Digital Methods: Learning Journal Template

Camilla Kremmer Jensen

Autumn 2019

1 Today's Date

1.1 Thoughts / Intentions

1.2 Action

1.3 Results

1.4 Final Thoughts

2   06/11/2019

2.1   Thoughts / Intentions

08:44am: So I just read the homework for tomorrows lesson. I feel a bit lost already, but I'll try to make it work. **09:37am**: I will try to clean those messy dates I already created a Github user account and the Overleaf account

2.2   Action

- I already created a Github user account.

- I already created a Overleaf account too.

Creating a repository on Github:

- Click on profile icon in top right corner and click 'your repositories'

- Click 'new' and entering details - named repository 'learning-journal'

- Selected initialize this repository with a README and created repository

- Uploading overleaf weekly template sample

- Commited file with description

Overleaf:

- Used sample template in Overleaf and edited title/abstract

-

- Attempt to recompile presents **ERROR** - still recompiles to the weekly journal template.

- Deleted template and recompile section dissapeared with **ERROR** - "Unknown main document. Please choose the main file for this project in the project menu"

Data Carpentry Exercises:
Messy Spreadsheet

- Opened data sets from previously downloaded excel spreadsheets

- Found 'tabs' in excel in bottom left corner

- Discussing messy data

- Color used for indication

- Multiple variables in column and row

- Multiple values in single cells

- Inconsistencies in null, 0 and false in each tab

- Inconsistencies and use of asterisk

- Blank cells are not adequate indicators

- Multiple tabs in one spreadsheet

2.3 Results

- Github -

- Overleaf - .

2.4 Final Thoughts

2:03pm: Im still a bit confused about it all. But I think I will get it at some point. I feel a lot more confident with overleaf. I will continue with the exercise tomorrow morning.

3 20/11/2019

3.1 Thoughts/Intentions

- **08:50am**: So today I found my final project on "Our World in Data"

3.2 Action

"Our World in Data" website

- I went to the website

- Had a little look around

- Clicked on the category "Global Health"

- Looked at some of the subsections

- I founded the category "Maternal mortality"

- Then I downloaded the csv-file and had a little look on the data.

- And decided that this would be my project for the exam

3.3 Final Thoughts

09:20am

- So with the data from "Global Health" I think it could be interesting to look into involvement of maternal mortality in different countries over time but also compare different European or African countries with each other

- The data is quite clean so I don't need to clean it before I use it, which is very nice.

- This is just my first thoughts around my final project. I think I need to think a bit more about have to work with the data and which angle I can have on the data

4 21/11/2019

4.1 Thoughts/Intentions

Around 9:30 am: So I told my idea on my final project first to Petra and later Adela. While talking to Petra my original idea developed a bit, so now I'm making a comparison between Sweden, Denmark and Norway around maternal mortality and also child mortality. I choose these countries because healthcare wise the three countries are roughly alike, but is there still a different between have many children and mothers, who dies through time.

- Adela approved my idea, but told my that perhaps I needed all European countries instead of just the Nordic countries.

4.2 Action

- Like yesterday I went to the "Our World in Data" website to find my new data on child mortality.

- I went to the website.

- Clicked on the category "Global Health"

- Found the subsection called "Child mortality" and downloaded the csv-file.

4.3 Final Thoughts

13.30 pm Like yesterday I had a little look on the data on child mortality and once again the data is quite clean, which is nice.

- But I can see in the different files that there is quite a different time frame on how long the three countries have written their data down. Will this be a problem?

09:20am

- So with the data from "Global Health" I think it could be interesting to look into involvement of maternal mortality in different countries over time but also compare different European or African countries with each other

- The data is quite clean so I don't need to clean it before I use it, which is very nice.

- This is just my first thoughts around my final project. I think I need to think a bit more about have to work with the data and which angle I can have on the data

5 26/11/2019

5.1 Thoughts/Intentions

- **15:32 pm**: I have quite a bit of homework for Thursdays lesson and I need to do the following things:

- Review the lessons 1, 2 and 3 in R for Social Scientist

- Do all the Exercises in lessons 2-3 and document them in your journal

- Install tidyverse in R

- Download and put the SAFI clean.csv somewhere on my computer where I can easily present it to R.

