

Web Engineering

Spring Term 2016

Exercise 1

After years and (too) many exams, you finally finish your studies. The entire job market is waiting for you... or maybe not? You start sending CVs everywhere. It seems like nobody is interested in your capabilities, when suddenly you have a brilliant idea: find a way to show off all of your skills in a cool and immediate way - something that is not possible with a normal CV, boringly listing your skills and your previous experiences! You realize the needs of a personal *portfolio* web site, a one-page website, where you can upload pictures and information about your previous projects and maybe post some tutorials on technologies that you master. The first step to create such website is to define the design. After some work you came up with an initial sketch and you are pretty happy with the result, but now the next step is to implement it.

Note: The goal of the first series of exercises is to get hands-on experience with basic web technologies. This is the description of the first part of Exercise 1.

Exercise 1.1 *Design and Layout using CSS*

In this step of Exercise 1, you are asked to recreate the design and layout for your *portfolio* one-page website. To help you get started, you are provided with the bare HTML structure. Specifically, we included the HTML for the entire website. Since it is a one-page website, the HTML is structured in sections: home, about me, portfolio, blog and contact. The asset archive contains all the necessary resources, as well as the mockup screens of the desired design and layout of each section. Your task is to implement the CSS and complement the HTML where necessary. Since you spent a lot of effort to create the design, you want to get it right! Please closely follow the mockup screens.

To guide how you should approach this task, please consider the following steps.

1. Identify common and different components between sections. Make sure that all sections share a single, common CSS stylesheet to increase reuse.
2. Start from those components that contain and wrap others to later focus on the details of each component.
3. Use the available properties of CSS to size, position and style the components as illustrated in the mockup screens.
4. Keep in mind that the mockups refer to a one-page website. Therefore, all the sections should be available on the same page by simply scrolling up-down.

Workmode and Grading. All exercises in the Web Engineering course are designed for teams of 3 students. Every member has to contribute to the team solution, and the assistants may ask about the role of each member and who contributed what.

This is the first part of Exercise 1. The second part will be presented the 10th of March 2016. The two parts build on top of each other. **The final team solution for Exercise 1 (part one and part two) will need to be presented during the exercise session on 17th of March 2016.**

Grading Scheme For each part of the graded exercises, we provide a set of requirements which are going to be assessed separately. For each set of requirements, your group can get a certain amount of points. If you fulfill the requirements only partially or fail to answer corresponding questions during the presentation, points will be deducted. No or wrong solutions get zero points.

The number of requirements may differ between the parts and thus reflect their respective weights. For Exercises 1.1, the set of requirements are specified as follows:

Note JavaScript and any kind of CSS Framework are not allowed. Your solution should make use only of HTML and CSS.

Summary of Requirements - Part 1 (Max. points: 3)

- Design and layout implemented in CSS for the *home*, *about me* and *contact* sections. This means that you have at least finished the first part of Exercise 1, and have made appropriate use of HTML and CSS to recreate the layout illustrated in the mockup.
- Design and layout implemented in CSS for the remaining sections: *portfolio* and *blog*.

Please note that the above list *is not* a complete set of *requirements*. To successfully complete the exercise, you should read the entire exercise description. For questions and/or doubts please contact one of the assistants.

You can find a screenshot of the entire one-page web site at this link¹.

