Check that system has up to date software…

Conda update jupyter

**Installing Jupyter books in Anaconda (https://jupyterbook.org/start/overview.html)**

Open Anaconda prompt.

Open the environment you wish to work in (e.g. Stats\_for\_HDS).

conda activate Stats\_for\_HDS

Install Jupyter book:

pip install -U jupyter-book

if there are version issues for installation:

pip install -U jupyter-book -–user -–ignore-installed

to check installation has worked

jupyter-book --help

So building is a ‘2 step process’; **1)** creating the folder structure (looks like there are lots of extra files that don’t need to be touched) and **2)** creating the book (pdf or html)

Within a mac, not opening anaconda, but directly on the command line

cd ~/Documents/GitHub/Content-2021/firstbook

1. Build a simple book

jupyter-book build mynewbook/

to view in a browser, use the address

<file:///Users/lsh1603970/Documents/GitHub/Content-2021/firstbook/mynewbook/_build/html/intro.html>

2. generate a pdf…( <https://jupyterbook.org/advanced/pdf.html>)

Back into the directory

jupyter-book build mynewbook/ --builder pdfhtml

ok this works.

3. Now repeat with the full book

cd ~/Documents/GitHub/Content-2021/Jupyter\_Book

jupyter-book build SHDS/

jupyter-book build SHDS/ --builder pdfhtml

- note that the rendering of boxes and equations doesn’t wrk very well when the pdf is generated.

- so I don’t know what the best thing is to do … the entire thing can be download and we can just refer to a hyperlink for access… probably the easiest way forward.

**Creating a Jupyter books**

Open Anaconda prompt.

Set the CD to where you want the book

Open the environment you wish to work in (e.g. Stats\_for\_HDS).

conda activate Stats\_for\_HDS

The first time, you can use this command to create an empty book and an automatic table of contents:

jupyter-book create refresher

jupyter-book toc refresher/

If the book contents already exist you just need to build the book,

jupyter-book build refresher/

So if, for example, the folder Statistics/Maths\_Refresher contained the notebooks etc for the book, set the CD to Stataistics, and type

jupyter-book build Maths\_Refresher/

**Helpful instructions**

<https://jupyterbook.org/intro.html>

**Unsure what this is:**

conda install -c conda-forge matplotlib

**VERY IMPORTANT NOTE**

There are bugs in the table of contents. If you’re using windows, you can’t have chapters.

When you build a book, it doesn’t always create the files you want. Try deleting \_build (the folder) and then it will generate everything.

**Publishing online**

In Anaconda prompt, install ghp-import:

pip install ghp-import

python -m pip install --upgrade pip

In Git bash (maybe Github desktop fine also):

Create an empty folder and clone the latest repository there.

cd "C:\Users\emsuewil\Documents\Work\Teaching\MSc\_HDS\Statistics\Git"

git clone https://github.com/StatsFizz/Maths\_Refresher.git Maths\_Refresher

git clone <https://github.com/LSHTM-Health-Data-Science/Maths-Refresher.git>

Maths\_Refresher

In Anaconda prompt, change the directory to the folder \_build.

cd \_build

ghp-import -n -p -f \_build/html

git push origin gh-pages

The website is now available at:

[https://lshtm-health-data-science.github.io/Maths-Refresher/](https://lshtm-health-data-science.github.io/Maths-Refresher/myintro.html)

Maths refresher

Conda activate Maths\_Refresher

>pip install -U jupyter-book

pip install -U -q ipywidgets

jupyter nbextension enable --py widgetsnbextension

(CAN’t get to work – works in environment stats\_for\_HDS – use that one!!)

pip install ghp-import

python -m pip install --upgrade pip