

LAB 1-0



Data Visualisation Class

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📖 README

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LAB 1-1

```
1 <!DOCTYPE html>
2 <html>
3
4 <head>
5   <title>Lab 1-1 </title>
6   <meta charset="UTF-8" />
7
8   <!-- Keywords relevant to the webpage for search engines -->
9   <meta name="description" content="Data Visualisation Lab 1" />
10  <meta name="keywords" content="HTML, CSS" />
11  <meta name="author" content="Dhanveer Ramnauth" />
12
13  <!-- Link stylesheet -->
14  <link href="css/style.css" rel="stylesheet">
15 </head>
16
17 <body>
18   <!-- Main heading of the webpage -->
19   <h1>Pets and the Pandemic</h1>
20   <!-- Sub-heading with the author's name -->
21   <h2>Dhanveer Ramnauth</h2>
22
23   <!-- Paragraph explaining the content of the report -->
24   <p>A report from Animal Medicines Australia (AMA) has found that many Australians took the opportunity to introduce
25     a pet into their household during the pandemic. Their survey indicated that there was a <strong>significant
26       increase</strong>
27     the percent of households taking in a new dog, fish or bird. Their research also indicated that pets had a
28     number of positive influences on their lives such as:</p>
29
30   <!-- unordered list -->
31   <ul>
32     <!-- List items -->
33     <li>companionship</li>
34     <li>better mental health</li>
35     <li>joy and happiness.</li>
36   </ul>
37
38   <figure>
39     
40     <figcaption>
41       <p>Fig 1. Comparison of Pet Ownership in 2019 - 2021. Data Source:
42         <a
43           href="https://animalmedicinesaustralia.org.au/wp-content/uploads/2021/08/AMAU005-PATP-Report21_v1.41_WEB.pdf">Animal
44           Medicines Australia Report</a>
45       </p>
46     </figcaption>
47   </figure>
48
49   <p><em>With the increase in pet ownership the AMA are encouraging policy makers to consider the needs of companion
50     animals and their owners when considering rental, strata and body corporate regulations are well as
51     accepting
52     animals in public places and transport.</em></p>
53 </body>
54
55 </html>
```

```
1  img {
2      width: 50%;
3      height: 50%;
4      border: black;
5      border-width: 10px;
6      stroke-width: 2px;
7      border-style: solid;
8      border-color: purple;
9  }
10
11  h1 {
12      color: purple;
13      font-size: 2em;
14      font-weight: bold;
15  }
16
17  * {
18      color: #2F4F4F;
19  }
20
21  h2 {
22      color: rgb(0, 128, 128);
23  }
24
25  aside,
26  footer {
27      font-style: italic;
28  }
29
30  h1,
31  h2,
32  h3 {
33      font-family: Arial, sans-serif;
34  }
35
36  table {
37      border: 1px solid black;
38  }
39
40  th, td {
41      border: 1px solid black;
42  }
43
44  #images {
45      text-align: center;
46  }
47
48  #red {
49      color: red;
50  }
51
52  .special {
53      color: darkorange;
54      font-weight: bold;
55  }
56
57  .month-heading {
58      text-align: right;
59  }
60
61  nav a {
62      text-decoration: none;
63      padding: 0.2em 0.6em;
64      border: 4px solid #ccc;
65  }
66
```


Pets and the Pandemic

Dhanveer Ramnauth

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 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.

Pet ownership in Australia, 2019 vs 2021								
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	1,314.5	10.7	8.5	11,331.7	11,186.5
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				

Fig 1. Comparison of Pet Ownership in 2019 - 2021. Data Source: Animal Medicines Australia Report

