

Internet applications

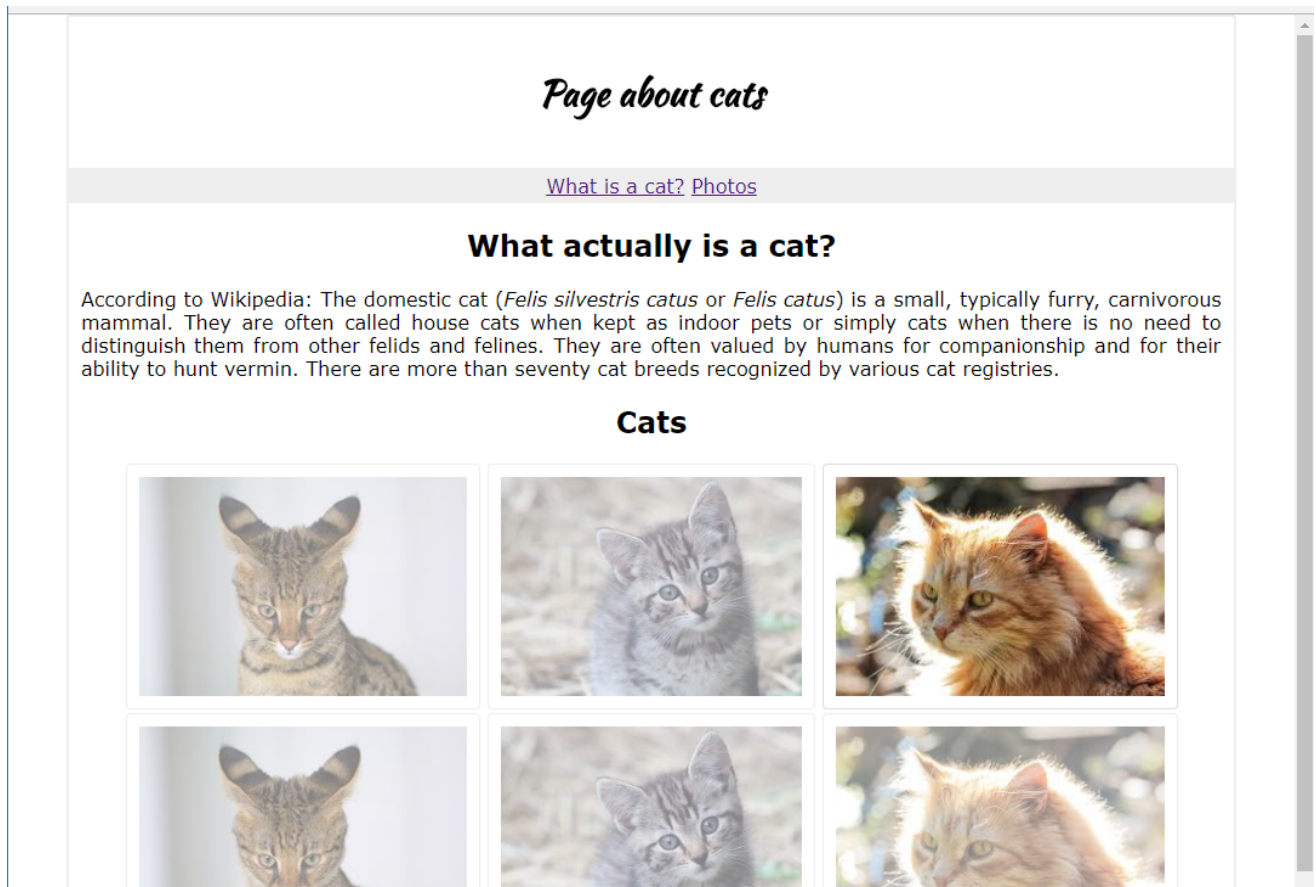
Lab 1/Task 1

The aim of the task is to learn design the outline of the page using HTML5 markup.

The HTML5 page consist of:

- `<header>`
- `<footer>`
- `<article>`, `<section>`
- `<nav>`

Let's try to design something like this:

