Directory and file structure

Hans Petter Langtangen^{1,2}

¹Center for Biomedical Computing, Simula Research Laboratory ²Department of Informatics, University of Oslo

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This document describes the file structure of book or thesis projects.

1 Directory structure

We shall outline a directory structure that can be effective when assembling different DocOnce documents into a book. The root directory for all documentation is called doc, with two subdirectories: src for all the DocOnce source code, and pub for compiled (published) documents in various formats. A third subdirectory, web, is often present as an entry point for the web pages on GitHub. This directory typically contains the autogenerated index.html and additional style files on GitHub. The index.html file should have links to published documents in ../pub.

Under src we may have a directory chapters for the individual chapters and a directory book for the assembly into a book. One may also think of more than one book directory if a set of documents (chapters) naturally leads to multiple books. All chapters can then be put in the chapters directory.

Each chapter has a short nickname, say ch2 for simplicity for Chapter 2 (a more descriptive name related to the content is obviously much better!). Figures are placed in subdirectory fig-ch2 and computer code in subdirectory src-ch2. These two latter directories may have subdirectories if desired. We may also include a directory mov-ch2 for video files, exer-ch2 for answers to exercises, etc.

An outline of the directory structure is listed below.

```
doc
src
chapters
ch2
fig-ch2
src-ch2
mov-ch2
exer-ch2
book
pub
chapters
book
```

Under book, we typically have a document book.do.txt for the complete book. This is a file with a lot of # #include "...do.txt" for including the files for the various chapters, see Section 3 for details. Additional files in the book directory include make files for compiling the book, scripts for packing the book for publishing, perhaps an errata document, etc.

2 Newcommands

Files with names newcommands*.tex are by DocOnce treated as files with definition of newcommands for LATEX mathematics. These files must reside in the same directory as the DocOnce source files. However, for a book project, it is common to have one newcommands file shared by all chapters. This file is placed

in doc/src/chapters/newcommands.p.tex and copied to a specific chapter by the make script for that chapter. The extension of the file is .p.tex, indicating that the file has to be *preprocessed* by preprocess prior to being copied. The reason is that one occasionally wants the definitions of the newcommands to depend on the output format (standard IATEX or MathJax). For example, subscripts in mbox font look best with footnotesize font in plain IATEX, while the larger small font is more appropriate for MathJax. We can then put the following definitions in newcommands.p.tex:

```
% #if FORMAT in ("latex", "pdflatex")
% Use footnotesize in subscripts
\newcommand{\subsc}[2]{#1_{\mbox{\footnotesize #2}}}
% #else
% In MathJax, a different construction is used
\newcommand{\subsc}[2]{#1_{\small\mbox{#2}}}
% #endif
```

The make script will then run preprocess on this file, typically

```
preprocess -DFORMAT=pdflatex ../newcommands.p.tex > newcommands.tex
# or
preprocess -DFORMAT=html ../newcommands.p.tex > newcommands.tex
```

DocOnce newcommands are for mathematics only!

Note that newcommands in DocOnce context are only used for mathematics, rendered by LATEX or MathJax. Newcommands for other LATEX constructions (such as section or boxes) should not be used in the DocOnce source code as these are confined to the LATEX format. Use instead Mako functions.

3 Assembling different pieces to a book

Many smaller writings in the DocOnce format can be assembled into a single, large document such as a book or thesis. The recipe for doing this appears below.

3.1 Organization of a chapter

Suppose one chapter) of the book has the nickname ch2 and may hold all text or just include text in other DocOnce files, e.g., part1.do.txt, part2.do.txt, and part3.do.txt. In this latter case, ch2.do.txt has the simple content

```
# #include "part1.do.txt"
# #include "part2.do.txt"
# #include "part3.do.txt"
```

Note that the ch2.do.txt file contains just plain text without any TITLE, AUTHOR, or DATE lines and without any table of contents (TOC) and bibliography (BIBITEM). This property makes ch2.do.txt suitable for being including in other documents like a book. However, to compile ch2.do.txt to a stand-alone document, we normally want a title, an author, a date, and perhaps a table of contents. We also want a bibliography if any of the included files has cite tags. To this end, we create a wrapper file, say main_ch2.do.txt¹, with the content

```
TITLE: Some chapter title
AUTHOR: A. Name Email:somename@someplace.net at Institute One
AUTHOR: A. Two at Institute One & Institute Two
DATE: today

TOC: on

# Externaldocuments: ../ch3/main_ch3, ../ch4/main_ch4

# #include "ch2.do.txt"

====== References =======

BIBFILE: ../papers.pub
```

Recall that DocOnce relies on the Publish software for handling bibliographies. It is easy to import from BibleX to Publish and create a database of references (papers.pub) to get started (but we recommend to continue working with the Publish database directly and collect new items in the papers.pub file as Publish is more flexible than BibleX).