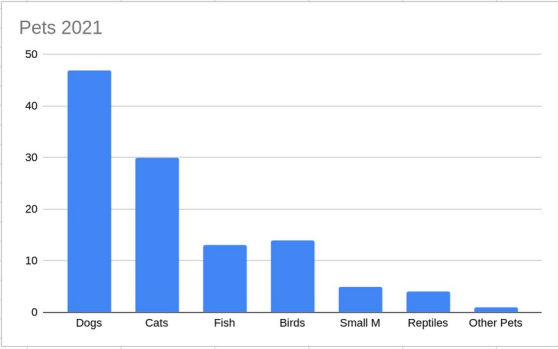
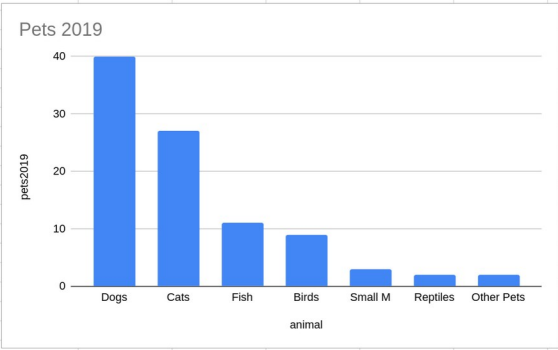
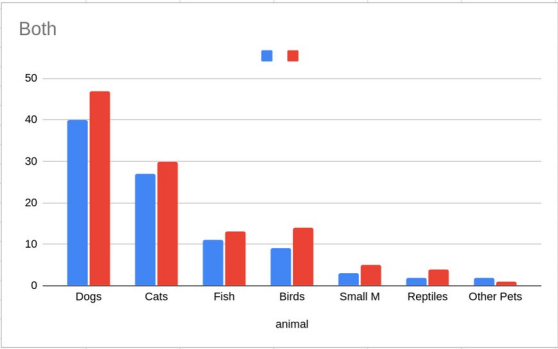
With the increase in pet ownership the AMA are encouraging policy makers to consider the needs of companion animals and their owners when considering rental, strata and body corporate regulations are well as accepting animals in public places and transport.

LAB 1-2


```
1 <!DOCTYPE html>
2 <html>
3
4 <head>
5     <title>Lab 1-2 </title>
6
7     <!-- Keywords relevant to the webpage for search engines -->
8     <meta charset="UTF-8" />
9     <meta name="description" content="Data Visualisation Lab 1" />
10    <meta name="keywords" content="HTML, CSS" />
11    <meta name="author" content="Dhanveer Ramnauth" />
12    <link href="css/style.css" rel="stylesheet">
13 </head>
14
15 <body onload="">
16     <h1>Pets and the Pandemic</h1>
17     <h2>Dhanveer Ramnauth</h2>
18
19     <p>A report from Animal Medicines Australia (AMA) has found that many Australians took the opportunity to introduce
20     a pet into their household during the pandemic. Their survey indicated that there was a <strong>significant
21         increase</strong>
22     the percent of households taking in a new dog, fish or bird. Their research also indicated that pets had a
23     number of positive influences on their lives such as:</p>
24     <ul>
25         <li>companionship</li>
26         <li>better mental health</li>
27         <li>joy and happiness.</li>
28     </ul>
29
30     <!-- Function Signature for button - editFigure(source_img, alt_text, figure_name, year)-->
31     <div class="container">
32         <div class="button-container">
33             <button onclick="editFigure('images/Pets 2019.png', 'Figure 1.1', '2019')">2019</button>
34             <button onclick="editFigure('images/Pets 2021.png', 'Figure 1.2', '2021')">2019</button>
35             <button onclick="editFigure('images/Both.png', 'Figure 1.3', 'Both')">2019</button>
36         </div>
37
38         <figure>
39             
40             <figcaption>
41                 <p id="caption">Figure 1.1 - Percent of most popular pets owned by Australians in 2019</p>
42             </figcaption>
43         </figure>
44     </div>
45
46     <!--Link javascript file for button functionality -->
47     <script src="js/main.js"></script>
48     <p><em>With the increase in pet ownership the AMA are encouraging policy makers to consider the needs of companion
49     animals and their owners when considering rental, strata and body corporate regulations are well as
50     accepting
51     animals in public places and transport.</em></p>
52
53     <footer>
54         COS30045 Data Visualisation
55         Dhanveer Ramnauth
56     </footer>
57 </body>
58
59 </html>
```

```
1  button
2  {
3      background-color: pink;
4  }
5
6  .container {
7      display: flex;
8      flex-direction: column;
9      align-items: center;
10     justify-content: flex-start;
11 }
12
13 .button-container {
14     flex-direction: row;
15     display: flex;
16     justify-content: center;
17     gap: 10px; /* Adjust the gap between buttons as needed */
18 }
19
20 img {
21     border: black;
22     border-width: 10px;
23     border-style: solid;
24     border-color: purple;
25 }
26
27 h1 {
28     color: purple;
29     font-size: 2em;
30     font-weight: bold;
31 }
32
33 * {
34     color: #2F4F4F;
35 }
36
37 h2 {
38     color: rgb(0, 128, 128);
39 }
40
41 aside,
42 footer {
43     font-style: italic;
44 }
45
46 h1,
47 h2,
48 h3 {
49     font-family: Arial, sans-serif;
50 }
51
52 table {
53     border: 1px solid black;
54 }
55
56 th, td {
57     border: 1px solid black;
58 }
59
60 #images {
61     text-align: center;
62 }
63
64 #red {
65     color: red;
```


