

lab-1.2\HTML Starter Template.html

```
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=1.0">
7      <meta name="description" content="Pet Ownership During the COVID Pandemic" />
8      <meta name="keywords" content="HTML, CSS, Pets, COVID, Australia" />
9      <meta name="author" content="Your name here" />
10
11     <title>Pet Ownership During the COVID Pandemic</title>
12
13     <style>
14         /* Base styles */
15         :root {
16             --primary: #3a7ca5;
17             --primary-light: #d9e6f2;
18             --primary-dark: #2c5d7c;
19             --accent: #f39c12;
20             --text: #2d3748;
21             --text-light: #718096;
22             --background: #f8fafc;
23             --card: #ffffff;
24             --border: #e2e8f0;
25             --shadow: 0 4px 6px rgba(0, 0, 0, 0.05), 0 1px 3px rgba(0, 0, 0, 0.1);
26             --shadow-hover: 0 10px 15px rgba(0, 0, 0, 0.1), 0 4px 6px rgba(0, 0, 0, 0.05);
27             --transition: all 0.3s ease;
28         }
29
30         * {
31             box-sizing: border-box;
32             margin: 0;
33             padding: 0;
34         }
35
36         body {
37             font-family: 'Inter', -apple-system, BlinkMacSystemFont, 'Segoe UI', Roboto,
38             Helvetica, Arial, sans-serif;
39             background: var(--background);
40             color: var(--text);
41             line-height: 1.6;
42             padding: 0;
43             margin: 0;
44         }
45
46         /* Layout */
47         .container {
48             max-width: 900px;
```

```
48     margin: 40px auto;
49     background: var(--card);
50     border-radius: 12px;
51     box-shadow: var(--shadow);
52     padding: 40px;
53     position: relative;
54     overflow: hidden;
55 }
56
57 @media (max-width: 768px) {
58     .container {
59         margin: 20px;
60         padding: 30px;
61     }
62 }
63
64 /* Typography */
65 h1 {
66     color: var(--primary-dark);
67     font-size: 2.2rem;
68     margin-bottom: 0.5rem;
69     font-weight: 800;
70     line-height: 1.2;
71     position: relative;
72 }
73
74 h1::after {
75     content: '';
76     display: block;
77     width: 80px;
78     height: 4px;
79     background: var(--accent);
80     margin-top: 12px;
81     border-radius: 2px;
82 }
83
84 h2 {
85     color: var(--primary);
86     font-size: 1.3rem;
87     margin-top: 0.5rem;
88     margin-bottom: 1.5rem;
89     font-weight: 600;
90 }
91
92 p,
93 ul {
94     font-size: 1.05rem;
95     line-height: 1.7;
96     color: var(--text);
97     margin-bottom: 1.5rem;
```

```
98     }
99
100    ul {
101        padding-left: 1.5rem;
102    }
103
104    li {
105        margin-bottom: 0.5rem;
106        position: relative;
107    }
108
109    li::before {
110        content: '•';
111        color: var(--accent);
112        font-weight: bold;
113        display: inline-block;
114        width: 1em;
115        margin-left: -1em;
116    }
117
118    /* Pet Gallery */
119    .pet-gallery {
120        display: flex;
121        gap: 30px;
122        justify-content: center;
123        margin: 40px 0;
124        flex-wrap: wrap;
125    }
126
127    .pet-card {
128        display: flex;
129        flex-direction: column;
130        align-items: center;
131        transition: var(--transition);
132    }
133
134    .pet-card:hover {
135        transform: translateY(-5px);
136    }
137
138    .pet-card img {
139        width: 140px;
140        height: 140px;
141        object-fit: cover;
142        border-radius: 50%;
143        border: 4px solid var(--primary-light);
144        box-shadow: var(--shadow);
145        transition: var(--transition);
146    }
147
```

```
148     .pet-card:hover img {
149         border-color: var(--accent);
150         box-shadow: var(--shadow-hover);
151     }
152
153     .pet-card span {
154         margin-top: 12px;
155         font-weight: 600;
156         color: var(--primary);
157     }
158
159     /* Button container styles */
160     .button-container {
161         display: flex;
162         flex-wrap: wrap;
163         gap: 12px;
164         justify-content: center;
165         margin: 30px 0;
166     }
167
168     /* Button styles */
169     .chart-button {
170         background-color: var(--primary-light);
171         color: var(--primary-dark);
172         border: none;
173         border-radius: 8px;
174         padding: 12px 20px;
175         font-family: inherit;
176         font-size: 0.95rem;
177         font-weight: 600;
178         cursor: pointer;
179         transition: var(--transition);
180         outline: none;
181         box-shadow: 0 2px 4px rgba(0, 0, 0, 0.1);
182     }
183
184     /* Hover effect */
185     .chart-button:hover {
186         background-color: var(--primary);
187         color: white;
188         transform: translateY(-2px);
189         box-shadow: 0 4px 8px rgba(0, 0, 0, 0.15);
190     }
191
192     /* Active button state */
193     .chart-button.active {
194         background-color: var(--primary-dark);
195         color: white;
196         transform: translateY(0);