¹https://globis.ethz.ch/?attachment_id=1594

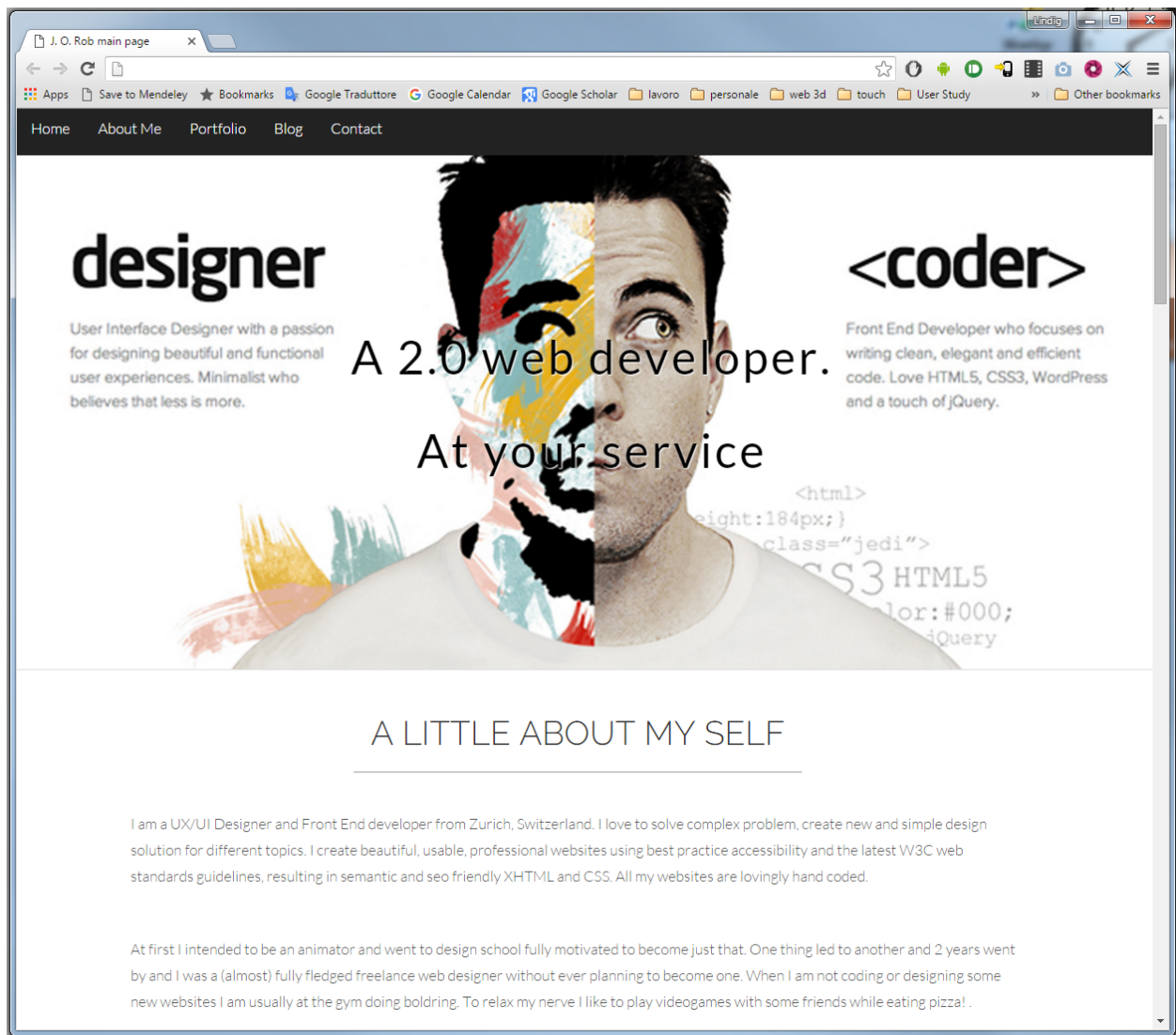


Figure 1: Design and layout for *home* and *about me* sections

