

Lone Starfish — Midterm (Full Code, Light Theme Syntax Highlighting)

HTML (syntax highlighted)

```
<!doctype html>
<html lang="en">
<head>
  <meta charset="utf-8" />
  <title>Lone Starfish – Midterm</title>
  <meta name="viewport" content="width=device-width, initial-scale=1" />
  <link rel="stylesheet" href="css/styles.css" />
</head>
<body>
  <!-- Page background -->
  <div class="page-bg">
    <!-- Centered white card -->
    <div class="container">

      <!-- ===== HEADER ===== -->
      <!-- Requirement: use IMG for header and position title on top -->
      <header class="site-header" id="home" role="banner">
        
        <h1 class="site-title">Lone Starfish</h1>

        <!-- Display demo (inline-block nav), semantic nav -->
        <nav class="main-nav" aria-label="Primary">
          <ul>
            <li><a href="#home">HOME</a></li>
            <li><a href="#story">STORY</a></li>
            <li><a href="#contact">CONTACT</a></li>
          </ul>
        </nav>
      </header>

      <!-- ===== MAIN ===== -->
      <main id="content" role="main">
        <!-- ===== Article (FLOAT demo) ===== -->
        <article id="story" class="story" aria-labelledby="story-title">
          <h2 id="story-title">Life of a Starfish</h2>

          <!-- Lead image floats left; text wraps (float layout) -->
          <figure class="story-figure">
            
            <figcaption class="visually-hidden">A starfish used as the article's lead image.</figcaption>
          </figure>

          <p>
            Swallowtail catla black angelfish grunter striped bass scissor-tail rasbora; slender mola.
            Snapper catalufa silver driftfish, kaluga lungfish. Torpedo, leopard danio, moon-eye, yellow
            weaver; halibut glowlight danio scorpionfish. Tadpole cod ruffle shingle fish emperor drum
            yellow-edged moray velvet catfish.
          </p>
          <p>
            Featherfin knifefish plaice smelt. Black triggerfish pearl danio ray. Hake, platy peamouth
            searobin trevally dottyback and longfin smelt. Paradise fish chub redhorse sucker grayling.
          </p>
        </article>
      </main>
    </div>
  </body>
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        </p>
    </article>

<!-- ===== Facts (proper list syntax) ===== -->
<section class="facts" aria-labelledby="facts-title">
    <h3 id="facts-title">Facts About Starfish</h3>
    <ul>
        <li>Sea stars are echinoderms, not fish.</li>
        <li>Most have five arms; some species have more.</li>
        <li>They can regenerate lost arms.</li>
        <li>Tube feet help them move and open shells.</li>
    </ul>
</section>

<!-- ===== Contact form (labels linked) ===== -->
<section id="contact" class="contact" aria-labelledby="contact-title">
    <h3 id="contact-title">Contact to learn more</h3>

    <!-- Each label uses for= to link to its input id -->
    <form action="#" method="post" novalidate>
        <div class="form-row">
            <label for="name">Your Name</label>
            <input id="name" name="name" type="text" autocomplete="name" required />
        </div>

        <div class="form-row">
            <label for="email">Your Email</label>
            <input id="email" name="email" type="email" autocomplete="email" required />
        </div>

        <div class="form-row">
            <label for="message">Your Message</label>
            <textarea id="message" name="message" rows="6" required></textarea>
        </div>

        <fieldset class="form-row">
            <legend>Would you like to visit the starfish?</legend>
            <div class="choices">
                <input type="radio" id="visit-yes" name="visit" value="yes" required />
                <label for="visit-yes">Yes</label>

                <input type="radio" id="visit-no" name="visit" value="no" />
                <label for="visit-no">No</label>

                <input type="radio" id="visit-maybe" name="visit" value="maybe" />
                <label for="visit-maybe">Maybe</label>
            </div>
        </fieldset>

        <button type="submit">Send</button>
    </form>
</section>

<!-- ===== Layout Demo (explicit learning outcomes) ===== -->
<section class="layout-demo" aria-labelledby="layout-demo-title">
    <h3 id="layout-demo-title">Layout Demo: Box Model · Display · Float · Position · Overflow</h3>

    <!-- Display examples -->
    <p class="tiny-label">This label is <code>display:inline</code>. </p>
    <p class="hidden-note">You can't see me — I'm <code>display:none</code>. </p>

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<!-- Box Model / box-sizing -->
<div class="box-row">
    <div class="box content-box">
        <strong>content-box (default)</strong>
        <span class="box-size">Padding/border increase outer size.</span>
    </div>
    <div class="box border-box">
        <strong>border-box</strong>
        <span class="box-size">Outer size stays fixed at 260px.</span>
    </div>
</div>

<!-- Overflow control -->
<div class="overflow-row">
    <div class="overflow-panel scroll">
        <h4>Overflow: auto (scroll)</h4>
        <p>
            This panel is purposely too small. When content exceeds the height, a scrollbar appears.
            Add more text... Add more...
        </p>
    </div>

    <div class="overflow-panel clipped">
        <h4>Overflow: hidden (clipped)</h4>
        <p class="one-line">
            This text is on one line with ellipsis if it's too long to fit inside the panel area.
        </p>
    </div>
</div>

<!-- Positioning: absolute inside relative -->
<div class="position-demo">
    
    <span class="badge">ABSOLUTE</span>
</div>
</section>
</main>

<!-- ===== FOOTER ===== -->
<footer class="site-footer" role="contentinfo">
    <p>&copy; <span id="year"></span> Lone Starfish.</p>
</footer>
</div>
</div>

<!-- Small helper to keep the year current -->
<script>
    document.getElementById('year').textContent = new Date().getFullYear();
</script>
</body>
</html>