197         box-shadow: 0 1px 2px rgba(0, 0, 0, 0.1);
```

```
198     }
199
200     /* Figure styles */
201     figure {
202         margin: 40px 0;
203         text-align: center;
204         background: var(--primary-light);
205         padding: 30px;
206         border-radius: 12px;
207         box-shadow: inset 0 2px 4px rgba(0, 0, 0, 0.05);
208         transition: var(--transition);
209     }
210
211     figure img {
212         max-width: 100%;
213         border-radius: 8px;
214         box-shadow: var(--shadow);
215         transition: var(--transition);
216         border: 1px solid var(--border);
217         background: white;
218     }
219
220     /* SVG chart styles */
221     figure svg {
222         max-width: 100%;
223         height: auto;
224         background: white;
225         border-radius: 8px;
226         box-shadow: var(--shadow);
227         transition: var(--transition);
228     }
229
230     figcaption {
231         font-size: 0.95rem;
232         color: var(--primary-dark);
233         margin-top: 16px;
234         line-height: 1.5;
235     }
236
237     figcaption a {
238         color: var(--primary-dark);
239         font-weight: 600;
240         text-decoration: none;
241         border-bottom: 1px dotted;
242         transition: var(--transition);
243     }
244
245     figcaption a:hover {
246         color: var(--accent);
247     }
```

```
248
249 /* Chart container */
250 .chart-container {
251     position: relative;
252     width: 100%;
253     height: 0;
254     padding-bottom: 60%;
255     /* Aspect ratio */
256     overflow: hidden;
257     background: white;
258     border-radius: 8px;
259     box-shadow: var(--shadow);
260 }
261
262 .chart-container object {
263     position: absolute;
264     top: 0;
265     left: 0;
266     width: 100%;
267     height: 100%;
268     border: none;
269 }
270
271 /* Footer */
272 footer {
273     text-align: center;
274     color: var(--text-light);
275     font-size: 0.9rem;
276     margin-top: 40px;
277     padding: 20px 0;
278     border-top: 1px solid var(--border);
279 }
280
281 /* Decorative elements */
282 .bg-pattern {
283     position: absolute;
284     top: 0;
285     right: 0;
286     width: 200px;
287     height: 200px;
288     background-image: radial-gradient(var(--primary-light) 2px, transparent 2px);
289     background-size: 20px 20px;
290     opacity: 0.3;
291     z-index: 0;
292     pointer-events: none;
293 }
294
295 /* Chart animation */
296 @keyframes fadeIn {
297     from {
```

```
298         opacity: 0;
299         transform: translateY(10px);
300     }
301
302     to {
303         opacity: 1;
304         transform: translateY(0);
305     }
306 }
307
308 .chart-container object {
309     animation: fadeIn 0.5s ease-out;
310 }
311
312 /* Responsive design */
313 @media (max-width: 600px) {
314     .button-container {
315         flex-direction: column;
316         align-items: stretch;
317     }
318
319     .chart-button {
320         width: 100%;
321         margin-bottom: 8px;
322     }
323
324     h1 {
325         font-size: 1.8rem;
326     }
327
328     h2 {
329         font-size: 1.2rem;
330     }
331
332     .pet-gallery {
333         gap: 20px;
334     }
335
336     figure {
337         padding: 20px;
338     }
339
340     .chart-container {
341         padding-bottom: 75%;
342         /* Adjust aspect ratio for mobile */
343     }
344 }
345 </style>
346 </head>
347
```

```
348 <body>
349   <div class="container">
350     <div class="bg-pattern"></div>
351     <header>
352       <h1>Pet Ownership During the COVID Pandemic</h1>
353       <h2>Summary of Animal Medicines Australia (AMA) Report</h2>
354     </header>
355
356     <main>
357       <section>
358         <p>A report from Animal Medicines Australia (AMA) found that many Australians
took the opportunity to
359           introduce
360           a pet into their household during the pandemic. Their survey indicated a
significant increase in the
361           percent
362           of households taking in a new dog, fish, or bird. Their research also
indicated that pets had a
363           number of
364           positive influences on their lives such as:</p>
365         <ul>
366           <li>Companionship and reduced feelings of isolation</li>
367           <li>Better mental health and emotional wellbeing</li>
368           <li>Joy, happiness and a sense of purpose</li>
369         </ul>
370         <p>With the increase in pet ownership, the AMA encourages policy makers to
consider the needs of
371           companion
372           animals and their owners when considering rental, strata and body
corporate regulations, as well as
373           accepting animals in public places and transport.</p>
374       </section>
375
376       <div class="pet-gallery">
377         <div class="pet-card">
378           
379           <span>Cats</span>
380         </div>
381         <div class="pet-card">
382           
383           <span>Dogs</span>
384         </div>
385         <div class="pet-card">
