```
Shafigullin T, Lab 1
```

```
#1
a)
       ------WRITE A POEM
<html>
              <head>
                     <title>Challenge: Write a Poem</title>
                     <meta charset="utf-8">
              </head>
              <body>
              <h1>Dreams</h1>
                     >
                            Hi person<br>
                            I know nothing<br>
                            Great to continue < br>>
                     </body>
       </html>
-----TEXT FONT
<html>
 <head>
   <title>Challenge: You can learn text tags</title>
   <meta charset="utf-8">
 </head>
 <body>
   >
       Nobody's born smart. We all start at 0. Can't talk, can't walk, certainly can't do algebra. <br/> 
       Adding, reading, writing, riding a bike. Nobody's good at anything at first.<br/>
       There was a time when Einstein couldn't count to 10.<br>
```

And Shakespeare had to learn his ABCs just like the rest of us.


```
<em>Thankfully, we are born to learn.</em><br>
       Slowly. Surely. You stumble, slip, crawl, fall and fail and fall.<br>
       Frustrating. Confusing. Trying. Struggling. <br/> 
       Until one day, you walk.<br>
       One foot in front of the other. One idea on top of the next.<br
       Each wrong answer making your brain a little bit stronger.<br>
       Failing is just another word for growing. And you keep going. <br/> tr>
       This. is. learning.<br>
       It's not that you don't get it. <br>
       You just don't get it, yet.
       Because the most beautiful, complex concepts in the whole universe<br>
       are built on basic ideas that anyone, anywhere can understand.<br>
       Whoever you are, wherever you are. <br>
    >
       <strong>You only have to know one thing:</strong><br>
       <strong><em>You can learn anything.</em></strong>
    </body>
</html>
-----LISTS
<html>
 <head>
    <title>Challenge: Wishlist</title>
    <meta charset="utf-8">
 </head>
  <body>
   <h1>My wishlist</h1>
    Get a cat
      To buy a car
```

```
Visit Paris
    </body>
</html>
 ----- IMAGES
<html>
  <head>
   <title>Challenge: A picture-perfect trip</title>
   <meta charset="utf-8">
 </head>
 <body>
   <h1>The perfect trip</h1>
   I would see scenes like...
    <img src="https://cdn.kastatic.org/third_party/javascript-khansrc/live-
editor/build/images/cute/WindowTall.png" alt="Sitting at home" width="100" height="100">
   And animals like...
    <img src="https://cdn.kastatic.org/third_party/javascript-khansrc/live-
editor/build/images/creatures/Hopper-Happy.png" alt="Typical animal"width="100" height="50">
   And eat food like...
    <img src="https://cdn.kastatic.org/third_party/javascript-khansrc/live-
editor/build/images/cute/TreeUgly.png" alt="Typical eat food"width="50" height="100">
 </body>
</html>
b)
-----CSS BASICS
<html>
  <head>
   <meta charset="utf-8">
```

```
<title>Challenge: Colorful creature</title>
    <style>
   h1 {
      color: rgb(255,140,0);
   }
   body {
      background-color: rgb(100,120,250);
   }
   p {
      color: rgb(100,20,50);
   }
    </style>
  </head>
  <body>
   <h1>The coolest creature</h1>
    The <em>ferret</em> is awesome because <strong>it is very cute</strong>.
    <img src="https://cdn.kastatic.org/third_party/javascript-khansrc/live-
editor/build/images/creatures/Hopper-Jumping.png" alt="Good ferret">
 </body>
</html>
-----SELECTING BY ID
<html>
  <head>
    <meta charset="utf-8">
    <title>Challenge: Seasonal ids</title>
    <style>
      #summer {
        background-color: rgb(255, 230, 0);
      }
      #winter {