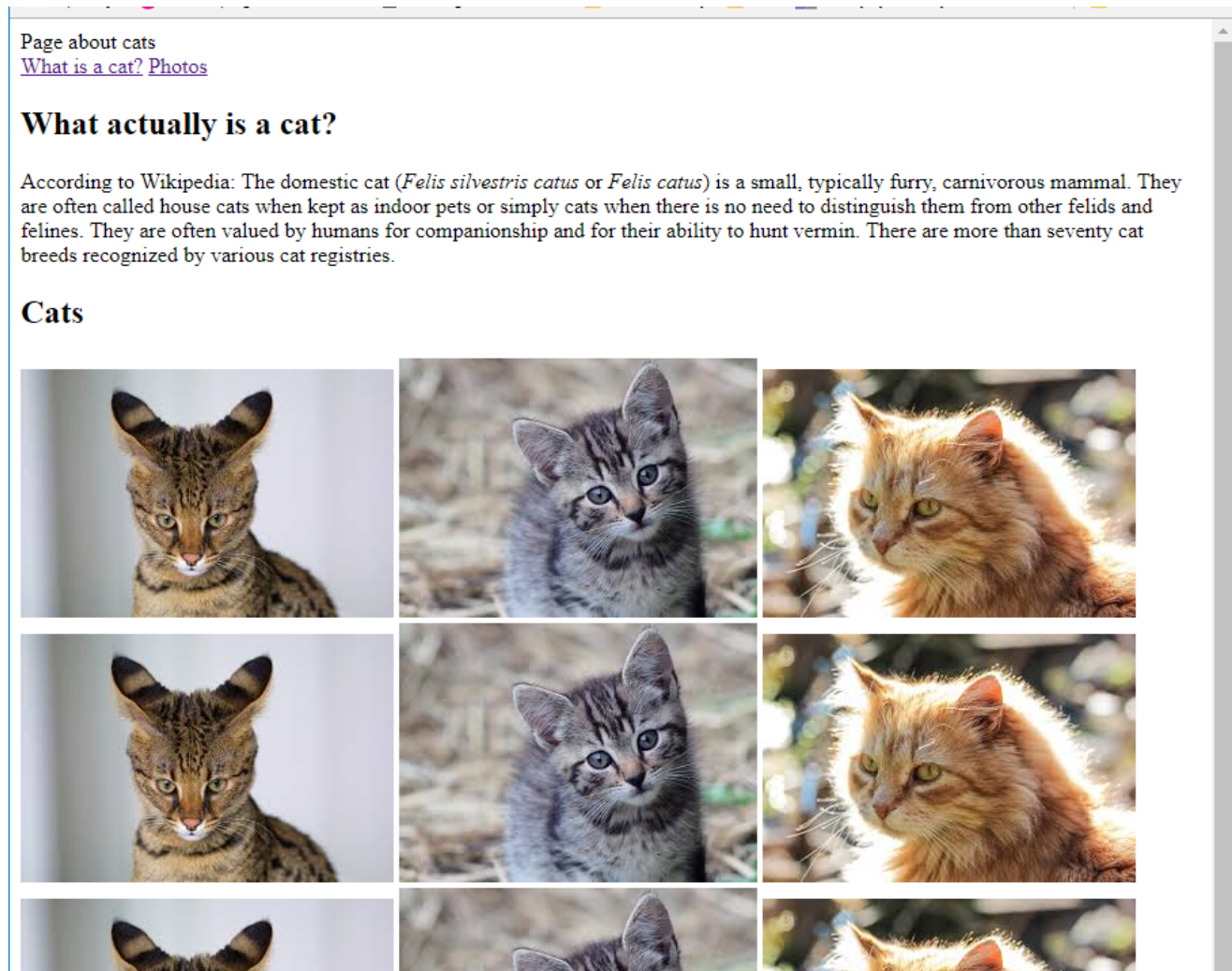


Step 1 - What is in the index.html

- In the `<head>` section, we have a link to the css stylesheet named *theme.css* and a title.
- In the `<body>` we have:
 - `<header>`
 - `<nav>` with two links to the sections on the page. Please note that `href` attribute links to the `id` of the section. I.e. `` links to the `<section id="description">`.
 - two `<section>` tags. First section contains `<article>` about the cats and the second section contains photos.

- `<footer>`

Please run the `index.html` in the browser. It looks horrible, but some formatting is applied by default.



Step 2 - Styling the header and body

Add the following to the `theme.css` to get the header text centered and big.

```
header {
  text-align:center;
  font-size:30px;
  font-weight:bold;
}
```

Of course You can also wrap the text in `<header>` with `<h1>`.

Now, add the following style, to change the width of `body` and the deafult font.

```
body {  
  max-width:960px;  
  margin:auto;  
  font-family:verdana;  
}
```

`margin:auto` causes the body to be centered.

Step 3 - Styling the nav

We want to place links in the center as well. What's more, let the nav be highlighted. To do this, please add the following to the *theme.css*.

```
nav {  
  text-align:center;  
  background-color:#eeeeee;  
}
```

Step 4 - Styling the footer

Center the footer and change the color of the text in the footer with:

```
footer {  
  text-align:center;  
  color:#444444;  
}
```

Step 5 - Adjusting the images

As You can see, one image has different height than other images. We should try to adjust the height of all images.

```
img {  
  max-height:180px;  
  padding:10px;  
}
```

Step 6 - Centering the images

In order to center the images, please add the following to the *theme.css*.

```
section {  
  text-align:center;  
}
```

NOTE: Headers and text are also centered. To justify the text in the `<article>`, please add:

```
article {  
    text-align:justify;  
    margin:10px;  
}
```

Step 7 - fancy images

Let images change their opacity on hovering. At first add the following line to the style for `img` to change its' opacity:

```
opacity:0.5;
```

To change the behavior while hovering, please add the following:

```
img:hover {  
    opacity:1.0;  
}
```

The effect is visible, while You're moving the mouse pointer over the image.

Now, lets round the corners of the images. Add the lines to the `img`:

```
border-radius:4px;  
border:1px solid;  
border-color:#dddddd;
```

Step 8 - Making opacity transitions animated

Add the following to the `img`:

```
transition: opacity 1s;
```

Step 9 - styling title of the page

To make the title more eye-catching, we will use custom font.

1. Add the font to the `<head>` section of the html file.

```
<link href='http://fonts.googleapis.com/css?family=Kaushan+Script' rel='stylesheet'  
type='text/css'>
```

2. Add the style to the `<header>`. You can do it either in *html* or *css* file.

```
style="font-family:Kaushan Script"
```

3. Add padding to the `header`:

```
padding:40px;
```

4. Add padding to the `nav`:

```
padding:5px;
```

Step 10 - border for body

```
border:2px solid;  
border-color:#eeeeee;  
border-radius:3px;
```