3.2 Figures and source code

As described in Section 1, we recommend to put figures and source codes (to be included in the document) in separate directories. Although such directories could have natural names like fig and src, it will cause trouble if we do not use unique names for these directories, like fig-ch2 and src-ch2. Otherwise, we would need to copy all figures in all pieces into a common fig directory for the book and all source code files into a src directory. With unique names, figures and source code files can always reside in their original locations, and we can easily reach them through links. This will be described next.

¹The prefix main_ is inspired by the main program in computer program: those statements make a program run, like main_ch2.do.txt defines the surroundings of the "library text" ch2.do.txt. We strip off main_ when publishing the files in doc/pub.

3.3 Assembly of chapters to a book

All the files associated with the ch2 document and chapter reside in the ch2 directory. A fundamental principle of DocOnce is to have just one copy of the files ("Document once!"). To include the ch2 text in a larger document like a book, we just need to include the ch2.do.txt file and a chapter heading. Here is an example of a document book.do.txt for a complete book:

```
TITLE: This is a book title
AUTHOR: A. Name Email:somename@someplace.net at Institute One AUTHOR: A. Two at Institute One & Institute Two
DATE: today
TOC: on
====== Preface ======
label{ch:preface}
# #include "../chapters/preface/preface.do.txt"
====== Heading of a chapter ======
label{ch:ch2}
# #include "../chapters/ch2/ch2.do.txt"
# Similar inclusion of other chapters
====== Appendix: Heading of an appendix =======
label{ch:somename}
# #include "../chapters/nickname/nickname.do.txt"
====== References ======
BIBFILE: ../papers.pub
```

When running doconce format on book.do.txt, the entire document is contained in *one* big file² (!). To see exactly what has been included, you can examine the result of running the first preprocessor, preprocess, on book.do.txt. All the includes are handled by this preprocessor. The result is contained in the file tmp_preprocess__book.do.txt, which then contains the entire DocOnce source code of the book. The second preprocessor, mako, is thereafter run (if DocOnce detects that it is necessary). The result of that step is available in tmp_mako__book.do.txt. It is important to examine this file if there are problems with Mako variables or functions. The tmp_mako__book.do.txt file is thereafter translated to the desired output format.

Say we want to produce a LATEX document:

Terminal doconce format pdflatex book [options]

²A single DocOnce file and consequently a single .tex file works out well on today's laptops. A book with 900 pages [3] has been tested!

If the DocOnce source contains copying of source code from files in @@@CODE constructs, it is important that doconce finds the files. For example,

```
@@@CODE src-ch2/myprog.py fromto: def test1@def test2
```

will try to open the file src-ch2/myprog.py. Since this file is actually located in ../ch2/src-ch2/myprog.py, pdflatex will report an error message. A local link to that directory resolves the problem:

```
Terminal> ln -s ../chapters/ch2/src-ch2 src-ch2
```

Similarly, the LATEX code in book.tex for inclusion of a figure may contain

```
\includegraphics[width=0.9\linewith]{fig-ch2/fig1.pdf}
```

For this command to work, it is paramount that there is a link fig-ch2 in the present book directory where the pdflatex command is run to the directory ../chapters/ch2/fig-ch2 where the figure file fig1.pdf is located.

It is recommended to use the function make_links in scripts.py to automatically set up all convenient links from the book directory to the individual chapter directories. Provided the *list of chapter nicknames* at the top of scripts.py *is correct*, you can just run

```
>>> import scripts
>>> scripts.make_links()
```

to automatically set up all links to all src-*, fig-*, and mov-* directories. You need to rerun this make_links function after inclusion of a new chapter in the chapters tree.

Identify LATEX errors in the original chapter files!