        background-color: rgb(0, 38, 255);
```

```
}
   </style>
 </head>
 <body>
   <h1>Olaf's favorite seasons</h1>
   <h2 id="summer">Summer</h2>
   He's a happy snowman, doing what frozen things do in summer.
   <h2 id="winter">Winter</h2>
   He likes to stay in and cuddle
 </body>
</html>
-----APPLES AND BANANAS CLASSES
<html>
 <head>
   <meta charset="utf-8">
   <title>Challenge: Apples and bananas classes</title>
    <style>
     .apples{
       background-color: red;
     }
     .bananas{
       background-color: yellow;
     }
   </style>
 </head>
 <body>
 <h1><strong class="apples">Apples</strong> and <strong class="bananas">Bananas</strong></h1>
  >
 I like to eat eat eat
```

```
<strong class="apples">apples</strong> and
  <strong class="bananas">bananas</strong>.<br>
I like to eat eat eat
  <strong class="apples">apples</strong> and
  <strong class="bananas">bananas</strong>.<br>
I like to ate ate ate
  <strong class="apples">ay-ples</strong> and
  <strong class="bananas">bay-nay-nays</strong>.<br>
I like to ate ate ate
  <strong class="apples">ay-ples</strong> and
  <strong class="bananas">bay-nay-nays</strong>.<br>
I like to eet eet eet
  <strong class="apples">ee-ples</strong> and
  <strong class="bananas">bee-nee-nees</strong>.<br>
I like to eet eet eet
  <strong class="apples">ee-ples</strong> and
  <strong class="bananas">bee-nee-nees</strong>.<br>
I like to ite ite ite
  <strong class="apples">i-ples</strong> and
  <strong class="bananas">by-by-nys</strong>.<br>
I like to ite ite ite
  <strong class="apples">i-ples</strong> and
  <strong class="bananas">by-by-nys</strong>.<br>
I like to ote ote ote
  <strong class="apples">oh-ples</strong> and
  <strong class="bananas">bo-no-nos</strong>.<br>
I like to ote ote ote
  <strong class="apples">oh-ples</strong> and
  <strong class="bananas">bo-no-nos</strong>.<br>
I like to ute ute ute
  <strong class="apples">uupples</strong> and
```

```
<strong class="bananas">bununus</strong>.<br>
    I like to ute ute ute
         <strong class="apples">uupples</strong> and
         <strong class="bananas">bununus</strong>.<br>
    I like to eat eat eat
         <strong class="apples">apples</strong> and
         <strong class="bananas">bananas</strong>.<br>
</body>
</html>
c)
-----LINKS
<html>
    <head>
         <meta charset="utf-8">
         <title>Challenge: Links for learning</title>
    </head>
    <body>
         <h1>Links for learning</h1>
         <a href="https://www.khanacademy.org/computing/computer-programming/html-css/html-
tags-continued/pt/html-links">The first link</a>
              <a
href="https://www.google.com/search?q=cheese&tbm=isch&ved=2ahUKEwi62PeFpub1AhVhWOUKHdJ
1B8YQ2-
cCegQIABAA&oq=cheese&gs_lcp=CgNpbWcQAzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECAAQQzIECA
AQQzIECAAQQzIFCAAQgAQyBQgAEIAEMgUIABCABDoHCCMQ7wMQJzoLCAAQgAQQsQMQgwE6CAgAEI
AEELEDUABYtwlgpwtoAHAAeACAAXqIAb8FkgEDMC42mAEAoAEBqgELZ3dzLXdpei1pbWfAAQE&sclient=i
mg&ei=Tj39Ybr5OeGwlQfS652wDA&bih=937&biw=1920#imgrc=J-RZpawbiZ1axM">New ideak</a>
              <a
href="https://classroom.udacity.com/courses/ud001/lessons/6987421963/concepts/74229205890923"
>The last link</a>
         <a href="https://www.w3schools.com/">
```

```
<img src="https://www.kasandbox.org/programming-images/cute/Heart.png">
 </a>
 </body>
</html>
-----JUMP AROUND
<html>
 <head>
   <meta charset="utf-8">
   <title>Challenge: Jump around</title>
 </head>
 <body>
 <h1 id="kangaroos">Kangaroos</h1>
 Jump to sections:
   <a href="#locomotion">Locomotion</a>,
   <a href="#diet">Diet</a>
```