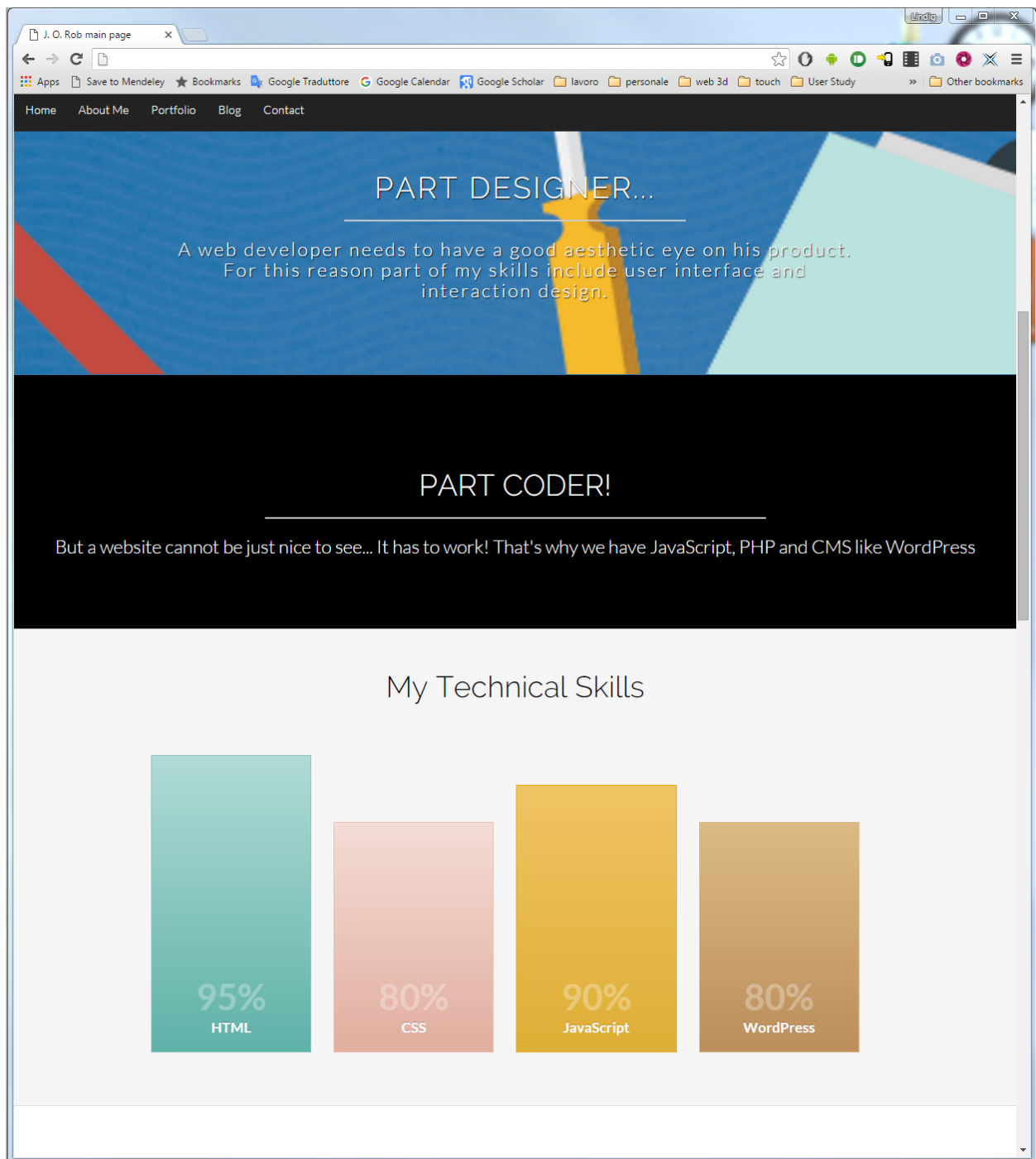


Figure 2: Design and layout for second half of *about me* section

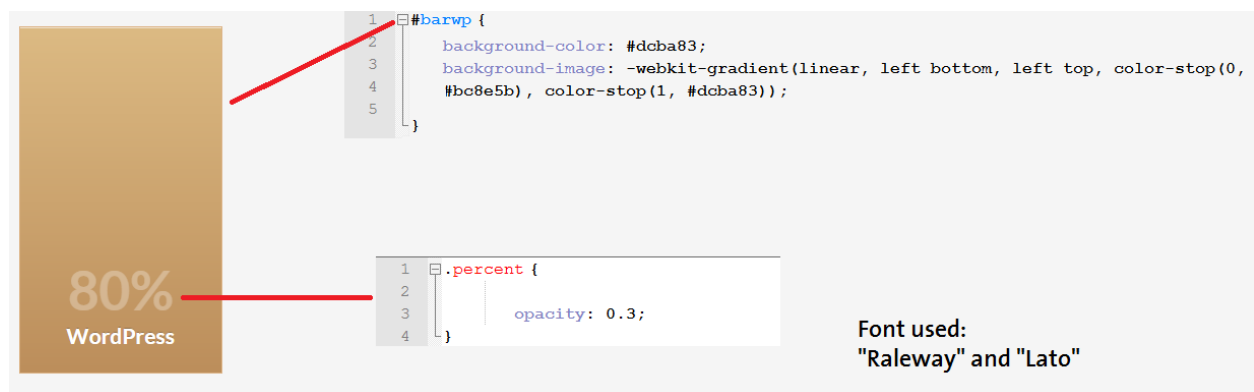