- Look at lesson 4 and 5 in advance

5.2 Action

Tidyverse

- The first thing I'll do is to install Tidyverse. I need to run the install.packages("tidyverse") and command.

- But it seems like I can find my R-files from last week. Can I just install the program in R - I will try.

- I just typed the install.packages("tidyverse") in R and it began to work, so I think I did it right!

SAFI-clean.csv

- The next thing I will do is to download the SAFI file

- So I will find the lesson plan and clicked on Week 4 to go to the "R for Social Scientists" guide

- At first I could not find the file, but then i reread Adela's post on Blackboard and I found the file on followed link: https://datacarpentry.org/r-socialsci/guide/

- Then I downloaded the file on to my computer and put it on my desktop, so I easily can find it for Thursdays lesson

R for Social Scientist

- The next step I will do is to review the lessons 1, 2 and 3 for R in "R for Social Scientist"

- After I reviewed the lessons 1, 2 and 3 I need to do all the exercises for lesson 2 and 3

- The last thing I need to do for tomorrows lesson is to look a lesson 4 and 5 in advance

5.3 Final Thoughts

Around 11:35 on 27/11-2019 I have done almost all the homework for this tomorrows lesson now.

- I was a bit difficult to find the SAFI file but I found it at lasted

- I also had a bit of problems with the exercises. I could not quite finder out how to put it in to R and I got a lot of faults

- I was quite confused while I read the lesson 4 and 5. I think it will make more sense, when Adela talks about it on tomorrows lesson.

- I think the things from lesson 5 will be very relevant for my final project. It shows how to make graphs and different figure son data, which is what I'm exactly going for.

6 28/11/2019

6.1 Thoughts/Intentions

11:15 am: So this morning I book a help time with Petra for Thursday next week at 11:30 am

- In all honesty I booked the time, so I can start on the project already now although my other exam is taking all my time at the moment, but I think it will help me in the long run.

- Another thing I need to do today is the git exercise, where I need to make my journal in Overleaf public

6.2 Action

Git exercise

- The first thing I need to do is to read about Git and the common commands in Week 3 slides and after that I need to open git bash and register with my username and email.

-

7 02/11/2019

7.1 Thoughts/Intentions

09:15 am: My plan for this morning is to begin on my final project in R.

- I think the things from last week lesson will made sense in my final project because of the plots and graphs you can made in R.

7.2 Action

- The first thing I will do is to made a new script in R called my final project. I am still insecure about the final title for the project.

- At the same time I will open the R file, which I made for the lesson on Thursday, so I can get some inspiration and general a idea on how to begin my final project.

- I also need to open the "R for Social Scientists".

- Back in my new R script the first thing I will do is to run the package "Tidyverse". I already installed the package last week, so the only thing I need to go is to run the command "library", which reinstall the package.

- Afterwards I will upload my data sets to the script. The first one I will upload is the Maternal Mortality and secondly the data on child mortality.

- With the data for child mortality I could not upload the file maybe because it is call "Interview" like Maternal mortality, so the next thing I will try is to call it "Interviews1", but it is still not working, so I decide to just work on the Maternal Mortality at first.

- The next thing I will do is to put pipes on my data for maternal mortality because I only want to focus on Denmark, Norway and Sweden. The first country I will try on is Denmark.

- I have some problems with which values I need to put in "filter" and "select". The things I would like to how in my final plot is country, year and maternal mortality ratio, but at the moment I can't figure out where to put the different values. I have tried all of them on different places.

7.3 Final Thoughts

Around 13:15 pm So I have tried to begin on my final project today, but at the moment I have a lot of things, which doesn't work

- For my appointment with Petra on Thursday I need to ask her on how I upload the data for Child mortality in the same script as the other data

- I also need to ask her on I'm need to mutate my data like on last week lesson

- I need to ask about, which values I need to have in "filter" and "select" to made it work.

8   05/12/2019

8.1   Thoughts/Intentions

11:15 am: So today at 11:30 I had a appointment with Petra

- Before my appointment with Petra I spent Monday trying to begin on my project.