The kangaroo is a marsupial from the family Macropodidae (macropods, meaning 'large foot'). In common use the term is used to describe the largest species from this family, especially those of the genus Macropus, red kangaroo, antilopine kangaroo, eastern grey kangaroo and western grey kangaroo. Kangaroos are endemic to Australia, and one genus, the tree-kangaroo, is also found in Papua New Guinea.

Kangaroos have large, powerful hind legs, large feet adapted for leaping, a long muscular tail for balance, and a small head. Like most marsupials, female kangaroos have a pouch called a marsupium in which joeys complete postnatal development.

Larger kangaroos have adapted much better than smaller macropods to land clearing for pastoral agriculture and habitat changes brought to the Australian landscape by humans. Many of the smaller species are rare and endangered, whilst the larger kangaroos are relatively plentiful.

A Tasmanian forester (eastern grey) kangaroo in motion.

Kangaroos are the only large animals to use hopping as a means of locomotion. The comfortable hopping speed for a red kangaroo is about 20–25 km/h (13–16 mph), but speeds of up to 70 km/h (44 mph) can be attained over short distances, while it can sustain a speed of 40 km/h (25 mph) for nearly 2 km (1.2 mi). This fast and energy-efficient method of travel has evolved because of the need to regularly cover large distances in search of food and water, rather than the need to escape predators. At slow speeds, it employs pentapedal locomotion, using its tail to form a tripod with its two forelimbs while bringing its hind feet forward. Kangaroos are adept swimmers, and often flee into waterways if threatened by a predator. If pursued into the water, a kangaroo may use its forepaws to hold the predator underwater so as to drown it.

```
<h3 id="diet">Diet</h3>
```

Kangaroos have chambered stomachs similar to those of cattle and sheep. They regurgitate the vegetation they have eaten, chew it as cud, and then swallow it again for final digestion. Different species of kangaroos have different diets, although all are strict herbivores. The eastern grey kangaroo is predominantly a grazer, eating a wide variety of grasses, whereas some other species (e.g. the red kangaroo) include significant amounts of shrubs in their diets. The smaller species of kangaroos also consume hypogeal fungi. Many species are nocturnal, and crepuscular, usually spending the days resting in shade, and the cool evenings, nights and mornings moving about and feeding.

Recause of its grazing habits, the kangaroo has developed specialized teeth. Its incisors are able to crop grass close to the ground, and its molars chop and grind the grass. Since the two sides of the lower jaw are not joined together, the lower incisors are farther apart, giving the kangaroo a wider bite. The silica in grass is abrasive, so kangaroo molars move forward as they are ground down, and eventually fall out, replaced by new teeth that grow in the back. This process is known as polyphyodonty and amongst other mammals, only occurs in elephants and manatees.

```
<a href="#kangaroos">kangaroos</a> |
<a href="http://en.wikipedia.org/wiki/Kangaroo">Read more on Wikipedia</a> 

</body>
</html>
------Dinner
<html>
<head>
<meta charset="utf-8">
```

```
<title>Challenge: The dinner table</title>
</head>
<body>
 <h1>Our dinner menu</h1>
 <thead>
   Meal
    Ingredients
    Price
   </thead>
  oatmeal porridge
    oatmeal, water, butter
    100
   Besbarmar
    horse meat, beaf, pasta
    500
   meatballs with buckwheat
    meatballs, buckwheat
    200
```

```
</body>
</html>
d)
-----FANCY FONT FAMILIES
<html>
 <head>
   <meta charset="utf-8">
   <title>Challenge: Fancy font families</title>
   <style>
   #flinstones {
     font-family:fantasy;
   }
   #jetsons {
     font-family:monospace;
   }
   #addams {
     font-family:cursive;
   }
   body {
     font-family: fantasy;
   }
   </style>
 </head>
 <body>
 Some fun theme songs of well known TV families...
 <h4>The Flinstones</h4>
```

```
Meet the Flintstones<br>
 They're the modern stone age family<br>
 From the town of Bedrock<br>
 They're a page right of history
 <h4>The Jetsons</h4>
 Meet George Jetson, <br>
 His Boy Elroy, <br>
 Daughter Judy, <br>
 Jane, His wife
 <h4>The Addams Family</h4>
 They're creepy and they're kooky, <br>
 mysterious and spooky<br>
 They're all together ooky,<br>
 the Addams Family
 </body>
</html>
 -----GREAT BIG FONT SIZES
<html>
 <head>
   <meta charset="utf-8">
   <title>Challenge: Great big font sizes</title>
   <style>
     .big {
       font-size: 2em;
     }
```

```
.bigger {
        font-size: 4em;
      }
    </style>
  </head>
  <body>
<h1>Great Big Words</h1>
<h2>by Michael Mark & Tom Chapin</h2>
When I was a little kid,
a "<em class="big">diminutive juvenile</em>," <br>
I liked my folks to read to me,
I was an <em class="big">"eager bibliophile."</em> <br>
Now I love words for how they sound <br>
And how they <em class="big">"communicate."</em> <br>
Perhaps I should explain myself,
that is, <em class="big">"elucidate."</em> <br>
Great big words, I like <em class="big">big</em> words. <br>
Letter by letter, the <em class="bigger">bigger</em> the better <br>
Great big words. La la la la la la la la la la!
  </body>
</html>
   -----FAMOUS FONT FORMATS
<html>
  <head>
    <meta charset="utf-8">
    <title>Challenge: Famous font formats</title>
    <style>
      .declaration {
```

```
font-style: italic;
     font-weight: bold;
   }
   .quote {
    font-style: italic;
   }
 </style>
</head>
<body>
<h2>Famous quotes</h2>
"My mama always said life was like a box of chocolates. You never know what you're gonna get.".
<br > - Forrest Gump
"May the force be with you."
<br > Star Wars
<h2>Famous declarations</h2>
I'M BATMAN.
Earth, water, fire. Together, we are CAPTAIN PLANET!
```

```
</body>
</html>
e) NO TASKS
f)
        -----GROUP THE GROUPERS
<html>
  <head>
    <meta charset="utf-8">
    <title>Challenge: Group the groupers</title>
    <style>
      .first-sentence{
        font-weight:bold;
     }
      .info{
        background-color: yellow;
     }
    </style>
  </head>
  <body>
    <h1>Groupers</h1>
```

