

Title: COS30045 Lab

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Github Link:

[Derrick1013/COS300045-Lab \(github.com\)](https://github.com/Derrick1013/COS300045-Lab)

# Lab 1

## Lab 1.1

[Home](#) [Lab 1.1](#) [Lab 1.2](#) [Lab 1.3](#)

### Title of Article about Interesting Visualisation

Author: Derrick

#### Pets and the Pandemic

A report from *Animal Medicines Australia (AMA)* has found that many Australians took the opportunity to introduce a pet into their household during the pandemic. Their survey indicated that there was a significant increase in the percent of households taking in a new dog, fish or bird. Their research also indicated that pets had a number of positive influences on their lives such as:

- Companionship.
- Better mental health.
- Joy and happiness.




Figure 1: A dog




Figure 2: A fish




Figure 3: A bird

Pet type	Household penetration (%)		Total owner households ('000)		Animals per household (average)		Total pets ('000)	
	2019	2021	2019	2021	2019	2021	2019	2021
Dogs	40	47 ↑	3,848.2	4,644.6	1.3	1.4	5,104.7	6,344.3
Cats	27	30	2,602.4	3,030.7	1.4	1.6	3,766.6	4,903.3
Fish	11	13 ↑	1,056.8	1,334.5	10.7	8.5	11,331.7	11,386.5
Birds	9	14 ↑	867.9	1,384.0	6.4	3.9	5,569.4	5,448.4
Small mammals	3	5	257.8	498.9	2.4	3.0	614.5	1,502.0
Reptiles	2	4	194.5	426.4	1.9	1.6	364.2	663.4
Other pets	2	1	194.8	118.6	9.2	3.4	1,785.3	401.2
Pet Owners	61	69 ↑	5.9 m	6.8 m			28.5 m	30.4 m
Non-Owners	39	31 ↓	3.7 m	3.1 m				

Source: [Australian Data](#)

COS30045 Data Visualisation (Derrick)

## Lab 1.2

## Title of Article about Interesting Visualisation

Author: Derrick

### Pets and the Pandemic

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2019 Chart	2021 Chart	Combined
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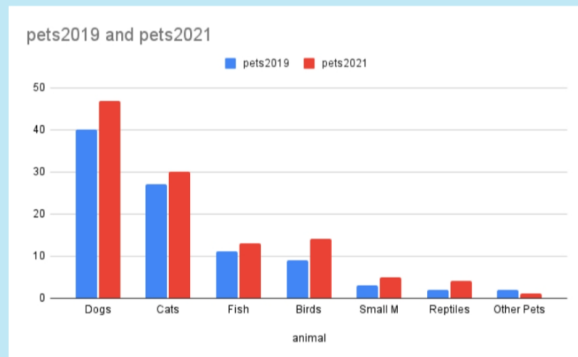


Fig 3. Combined statistics from 2019 and 2021

COS30045 Data Visualisation (Derrick)

## Lab 1.3

Home	Lab 1.1	Lab 1.2	Lab 1.3
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## Drawing shapes with SVG



# Lab 2

## Lab 2.1

Home	Lab 2.1	Lab 2.2	Lab 2.3	Lab 2.4	Lab 2 Optional
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## The D3 Journey starts here...

Warning: Joe watched 14 cat videos today

Joe watched 4 cat videos today

Warning: Joe watched 26 cat videos today

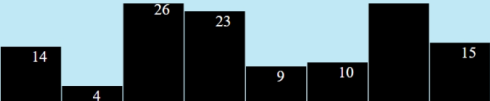
Warning: Joe watched 23 cat videos today

Joe watched 9 cat videos today

Lab 2.2

Home	Lab 2.1	Lab 2.2	Lab 2.3	Lab 2.4	Lab 2 Optional
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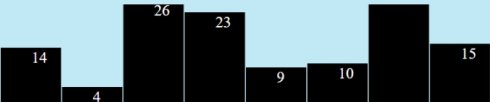
2.3 Bar Graph



Lab 2.3

Home	Lab 2.1	Lab 2.2	Lab 2.3	Lab 2.4	Lab 2 Optional
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2.3 Bar Graph



Lab 2.4

Home	Lab 2.1	Lab 2.2	Lab 2.3	Lab 2.4	Lab 2 Optional
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2.4 Loading data from CSV file