386           
387           <span>Fish</span>
388         </div>
389       </div>
390
391       <!-- Button container will be inserted here by JavaScript -->
392
393       <figure>
```



```

394         <div class="chart-container" id="chartContainer">
395             <object id="chartObject" data="chart_comparison.svg"
type="image/svg+xml">
396                 Your browser does not support SVG
397             </object>
398         </div>
399         <figcaption id="chartCaption">Fig 1. Pet ownership comparison between 2019
and 2021. This chart shows
400             the
401             percentage of households owning each type of pet in Australia across both
years. Data Source: <a
402                 href="https://animalmedicinesaustralia.org.au/wp-
content/uploads/2021/08/AMAU005-PATP-Report21_v1.41_WEB.pdf"
403                 target="_blank">Animal Medicines Australia</a>.</figcaption>
404     </figure>
405 </main>
406
407     <footer>
408         <p>COS30045 Data Visualisation &copy; 2023</p>
409     </footer>
410 </div>
411
412 <!-- JavaScript file -->
413 <script>
414     // Chart data and configuration
415     const chartConfig = [
416         {
417             id: 'comparison',
418             title: 'Pet Ownership Comparison (2019 vs 2021)',
419             src: 'chart_comparison.svg',
420             alt: 'Bar chart comparing pet ownership percentages between 2019 and 2021 for
different animal types',
421             description: 'Fig 1. Pet ownership comparison between 2019 and 2021. This
chart shows the percentage of households owning each type of pet in Australia across both
years.'
422         },
423         {
424             id: 'distribution',
425             title: 'Pet Ownership Distribution (2021)',
426             src: 'chart_distribution.svg',
427             alt: 'Pie chart showing the distribution of pet types owned in Australian
households in 2021',
428             description: 'Fig 2. Distribution of pet types in Australian households
(2021). This pie chart displays the relative popularity of different pet types.'
429         },
430         {
431             id: 'change',
432             title: 'Change in Pet Ownership (2019-2021)',
433             src: 'chart_change.svg',
434             alt: 'Bar chart showing the percentage change in pet ownership between 2019
and 2021',

```

```
435         description: 'Fig 3. Percentage change in pet ownership from 2019 to 2021.  
This chart highlights which pet types saw increases or decreases in ownership during the  
pandemic period.'  
436     }  
437 ];  
438  
439 // Initialize the current chart  
440 let currentChartIndex = 0;  
441  
442 // Function to update the visualization  
443 function updateVisualization(index) {  
444     // Get the chart configuration  
445     const chart = chartConfig[index];  
446  
447     // Update the chart object source  
448     const chartObject = document.getElementById('chartObject');  
449     chartObject.data = chart.src;  
450     chartObject.alt = chart.alt;  
451  
452     // Update the figcaption  
453     const figCaption = document.getElementById('chartCaption');  
454     figCaption.innerHTML = chart.description + ' Data Source: <a  
href="https://animalmedicinesaustralia.org.au/wp-content/uploads/2021/08/AMAU005-PATP-  
Report21_v1.41_WEB.pdf" target="_blank">Animal Medicines Australia</a>.';  
455  
456     // Update the active button class  
457     const buttons = document.querySelectorAll('.chart-button');  
458     buttons.forEach((button, i) => {  
459         if (i === index) {  
460             button.classList.add('active');  
461         } else {  
462             button.classList.remove('active');  
463         }  
464     });  
465  
466     // Update current index  
467     currentChartIndex = index;  
468 }  
469  
470 // Function to initialize the visualization controls  
471 function initializeVisualization() {  
472     // Create the button container  
473     const buttonContainer = document.createElement('div');  
474     buttonContainer.className = 'button-container';  
475  
476     // Create buttons for each chart  
477     chartConfig.forEach((chart, index) => {  
478         const button = document.createElement('button');  
479         button.textContent = chart.title;  
480         button.className = 'chart-button';  
481         if (index === 0) button.classList.add('active');
```

```
482
483     // Add click event listener
484     button.addEventListener('click', () => {
485         updateVisualization(index);
486     });
487
488     buttonContainer.appendChild(button);
489 });
490
491 // Find where to insert the button container (before the figure)
492 const figure = document.querySelector('figure');
493 figure.parentNode.insertBefore(buttonContainer, figure);
494
495 // Initial visualization update
496 updateVisualization(0);
497 }
498
499 // Run initialization when the DOM is fully loaded
500 document.addEventListener('DOMContentLoaded', initializeVisualization);
501 </script>
502 </body>
503
504 </html>
```