- On Monday I managed to upload my data for Maternal mortality, but I had a lot of problems on how to upload my data for child mortality and which values I needed to have in "filter" and "select"

8.2   Action

- In my appointment with Petra today I asked her on the things I had troubles with on Monday. And she managed to give me some good answers on my questions, but she also helped me on how I changed the name on one of my columns in my data set because their where quite long and a bit hard to work with.

- After my appointment with Petra I went to the library to continue my work with the project.

- The first thing I did was to upload my other data on child mortality, which Petra told my I could just call whatever I liked, but I just called it "Interviews1". I already tried this on Monday, but at that time it did not work for me.

- After that I changed the name in one of the columns in child mortality to something shorter because the original title was quite long, which made it very difficult to work with. I also changed one of the columns in Maternal mortality to something shorter.

- After that I looked at the pipes I made on Monday because Petra told me that I needed to change the "Interviews-Plotting" to "Interviews-Denmark" and in "filter" I needed to put "Denmark and in "Select" I needed to put "Entity, Year and Maternal Mortality" and subsequently it worked.

- The next thing I tried was to made a plot for Denmark. I put year as X and Maternal mortality as Y in my plot. At the same thing I changed the color on the dots to yellow and I got a very fine graph for Danish maternal mortality.

- After it all worked out with Denmark I once again made the pipes and the plots with maternal mortality for Norway and Sweden. It also worked, so now I got three very nice plots.

- In the end I did all the steps once again, but this time it was with child mortality and again I did it with Denmark, Norway and Sweden.

8.3 Final Thoughts

Around 14:30 pm So today I did quite a lot of work on my finale project and I am very satisfied with what I have achieved, but I will still like to make some changes.

- It really helped to get some helped from Petra.

- Even through I have made some very fine plots I would like to made some graphs where both Denmark, Norway and Sweden are in because I think it will made it easier to compare the countries.

9   06/12/2019

9.1   Thoughts/Intentions

08:30 am: Today I will try to continue on my work from yesterday and I will try to made some other graphs where, like I mentioned, both maternal - and child mortality for Denmark, Norway and Sweden are in.

- I think it will be quite hard to figure out in R, but I will try and if it doesn't work I will just made a comparison between the countries in their only plots.

9.2   Action

- Once again I will open the "R for Social Scientists" website because it is quite useful and of course I will open my final project in R.

- So even though I just said that my goal for today was to figure out how to merge the three countries into one graphs I just remember that last week we learned to modify the plot to extract more information from it. So I just add transparency to avoid over plotting because many of the dots in my plots lies above each other.

- It helped a bit but the dots for Danish and Swedish maternal mortality are still above each other.

- The alpha function I just used for my plots only helped a little bit with the over plotting problem. So I will try the "geom-jitter" function, which will introduce a little bit of randomness into the position of my points. It function helped a bit on the points in the plot for Norway, which have been quite even in the last couple of plots.

- And I will do the same with the plots for child mortality

- I have tried to make a bar plot for maternal mortality in Denmark, but it did not work. In the bar plots there are no y-axis, so the plot only shows the x-axis which is years and then the program just fills the whole plot up, which is not correct!

- In continuation of the bar plots I also tried to put maternal mortality on the x-axis, but the program just made a "ERROR".

- In my attempt to combine the data from Denmark, Norway and Sweden I have also tried to put Denmark and Norway in the same plot. As before I used the function "ggplot(data = Interviews-Denmark, aes(x = Year, y = Maternalmortality)) + geom-point()" and then I tried to put "Interviews-Norway" after "Interviews-Denmark" but it made a "ERROR".

- I think the next thing I will try is to google how to combine plots in R. I found a website and tried some of the functions, but in R it just made a "ERROR".

9.3   Final Thoughts

10:50 am Today I made some adjustments on the plots I made yesterday both on the plots for maternal - and child mortality

- I had some problems with different things, but I think I can solve them and if not I will just use the plots I already made because I think there are fine for what I am aiming to do with my final project.

- But allover I am at good spirit!