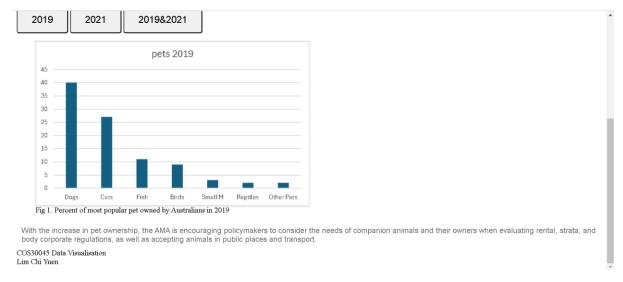
#### Lab1

#### Lab Task 1.1

https://github.com/Cylim1507/COS30045/blob/main/COS30045/lab1/lab1-1.html



### Lab Task 1.2

https://github.com/Cylim1507/COS30045/blob/main/COS30045/lab1/lab1-2.html



#### Pets and the Pandemic

#### Lim Chi Yuen

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



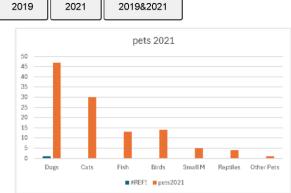


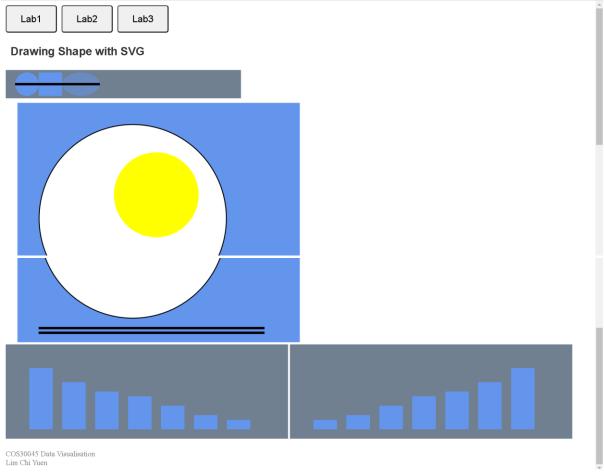
Fig 1. Percent of most popular pet owned by Australians in 2021

With the increase in pet ownership, the AMA is encouraging policymakers to consider the needs of companion animals and their owners when evaluating rental, strata, and body corporate regulations, as well as accepting animals in public places and transport.

COS30045 Data Vienalization

```
A report from Animal Medicines Australia (AMA) has found that many Australians took the opportunity to introduce a pet in
       <button onclick="show('pets2019.png', 'Fig 1. Percent of most popular pet owned by Australians in 2019', 'pet2019')">2019//coutton onclick="show('pets2021.png', 'Fig 1. Percent of most popular pet owned by Australians in 2021', 'pet2019')">2021//coutton onclick="show('pets2019_2021.png', 'Fig 1. Percent of most popular pet owned by Australians in 2019 and 2021', 'pet2019_2021.png', 'Fig 1. Percent of most popular pet owned by Australians in 2019 and 2021', 'pet2019')
       cing id="ChartImg" style="width:50%; display:none;" src="" alt="">
<figcaption id="ChartCap"></figcaption>
With the increase in pet ownership, the AMA is encouraging policymakers to consider the needs of companion animals and the
<footer>C0S30045 Data Visualisation<br>
       fript'
function show(Image, ImgDesc, ImgAlt) {
    document.getElementById('ChartIng').src = Image;
    document.getElementById('ChartIng').alt = ImgAlt;
    document.getElementById('ChartCap').textContent = ImgDesc; // Update the figcaption
    document.getElementById('ChartIng').style.display = 'block'; // Corrected 'block'
```

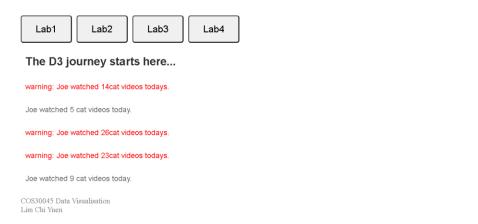
## https://github.com/Cylim1507/COS30045/blob/main/COS30045/lab1/lab1-3.html



