

LAB 5

Objective: Students will practice

- Box models
- CSS selectors (Simple, combination, pseudo-class, pseudo-element, and attribute selectors)
- Bootstrap framework – Carousel, Container, Grid, Navbar, Button

Lab instruction

- The LAB05 instruction and lab resources are posted on MS Teams channel LAB05 – Bootstrap of subject 953262 (your section).
- Download the zipped file of resources-lab05.
- There are 4 assignments according to the LAB05 sheet posted on the channel.
- The LAB05 is worth 38 points in total.
- **Assignment Submission:**
 - Upload your solutions to MS Team assignments. The submission later than the ‘due date’ will get 50% off your score. At the ‘close date,’ you cannot submit your assignment to the system.
 - Post your ‘Name and Student ID’ on the MS Teams channel ‘LAB05 – Bootstrap’. You should also be prompt for TA calling to verify your work on your computer.

Problems

1 CSS Selectors (7 points)

- 1.1 Open **CSS_Selector** folder. Inside, you will see an **index.html**, **style.css**
- 1.2 Modify **index.html** to have document’s title as “CSS Selector”
- 1.3 Add the Custom CSS link in the head element.
- 1.4 Style the HTML elements according to the following instructions. **DO NOT ALTER THE EXISTING HTML TO DO THIS. WRITE ONLY CSS!**
 - 1.4.1 Give the **<body>** element a background of **#bdc3c7** (0.5 pt.)
 - 1.4.2 Make the **<h1>** element and **<2>** elements **#9b59b6** (1 pt.)
 - 1.4.3 Make the odd **** elements blue (pt.)
 - 1.4.4 Change the background on every paragraph to be yellow (pt.)
 - 1.4.5 Make all inputs have a 3px red border (pt.)
 - 1.4.6 Give the **<p>** element with the class ‘hello’ a white background (pt.)
 - 1.4.7 Give the element with id ‘special’ a 2px solid blue border (pt.)
 - 1.4.8 Make all the **<p>**’s that are nested inside of divs 25px font (pt.)
 - 1.4.9 Make only inputs with type ‘text’ have a gray background (pt.)
 - 1.4.10 Give both **<p>**’s inside the 3rd **<div>** a pink background (pt.)
 - 1.4.11 Give the 2nd **<p>** inside the 3rd **<div>** a 5px white border (pt.)
 - 1.4.12 Make all “checked” checkboxes have a left margin of 50px (margin-left: 50px) (pt.)

1.4.13 Make the first letter of the element with id 'special' green and 100px font size (font-size: 100) (pt.)

1.4.14 Make the <a> element's that have been visited gray (pt.)

1.5 Hint: Use CSS [attribute] selector for 1.4.9 and 1.4.12

(https://developer.mozilla.org/en-US/docs/Web/CSS/Attribute_selectors)

1.6 If the HTML file links to style.css and modify the style specification from 1.4 then it should appear like this.

The screenshot displays a web page with several colored sections and text snippets, illustrating various CSS properties:

- I am another awesome h2**: A pink header containing the text "I am another awesome h2".
- Cardigan Tumblr mlkshk, fap tilde 3 wolf moon Portland. Heirloom health goth taxidermy blog lo-fi selfies, post-ironic master cleanse fingerstache normcore. Kickstarter plaid twee, bespoke single-origin coffee sustainable lo-fi vinyl Pinterest pork belly cronut skateboard 3 wolf moon. Normcore single-origin coffee salvia, bespoke Austin swag Godard before they sold out kogi disrupt locavore. Lumbersexual Shoreditch Vice, artisan American Apparel master cleanse yr salvia vegan. Bespoke letterpress heirloom kale chips deep v four loko. Lomo sustainable put a bird on it trust fund post-ironic**: A pink text block with a long, repetitive sentence.
- I'm the second paragraph inside this div!**: A pink text block containing the text "I'm the second paragraph inside this div!".
- PARAGRAPH NOT INSIDE A DIV**: A yellow text block containing the text "PARAGRAPH NOT INSIDE A DIV".
- A less awesome h2**: A pink header containing the text "A less awesome h2".
- Roof party yr hella synth, Wes Anderson narwhal four dollar toast before they sold out retro lo-fi. Austin iPhone pop-up farm-to-table, PBR&B McSweeney's ennui messenger bag distillery before they sold out Portland wolf fanny pack YOLO. Locavore slow-carb trust fund farm-to-table. Pinterest gastropub lo-fi, McSweeney's trust fund VHS shabby chic ugh Austin twee. Messenger bag banjo lumbersexual, whatever 3 wolf moon XOXO normcore. Pug fanny pack 3 wolf moon, typewriter organic chia mustache scenester seitan shabby chic Blue Bottle salvia ugh iPhone. Fanny pack Williamsburg direct trade, cold-pressed disrupt flannel listicle health goth asymmetrical freegan mixtape street art pour-over whatever**: A yellow text block with a similar repetitive sentence.
- One last paragraph here!**: A yellow text block containing the text "One last paragraph here!".
- I am a link to facebook I am another link to facebook**: A pink text block containing two links: "I am a link to facebook" and "I am another link to facebook".
- Name**: A pink text input field labeled "Name".
- Password**: A pink text input field labeled "Password".
- PARAGRAPH NOT INSIDE A DIV**: A yellow text block containing the text "PARAGRAPH NOT INSIDE A DIV".
- Selectors Exercise**: A pink header containing the text "Selectors Exercise".
- PARAGRAPH NOT INSIDE A DIV**: A yellow text block containing the text "PARAGRAPH NOT INSIDE A DIV".
- I am a paragraph with a class**: A pink text block containing the text "I am a paragraph with a class".
- I am a paragraph with an ID**: A yellow text block containing the text "I am a paragraph with an ID".
- I am an awesome h2**: A pink header containing the text "I am an awesome h2".
- Roof party yr hella synth, Wes Anderson narwhal four dollar toast before they sold out retro lo-fi. Austin iPhone pop-up farm-to-table, PBR&B McSweeney's ennui messenger bag distillery before they sold out Portland wolf fanny pack YOLO. Locavore slow-carb trust fund farm-to-table. Pinterest gastropub lo-fi, McSweeney's trust fund VHS shabby chic ugh Austin twee. Messenger bag banjo lumbersexual, whatever 3 wolf moon XOXO normcore. Pug fanny pack 3 wolf moon, typewriter organic chia mustache scenester seitan shabby chic Blue Bottle salvia ugh iPhone. Fanny pack Williamsburg direct trade, cold-pressed disrupt flannel listicle health goth asymmetrical freegan mixtape street art pour-over whatever.**: A yellow text block with a repetitive sentence.
- Things I need to do**: A pink header containing the text "Things I need to do".
- Walk Dog
 - Feed Dog
 - Wash Dog

1.7 Save the folder **Q1.html** and submit it to your submission folder.

2 Carousal (Slide show) (8 points)

2.1 Open **Carousel** folder. Inside, you will see an **index.html** and an image folder.

2.2 Modify **index.html** to have the document's title as "Carouse-slide show"

2.3 Install Bootstrap framework on the **index.html**

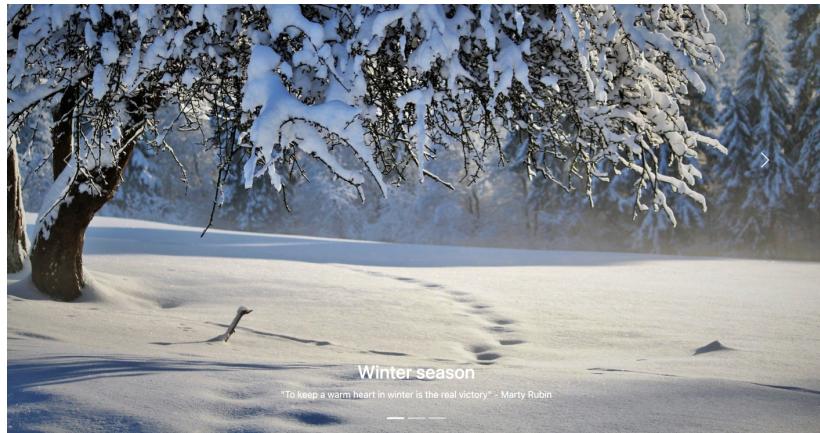
2.3.1 Bootstrap CSS in the head element (1 pt.)

2.3.2 Bootstrap JS before the closing <body> (1 pt.)

2.3.3 <https://getbootstrap.com/docs/5.1/getting-started/introduction/>

2.4 Add Bootstrap slide bar of season images with captions. (6 pts.)

- 2.4.1 Learn how to use the Bootstrap Carousel at
<https://getbootstrap.com/docs/5.1/components/carousel/>
- 2.4.2 Locate at Carousel with captions section. And copy the Carousel code to index.html to try it out.
- 2.4.3 Modify the code to make a season slide show as shown in the following.