Figure 3: Tips for the design of charts and font used

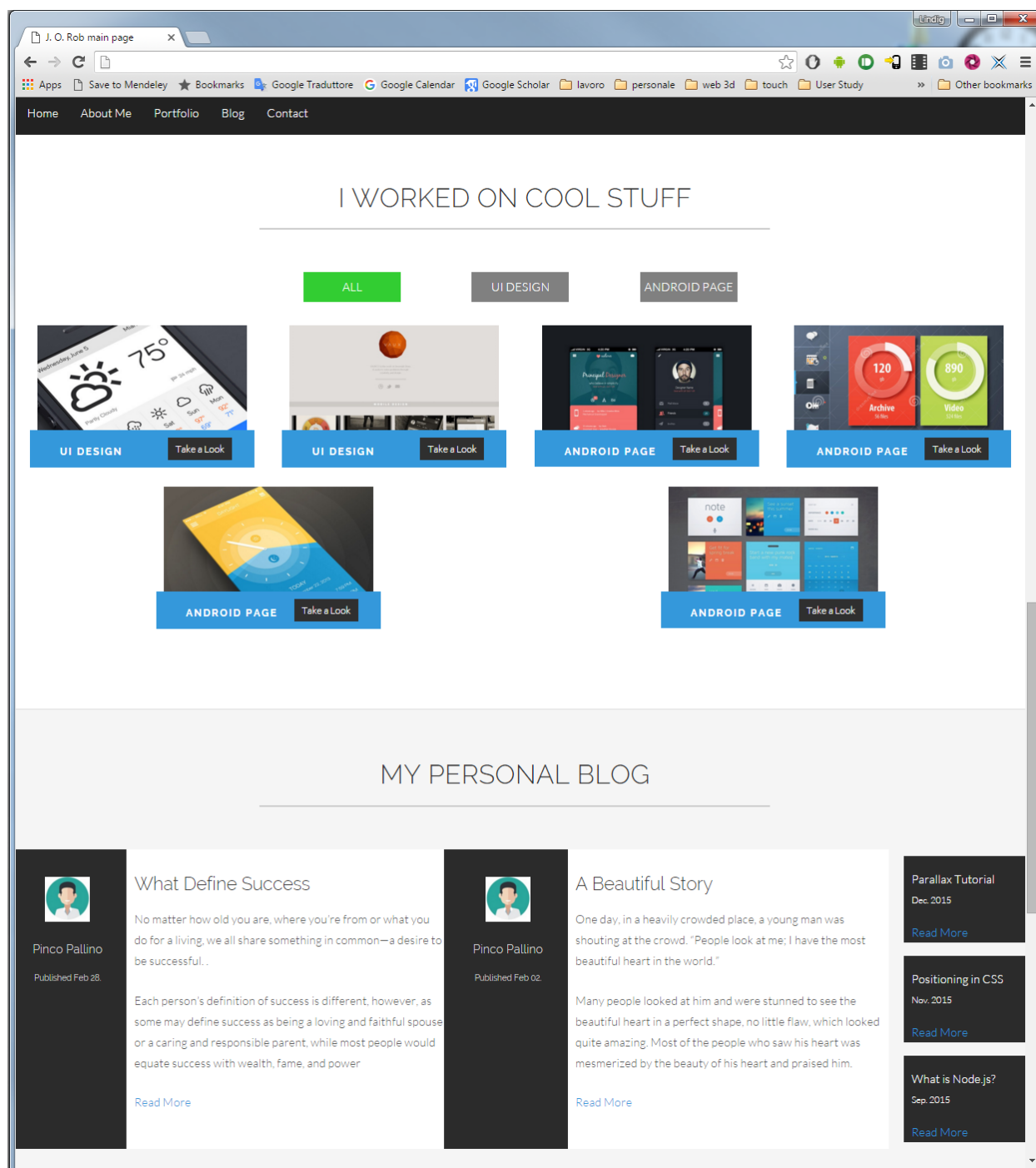


Figure 4: Design and