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Contents:

1 Heading to Sphinx and Read the Docs **1**
- 1.1 Background . . . 1
- 1.2 Preparations . . . 1
- 1.3 Steps . . . 2

2 Working with Sphinx **3**
- 2.1 Change a Theme . . . 3
- 2.2 Add a Logo Image . . . 3
- 2.3 Insert a Table . . . 4
- 2.4 Insert an Image . . . 4

3 Working with Read the Docs **5**
- 3.1 Multi-version . . . 5
- 3.2 Multi-language for Localization . . . 5

4 Working with Git **7**
- 4.1 Commit Changes to A New Branch . . . 7
- 4.2 Merge Changes into the Master Branch . . . 7

5 Cooking **9**
- 5.1 Breakfast . . . 9
- 5.2 Lunch/Dinner . . . 12

Index **19**

CHAPTER 1

Heading to Sphinx and Read the Docs

Note: This page is only used to document the information I gathered and the process I went through when I did pratices on Git, ReadtheDocs, and Sphinx.

1.1 Background

Treating documentation as code is becoming a major theme in the software industry.

The following advanced tools and platforms are widely used by both developers and technical writers.

- Sphinx provides a documentation generator that is best-in-class for software docs. Sphinx documents are written in the reStructuredText markup language. reStructuredText is a powerful language primarily because the syntax can be extended.
- Read the Docs is a hosting platform for Sphinx-generated documentation. It takes the power of Sphinx and adds version control, full-text search, and other useful features. It pulls down code and doc files from Git, Mercurial, or Subversion, then builds and hosts your documentation.
- GitHub is a code hosting platform for version control and collaboration.

1.2 Preparations

- Run **python-3.7.5-amd64.exe** to install Python 3.7.5
- Run `pip install -U Sphinx` in the command prompt to install Sphinx
- Run **Sublime Text Build 3211 x64 Setup.exe** to install Sublime
- Run **Git-2.25.0-64-bit.exe** to install Git
- Create an account in Read the Docs and Github

1.3 Steps

1. Run `$ sphinx-quickstart` in the command prompt to build a directory for Sphinx output.
2. Enrich the master file index.rst and other source files by using Sublime.

> **Tip:** To learn more Sphinx syntax, refer to https://www.sphinx-doc.org/en/master/usage/restructuredtext/index.html.

3. Create an open-source repo in Github.
4. Commit the local directory and files to your Github Repo by running the following commands in Git Bash.
   - Verify Identity: `$ git config --global user.email "registered email address"`
   - Verify Identity: `$ git config --global user.name "registered user ID"`
   - Connect to Github Repo: `$ git remote add origin https://github.com/"UserID"/"RepoID".git`
   - Create a Pull Request and Merge: `$ git pull origin master --allow-unrelated-histories`
   - Add all files: `$ git add *`
   - Commit all files you added: `$ git commit -m "description"`
   - Push and merge updates: `$ git push -u origin master`
5. Link your GitHub repo to your Read the Docs account.
6. Build and View in Read the Docs.

CHAPTER 2

Working with Sphinx

2.1 Change a Theme

1. Run `pip install sphinx_rtd_theme` to install the *Read The Docs* theme.
2. In the **conf.py** file, add `html_theme = 'sphinx_rtd_theme'`.

2.2 Add a Logo Image

1. Place the **logo.png** file to the `source/_static` folder.
2. In the **conf.py** file:

- Add `html_logo = './_static/logo.png'`.
- Add the following argument:

```
html_theme_options = {

'canonical_url': '',
'analytics_id': 'UA-XXXXXXX-1', #  Provided by Google in your dashboard
'logo_only': True,                              #  Set as "True" to display logo only
'display_version': True,
'prev_next_buttons_location': 'bottom',
'style_external_links': False,
'vcs_pageview_mode': 'raw',
'style_nav_header_background': '#2980B9',
'collapse_navigation': True,
'sticky_navigation': False,
'navigation_depth': 4,
'includehidden': True,
'titles_only': False

}
```

2.3 Insert a Table

2.3.1 Input

```
========= ================================== ===========
Header A  Header B                           Header C
========= ================================== ===========
A1        B1                                 C1
A2        B2                                 C2
========= ================================== ===========
```

2.3.2 Result

Header A	Header B	Header C
A1	B1	C1
A2	B2	C2

2.4 Insert an Image

1. Place the **picture.jpg** file to the `source/_static` folder.
2. Add `.. image:: /_static/picture.jpg` in the rst file.

CHAPTER 3

Working with Read the Docs

3.1 Multi-version

1. Create a new branch for your project on Github.
2. On the Versions tab of RTD, activate the new version (synced from Github).
3. Build the new version.

3.2 Multi-language for Localization

3.2.1 Step 1 Create Translatable Files

Run `$ sphinx-build -b gettext . _build/gettext` in the **source/** directory to create **pot** files.

3.2.2 Step 2 Translate Text from Source Language

1. Run `$ pip install-intl` to install the **sphinx-intl** tool.
2. Run `$ sphinx-intl update -p _build/gettext -l ja_JP` to generate a directory structure like below:

```
locale
├── ja_JP
│   └── LC_MESSAGES
│       └── index.po
```

Then open those **.po** files with a text editor and translate the content in the **msgstr** argument.