```

CSS (syntax highlighted)

```

/*
=====
Midterm - Lone Starfish
Demonstrates: Box Model, box-sizing, Display, Float,

```

```
Positioning, Overflow
===== */

/* ----- Base / reset ----- */
*{ box-sizing: border-box; } /* default; overridden in .content-box demo */
html, body{ margin: 0; padding: 0; }
body{
  font-family: -apple-system, BlinkMacSystemFont, "Segoe UI", Roboto, Arial, sans-serif;
  line-height: 1.6;
  color: #1f2a2e;
  background: #b9d6d0; /* teal page background like mockup */
}

/* Utility: hide visually but keep for screen readers */
.visually-hidden{
  position: absolute !important;
  width: 1px; height: 1px; overflow: hidden;
  clip: rect(1px,1px,1px,1px); white-space: nowrap;
}

/* ----- Layout wrappers ----- */
.page-bg{ padding: 2rem 0; }
.container{
  width: min(960px, 92vw);
  margin: 0 auto;
  background: #fff;
  border-radius: 8px;
  box-shadow: 0 6px 24px rgba(0,0,0,.08);
  overflow: hidden; /* rounds header corners and is an overflow example */
}

/* ----- Header ----- */
.site-header{ position: relative; } /* for absolute title */
.header-img{
  display: block;
  width: 100%;
  height: 240px;
  object-fit: cover;
  filter: saturate(.95);
}
/* Positioning: absolute title over image */
.site-title{
  position: absolute;
  inset: 0 0 auto 0;
  margin: 0;
  padding-top: 72px;
  text-align: center;
  font-size: clamp(28px, 5vw, 56px);
  font-weight: 500;
  color: #f5ffff;
  text-shadow: 0 2px 10px rgba(0,0,0,.35);
}

/* ----- Nav (Display demo: inline-block items) ----- */
.main-nav{
  background: #d9e9e5;
  border-top: 1px solid #c8ded8;
  border-bottom: 1px solid #c8ded8;
}
.main-nav ul{ list-style: none; margin: 0; padding: 0; display: block; }
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.main-nav li{ display: inline-block; width: 33.333%; } /* display demo */
.main-nav a{
  display: block; text-align: center; text-decoration: none;
  padding: 10px 0;
  color: #1b2a2e; font-weight: 700; letter-spacing: .02em;
}
.main-nav a:hover, .main-nav a:focus{ background: #cfe3de; }

/* ----- Main ----- */
main{ padding: 1.25rem 1.5rem 2rem; }

.story h2, .facts h3, .contact h3, .layout-demo h3{ margin-top: .75rem; }

/* FLOAT demo: wrap text around the image */
.story-figure{ margin: 0; }
.story-img{
  float: left; /* key: float layout */
  width: min(220px, 40%);
  height: auto;
  margin: 0 .9rem .5rem 0;
  border: 4px solid #e7efec;
  border-radius: 6px;
  shape-outside: inset(0 round 6px); /* nicer wrap (progressive enhancement) */
}
/* Clear the float after article content */
.story::after{ content: ""; display: block; clear: both; }

/* Facts block */
.facts{
  background: #eef6f3;
  border: 1px solid #d6e8e2;
  padding: .75rem 1rem;
  margin-top: 1rem;
  border-radius: 6px;
}
.facts ul{ margin: .25rem 0 .25rem 1.2rem; }

/* ----- Form (labels linked) ----- */
.contact form{
  margin-top: .5rem;
  border: 1px solid #dfe8e5;
  padding: 1rem;
  border-radius: 6px;
  background: #f8fbfa;
}
