

cis3.5, fall 2009, project I — web programming and web design:  
animal adoption site

## 1 overview

- This is the project for unit I of cis 3.5. This project covers basic web programming and web design.
- The project is worth 15% of your term grade. It will be marked out of **15 points**.
- The project is due via email on **Monday October 5**.
- Email the project to: sklar@sci.brooklyn.cuny.edu.
- PLEASE use the **ZIP** utility to bundle all your files together and send them as ONE attachment to the email. On a PC, use **WinZip**. On a Mac, use **File - Create Archive....** On Linux: use **zip**. See the class web page for **PROJECT SUBMISSION INSTRUCTIONS**.

## 2 project description

- The purpose of the project is to create a web page that contains information about an animal you would like to adopt or put up for adoption. This could be a real animal or a fictitious animal...
- Your web page should have 4 distinct sections:
  1. a text section that describes the type of animal and its name;
  2. a picture section that shows an *image* of your animal (this could be a photograph of a real animal or a cartoon of a fictitious animal);
  3. a diet section that contains a *list* of what your animal likes to eat and a *table* showing the schedule of when to feed each diet item to your animal; and
  4. a habitat section that contains *links* to information about your animal's natural living environment.
- *Warning: please do NOT put anything on the page that is inappropriate or that you don't want to be publicly accessible.* I am planning to post a class zoo gallery with all your interesting animal pages!
- The project has three parts: (1) web design, (2) HTML page and (3) style sheet. Each part is worth 5 points. The first part contains written documentation, to be written using a word processor (e.g., in Word) and submitted as a PDF file (preferably). The second and third parts are HTML and CSS pages, to be written using a text editor and submitted as HTML and CSS files, respectively.
- You will be generating and submitting **THREE FILES**: a DESIGN file, an HTML file and a CSS file.

## 3 web design (5 points)

- Create a GRAPHICAL DESIGN for your page using any DRAWING tool that you are familiar with. This can be PowerPoint, Photoshop, Illustrator or anything else you know. The design does not have to be fancy, but it has to be clear. It should show me how you plan to lay out the page and what elements will be contained in the page. It is okay to draw the design by hand and scan in or photograph the drawing, but the submission should be electronic.
- Create a WRITTEN DOCUMENT (using a word processor, like Word) that contains your drawing (above) AND a description of each element in your graphical design.

- Select at least 5 different design rules that we looked at during the first lab (Sep 2). Explain how your design adheres to those rules.
- *Write in clear English.* Check your grammar and spelling. Save your document as PDF, if possible.
- As above, the page must contain 4 distinct sections: (1) description, (2) image(s), (3) diet, and (4) habitat.

#### 4 HTML page (5 points)

- Create an HTML file that matches the design you outlined above in the **web design** part of this assignment.
- You will reference some images in your web page. These images should either be publicly available online (and referenced using a complete URL) or can be included in your submission (and referenced locally).
- There should be 4 distinct sections to your web page. Each section should be a **div**, to be formatted using a style sheet (see the next part of the assignment).
  1. the text description should contain at least 2 different FONT PROPERTIES (e.g., bold, italic, size, etc);
  2. the picture section should contain at least 1 IMAGE;
  3. the diet section should contain a LIST (either ordered or unordered) of the foods that your animal eats and a TABLE containing the schedule of when to feed the foods to your animal;
  4. the habitat section should contain at least 1 LINK to information about your animal's natural living environment, like a link to a web site describing the geographic region that it comes from.
- Use a style sheet (below) to specify the visual properties of your web page.

#### 5 style sheet (5 points)

- Create a cascading style sheet (CSS file) that specifies the visual properties of each of the 4 **divisions** on your web page.
- Set at least **10** different properties in total, for the different components, such as: background color, text color, border, etc.

#### 6 advanced option

- If you are an experienced HTML and/or CSS developer, you can take the "advanced option" and design and create your page for use on a mobile device such as an iPhone, iPod touch or G1 (or something else you could suggest).
- If you plan to take this option, please talk to me about which device you plan to code for, and how you plan to develop and test the code.
- Please note that if you do take this option, I still expect you to complete the basic HTML and CSS pages for our class who's who repository. The challenge will then be to design and create a mobile version of this page. Your web design documentation should refer to the "Mobile Web Best Practices" (see list of references linked on the class web page, at the bottom of the HTML/CSS references page).