



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.
- These exercises are carefully laid out by order of difficulty - from easiest to hardest. We will **not** take into account a successfully completed harder exercise if an easier one is not perfectly functional.
- 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.
- On top of that, your exercises will be checked and graded by a program called Moulinette.
- Moulinette is very meticulous and strict in its evaluation of your work. It is entirely automated and there is no way to negotiate with it. So if you want to avoid bad surprises, be as thorough as possible.
- Exercises in Shell must be executable with `/bin/sh`.
- You cannot leave any additional file in your directory than those specified in the subject.
- Got a question? Ask your peer on the right. Otherwise, try your peer on the left.
- 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 - python3.8.2`.
- Catch every exceptions.
- Each exercises must be done using `virtualenv`.

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


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 : requirements.txt , discordbot.py
	Allowed functions : discord.py

- Setup virtualenv for this exercise.
- Install necessary package using pip.
- 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.

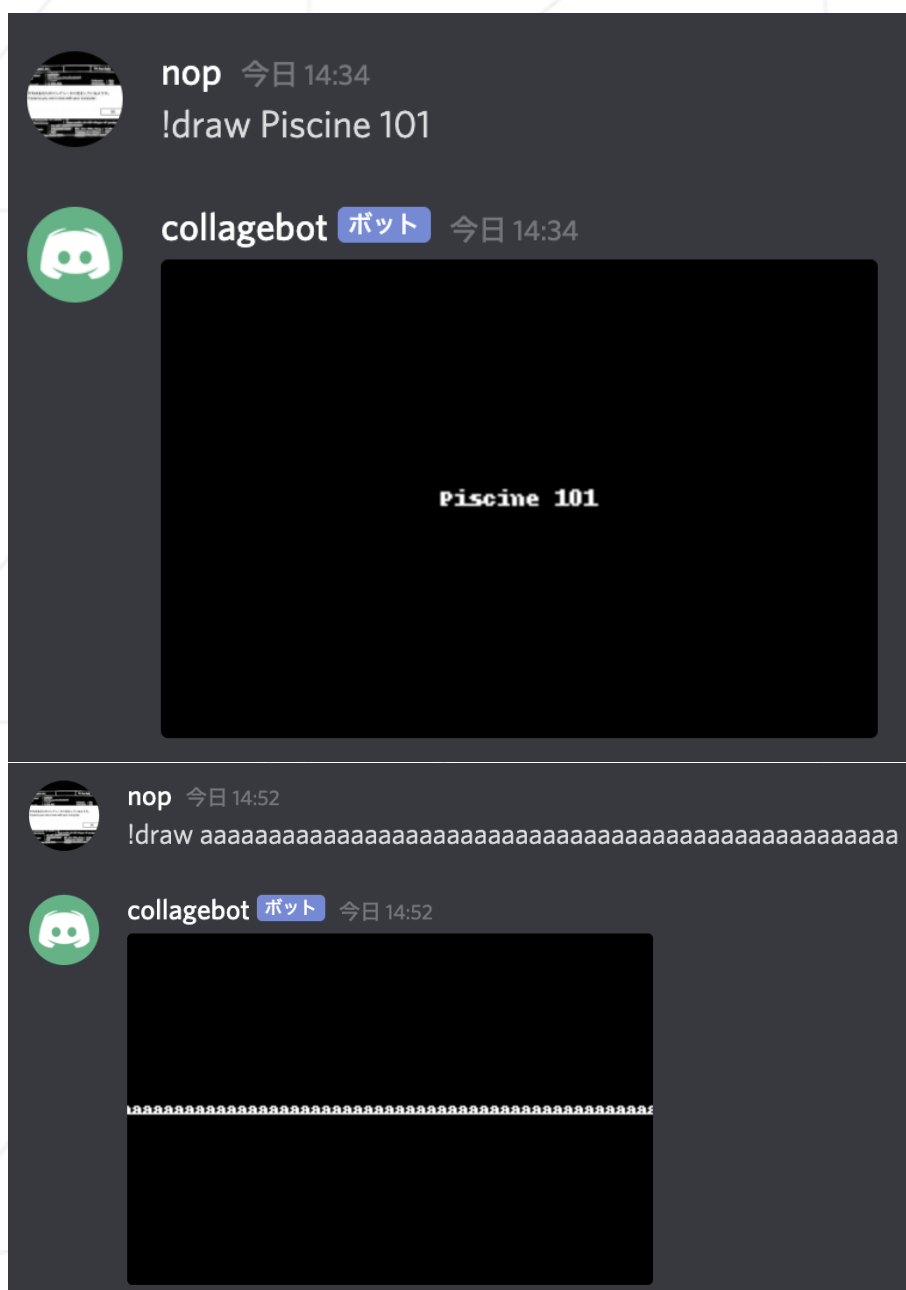


Chapter IV

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</code>

- Setup virtualenv for this exercise.
- Install necessary package using pip.
- Use the previously created discord server.
- Create '!draw' command which behave as the examples below.
- Text doesn't need to be centered on the image.

