



Quantify  
the university  
datathon



## Getting started guide

New to a datathon? Don't despair, Quantify is beginner friendly! We will be running 3 tutorials over the event – one about loading the data in and exploring it, one about building models and one about data visualisation.

To participate in these tutorials, you should make sure there are a few things installed on your computer first.

Quantify is an open competition – so you can use whatever tools you would like!

## Communication

On the datathon weekend, and during the week leading up to the datathon weekend, we will be using Slack to communicate.

You can install Slack from here:

<https://slack.com/>

And then click here to get an invitation in your email: <http://tinyurl.com/quantifyslack>

## Anaconda, Python and R

Please install Anaconda and Jupyter notebook, with both the R kernel and the Python kernel to run our demonstration scripts.

1. Download Anaconda with Python 3.6 version here: <https://www.anaconda.com/download/>
2. Download R from here: <https://cran.ms.unimelb.edu.au/>
3. Run the Anaconda prompt and type:  
`conda install -c r ipython-notebook r-irkernel`
4. Now launch notebook using the Anaconda Navigator, and you should have the option of starting both a new Python notebook or a new R notebook.

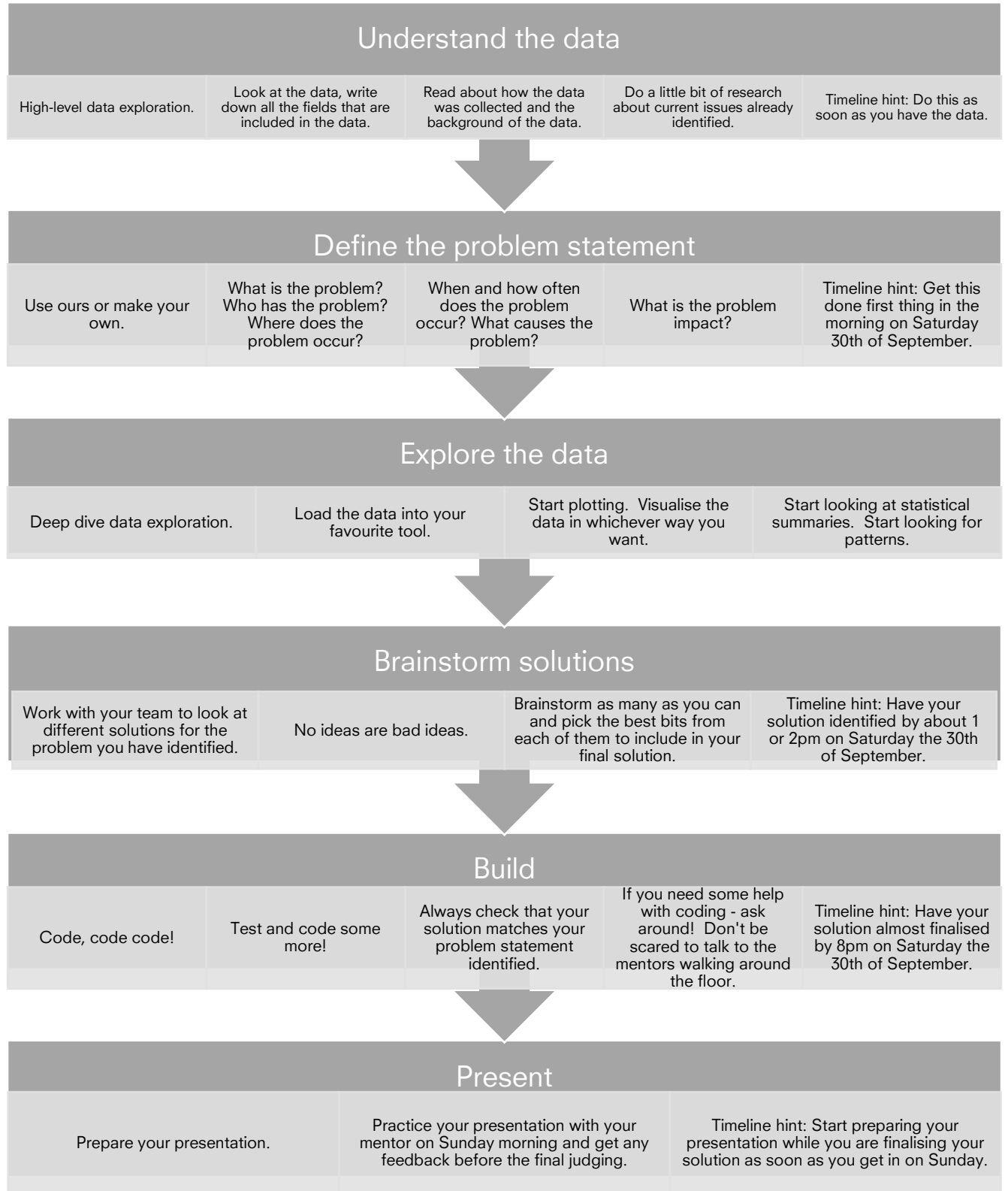
## Cheatsheets

Please install Anaconda and Jupyter notebook, with both the R kernel and the Python kernel to run our demonstration scripts. Here are some cheat sheets to use for coding in both Python and R.

Python	R
Numpy	RStudio Cheatsheets <a href="https://www.rstudio.com/resources/cheatsheets/">https://www.rstudio.com/resources/cheatsheets/</a>

<a href="https://www.datacamp.com/community/blog/python-numpy-cheat-sheet#gs.dScbsCQ">https://www.datacamp.com/community/blog/python-numpy-cheat-sheet#gs.dScbsCQ</a>	
Pandas <a href="https://www.datacamp.com/community/blog/pandas-cheat-sheet-python#gs.Ql1cg=4">https://www.datacamp.com/community/blog/pandas-cheat-sheet-python#gs.Ql1cg=4</a>	ggplot2 <a href="https://www.rstudio.com/wp-content/uploads/2015/03/ggplot2-cheatsheet.pdf">https://www.rstudio.com/wp-content/uploads/2015/03/ggplot2-cheatsheet.pdf</a>