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	animal	pets2019	pets2021														
2	Dogs	40	47														
3	Cats	27	30														
4	Fish	11	13														
5	Birds	9	14														
6	Small M	3	5														
7	Reptiles	2	4														
8	Other Pets	2	1														
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
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Pets and the Pandemic

Dhanveer Ramnauth

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 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.

2019 2019 2019

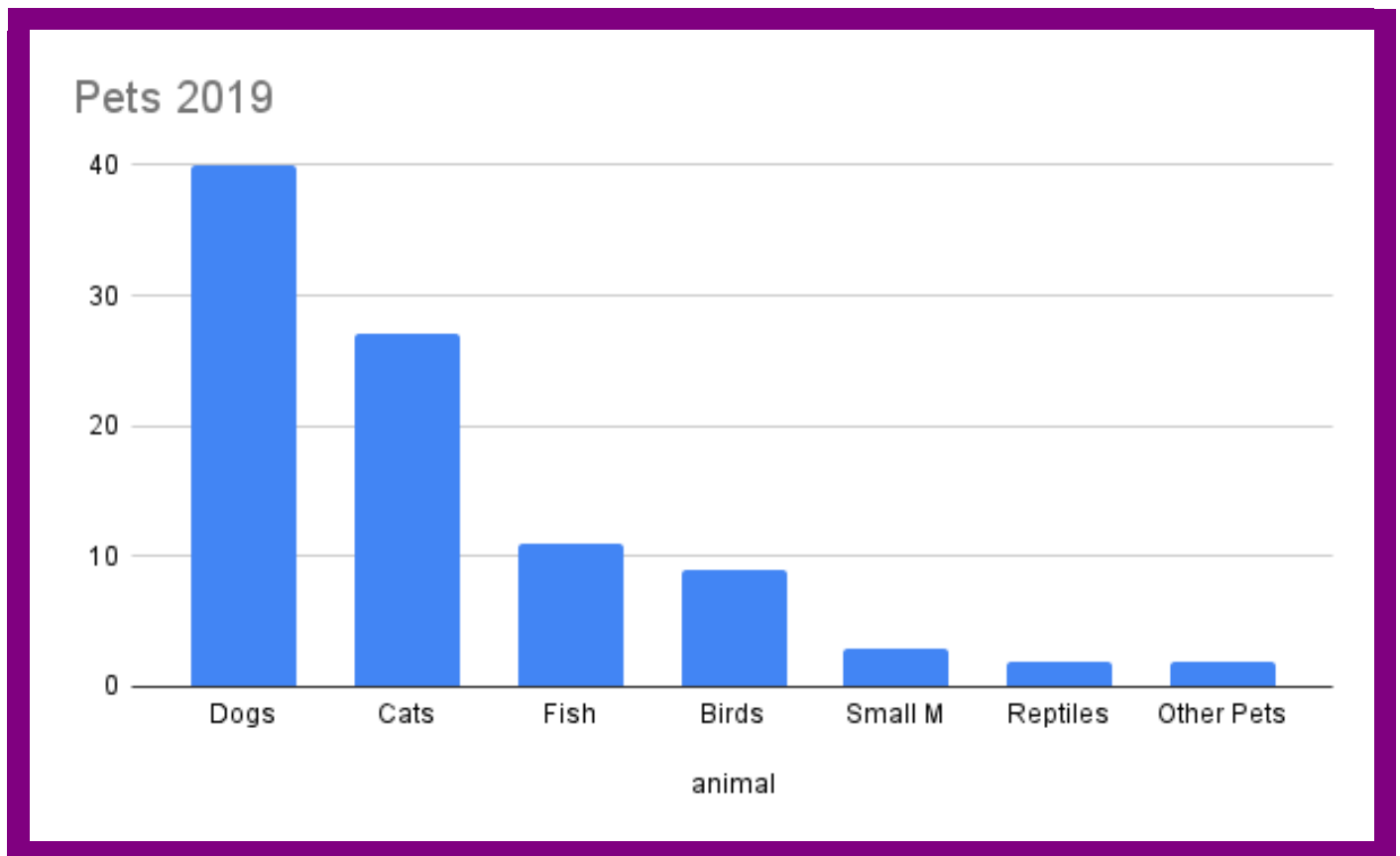


Figure 1.1 Percent of most popular pets owned by Australians in 2019

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

LAB 1-3



Pets 2019



COS30045 Data Visualisation Dhanveer Ramnauth

LAB 2-1

The D3 Journey starts here...

Warning: Joe watched 14 cat videos today

Joe watched 5 cat videos today