Groupers are teleosts (ray-finned fishes), typically having a stout body and a large mouth.
for up to 100 kg are not uncommon, though obviously in such a large group, species vary considerably. They swallow prey rather than biting pieces off it. They do not have many teeth on the edges of their jaws, but they have heavy crushing tooth plates inside the pharynx. They habitually eat fish, octopuses, and crustaceans. Reports of fatal attacks on humans by the largest species, the giant grouper (Epinephelus lanceolatus) are unconfirmed.

<div class="info">Their mouths and gills form a powerful sucking
system that sucks their prey in from a distance. They also use their mouths to dig into sand to
form their shelters under big rocks, jetting it out through their gills. Their gill muscles are so powerful, it

is nearly impossible to pull them out of a cave if they feel attacked and extend those muscles to lock themselves in.

Read more on Wikipedia </body> </html> -----THE OVERFLOWING OCEAN <html> <head> <meta charset="utf-8"> <title>Challenge: The overflowing ocean</title> <style> .info { background: rgb(219, 235, 255); width: 70%; height: 200px; overflow: auto; } .pic { width: 70%; } </style> </head> <body> <h1>The ocean</h1>

<div class="info">

The ocean is the connected body of salty water that covers 70.8% of the Earth's surface. The sea moderates the Earth's climate and has important roles in the water cycle, carbon cycle, and nitrogen cycle. Although the sea has been travelled and explored since prehistory, the modern scientific study of the sea—oceanography—dates broadly to the British Challenger expedition of the 1870s. The sea is conventionally divided into four or five large sections, such as the Pacific, called oceans while smaller sections, such as the Mediterranean, are known as seas.

.pic {

Owing to the present state of continental drift, the Northern Hemisphere is now fairly equally divided between land and sea (a ratio of about 2:3) but the South is overwhelmingly oceanic (1:4.7). Salinity in the open ocean is generally in a narrow band around 3.5% by mass, although this can vary in more landlocked waters, near the mouths of large rivers, or at great depths. About 85% of the solids in the open sea are sodium and chloride. Deep-sea currents are produced by differences in salinity and temperature. Surface currents are formed by the friction of waves produced by the wind and by tides, the changes in local sea level produced by the gravity of the Moon and Sun. The direction of all of these is governed by surface and submarine land masses and by the rotation of the Earth (the Coriolis effect).

```
<a href="http://en.wikipedia.org/wiki/Sea">Read more on Wikipedia</a>
   </div>
 </body>
</html>
          -----THE BOXER MODEL
<html>
 <head>
   <meta charset="utf-8">
   <title>Challenge: The overflowing ocean</title>
   <style>
     .info {
       background: rgb(219, 235, 255);
       width: 70%;
       height: 200px;
       overflow: auto;
     }
```

```
width: 70%;

}

</style>

</head>

<body>

<h1>The ocean</h1>
```



```
<div class="info">
```

The ocean is the connected body of salty water that covers 70.8% of the Earth's surface. The sea moderates the Earth's climate and has important roles in the water cycle, carbon cycle, and nitrogen cycle. Although the sea has been travelled and explored since prehistory, the modern scientific study of the sea—oceanography—dates broadly to the British Challenger expedition of the 1870s. The sea is conventionally divided into four or five large sections, such as the Pacific, called oceans while smaller sections, such as the Mediterranean, are known as seas.