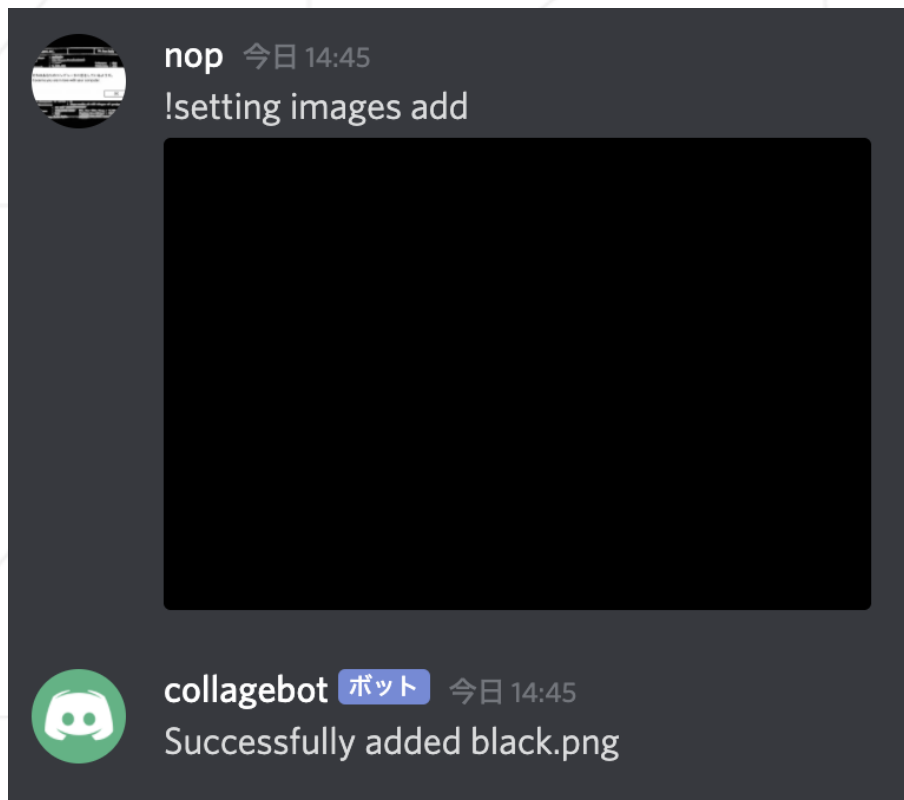


Chapter V

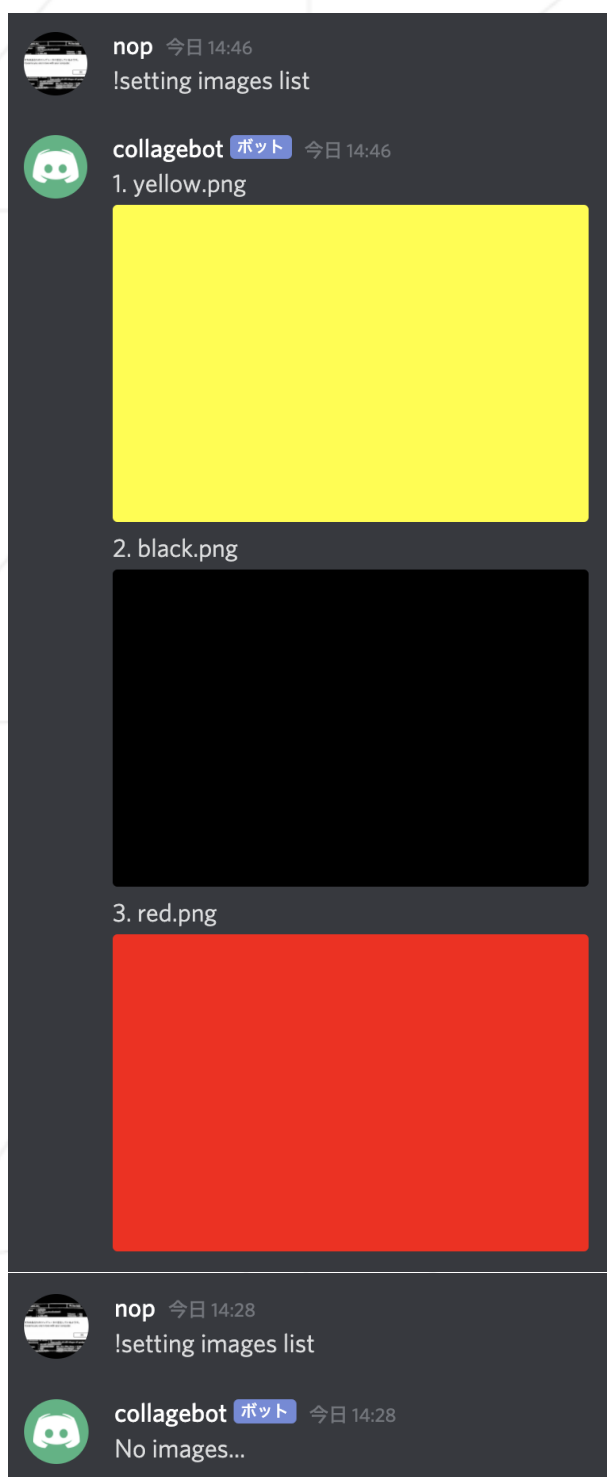
Exercise 02 : Collage bot v2

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

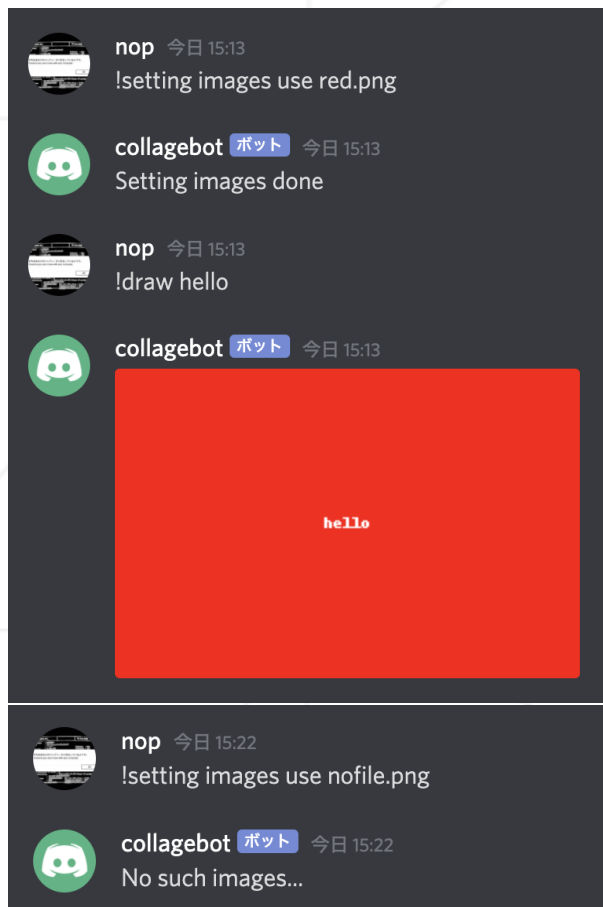
- Setup virtualenv for this exercise.
- Install necessary package using pip.
- Use the previously created discord server.
- Use the previously created bot.
- Create '!setting images add' command which behave as the examples below.



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




- Create '!settings 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 virtualenv for this exercise.
- Install necessary package using pip.
- Use the previously created discord server.
- Use the previously created bot.
- 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.