When you run pdflatex book and get LATEX errors, you need to see where they are in book.tex and use this information to find the appropriate DocOnce source file in some chapter. Usually, there are few errors at the "book level" if each individual chapter has been compiled. To this end, you can use scripts.py to automatically compile each chapter separately. The process is stopped as soon as a DocOnce or LATEX error is encountered.

```
>>> import scripts
>>> scripts.compile_chapters()
```

With heavy use of Mako one can get quite strange error messages. Some ask you to rerun the doconce format command with --mako_strict_undefined to see undefined Mako variables. Make sure you run the make.sh script by bash -x if the script does not feature the set -x command in the top of the file (for displaying a command prior to running it). Copy the complete doconce format with the mouse and add the --mako_strict_undefined option. Other error messages point to specific lines that Mako struggles with. Go to the file tmp_mako_book.do.txt to investigate the line.

3.4 About figures when publishing HTML

There will be type of tags in HTML code produced by DocOnce, so it is very important to ensure that the *published* .html files have access to a subdirectory fig-ch2. Normally, one needs to copy fig-ch2 from the ch2 chapter source directory to some publishing directory that stores all the files necessary for accessing the entire HTML document on the web.

4 Tools

You can start a new, future, potential book project by simply copying the directory structure of the setup4book-doconce³ repository on GitHub. Then you can follow the instructions below to start writing and adapting the structure to your project's needs.

4.1 Making a new chapter

Under doc/src/chapters you find the chapters in this "sample book" as well as a script doc/chapters/mkdir.sh that creates a new directory for you with the typical files needed for a new chapter. You can either edit existing chapters, or make a brand new empty chapter by running



This command makes a directory mychap for a new chapter with nickname mychap. Files from the template directory are used to populate mychap. You get an empty mychap.do.txt where the text is supposed to go, or this file

³https://github.com/hplgit/setup4book-doconce

can just include a series of smaller .do.txt files, and you get the wrapper file main_mychap.do.txt such that you can compile this chapter as a stand-alone document. You also get make.sh which calls ../make.sh with the chapter main document (main_mychap) as argument. Optional arguments for running doconce format pdflatex can be given to ../make.sh in make.sh if needed (e.g., -encoding=utf8').

4.2 Compiling the chapter

PDF. To make a stand-alone document of a chapter, by compiling to LATEX and PDF, we propose the convention to have a make.sh in each chapter directory. This make.sh can in most cases just call up a common ../make.sh script,

```
bash -x ../make.sh main_mychap
```

or optionally with some command-line arguments,

```
bash -x ../make.sh main_mychap --encoding=utf-8
```

The doc/src/chapters/make.sh script is quite general and may be edited according to your layout preferences of the LATEX documents.

The present make.sh script creates two PDF files: one for printing and one for electronic viewing. The difference is that all URLs in the version for printing appear as footnotes (and just hyperlinks with a dark blue color in the electronic version). The two files are named mychap.pdf and mychap-4print.pdf, respectively, and copied to doc/pub/mychap/pdf for publishing.

Remark. The suggested make.sh file applies the --latex_code_style= option to doconce format for specifying the typesetting of blocks of computer code in LATEX. Originally, DocOnce applied the ptex2tex program to select such typesetting, but the new method is more flexible and simpler (in that it gives cleaner LATEX code). (With ptex2tex one would need a common configuration file doc/chapters/.ptex2tex.cfg to be copied by doc/chapters/make.sh to the chapter directory prior to running 'ptex2tex.)

HTML. There is also a script doc/src/chapters/make_html.sh for making HTML versions of the chapter. Just call this as

```
Terminal> bash ../make_html.sh main_mychap
```

to make HTML versions of the mychap chapter.

The current version of make_html.sh creates four types of HTML layouts and an index.html file with a list of links to these three files: 1) HTML plain Bootstrap style, 2) HTML Bootswatch readable style, 3) plain HTML solarized color style, and 4) Sphinx pyramid style. (Note that the latter document is a true Sphinx document, made by doconce format sphinx, and from which one could make other formats too.)

It is easy to go into the make_html.sh script and generate other HTML or Sphinx styles.

You need to edit the index file!

The index.html file generated by make_html.sh is made from the DocOnce source file index_html_files.do.txt. This is a file utilizing Mako programming (see [2]. There is also a similar file, index_files.do.txt, listing all the published documents in various formats associated with a complete book projects (to go to doc/pub/index.html).

