



Coursework#3

(and #4)

I Scream for Ice Cream!



Due date: 09/12/2018 23:55h (Week 49)

IMT1292-FALL2018

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Context



A local ice cream shop has seen your works and has decided to put you in charge of the design and development of its new web page.

In this work, you will have more freedom than in previous ones, but **you must read carefully the requirements** and **do not forget the feedback** from other assignments.

Task description

The ice cream shop has been using a web page for a long time and it has created its own brand. This means that the customers need to feel that the new page represents the shop principles. For all of those reasons the restaurant has the following requests.


Details

- ◆ **Ice cream shop name:** I Scream.
- ◆ **Short description:** I scream for ice cream.
- ◆ **Colours:** the main colours that you have to use in your design are below. Of course, you can use more colours if you think you need them. However, the following colours are mandatory (you can decide which will be used as a primary or secondary).
 - #363636 
 - #A10416 
 - (*) The warning colour is up to you
- ◆ **Theme:** horror genre.

Parts and sections of the website

The site will have, at least, 4 different pages.

- ◆ **Home page:** this is the first page the users visit. It must (but not limited to):
 - Have an image (design) filling 100% of the page.
 - Have a heading containing the name of the ice cream shop.
 - Have the short description of the shop.
 - The heading and the description will be display on top of the image (this is, they will overlap the image).

- ◆ **Ice creams page:** the shop serves different kinds of ice creams. They are divided into the following categories:
 - **Ice cream:** this category contains plain ice creams.
 - **Sundaes:** this category contains sundaes.
 - **Mousses:** this category contains mousses.
 - **Smoothies:** this category contains smoothies.
 - **(*) The list of all the elements served under each one of these categories is included in the menu-db.js.**
- ◆ **Reservations page:** In this page, customers can make a reservation. The page displays a form asking the information stated below. Notice that the form will not work (no queries to a backend server) but you have to implement the form as if it was real (use a proper method and action). Use the proper html structures, etc. Feel free to use 3rd party tools to display a calendar or a time picker if you wish.
 - Date
 - Time
 - Adults, children and infants 
 - First name
 - Surname
 - Mobile phone
 - Email
 - Other comments.
- ◆ **Contact page:** This page must contain the contact data of the ice cream shop and also a google map embed.
 - Email: hello@iscream.no
 - Address: Teknologivegen 22, 2815 Gjøvik
 - Tel: 477 23 666
 - Opening hours
 - Mon-Thu: 10:00-20:00
 - Fri: 10:00-21:30
 - Sat: 10:00-22 00
 - Sun: 10:00-21:30

Responsive layout

The page will have, at least, 2 different layouts. One for screens less than 600px and another one for larger screens.

Design

Don't forget that you are in charge of the design which means that this is also part of the evaluation. Together with the description of this assignment you will find two different logos made by Sandra Nguyen. Feel free to use any one of those logos if you wish. You can also design your own logo if you feel like to.

Remember that you can't neither use frameworks such as bootstrap or foundation nor any other template or tool for scaffolding your project. However, you are allowed to use icon sets like [Font Awesome](#), [Material design icons](#) or similar.

Finally, notice that this is a thematic ice cream shop and the main topic is the **horror genre**. So, keep this in mind when designing the page.

Required

This assignment is going to be graded based on all the concepts of the whole course. You will find a list of considerations you need to check before delivering this assignment.

- ◆ You have to use the proper HTML tags and elements for each situation (e.g.: a paragraph is what it is and therefore you should not break the <p> in different lines).
- ◆ You have to be efficient with your CSS code meaning that you should be able to reuse as many rules as possible if they are related. For example, if the web has different pages, all <h1> can use the same rule among all the pages (just as an example).
- ◆ Remember that HTML will be only used to structure the text and CSS for the presentation layer.
- ◆ DRY (Don't repeat yourself).
- ◆ You have to start from scratch meaning that you are not allowed to use html templates or other online projects to scaffold your application.
- ◆ Scaffold the project following a readable and well-structured hierarchy of folders.