layout for the *portfolio* and *blog* sections

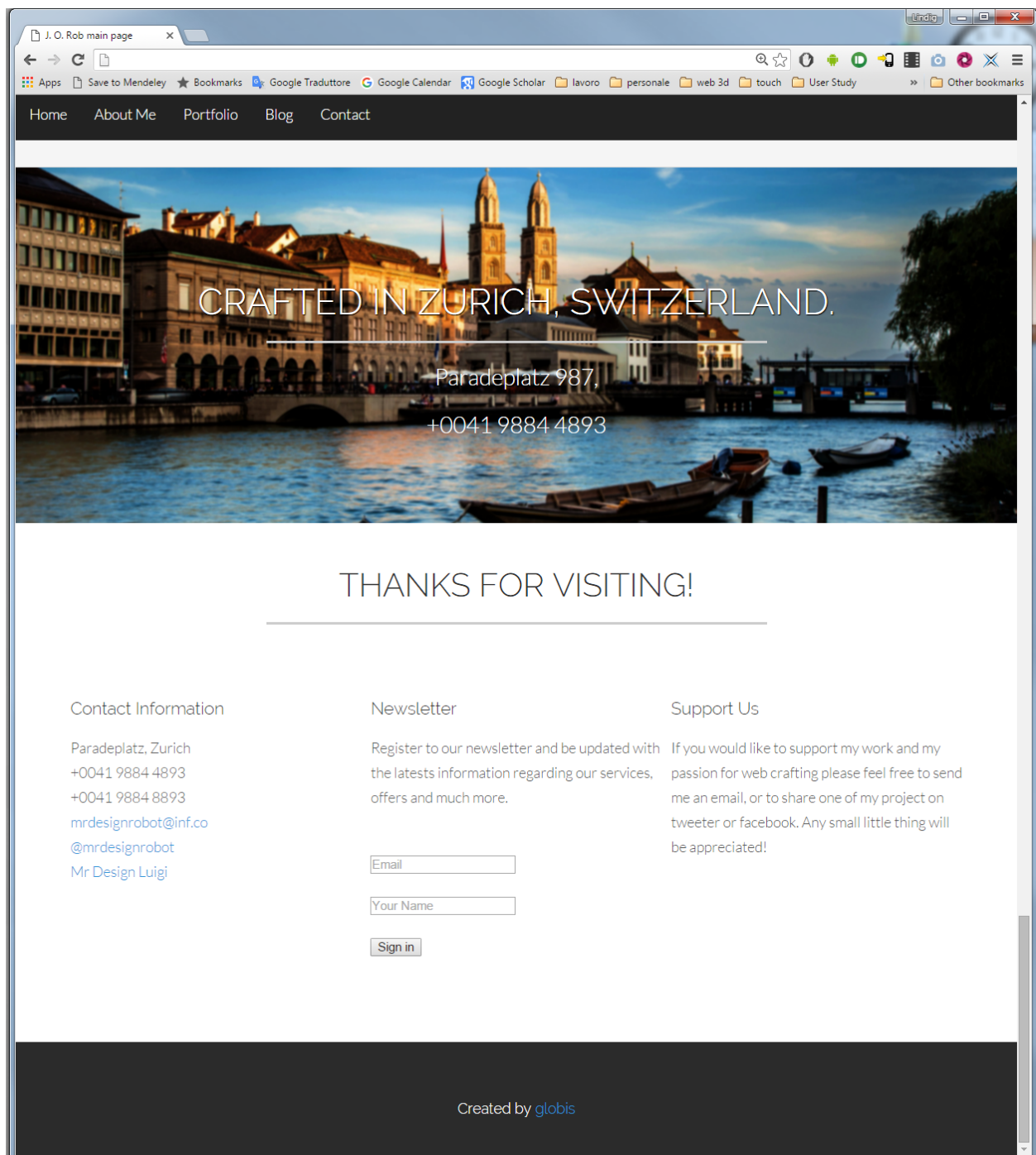


Figure 5: Design and layout for the *contact* section