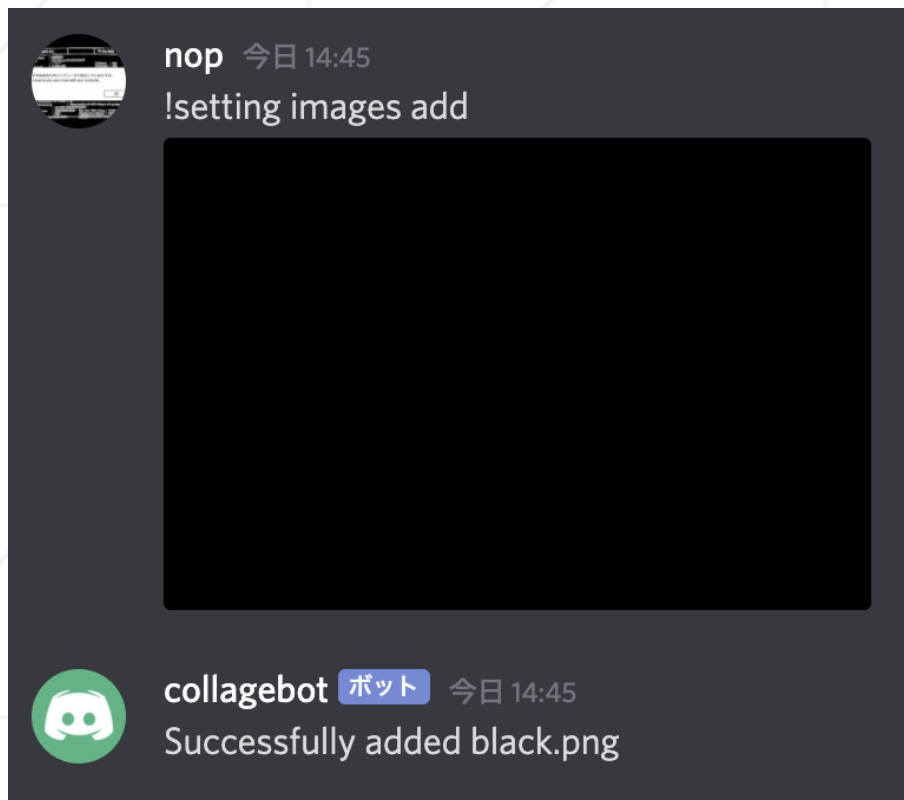


Chapter V

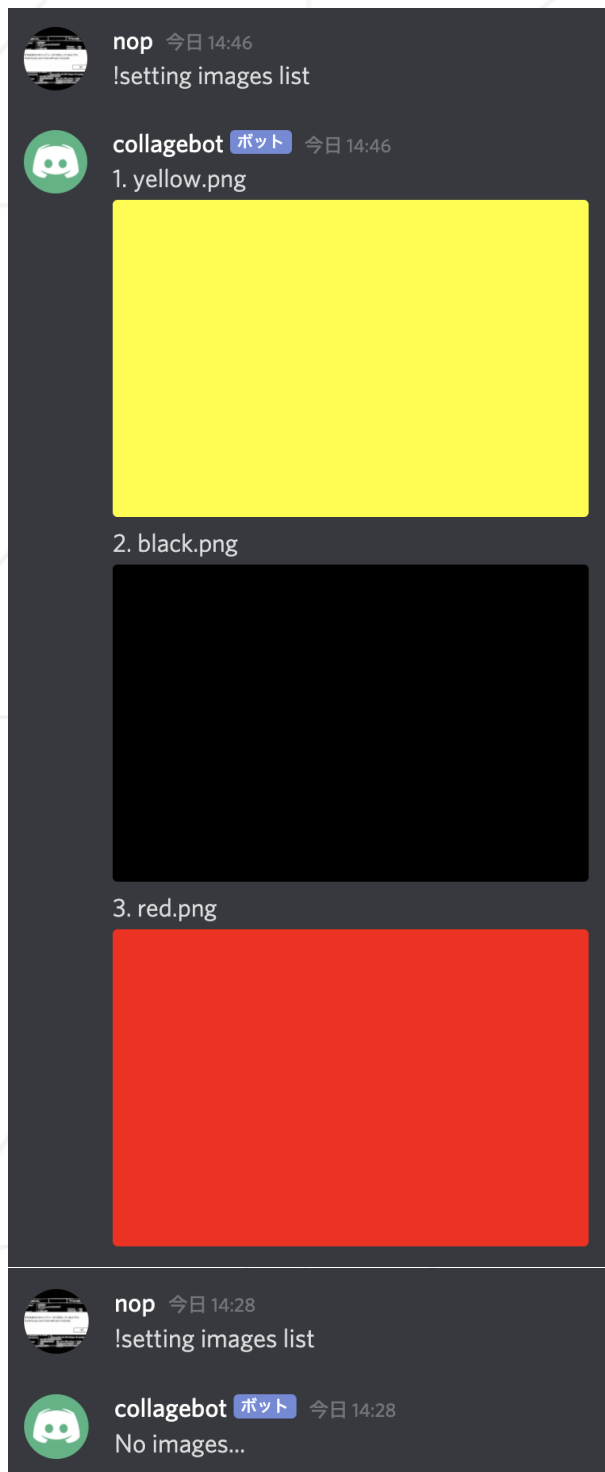
Exercise 02 : Collage bot v2

	Exercise 02
	Collage bot v2
	Turn-in directory : <i>ex02/</i>
	Files to turn in : requirements.txt , discordbot.py
	Allowed functions : discord.py , Pillow(PIL)

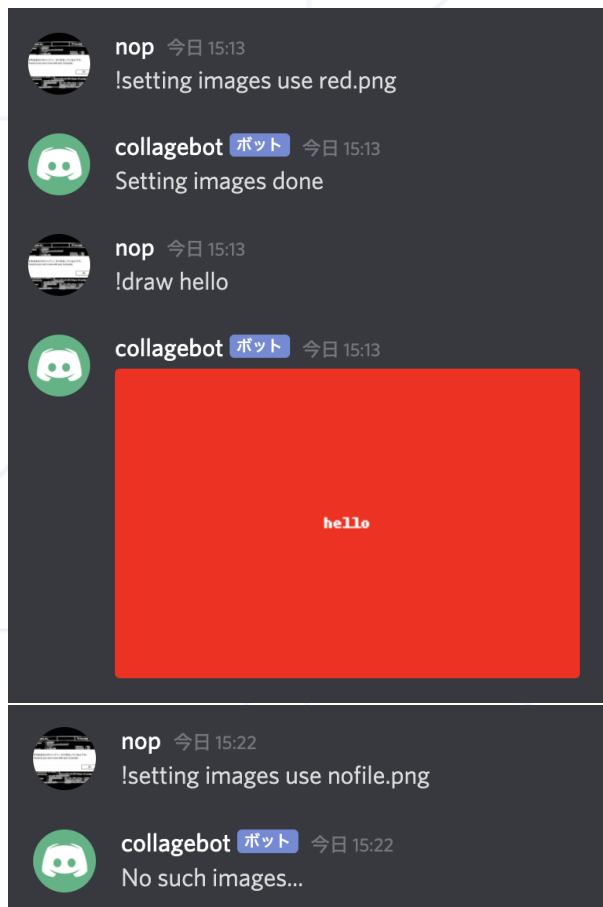
- Setup venv for this exercise.
- Install necessary package using pip.
- Use the command 'pip freeze' to save the package info inside **requirements.txt**
- Use the previously created discord server.
- Use the previously created bot from Exercise 01.
- Create '!setting images add' command which behave as the examples below.



- Create '!setting images list' command which behave as the examples below.




- Create '!setting images use <filename>' command which behave as the examples below.



Chapter VI

Bonus: Collage bot v3

	Exercise 03
	Collage bot v3
	Turn-in directory : <i>ex03/</i>
	Files to turn in : requirements.txt , discordbot.py
	Allowed functions : *

- Setup venv for this exercise.
- Install necessary package using pip.
- Use the command 'pip freeze' to save the package info inside **requirements.txt**
- Use the previously created discord server.
- Use the previously created bot from Exercise 02.
- Apppend some useful command to that bot.
- Be Creative.

Some example:

- '!help' command.
- Command to add font.
- Command to change text position.
- Enable to use japanese font.