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```
<a href="http://en.wikipedia.org/wiki/Sea">Read more on Wikipedia</a>
</div>
</body>
</html>
------POSITION PLANET
```

```
<html>
  <head>
    <meta charset="utf-8">
    <title>Challenge: Position planet</title>
    <style>
      #greeting {
        background: rgb(255, 255, 0);
        border: 2px solid black;
        font-family: "Comic Sans MS", fantasy;
        padding: 5px;
        width: 262px;
        position: absolute;
        top: 20px;
        left: 50px;
        z-index: 1;
      }
      #creature {
        position: absolute;
        top: 90px;
        left: 80px;
        width: 100px;
      }
    </style>
  </head>
  <body>
    <img id="planet" src="https://www.kasandbox.org/programming-images/space/planet.png"</pre>
width="300">
    <div id="greeting">
```

```
Hello! Welcome to position planet!
   </div>
   <img id="creature" src="https://www.kasandbox.org/programming-images/avatars/mr-pink.png">
 </body>
</html>
  -----FLOATING CLOUDS
<html>
 <head>
   <meta charset="utf-8">
   <title>Challenge: Floating clouds</title>
   <style>
     body {
       font-family: sans-serif;
     }
     h1 {
       font-family: fantasy;
     }
     #cloud-pic {
       width: 100px;
       float: left;
       margin-right: 6px;
     }
     #cloud-sidebar {
       background: rgb(255, 255, 219);
       float: right;
       width: 25%;
       margin-left: 3px;
     }
```

<body></body>
<h1>What are clouds?</h1>
<pre><img id="cloud-pic" src="https://www.kasandbox.org/programming-images/landscapes/clouds-</pre></td></tr><tr><td>from-plane.png"/></pre>
<div id="cloud-sidebar"></div>
<h5>Why are some clouds yellow?</h5>
Yellowish clouds may occur in the late spring through early fall months during forest fire
season. The yellow color is due to the presence of pollutants in the smoke. Yellowish clouds caused by the presence of nitrogen dioxide are sometimes seen in urban areas with high air pollution levels.
In meteorology, a cloud is a visible mass of liquid droplets or frozen crystals made of water or
various chemicals suspended in the atmosphere above the surface of a planetary body. These suspended particles are also known as aerosols and are studied in the cloud physics branch of
meteorology.
Terrestrial cloud formation is the result of air in Earth's atmosphere becoming saturated due to either or both of two processes: cooling of the air and adding water vapor. With sufficient saturation,
precipitation will fall to the surface.
Read more on Wikipedia
. ()
g)
A CLASSY GALLERY

```
<html>
 <head>
    <meta charset="utf-8">
    <title>Challenge: A classy gallery</title>
    <style>
      body {
        font-family: cursive;
      }
      .image-small {
        width: 150px;
      }
      .image-medium {
        width: 200px;
      }
      .black-frame {
        border: 8px double rgb(38, 38, 38);
      }
      .gold-frame {
        border: 10px ridge rgb(255, 183, 0);
      }
      .silver-frame {
        border: 10px groove rgb(204, 204, 204);
      }
    </style>
 </head>
  <body>
    <h1>A classy gallery</h1>
```



```
</body>
</html>
------CLASSES OF ELEMENTS
<html>
 <head>
   <meta charset="utf-8">
   <title>Challenge: Classes of elements</title>
   <style>
     .metal {
      color: red;
     }
     .non-metal {
       color: blue;
     }
     .semi-metal {
       color: purple;
     }
     h2.metal {
       background-color: red;
      color: white;
     }
```

h2.non-metal {

```
background-color: blue;
     color: white;
   }
   h2.semi-metal {
     background-color: purple;
     color: white;
   }
 </style>
</head>
<body>
 <h1>The Periodic Table</h1>
 >
   There are three broad classes of elements:
   <strong class="metal">metals</strong>,
   <strong class="non-metal">non-metals</strong>,
   and <strong class="semi-metal">semi-metals</strong>.
  <h2 class="metal">Metals</h2>
 Solid
   Good conductors of electricity
   Ductile
   Malleable
 <h2 class="non-metal">Non-metals</h2>
 Brittle
   Poor conductors
```

```
<h2 class="semi-metal">Semi-metals (Metalloids)</h2>
   Partially conduct electricity
   </body>
</html>
  -----DESCENDANTS OF KHAN
<html>
 <head>
   <meta charset="utf-8">
   <title>Challenge: Descendants of Khan</title>
   <style>
     .emperor {
       font-family: cursive;
     }
     table .emperor{
       background-color: red;
     }
     .reign {
       font-family: monospace;
     }
     table .reign{
       background-color: yellow;
     }
   </style>
 </head>
 <body>
```

<strong class="emperor">Genghis Khan (1206-1227) was a emperor who had many sons and daughters, and many famous emperors are descended from him. (But not Sal Khan!)