Warning: Joe watched 26 cat videos today

Warning: Joe watched 23 cat videos today

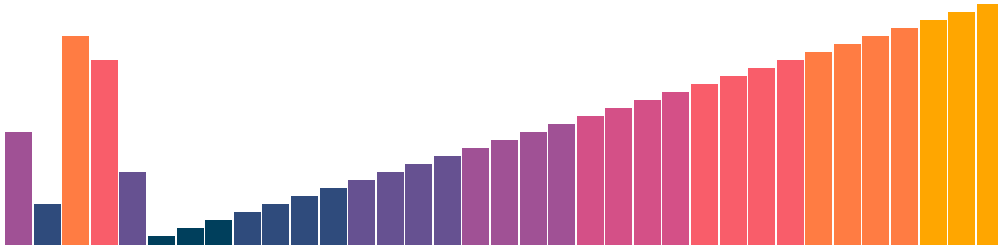
Joe watched 9 cat videos today

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LAB 2-2


```
83      /*
84      color_index_ratio calculation:
85
86      30 / 8 = 3.75
87      3.75 * 2 = 7.5;
88      floor(7.5) = 7;
89
90      7 is max index value so we are safe
91      */
92
93      let color_index_ratio = Math.floor( ( d / color_palette.length ) * 2 ); // BAD WAY TO DO THIS
94      let element = color_palette[color_index_ratio]; // slightly cleaner than inlining this.
95
96      //-----
97
98
99      return `rgb(${element[0]}, ${element[1]}, ${element[2]})`;
100    });
101
102    </script>
103
104    <br>
105
106    <footer>
107      Data Visualisation <br>Dhanveer Ramnauth
108    </footer>
109
110  </body>
111
112  </html>
```


The D3 Journey starts here...

