



# Road to Mercari

## Gopher Dojo module 00

*Summary: This document is the subject for the Gopher Dojo module 00 of the Road to Mercari @ 42 Tokyo.*

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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.
- 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 : `Go - 1.16.3`.


# Chapter II

## Foreword

<https://gopherdojo.org/>

# Chapter III

## Exercise 00 : Image conversion command

	Exercise 00
jpg -> png	
Turn-in directory : <i>ex00/</i>	
Files to turn in : *	

Create an image conversion command that meets the following specifications.

- To convert JPG files in a specified directory (including subdirectories) to PNG.
- The directory should be taken from the command line arguments.
- Refer to the example and make sure you get the same output.

Example


```
?> go mod tidy
?> go build
?> ./convert
error: invalid argument
?> ./convert nosuchdirectory
error: nosuchdirectory: no such file or directory
?> ls -l images
42tokyo_logo.jpg
profile_photo.jpg
?> ./convert images
?> ls -l images
42tokyo_logo.jpg
42tokyo_logo.png
profile_photo.jpg
profile_photo.png
?> echo 'aaa' > images/test.txt
?> ls -l images
42tokyo_logo.jpg
42tokyo_logo.png
profile_photo.jpg
profile_photo.png
test.txt
?> ./convert images
error: images/test.txt is not a valid file
```

- Your package should be separated from the main package.

- Use only self-created packages, standard packages, and semi-standard packages. (Semi-standard packages: packages under [golang.org/x](https://golang.org/x))
- Create a user-defined type.
- Create a GoDoc.
- Use Go Modules.

# Chapter IV

## Exercise 00 : Bonus

	Exercise 00
? -> ?	
Turn-in directory : <i>ex00/</i>	
Files to turn in : *	

Add the following functions to the image conversion command created in the previous question.

- Implement a feature which enable to specify the image format before and after conversion.

Example

```
?> ls -l images
42tokyo_logo.png
profile_photo.png
?> ./convert -i=png -o=jpg images
?> ls -l images
42tokyo_logo.jpg
42tokyo_logo.png
profile_photo.jpg
profile_photo.png
```

- Add other useful feature.