.form-row{ display: grid; gap: .4rem; margin-bottom: .9rem; }
label{ font-weight: 600; }
input[type="text"], input[type="email"], textarea{
  width: 100%;
  padding: .6rem .7rem;
  border: 1px solid #cfcdcd8;
  border-radius: 4px;
  font: inherit;
}
textarea{ resize: vertical; }
fieldset.form-row{ border: 0; padding: 0; margin: 0 0 .9rem 0; }
legend{ font-weight: 700; margin-bottom: .35rem; }
.choices{ display: inline-grid; grid-auto-flow: column; gap: .75rem; align-items: center; }
button[type="submit"]{
  appearance: none; border: 0; padding: .6rem 1rem; border-radius: 6px;
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    background: #2a5f5a; color: #fff; font-weight: 700; cursor: pointer;
}
button[type="submit"]: hover, button[type="submit"]:focus{ filter: brightness(1.05); }

/* ----- Layout Demo (learning outcomes) ----- */
/* Display examples */
.tiny-label{
  display: inline; /* inline example */
  padding: .1rem .4rem;
  background: #eef6f3;
  border: 1px solid #d6e8e2;
  border-radius: 3px;
}
.hidden-note{ display: none; } /* hidden example */

/* Box Model + box-sizing */
.layout-demo{ margin-top: 1.25rem; }
.box-row{
  display: grid; grid-template-columns: repeat(2, minmax(0, 1fr));
  gap: 1rem; margin: .75rem 0 1rem;
}
.box{
  width: 260px; /* compare outer size */
  background: #f3faf8;
  border: 8px solid #cfe3de; /* border to visualize box model */
  padding: 20px; /* padding to visualize growth */
  border-radius: 6px;
  color: #1f2a2e;
}
.content-box{ box-sizing: content-box; } /* outer grows */
.border-box{ box-sizing: border-box; } /* outer stays 260px */
.box strong{ display: block; margin-bottom: .25rem; }
.box-size{ font-size: .9rem; color: #496a6a; }

/* Overflow control */
.overflow-row{
  display: grid; grid-template-columns: repeat(2, minmax(0, 1fr));
  gap: 1rem;
}
.overflow-panel{
  border: 1px solid #d6e8e2; background: #fff;
  border-radius: 6px; padding: .75rem; height: 180px;
}
.scroll{ overflow: auto; } /* scrollbars when needed */
.clipped{ overflow: hidden; } /* anything extra is clipped */
.one-line{
  white-space: nowrap; overflow: hidden; text-overflow: ellipsis;
  border-top: 1px dashed #d6e8e2; padding-top: .5rem; margin-top: .5rem;
}

/* Positioning demo: absolute inside relative */
.position-demo{
  position: relative; /* containing block */
  margin-top: 1rem; border-radius: 8px;
  overflow: hidden; border: 1px solid #d6e8e2;
}
.position-demo img{
  display: block; width: 100%; height: 160px; object-fit: cover;
}
.position-demo .badge{
```

```
position: absolute; top: 10px; right: 10px;
padding: .25rem .5rem; background: #2a5f5a; color: #fff;
font-weight: 700; border-radius: 4px; letter-spacing: .03em;
}

/* ----- Footer ----- */
.site-footer{
  padding: 1rem 1.5rem 1.4rem;
  border-top: 1px solid #e4eeee;
  color: #4b6465;
  font-size: .9rem;
  text-align: right;
}

/* ----- Small screens ----- */
@media (max-width: 560px){
  .story-img{ width: 48%; }
  .main-nav li{ width: 100%; } /* stack nav */
}
```