In the index_html_files.do.txt file, we define a Mako dictionary chapters mapping nicknames to chapter titles. This dict makes it easy to compile index_html_files.do.txt with a Mako variable CHAPTER set to the chapter nickname and get a tailored index.html file for the HTML versions of that chapter. Similarly, index_files.do.txt also has a chapters dict and an associated published list with all the nicknames of the chapters that we want to list in the overview of the entire book project (all sufficiently finished chapters).

The index_files.do.txt file gives a table of contents of all documents, so you will normally compile this manually now and then as

Terminal > doconce format html index_files --html_style=bootstrap '
--html_links_in_new_window --html_bootstrap_navbar=off

and publish it in doc/pub/index.html.

Cleaning Files. The make*.sh files generate a lot of files that can easily be regenerated and that are normally removed from the chapter directories. The script sh ../clean.sh can be run in any chapter directory to clean up redundant files.

4.3 Compiling the book

Go to doc/src/book and run make.sh to compile the book. This requires that book.do.txt performs the right include of chapters, table of contents, and bibliography.

There are many other tools in doc/src/book too, e.g., the mentioned library of handy scripts in scripts.py, and an example on how to pack all files of the entire book projects for publishing with Springer (pack_Springer.sh).

The current book layout created by make.sh makes use of a (now outdated) Springer T2 style for textbooks (requires the .cls and .sty files in the book directory). Other Springer styles supported by DocOnce are Lecture Notes in Computational Science and Engineering (monographs and proceedings), Lecture Notes in Computer Science (proceedings), and Undergraduate Texts in Physics. Other book styles will require some manual work, either working out a LATEX preamble for a special style and use that when compiling book.do.txt or actually extending the DocOnce source code.

5 Cross-referencing across chapters

A fundamental problem when writing a book and stand-alone chapters arises with cross-referencing. In a book file it makes sense to refer to an equation in any chapter, say (4.23), while in a stand-alone chapter references to equations or sections in other stand-alone documents will not work. That is, IATEX has a native mechanism for this, the xr package, where one can register a set of .aux files for other IATEX documents and refer directly to these labels and get them right. It is then possible to write something like

```
see (\eqref{sec:results:u:eq}) in \cite{Hansen_2011b}
```

and get it out as

```
see (2.37) in [12]
```

provided our .tex file contains \externaldocument{myother} and the label sec:results:u:eq is defined in myother.aux. DocOnce has generalized this feature so it works for non-LaTeX formats as well. It is called *generalized cross-references*. You can then write such references across chapters and get all labels right whether you produce the entire book or individual chapters.

5.1 Syntax of generalized cross-references

Here is an example on a generalized reference to an equation in another document:

```
The world's most famous equation is ref[(ref{fake:Emc2})][in cite{Langtangen_dobook_fake}][
as found in the document "Some document":
"http://hplgit.gthub.io/setup4book-doconce/doc/pub/fake"
cite{Langtangen_dobook_fake}].
```

This sentence is rendered as follows in the present format (pdflatex):

```
The world's most famous equation is (1)in [1].
```

More detailed information about generalized cross-references is found in the DocOnce manual⁴. In particular, one has to insert # Externaldocuments: commands in all main_*.do.txt files that includes files with generalized references.

6 Study guides and slides

DocOnce has good support for creating slides from ordinary documents with running text. Rather than speaking about slides, we think of *study guides* where the material is presented in a very condensed, effective, summarizing form for overview, use in lectures, and repetition. The slide format is a good way of writing study guides, but by explicitly thinking of study guides the slide format can be made more effective for self-study when overview and repetition are necessary - with a particular emphasis on gaining understanding.

It is, of course, a very challenging balance between enough information for self-study by reading slides and overwhelmingly much text and information in slides for oral presentations. Text must anyway be minimized all the way on slides, and the reader of a study guide is supposed to also be a reader of the underlying running text in the chapter.

6.1 Slide directory

For each DoOnce file in the chapter ch2 it can be wise to make a corresponding study guide file in the subdirectory slides-ch2. For example, part1.do.txt has its counterpart with slides in slides-ch2/part1.do.txt. Then there is a file slides_ch2.do.txt which assembles the parts if slides-ch2, typically with a content like

```
TITLE: Study Guide: Some title
AUTHOR: Author Name Email:somename@someplace.net at Institute One
DATE: today

# #ifdef WITH_TOC
!split
TOC: on
# #endif

# #include "lec-ch2/part1.do.txt"

# #include "lec-ch2/part2.do.txt"

# #include "lec-ch2/part3.do.txt"
```

 $^{^4}$ http://hplgit.github.io/doconce/doc/pub/manual/html/manual.html#generalized-cross-referencing

6.2 Generating slides from running text

The author has the following work flow for generating slides for a chapter file, say part1.do.txt.