```
<thead>
 Name
  Reign
 </thead>
 Ögedei Khan
  1229-1241
 Kublai Khan
  1260-1294
 Temür Khan
  1294-1307
 </body>
</html>
```

------Grouped animals

```
<html>
 <head>
    <meta charset="utf-8">
    <title>Challenge: Grouped animals</title>
    <style>
      p {
        font-family: sans-serif;
      }
      img {
        max-width: 150px;
      }
      h1, h2 {
        font-family: fantasy;
        border-bottom: 1px solid rgb(230, 230, 230);
        padding: 3px;
      }
      h1:hover, h2:hover {
        background-color: rgb(248, 255, 199);
      }
    </style>
  </head>
  <body>
```

<h1>Animal group names</h1>

For many species of animals, there are names that we use to refer to a group of them - like a flock of birds. Here are a few you might not know.

```
<h2>A skulk of foxes</h2>
   Also called a "leash."
   <img src="https://www.kasandbox.org/programming-images/animals/fox.png">
   <img src="https://www.kasandbox.org/programming-images/animals/fox.png">
   <h2>A clowder of cats</h2>
   Also called a "pounce", "glaring", "kindle", or "clutter."
   <img src="https://www.kasandbox.org/programming-images/animals/cat.png">
   <img src="https://www.kasandbox.org/programming-images/animals/cat.png">
   >
   <a href="http://en.wikipedia.org/wiki/List_of_animal_names">Learn more on Wikipedia</a>
   </body>
</html>
#2
 ------Make your first element
Hello world
Your eyes
<h1>I am here</h1>
```

<h1>Hello there</h1>
Hello guys
I am free
HTML RESEARCH
This text should be bold
And this text should have emphasis (italics).
Button
<button>Some button</button>
Headers
html
</td
When you've finished your headers, click over to solution.html in this workspace to see how I did it.
>
<head></head>
<title>My page</title>
<body></body>
<h1>The paragraph 1</h1>
Add your headers below this paragraph element! Add an h1, h2, h3, and h4. You should see your new headers displayed in the preview pane.
<h2>The paragraph 2</h2>
>Don't forget to add some text to your headers. They won't display anything otherwise.
MAKE A LIST
html
<html></html>

```
<!--
When you've made your list, click over to the solution.html file to see how I did it.
-->
<body>
Create an unordered list! Make a list of the three web languages: HTML, CSS and JavaScript.
 HTML
  CSS
  JAVASCRIPT
 </body>
</html>
 -----TREE TO HTML
<!DOCTYPE html>
<html lang="en">
<body>
<!-- Did you notice that the body tag - the top of the sample tree - is already here? You don't need to
add another one. When you're done, you can click over to the solution.html to check your work.-->
<h1>Hello there</h1>
<div>
      Look at the Workspace, below.
 Watch your website change in the preview panel.
</div>
</body>
</html>
-----ADD A IMAGE
<!DOCTYPE html>
<html lang="en">
<body>
```

This is a big paragraph of text about Udacity. Cool. Cool. And here is an image! put the image element here!

FIGURES
html
<html lang="en"></html>
<body></body>
</td
You'll see some text written like this below: [words that are displayed](http://website.com). This is Markdown syntax for a link. You can think of Markdown as HTML shorthand. You'll need to turn it into HTML that looks like words that are displayed .
Learn more about Markdown here: https://daringfireball.net/projects/markdown/>
Turn this into HTML!

Stout Memorial Grove in Jedediah Smith Redwoods State Park in 2011 by Chmee2Own work)
Photo from Wikimedia
MOCKUP TO WEBSITE
html
<html lang="en"></html>

>

<head></head>
<meta charset="utf-8"/>
<title>Web Dev Blog Post</title>
<body></body>
Format the text below! When you're done, you can click over to solution.html to see how I did it.</td
>
<h1>Hottest Jobs in 2016 #2: Web Developer</h1>
<div></div>
By Christopher Watkins
January 19, 2016

<pre><img src="http://i1.wp.com/blog.udacity.com/wp-content/uploads/2016/01/Slack-for-iOS-
Upload.jpg?zoom=2&resize=320%2C168"/></pre>
There is a simple reason why Web Developer is such a hot job right now. Put simply, what Web Developers do is create how we experience the web. If you proceed from the notion that every person who engages with the web would prefer a great experience, then you can say that everyone who engages with the web would prefer that a Web Developer have done a great job. Companies of course know this, so they hire Web Developers to ensure their sites provide great experiences. So, lots of websites and lots of users means lots of demand. LOTS of demand. 2
CSS SYNTAX
html