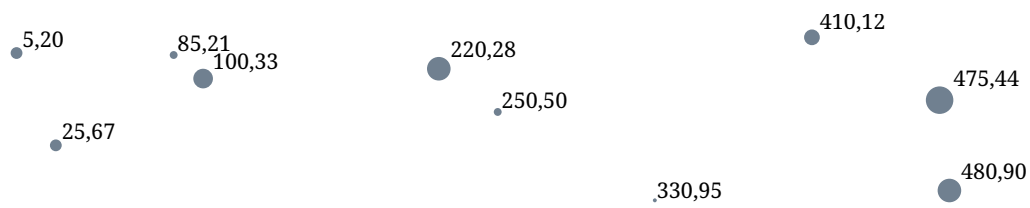


Data Visualisation
Dhanveer Ramnauth

LAB 2-3

```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1">
7   <meta name="description" content="Data Visualisation">
8   <meta name="keywords" content="HTML, CSS, D3">
9   <meta name="author" content="Dhanveer Ramnauth">
10  <meta name="description" content="Data Visualisation">
11
12  <title>Task 2.3 D3 Data Binding</title>
13  <script src="https://cdn.jsdelivr.net/npm/d3@7"></script>
14  <link href="css/style.css" rel="stylesheet">
15 </head>
16
17 <body>
18   <h1>The D3 Journey starts here...</h1>
19
20   <script>
21
22     let dataset = [
23       [5, 20, 3],
24       [480, 90, 6],
25       [250, 50, 2],
26       [100, 33, 5],
27       [330, 95, 1],
28       [410, 12, 4],
29       [475, 44, 7],
30       [25, 67, 3],
31       [85, 21, 2],
32       [220, 28, 6]
33   ];
34
35   //SIZE OF CANVAS
36   let w = 700;
37   let h = 200;
38
39   <!--DEFINE CANVAS -->
40   let svg = d3.select("body")
41     .append("svg")
42     .attr("width", w)
43     .attr("height", h);
44
45   //spacing between the bars (by modifying width)
46   let padding = 1; // size between bar
47   let height_multiplier = 4; //make bar big
48
49   //GENERATE CIRCLE
50   svg.selectAll("circle")
51     .data(dataset) //bind data (counts and prepares)
52     .enter() //generate placeholder for data
53     .append("circle") //append circle per placeholder
54     .attr("cx", function(d, i) { //center X of circle
55       return d[0]; //defined in array
56     })
57     .attr("cy", function(d) { //center Y of circle
58       return d[1]; //defined in array
59     })
60     .attr("r", function(d) { //radius of circle
61       return d[2]; //defined in array
62     }) //radius
63     .attr("fill", "slategray"); //set color
64
65   //GENERATE LABELS
66   svg.selectAll("text")
67     .data(dataset) //bind data (counts and prepares)
```


The D3 Journey starts here...



Data Visualisation
Dhanveer Ramnauth

LAB 2-4


```
1  <!DOCTYPE html>
2  <html lang="en">
3
4  <head>
5      <meta charset="UTF-8">
6      <meta name="viewport" content="width=device-width, initial-scale=1">
7      <meta name="description" content="Data Visualisation">
8      <meta name="keywords" content="HTML, CSS, D3">
9      <meta name="author" content="Dhanveer Ramnauth">
10     <meta name="description" content="Data Visualisation">
11
12     <title>Task 2.4 D3 Data Binding</title>
13     <script src="https://cdn.jsdelivr.net/npm/d3@7"></script>
14     <script src="js/main.js".A></script>
15     <link href="css/style.css" rel="stylesheet">
16 </head>
17
18 <body>
19     <h1>CSV!</h1>
20
21     <div id="charts"></div>
22
23     <br>
24
25     <footer>
26         Data Visualisation <br>Dhanveer Ramnauth
27     </footer>
28
29 </body>
30
31 </html>
```