#### Lab2

#### Lab Task 2.1

https://github.com/Cylim1507/COS30045/blob/main/COS30045/lab2/lab2-1.html

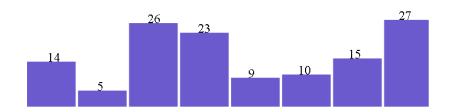


Lab Task 2.2

https://github.com/Cylim1507/COS30045/blob/main/COS30045/lab2/lab2-2.html



# The D3 journey starts here...



COS30045 Data Visualisation Lim Chi Yuen

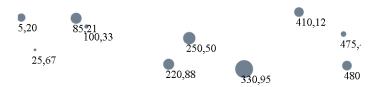
```
<h1>The D3 journey starts here...</h1>
           var w = 500;
var h = 130;
var barpadding = 2;
                              .astr("body")
.append("svg")
.attr("width", w)
.attr("height", function(d){
    return d;
})
            var svg = d3.select("body")
            svg.selectAll("rect")
                  .uda(udase()
.enter()
.append("rect")
.attr("x", function(d, i) {
    return i * ((w/dataset.length)+1);
                  })
.attr("y", function(d){
    return h - (d*4)
                                                                                                                                                                                                                    ₩×
                  .attr("width", function(d){
return (w/dataset.length-barpadding);
                      .attr("y", function(d){
return h - (d*4)
                      .attr("width", function(d){
return (w/dataset.length-barpadding);
                      .attr("height", function(d){
    return d*4;
});
                     svg.selectAll("text")
.data(dataset)
.enter()
.append("text")
.text(function(d){
   return d;
}
                      .attr("fill", "black")
.attr("x", function(d, i){
    return i*(w/ dataset.length) + 25;
                      .attr("y", function(d){
return h - (d*4)
```

Lab Task 2.3

https://github.com/Cylim1507/COS30045/blob/main/COS30045/lab2/lab2-3.html



## The D3 journey starts here...



COS30045 Data Visualisation Lim Chi Yuen

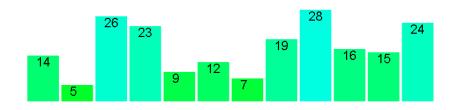
```
ody>
</div>
                        var w = 500;
var h = 160;
var padding = 5;
                                                                 [5, 20, 6],
[480, 90, 7],
[250, 50, 9],
[100, 33, 3],
[330, 95, 13],
[410, 12, 7],
[475, 44, 4],
[25, 67, 2],
[85, 21, 8],
[220, 88, 8]
                                 svg = d3:Select( body )
.append("svg")
.attr("width", w)
.attr("height", h)
.attr("fill", "rgb(106,90, 205)" );
                        svg.selectAll("circle")
.data(dataset)
                                  .data(uace
.enter()
.append("circle")
.attr("cx", function(d, i){
                                   .appenu( circle )
.attr("cx", function(d, i){
    return d[0];
                                  .enter()
.append("text")
                                  .text(function(d){
| return d[0] + "," +d[1];
})
                                   .attr("fill", "black")
.attr("x", function(d, i){
return d[0]-5;
                                 })
.attr("y", function(d){
    return d[1]+20;
});
```

Lab Task 2.4

https://github.com/Cylim1507/COS30045/blob/main/COS30045/lab2/lab2-4.html https://github.com/Cylim1507/COS30045/blob/main/COS30045/lab2/Task 2.4.js



The D3 journey starts here...



COS30045 Data Visualisation Lim Chi Yuen

```
nart 🔰 🔰 attr("fill") callb
//reading the data from csv file
d3.csv("Task_2.4_data.csv").then(function(data){
    console.log(data);
    wombatSightings = data;
        barChart(wombatSightings);
 var w = 500;
var h = 150;
 var barPadding = 3;
                       .select( *that )
.append("svg")
.attr("width",w)
.attr("height",h);
 function barChart(wombatSightings)
        svg.selectAll("rect")
.data(wombatSightings)
        .enter()
.append("rect")
         //x coordinate and y coordinate
.attr("x",function(d,i){
    return i * (w/wombatSightings.length);
       .attr("y",function(d){
   return h - (d.wombats*4)
}
        .attr("width",function(d){
    return (w/wombatSightings.length-barPadding);
                                                                                                                                                                                                                                                 νш
function init(){
  function barchart(wombatSightings)
    .attr("y",function(d){
            })
//width and height of the bar chart
.attr("width", function(d){
    return (w/wombatSightings.length-barPadding);
              .attr("height",function(d){
   return d.wombats*4;
})
              //colour of the bar changes depending on the value of the data .attr("fill", function(d) { return "rgb(0,255, " + (d.wombats * 8) + ")";
              svg.selectAll("text")
             .data(wombatSightings)
.enter()
.append("text")
.text(function(d) {
                   return d.wombats;
              .attr("x", function(d, i) {
    return i * (w / wombatSightings.length) +10.5;
              })
.attr("y",function(d){
    return h - (d.wombats *4) + 13
})
```