- 1. Copy part1.do.txt to slides-ch2/part1.do.txt.
- 2. Make slides_ch2.do.txt and include slides-ch2/part1.do.txt.
- 3. Decide on *parts* of the slide collection. Often a part can be a section in the parent ch2.do.txt file, but sometimes it can be more natural to have larger parts than sections in the slide collection.
- 4. Each part in the slide file has a DocOnce section heading with 7 =, while each slide has a DocOnce subsection heading with 5 =.
- 5. Edit slides-ch2/part1.do.txt:
 - One can keep subsection headings from the running text for the most part, but slides need many more subsection headings.
 - Try to let the heading summarize explicitly a conclusion/rule from the slide (the slide table of contents is then a set of conclusions/rules!)
 - Remember a !split right above very slide heading!
 - Compile frequently and look at the slides: they become over-full very quickly so there is a constant need for dividing slides into new ones with new headings.
 - Read a paragraph, focus on its main idea and result, and see how it can be condensed to one sentence or a few bullet points. *Making effective slides is the art of condensing the most important information in the text to a eye-catching format.*
 - Do not remove figures without a very good reason. Figures are important!
 - Add new images to live up the presentation. In slides you may think of cartoons or entertaining images that would never be suitable in a chapter/book, but they may help attract attention, communicate ideas, and enhance the memory process.
 - Condense every mathematical derivation. Make sure the goal and end result is clear before diving into details.
 - Detailed derivations are seldom of interest in a study guide or oral presentation refer to the underlying running text in the chapter for the details. Focus on ideas and key mathematical steps (if they are important enough).
 - Remember that equations are sometimes excellent images for ideas! Complicated equations can therefore be important slide elements although the details will never be addressed.

- It is quite often wise to remove equation numbers in slides. You can edit the LATEX math environment manually, or use --denumber_all_equations to do it automatically. Remember that references to equations numbers must be removed from the slides too!
- Movies are effective in slides. It is still a hassle to get them displayed correctly in PDF files, so using a test on FORMAT and writing MOVIE for HTML output and just a link in PDF output might be necessary. See the manual⁵ for how to work with movies in DocOnce.

The slides are to fulfill three purposes:

- 1. reading as a study guide to get overview before reading the full text of chapter,
- 2. watching as slides during an oral presentation,
- 3. reading as a study guide to repeat and enforce overview of the material.

It is highly non-trivial to meet all these purposes: limit the information on the slides, make them as visual as *feasible*, make them self contained, and provide the *sufficient* amount of information. Considerable iterations are always needed. Reading the slides as a study guide is easy to accomplish. The slides' properties in live presentations can only be tested by speaking to them (making a rough draft of a video podcast is a very effective way of testing the slides' quality).

6.3 Compiling slides

There is a quite general script in doc/src/chapters/make_slides.sh for compiling a slide collection defined in a file like slides_ch2.do.txt. Just run

```
Terminal> bash ../make_slides.sh slides_ch2
```

from the chapter directory. Note that the script will first spell check the slide files. This is done in the slides-ch2 directory. Errors are reported in files located in slides-ch2. To update the chapter's dictionary for spell checking, you need to do

```
Terminal> cp slides-ch2/new_dictionary.txt~ .dict4spell
```

in the ch2 chapter directory.

Similarly, to look at misspellings, the file slides-ch2/misspellings.txt~ is the relevant file.

The make_slides.sh script compiles a variety of slides:

 $^{^5 {\}tt http://hplgit.github.io/doconce/doc/pub/manual/html/manual.html\#movies}$

- First a plain LATEX PDF document to catch as many errors in the DocOnce source as early as possible. This document can also be used for compact printing of the contents of the study guide (and the output looks definitely like a study guide and not slides!).
- HTML5 reveal. js slides with different colors.
- HTML5 deck.js slides. This format is usually inferior to reveal.js, but is also very much personal taste.
- LATEX Beamer slides. Edit the theme=red_shadow line in make_slides.sh to control the Beamer theme.
- Remark (Markdown) slides for viewing in a browser.