2.5 Save the folder **Q2.html** and submit it to your submission folder.

3 Grids (10 points)

3.1 Open **Grids** folder. Inside, you will see **an index.html** and **a style.css**.

3.2 Modify **index.html** to have the document's title as "Bootstrap Grids"

3.3 Install Bootstrap framework and Custom CSS on the **index.html**

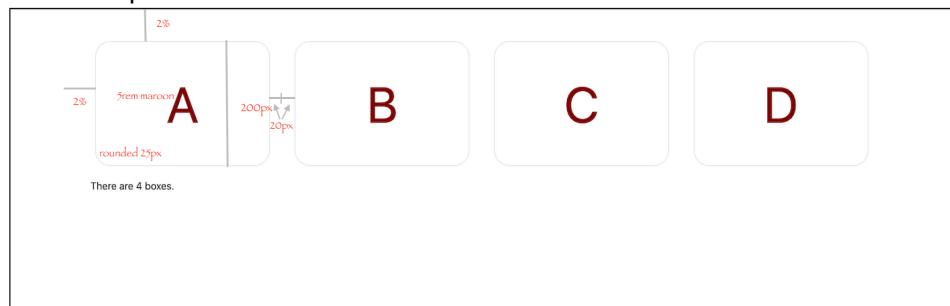
3.4 Your task is to make the HTML document and style complete.

3.5 Here are style specifications

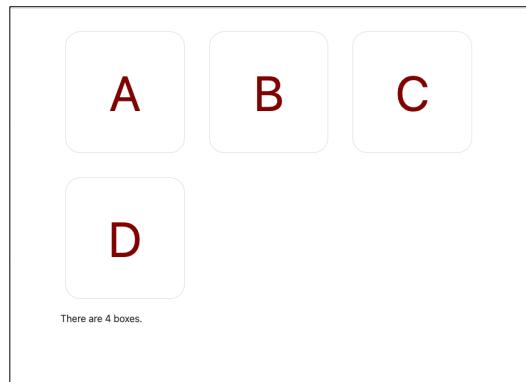
- 3.5.1 Make responsive columns that 4 columns per row on desktop & 3 columns per row on tablet & 2 columns per row on mobile (3 pt.)
- 3.5.2 Configure the container's padding 2% (1 pt.)
- 3.5.3 Style each box border solid 1px and corner rounded 25px (1 pt.)
- 3.5.4 Style each box's height 200px (1 pt.)
- 3.5.5 Style the padding of the responsive columns 20px (1 pt.)
- 3.5.6 Add hierarchical selector to make **<p>** element inside the box element vertically center, font's size 5rem and color maroon (3 pts.)

