

HS23 LTWA

Exercise 1:

HTML, CSS & Databases

Notes on the submission:

- **Submission format:** zip-folder containing: a subfolder called *pumpkin* with the html-file and all the needed images (favicon and if needed pumpkin pie picture) (task 1) and also add the css file (task 2) to this folder.
- Filename in the following format: gitlab-name_ltwa_exnumber, e.g. *max.muster_ltwa_ex1*
- Submit your zip file via the exercise module on OLAT if you want us to take a look at it. The module is only open until Wednesday, October 4, 12:00.
- The exercises are **not graded**.

If you have problems or questions just post in the OLAT forum or ask in the tutorials. If it is personal or urgent you can also contact us by e-mail. **Good luck!**

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1 HTML

Your grandma has asked you for your delicious *Pumpkin Pie* recipe¹. Unfortunately, you have the recipe saved in an unstructured way, that only you understand (see *pumpkin_pie.txt*). Before you send it to your grandma, you need to restructure it for a better visualization. To do this, edit the *recipe.html* file. All files for this exercise can be found in the *pumpkin* directory.

1. Name the recipe *Pumpkin Pie*.
2. Clean up the *Ingredients*, by writing the titles in a larger size and then listing its corresponding ingredient quantity information. List the ingredient quantity information in an unordered way and make the quantities **bold** and the ingredients *italic*, for a typographical differentiation. Your output should look like this:

Ingredients:

For the Pumpkin Pie:

- **19-inch** *Homemade pie crust* , or store-bought, deep dish, unbaked
- **150 g** *granulated sugar*
- ...

¹<https://tastesbetterfromscratch.com/pumpkin-pie-with-caramel-pecan-topping/>

For the Caramel Pecan Topping:

- 1/2 cup *light brown sugar, packed*
 - ...
3. Create an ordered list of the *How it's done* text, by splitting it into its components. Each component (cake and topping) consists of a title in a larger size and its corresponding instructions. Your output should look like this:

How it's done:

Pumpkin Pie

1. Preheat oven to 425 degrees F.
2. ...

Topping

1. Add brown sugar, cream, ...
 2. ...
4. Add a fitting picture of your choice, underneath the title, to your recipe. Also add an alternate text for the image.
5. Add a favicon to your website. You can find the picture for this in the *pumpkin* folder.
6. Add another link to your personal favorite dessert recipe, as a recommendation for your grandma.
7. Link your email address, so when clicking it, your grandma is prompted to email you in case of questions.

2 CSS

Now let's spice up your recipe with a little styling - you want to impress your grandma, right? Use the *.css* file *recipe.css* that you can as well find in the *pumpkin* folder.

1. Link the *.css* file in your *.html* file inside the `<head>` section of the *recipe.html* file.
2. Set the background color of your file to **#EFD4BD**.
3. Change the text color for the subtitles related to the pie to an orangish shade and the ones related to the topping to brown or maroon. I.e., "For the Pumpkin Pie:" and "Pumpkin Pie" should be colored in orange. Also underline these four subtitles.
4. Round the corners of the pumpkin pie image slightly and add a solid orange border around the image.
5. Center the text from Task 1.6 and 1.7. Apply a top padding of 1em, increase the font size to 20px, and set the text to be bold.
6. Indent the entire content by adding a left-side padding of 3em and a right-side padding of 5em.

3 Database Connection

Successfully connect to your example-project Database through your preferred Tool.

Some Suggested Tools to work with:

1. Command Line (install postgresql package for you OS) <https://www.postgresql.org/download/>
2. DBeaver <https://dbeaver.io/>
3. DataGrip (jetbrain, free Educational Licence) <https://www.jetbrains.com/datagrip/>
4. VSC (PostgreSQL extension)
5. Pycharm (jetbrain, free educational Licence)
<https://www.jetbrains.com/community/education/#students>

You can try executing the following SQL commands after you successfully connected to your database:

```
CREATE TABLE tester (  
Tool TEXT NOT NULL,  
Success BOOLEAN NOT NULL  
);
```

```
INSERT INTO tester (Tool, Success)  
VALUES ('<Tool name you used>', true);
```

```
SELECT * FROM tester;
```

Have Fun! :)