Wombat Sightings

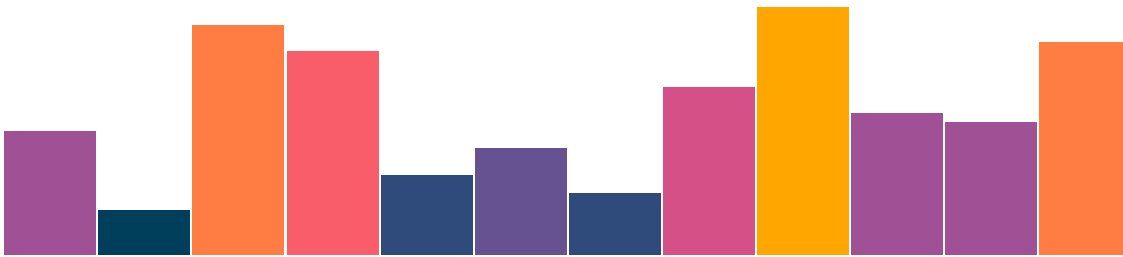


Figure 1: Wombat Sightings

Pet Ownership 2019

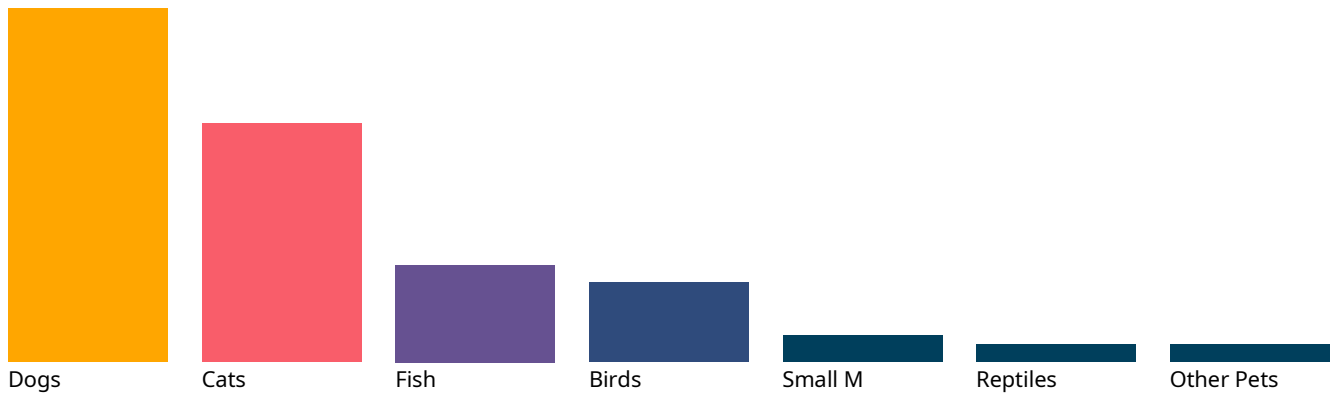


Figure 2: Pet Ownership in 2019

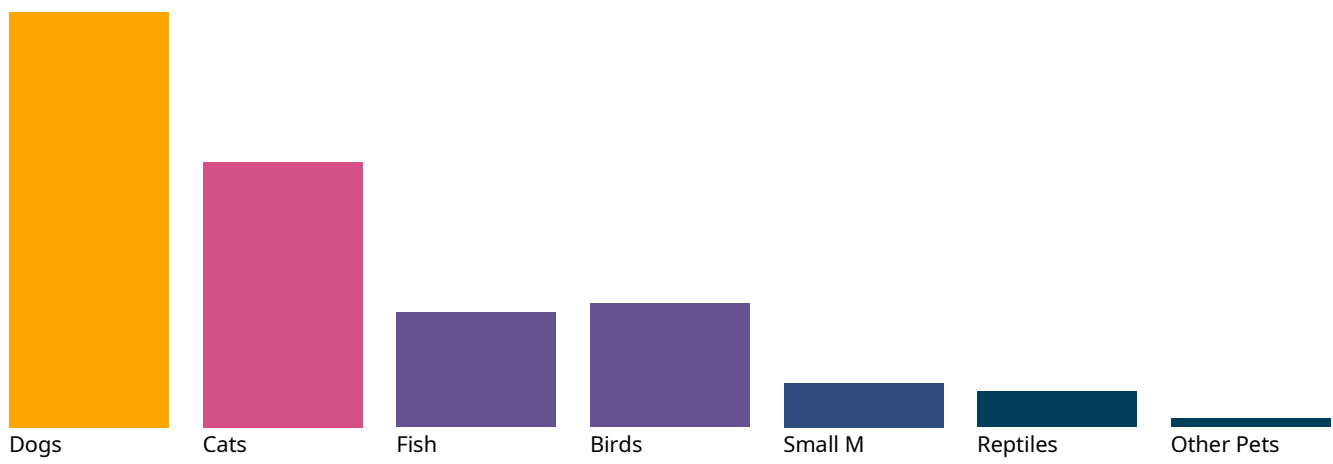


Figure 3: Pet Ownership in 2021

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