3.2.3 Step 3 Build the Documentation in Target Language

#. Run `$ sphinx-build -b html -D language=ja_JP . _build/html/ja_JP` to build the documentation in Japanese. #.

Reference:

- https://docs.readthedocs.io/en/stable/guides/manage-translations.html
- https://docs.readthedocs.io/en/stable/localization.html
- https://www.icanlocalize.com/site/tutorials/how-to-translate-with-gettext-po-and-pot-files/
- https://www.drupal.org/node/1814954

CHAPTER 4

Working with Git

4.1 Commit Changes to A New Branch

For example, the current branch I'm working on is named **master**, and the other branch is named **stable**.

1. Run `$ git checkout -b stable` to switch to the new branch.
2. Edit files and save.
3. Run `$ git commit <file> -m "sync with master"` to commit a single change to your local repo.
4. Run `$ git push origin stable` to push the change to the new branch on the Github.

4.2 Merge Changes into the Master Branch

The current branch I'm working on is named **stable**.

1. Run `$ git checkout master` to switch to the master branch.
2. Run `$ git merge stable`.

CHAPTER 5

Cooking

5.1 Breakfast

5.1.1 Day 1

- Fried Egg
- Fried Dumpling
- Coffee

5.1.2 Day 2

- Hand-grasping Cake + Pork Luncheon Meat + Scrambled Egg
- Coffee

5.1.3 Day 3

- Sumai
- Steamed Bun
- Coffee

5.2 Lunch/Dinner

5.2.1 Meal 1

- Rice
- Cucumber + Shrimp
- Green Pepper + Egg

5.2.2 Meal 2

- Rice

- Fish Fillet
- Spinach Soup

5.2.3 Meal 3

-
-
-

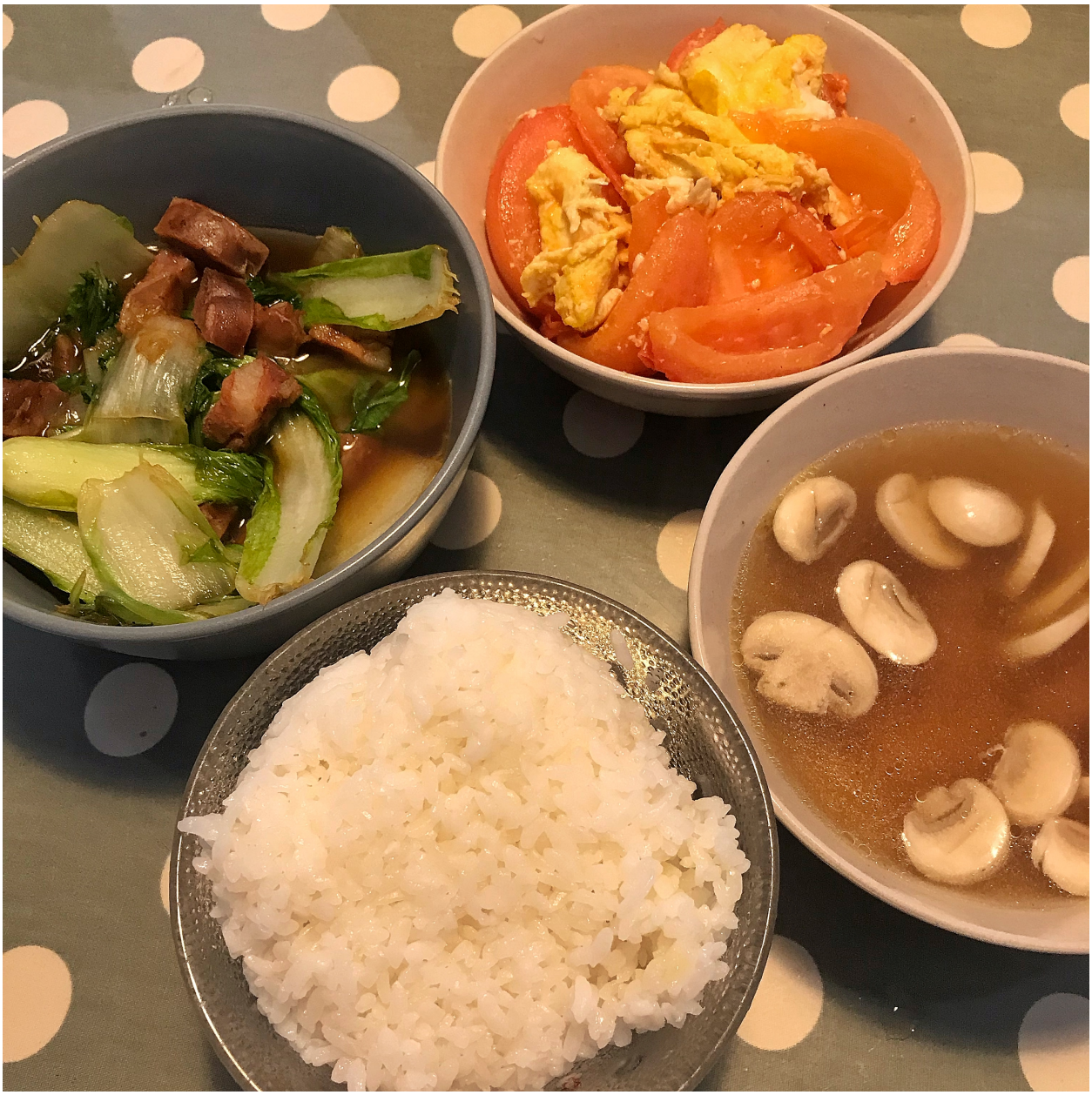
5.2.4 Meal 4

- Rice
- Sausage + Dried Tofu
- Mushroom + Shrimp
- Soup

5.2.5 Meal 5

- Rice
- Tomato + Eggs

- Cabbage + Sausage
- Mushroom Soup

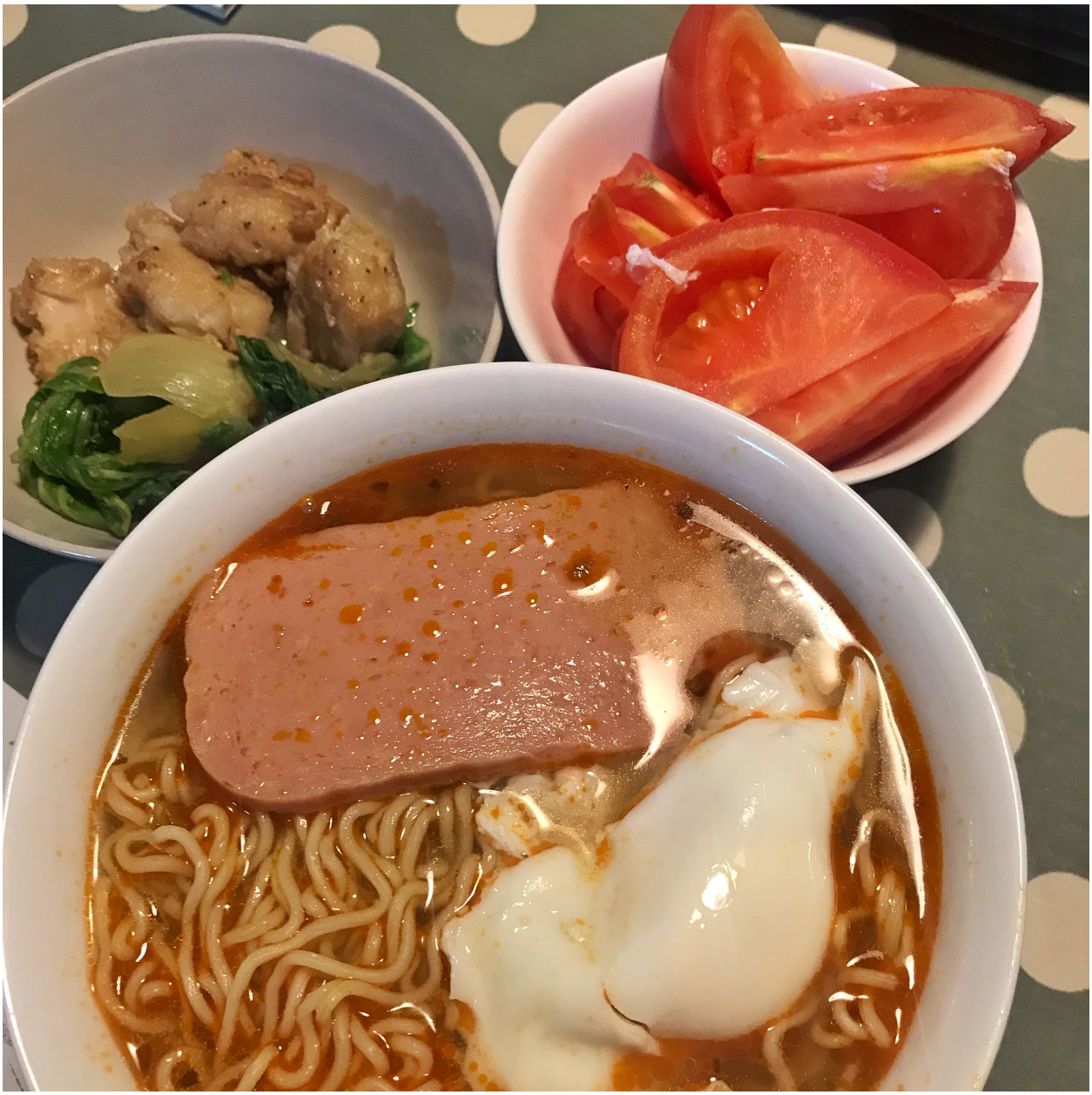


5.2.6 Meal 6

- Noodles
- Green Vegetables
- Pork Luncheon Meat
- Egg

5.2.7 Meal 7

- Noodles
- Tomato + Cabbage
- Pork Luncheon Meat
- Egg



Index

M

menu, 17

W

worklog1, 2
worklog2, 4
worklog3, 6