Scipy <a href="https://www.datacamp.com/community/blog/python-scipy-cheat-sheet#gs.286pSOA">https://www.datacamp.com/community/blog/python-scipy-cheat-sheet#gs.286pSOA</a>	Dplyr and TidyR <a href="https://www.rstudio.com/wp-content/uploads/2015/02/data-wrangling-cheatsheet.pdf">https://www.rstudio.com/wp-content/uploads/2015/02/data-wrangling-cheatsheet.pdf</a>
Matplotlib <a href="https://www.datacamp.com/community/blog/python-matplotlib-cheat-sheet#gs.glw1WFk">https://www.datacamp.com/community/blog/python-matplotlib-cheat-sheet#gs.glw1WFk</a>	Leaflet <a href="https://github.com/rstudio/cheatsheets/blob/master/source/pdfs/leaflet%20cheat%20sheet.pdf">https://github.com/rstudio/cheatsheets/blob/master/source/pdfs/leaflet%20cheat%20sheet.pdf</a>
Scikit-Learn <a href="https://www.datacamp.com/community/blog/scikit-learn-cheat-sheet#gs.F1OSros">https://www.datacamp.com/community/blog/scikit-learn-cheat-sheet#gs.F1OSros</a>	Shiny Cheat sheet <a href="https://shiny.rstudio.com/articles/cheatsheet.html">https://shiny.rstudio.com/articles/cheatsheet.html</a>

## Process





## Making your slide deck for presentation

Please make sure that you've submitted a slide deck about your project before judging. This is due on Sunday, 12PM.

The slide deck at a minimum should:

1. Contain a title a description about the project as well as a screenshot of the project. This presentation should be no more than 10 slides long.
2. On the first page of the presentation, please include your team member names and email.

Please email your slide deck to [club.mdss@monsu.org](mailto:club.mdss@monsu.org) with the filename as <YOUR\_TEAM\_NAME>.pdf.

To get your entry judged, you need to prepare a 3-minute presentation using Google slides, Prezi, or PowerPoint.

You will need to demonstrate your implementation and your code separately to the judges. Please do not include any code in your final presentation.

Prezi: <https://prezi.com/>

Google Slides: <https://www.google.com.au/slides/about/>

## Final presentation checklist

Check	Task
	Has the problem statement been checked by a mentor?
	Does the presentation slide deck include the problem statement?
	Does the presentation slide deck include a summary of how you decided on your solution?
	Does the presentation slide deck include screenshots of your solution?
	Have you practiced your presentation to make sure its under 3 minutes?
	Have you prepared your code in a manner so that it can be viewed by the judges?