**DECLARATION:** I understand that this is an **individual** assessment and that collaboration is not permitted. I have read and I understand the plagiarism provisions in the General Regulations of the University Calendar for the current year, found at <http://www.tcd.ie/calendar>. I understand that by returning this declaration with my work, I am agreeing with the above statement.

# Tools & Technologies Used

The visualization presented here, as can be found at <https://ggn1.github.io/cs7ds4_assignment4/>, was built using ***HTML***, ***CSS***, ***JS*** and ***D3.js*** *(version 7)*. A library for in-browser D3 v7 (<https://cdnjs.cloudflare.com/ajax/libs/d3-legend/2.25.6/d3-legend.min.js>) was used to simplify colour scale legend creation as D3 does not provide legend functions by default. ***Python3*** (pandas, numpy, matplotlib, seaborn, jupyter notebook) was used for data processing and exploratory data analysis.

# Dataset

General description.

Dataset/data types.

Attribute types.

Derived attributes.

Why complexity necessitates visualisation.

# Pre-Processing Steps

# Tasks

# Encoding Channels & Idioms

# Novelty

# Strength & Weaknesses

If you are not using Latex or Word, try to heed the following basic format description.

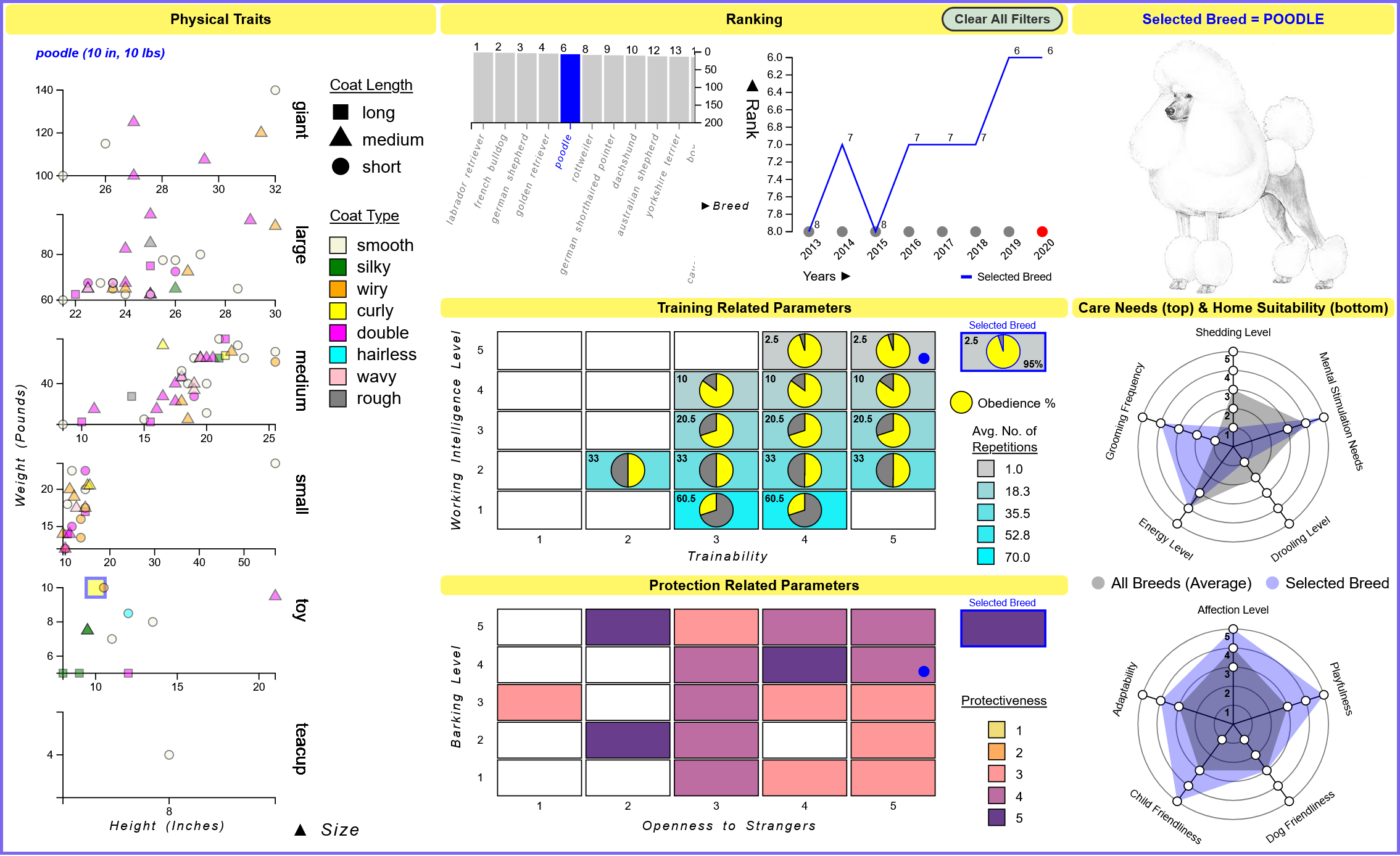
* Text should be 10pt Helvetica and single spaced
* Headings should be between 10pt to 16pt.
* A space of at least 6pt should be left after every paragraph or heading.
* Margins should be 1 inch on all four sides.
* A small header should be included and must contain your Name and Student ID. You should also indicate the module code, module name, year and assignment number.

# Citing third party resources

It is important that You provide a reference to where you got your data. You must also cite any third party sources for elements you have included in your project or report. This includes code-snippets, libraries, tools.

There is no need to cite the lecture notes. Avoid repeatedly (more than once) citing commonly used references in the module such as Munzner’s book [1] unless you are directly quoting something.

A basic example of a bibliography is provided but you may alternatively use BibTex (for latex users), Endnote orany other bibliography manager.



# References

|  |  |
| --- | --- |
| [1] | T. Munzner, Visualization Analysis and Design, AK Peters / CRC Press, 2014. |
| [2] | “Overleaf,” [Online]. Available: http://www.overleaf.com. |
| [3] | Knuth, “Computers and Typefaces,” [Online]. Available: http://www-cs-faculty.stanford.edu/ ̃uno/abcde.html. |