```
<html>
<head>
      <title>Quiz - Hello, world!</title>
 <style>
             p {
                    color: blue;
             }
   /* add CSS here */
      h1 {
    color: green;
      }
 </style>
</head>
<body>
      <h1>Hello, world!</h1>
      Are you ready for your first challenge?
      Let's add some style to this webpage!
</body>
</html>
 -----UNITS IN CSS
<!DOCTYPE html>
<html>
<head>
 <title>Quiz - Units in CSS</title>
 <style>
      .first {
     width: 100px;
```

<!-- Instructions: Change the color of "Hello, world!" to green. -->

```
}
.second {
height: 200px;
}
.third {
margin: 1em;
}
.fourth {
font-size: 2em;
}
</style>
</head>
<body>
<div class="first"></div>
<div class="second"></div></div>
</di>
```

<div class="third">Hammock ex plaid nulla. Nihil stumptown gastropub, dreamcatcher gochujang franzen cillum cliche keffiyeh pop-up pug small batch knausgaard. Fanny pack elit you probably haven't heard of them before they sold out. Sint elit tofu et veniam irony 3 wolf moon. VHS slow-carb trust fund chartreuse wolf. Qui sed dreamcatcher cronut, hoodie fixie normcore. Gochujang dolor consectetur post-ironic.</div>

<div class="fourth">Hammock ex plaid nulla. Nihil stumptown gastropub, dreamcatcher gochujang franzen cillum cliche keffiyeh pop-up pug small batch knausgaard. Fanny pack elit you probably haven't heard of them before they sold out. Sint elit tofu et veniam irony 3 wolf moon. VHS slow-carb trust fund chartreuse wolf. Qui sed dreamcatcher cronut, hoodie fixie normcore. Gochujang dolor consectetur post-ironic.</div>

```
<style>
 /* missing id */
 #menu {
  text-align: center;
 }
 /* missing class */
 .item {
  color: red;
 }
 /* missing class */
  .picture {
   border-radius: 5px;
 /* missing class */
 . description \, \{ \,
  font-style: italic;
 }
</style>
</head>
<body>
<div id="menu">
 <h1 class="item">Chicken Clay Pot</h1>
 <img src="img/clay-pot.jpg" alt="clay pot" class="picture">
 Crispy rice baked in clay pot topped with chicken and vegetables
</div>
</body>
```

```
</html>
   -----ATTRIBUTES WORKSPACE
<!DOCTYPE html>
<!-- Instructions: Using the provided HTML and CSS, add the correct attributes to the HTML to replicate
solution provided on the previous page.
If you need to click back over - don't worry! Your workspace will be saved for you.
-->
<html>
<head>
       <meta charset="utf-8">
       <title>Using Attributes Quiz</title>
       <style>
    body {
      font-family: Arial;
    }
    #to-do-list {
      width: 400px;
      background: #2e3d49;
      padding: 10px 20px;
    }
    .title {
      color: #fff;
    }
    .underline {
      text-decoration: underline;
    }
    .list {
      list-style-type: circle;
```

```
text-align: left;
     font-size: 16px;
     color: #1fba58;
     line-height: 24px;
   }
   .finished {
     color: #f4442f;
     text-decoration: line-through;
   }
      </style>
</head>
<body>
      <div id="to-do-list">
            <h1 class="title underline">My To-Do List</h1>
            <h2 class="title underline">Chores</h2>
            load the diswasher
                  vacuum living room
                  take out garbage
                  sweep the garage
            <h2 class="title underline">Homework</h2>
            hrainstorm ideas for Science project
                  finish Calculus 2 problems
                  study for Programming midterm :P
     finish Project 0 on Udacity FEND
                  find sources for Biology research paper
                  read first two chapters of The Art of War
```

```
<h2 class="title underline">Party</h2>
   send out invitations
     reserve party room at restaurant
     order the cake!
   </div>
</body>
</html>
  -----SLACK CARD
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<title>Slacker Card</title>
 <link href='https://fonts.googleapis.com/css?family=Open+Sans:400,300' rel='stylesheet'</pre>
type='text/css'>
<meta name="udacity-grader" content="tests.json">
<style>
 * {
  box-sizing: border-box;
 }
 body {
  font-family: 'Open Sans', sans-serif;
  color: #222;
 }
 .card {
  height: 475px;
```