3.6 The result is looked like the following.

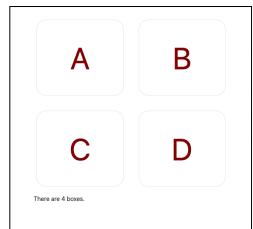
On desktop



On tablet



On mobile

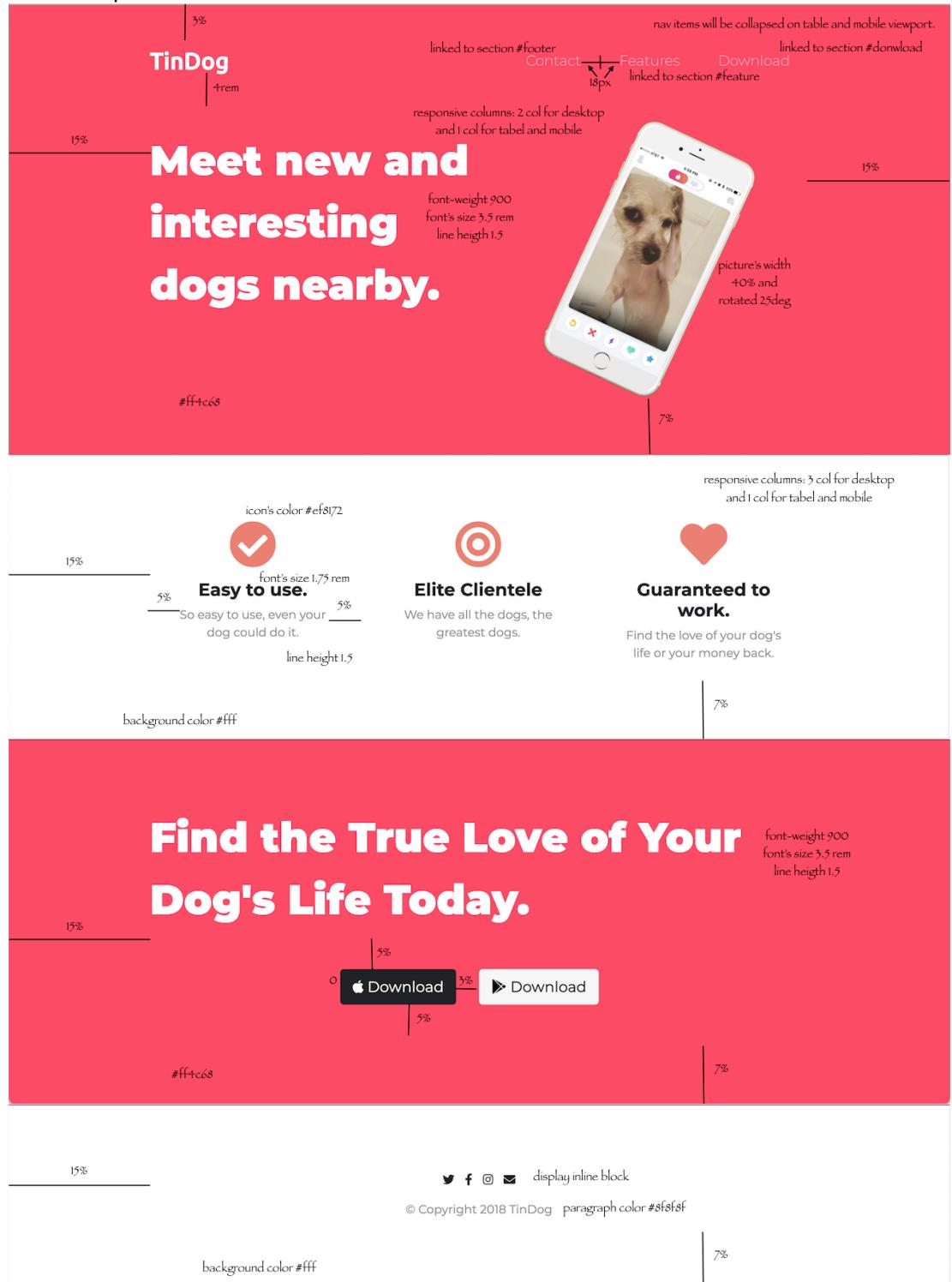


3.7 Save the folder **Q3.html** in your submission folder.

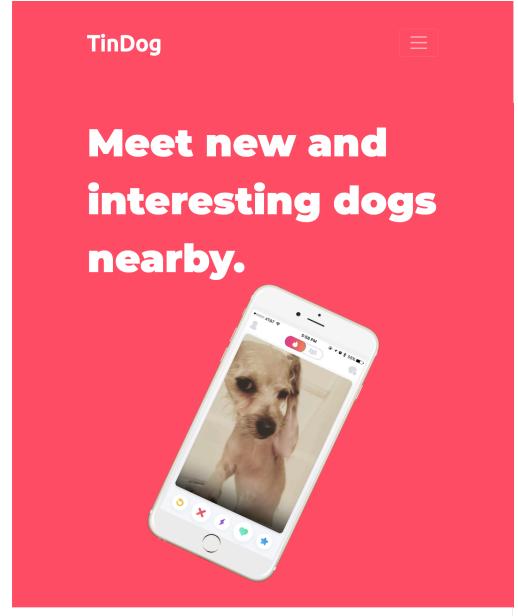
4. TinDog (*13 points*)

- 4.1 Open **TinDog** folder. You will find index.html (stub code) and an image and a CSS folder inside.
- 4.2 Edit the index.html file by adding a link to the missing stylesheet.
- 4.3 View index.html in the browser to see if the stylesheet was applied.
- 4.4 Modify index.html and style.css to get the result as follows.

On desktop



On tablet and mobile



The image shows the TinDog mobile application interface. At the top, the app's name "TinDog" is displayed in a white font on a red background. To the right of the name is a white three-line menu icon. Below the header, a large white smartphone is shown from a slightly elevated angle, displaying a video feed of a brown dog's face. The phone screen also shows some navigation icons at the bottom. The main text area below the phone reads "Meet new and interesting dogs nearby." in a bold, white, sans-serif font.

Easy to use.
So easy to use, even your dog could do it.

Elite Clientele
We have all the dogs, the greatest dogs.

Guaranteed to work.
Find the love of your dog's life or your money back.

Find the True Love of Your Dog's Life Today.

[Apple Download](#) [Android Download](#)

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4.5 Launch a browser to test your page.

4.6 Points are measured as follows

- 4.6.1 The section title: your implementation is like the design (3 pts.), link function corrects (1 pt.), responsive columns correct (2 pts.).
- 4.6.2 The section features: your implementation is like the design (2 pts.), responsive columns correct (2 pts.).

- 4.6.3 The section download: your implementation is like the design (2 pts.).
- 4.6.4 The section footer: your implementation is like the design (1 pts.).

4.7 Rename the folder as **Q4** and put it in your submission folder.