7 Writing in private repository while publishing in public

Sometimes you want to keep ongoing writing in a *private* repository and make only *selected* chapters and/or files publicly visible. In such cases one can set up the book project structure in a private repository, but use a public repository instead of the doc/pub directory for publishing selected compiled documents. This is easy: just change the dest= line, where the publishing directory is defined, in all make*.sh scripts in doc/src/chapters. The files will then be copied to this alternative destination.

Often, you want to publish the software associated with the book project, stored in doc/src/chapter/nickname/src-nickname, as a part of the public repository. Such files can also easily be copied, say to src/nickname in the public repository. However, software files often change names and locations in subdirectories, and then you need to be very careful with updating the Git commands in the public repository every time you do git add or git rm locally in the private repository. This problem occurs with text files too, but maybe less often, so the recipe given below applies to all kind of files you want to mirror from a private to a public repository.

We have made a script rsync_git.py⁶ that can copy files from one repository to another and log files that are removed or deleted and then take the appropriate Git actions. Running

Terminal> rsync_git.py src-mychap \$HOME/repos/pub/mybook/src/mychap

will copy all files from src-mychap to \$HOME/repos/pub/mybook/src/mychap, find which files that are new in src-mychap and must be added to \$HOME/repos/pub/mybook/src/mychap

d which mes that are new in src-mychap and must be added to эноме/ repos/pub/mybook/src/mycha -----

 $^{^6}$ https://github.com/hplgit/setup4book-doconce/tree/master/doc/src/chapters/rules/src-rules/rsync_git.py

and which files that are removed in src-mychap and should be removed in the destination directory as well. An rsync command is run to the physical copy and removal of files, followed by git add and git rm commands. In this way, you can automatically keep the public repository as a mirror of parts of your private repository!⁷

The rsync_git.py script is listed below for reference. Note that a file \$HOME/.rsyncexclude can be made to filter out certain files that you never want to copy (this is always a good idea!).

```
#!/usr/bin/env python
"""
Sync two directory trees with rsync and perform corresponding
git operations (add or rm).
Skip files listed in $HOME/.rsyncexclude.
Usage: rsync_git.py from-dir to-dir
Example: rsync_git.py src-mychap $HOME/repos/pub/mybook/src/mychap
The from-dir is the source and the to-dir is the destination
(e.g. a public directory where resources are exposed).
The script must be run from a dir within the repo of to-dir.
# Typical rsync output:
sending incremental file list
deleting decay7.py
decay_TULL.py
sent 675 bytes received 34 bytes 1418.00 bytes/sec
total size is 94788 speedup is 133.69
# Example on $HOME/.rsyncexclude file
"""
.#*
#*
*.rsync~
*.a
*.0
*.so
.*~
*.log
*.dvi
*.aux
*.old
tmp_*
.tmp*
*.tar
*.tar.gz
*.tgz
*.pyc
```

⁷This functionality should be a part of Git, but no Git expert I have talked to has ever seen use for merging a flexibly defined subset of a repository with another repository. (The current functionality of Git is not capable of working with, e.g., branches that merge with only parts of another branch.)

```
import commands, os, sys
from_ = sys.argv[1]
to_ = sys.argv[2]
cmd = 'rsync -rtDvz -u -e ssh -b --exclude-from=$HOME/.rsyncexclude --suffix=.rsync~ --delete
print cmd
failure, output = commands.getstatusoutput(cmd)
print output
delete = []
add = []
for line in output.splitlines():
    relevant_line = True
    for text in 'sending incremental file list', \
        'sent ', 'total size is':
        if line.startswith(text):
           relevant_line = False
    if relevant_line and line != '':
        if line.startswith('deleting'):
            delete.append(line.split()[1])
        else:
            add.append(line.strip())
print delete
print add
for filename in delete:
    option = '-rf' if os.path.isdir('%s/%s' % (to_, filename)) else '-f'
    cmd = 'git rm %s %s/%s' % (option, to_, filename)
    print cmd
    os.system(cmd)
for filename in add:
    cmd = 'git add %s/%s' % (to_, filename)
    print cmd
    os.system(cmd)
```

References

- [1] H. P. Langtangen. Some document. http://hplgit.github.io/setup4book-doconce/doc/pub/fake.
- [2] H. P. Langtangen. Use of make to aid book writing. http://hplgit.github.io/setup4book-doconce/doc/pub/mako.
- [3] H. P. Langtangen. A Primer on Scientific Programming With Python. Texts in Computational Science and Engineering. Springer, fourth edition, 2014.