```
width: 325px;
 box-shadow: 0px 5px 15px 0px rgba(153,153,153,0.5);
 border-radius: 4px;
}
.top {
 height: 55%;
 border-radius: 4px 4px 0px 0px;
 border: 1px solid #ddd;
 padding: 0px 16px;
}
.name {
 padding-top: calc(475px * 0.40);
 margin: 0px;
}
.status {
 display: inline-block;
 width: 10px;
 height: 10px;
 margin-left: 4px;
 border-radius: 5px;
 background-color: #60D156;
}
.title {
 margin-top: 8px;
}
.middle {
 height: 5%;
 border-left: 1px solid #ddd;
```

```
border-right: 1px solid #ddd;
  padding: 0px 16px;
 }
 .time {
  color: #444;
  font-size: 0.8em;
  padding-top: 0.2em;
 .bottom {
  height: 40%;
  border-radius: 0px 0px 4px 4px;
  border: 1px solid #ddd;
  padding: 8px 16px;
 }
 .profile-action {
  display: block;
  width: 100%;
  height: 32px;
  font-size: 1em;
  text-align: left;
  border: 0px;
  background-color: white;
 }
 .profile-action:hover {
  background-color: #00A5D2;
  color: white;
 }
</style>
```

```
</head>
<body>
<section>
 <div class="card">
  <div class="top">
   <h3 class="name">Udacity Stufent <span class="status"></span></h3>
   Learner Extraordinaire
  </div>
  <div class="middle">
   <div class="time">12:34 PM local time</div>
  </div>
  <div class="bottom">
   <!-- See how the buttons all have the same CSS class?-->
              <button class="profile-action">View preferences</button>
   <button class="profile-action">Open account settings</button>
   <button class="profile-action">Edit your profile/button>
   <button class="profile-action">View your files</button>
   <button class="profile-action">Set yourself away</button>
  </div>
 </div>
</section>
</body>
</html>
------Udencity site Header
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<title>Udacity Site Header</title>
```

```
<link href='https://fonts.googleapis.com/css?family=Open+Sans:400,300' rel='stylesheet'
type='text/css'>
```

```
<style>
 * {
  box-sizing: border-box;
 }
 body {
  font-family: 'Open Sans', sans-serif;
  margin: 0;
  padding: 0;
 }
 header {
  font-weight: 800;
  -webkit-font-smoothing: antialiased;
  background: white;
  height: 85px;
  padding: 15px;
 }
 section {
  padding: 100px;
  background-color: #697681;
  text-align: center;
  color: white;
 }
 .flex-container {
```

```
display: flex;
}
.space-between {
 justify-content: space-between;
}
.vertical-centerer {
 height: 100%;
 flex-direction: column;
 justify-content: center;
}
.header-content {
 width: 960px;
 margin-left: auto;
 margin-right: auto;
.logo {
 width: 500px;
 display: inline-block;
 margin: 10px 0px;
}
.menu {
 list-style: none;
 list-style-type: none;
}
.menu > li {
 display: inline;
 margin-left: 37.5px;
}
```

```
button{
  background-color:rgb(50,150,255);
  border: none;
  color: white;
  padding: 16px 70px;
  text-align: center;
  text-decoration: none;
  display: inline-block;
  font-size: 20px;
 }
</style>
</head>
<body>
<header>
 <div class="vertical-centerer flex-container">
  <div class="flex-container space-between header-content">
   <div>
    <span>
     <img class="logo" src="Udacity_Logo_SVG_200x35.svg" alt="Udacity Logo">
    </span>
   </div>
   <div>
    Nanodegree
     Catalog
     Classroom
    </div>
  </div>
```

```
</div>
 </header>
 <section>
 FEATURED - FRONT END WEB DEVELOPER NANODEGREE PROGRAM
 <h1>
   How to make Charts in javaScript
 </h1>
 <button>READ MORE</button>
</section>
</body>
</html>
  -----Link to the Stylesheet
<html>
<head>
       <title>Link to a Stylesheet Quiz</title>
       <link href="css/styles.css" rel=stylesheet>
</head>
<body>
       <div class="container">
              <div class="portfolio">
                     <h1>My Portfolio</h1>
                     <div class="item">
                            <img src="img/out-cold.png" width="300">
                            <span>This specific design features a 3D floating mountain above a
weathered, rugged font to insinuate a winter outdoor theme. This logo would be a perfect fit for an
outdoor product company or ski resort.</span>
```

</div>

</html>