- ◆ Bootstrap or frameworks in general are not allowed.
- ◆ You are in charge of the design, so this will be evaluated too (notice that animations are part of the design).
- ◆ The site must be "responsive" and, at least, it must have 2 different layout configurations: one for small screens (mobile phones) and another one for regular screens (laptops and desktop screens).
- ◆ Readable code (clean, clear, commented and well formatted).
- ◆ Use proper naming conventions for files (i.e., HTML, CSS, images, folders, etc.)
- ◆ English will be either the language for coding and also for displaying the contents on the page.
- ◆ Do not use [lorem ipsum](#) text.
- ◆ Use free images (no copyright).
- ◆ Take care of SEO and Mobile Accessibility.

Tips

Read carefully the description of this assignment and try to split it in small tasks. For example:

- ◆ Start sketching the layout of your pages (remember, at least two different layouts).
- ◆ Analyse your sketches and try to find out what all the pages have in common.
- ◆ Scaffold the project creating a good hierarchy structure and document (e.g. in the readme.txt file) why you decided to use that structure.
- ◆ Start coding the html elements and rules that belongs to a higher level (for example, margins and paddings of the pages, main boxes, etc.). After that, code the specific parts one by one.

Use the README.txt to explain any other relevant decisions. Also, take a look to all the extra readings provided in the next section.

Do not forget to ask for help if you get stuck.

Extra readings

- ◆ https://developer.mozilla.org/en-US/docs/Learn/Getting_started_with_the_web/Dealing_with_files
- ◆ <http://www.htmlquick.com/tutorials/organizing-website.html>
- ◆ <https://webstyleguide.com/wsg3/5-site-structure/3-site-file-structure.html>
- ◆ <https://css-tricks.com/one-two-three/>
- ◆ <https://www.toptal.com/css/css-cheat-sheet>
- ◆ <https://www.themelocation.com/best-html5-practices/>
- ◆ <https://moz.com/blog/seo-meta-tags>
- ◆ https://www.w3schools.com/cssref/sel_firstchild.asp
- ◆ https://www.w3schools.com/cssref/sel_last-child.asp
- ◆ https://www.w3schools.com/cssref/sel_last-child.asp
- ◆ https://www.w3schools.com/html/html_form_input_types.asp
- ◆ <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/input/time>
- ◆ <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/input/date>
- ◆ <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/select>
- ◆ <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/form>
- ◆ <https://zurb.com/word/mobile-first>

Please, read carefully all the resources and notice that some of the articles falls into the field of subjective which means that there is no an absolute true and you need to reflect on what you are doing. The most important thing is to be consistent. For example, if you “indent” your code using 4 spaces, that is the indentation that you should use in all of your files, etc.

Finally, remember to validate your codes.

- ◆ <https://achecker.ca/checker/>
- ◆ https://validator.w3.org/#validate_by_input
- ◆ https://jigsaw.w3.org/css-validator/#validate_by_input

Deliverables

The deadline is on Blackboard. Since this is the final assignment, the project will be delivered through *inspera* together with the other courseworks. Further instructions will be also published on Blackboard.

The delivery consists in a zip file that contains 3 different folders:

- ◆ “coursework1”: a folder containing the first assignment (the same that was delivered in Blackboard).
- ◆ “coursework2”: a folder containing the second assignment (the same that was delivered in Blackboard).
- ◆ “coursework3”: a folder containing this project.
 - Don’t forget to include the README.txt file in this folder with the “URL” of the live version of your site (i.e. the folk site). To avoid plagiarism issues, I recommend you upload the project naming the root folder of your coursework 3 using a random name.

The zip file must be named as “studentcode-imt1292-2018” (for example, if your student code is 1357246 then the name of the zip file must be “1357246-imt1292-2018”).

Get to work as soon as possible and do not leave this for the last minute. Also, there is nothing new about this assignment, which we have not already done in the previous lectures or labs, so do not be scared about the long description.

Should you have questions or need help, do not forget to use the forum, ask by email or ask for help to the student assistants.

Good luck!

Optional task (coursework 4)

The ice cream shop has requested you some optional extra functionalities (coursework#4). Remember that these tasks are not mandatory.

The new features are:

- To validate the form fields in the reservation page (all). In addition, take into account that:
 - Users can’t make a reservation in the past (date \geq today).

- Users can only make a reservation for the opening hours.
- Ice creams can be filtered by category.
- Ice creams can be sorted by “name”, “price” or “description”.

If you are implementing this optional task, make sure to write a comment in the README.txt file explaining which tasks you have implemented and how. Otherwise, it won't be evaluated.