D00 - Pool Ruby On Rails

Web Basics

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Summary: This first day will allow you to approach web development bases. On the menu : HTTP, HTML, CSS and integration of existing scripts in JavaScript

your pages.

Contents

Chapter I

Preamble

Here is what Wikipedia says the *Balaenoptera musculus*:

The blue whale (*Balaenoptera musculus)* also known as blue whale is a species of cetaceans of the family *Balaenopteridae*. Can exceed 30 meters in length and 170 tons, is the largest animal living in our time and in the present state of our knowledge, the largest that ever lived on Earth.

Long and thin, the body of the blue whale can take various shades of bluish-gray on the back and a little more clear below. There are at least three subspecies dis- tinct: *B. m. musculus* in the North Atlantic and the North Pacific that, *B. m. intermedia* Antarctic Ocean *B. m. brevicauda* discovered in the Indian Ocean and in the south of the Paci fi c Ocean. *B. m. indica* discovered in the Indian Ocean, may be another subspecies. Like other whales, blue whales feed mainly a small crustacean, krill, but also small fish and sometimes squid.

Blue whales were abundant in nearly all oceans until the early twentieth century. For nearly forty years, they were hunted by whalers who brought the species to the brink of extinction before it is protected by the international community in 1966. A 2002 report estimated there were between 5 000 and 12,000 blue whales worldwide, located in at least five groups. More recent studies on the subspecies *B. m. brevicauda* suggest that this may be an underestimate. Before the industrial whaling, the largest population was in the Atlantic, which had approximately 240,000 (in '202 000 and 311

000). The species is considered threatened.

No whales were harmed during the writing of it.

Chapter II

Instructions

- Only this page serve as a reference: Do not fi rm the hallway noise.

- The subject can change up to an hour before rendering.

- If no contrary information is explicitly present, you must assume the following language versions:

  - Ruby 2.3.0
  - for d09 Rails> 5
  - but for all the other days rails 4.2.6
  - HTML5
  - CSS 3

- We prohibit EXPRESSLY using keywords while, for, redo, break, retry and until in Ruby source code that you will make. Any use of these keywords is considered cheating (and / or unfit), giving you the score of -42.

- The exercises are precisely ordered from simple to more complex. In any case, we do not bear attention or take into account a complex exercise if a simpler exercise is not very successful.

- Attention to the rights of your fi les and your directories.

- You must follow the rendering process for all your exercise: only the present work on your GIT repository will be evaluated in defense.

- Your exercises will be evaluated by your pool mates.

- You should leave in your repertoire no other fi le than those explicitly speci fi ed by the forward drills.

- You have a question ? Ask your neighbor to the right. Otherwise, try your left neighbor.

- Your reference manual called Google / man / Internet / ....

- Think discuss on the forum of your pool Intra!

- Read the examples carefully. They might require things that

not otherwise specified in the subject ...

- Please, by Thor and Odin! Re fl échissez dammit!

Chapter III

Exercise 00

	Exercise: 00 00 Exercise: First
	shell script
Render Folder: *ex* 00 / Files to make: myawesomescript.sh	
Permitted functions: curl, grep, cut	
Remarks: n / A	

Yes Twitter has no secrets for you, you are very likely bit.ly :
a shortener handy URLs.

The purpose of this exercise is to write and make a shell script that ffi che the actual address of an address bit.ly (understand "the address to which the link returns bit.ly ").

As explicitly written in the cartridge of this exercise, you are not entitled to uili- ser the following three shell commands to complete this exercise: curl, grep and cut.
Your best starting point is to read the manual command curl. To do this, type man curl in your device.

An example of the expected behavior of your shell script:

```
$> $ ./Myawesomescript.sh bit.ly/1O72s3U http://42.fr>
```

The above example clearly shows that your script should be executable. interprets the user's / bin / sh.

Meet your script to a folder ex00 to the root of your deposit.

Chapter IV

Exercise 01

	Exercise 01 Exercise 01: Your
	CV HTML
Render Folder: *ex* 01 / files to make: cv.html	
Permitted functions: n / A	
Remarks: n / A	

You must create a CV HTML / CSS and meet the following requirements:

- You must respect the semantics of your HTML tags, and the separation of presentation and content.

- You must produce a file in HTML coherent structure with a minimum imposed content: name, skills and career.

- You need a ffi high to a title with the tag title and a title with the tag h1.

- You must use at least one table with tags table, th, tr and td.

- You must use at least one list with the tag ul and a list with the tag ol. The elements must use the tag li.

- The edges of the tables should be visible (solid). The edges of the tables should be merged (collapse).

- You will need to use a syntactic solution diff erent for each of the previous two rules: first use the tag style in the head your page. For the second, using an attribute style in a tag that is obviously appropriate.

- The lowermost cell to the right of each table must have # 424242 as border color.

	No special requirement for the veracity of information. You can make a wacky CV if you feel like it.

Chapter V

Exercise 02

	Exercise: 02
	Exercise 02: Sending form of emails
Render Folder: *ex* 02 / Files to make: form.html	
Permitted functions: n / A	
Remarks: n / A	

Make a form HTML which represents the usual information contact IN ANY. This form is to provide all of the following fields:

- firstname: a text field.
- name: a text field too.
- Age : you must use the specified numeric field as the HTML5.
- Phone: you must use the field as specified in that HTML5.
- E-mail : you must use the specific field email at HTML5.
- Student at 42? : you must use the checkbox field.
- Gender: you must use the radio buttons with values Male, Female and Other.
- A form submit button. The attribute onclick Your button must be: 'DisplayFormContents (this.form).

the tarball d00.tar.gz annexed to this topic contains a subfolder EX02 / which itself contains a file Javascript popup.js written by the son of your boss internship in your company. As it would be unacceptable if you do spend the son of pa- tron for programming incompetant, you can not modify its fi le that should be used as such.

A careful reading and a surface COMPRENSION the provided JavaScript is required to succeed this year.

You must properly integrate this fi le Javascript to your page HTML. If your code HTML is correct, pressing the Form button will bring up an ultramodern popup containing the fields and values of your form. In all other cases, your code HTML is wrong.

figure V.1 – noncontractual illustration of the expected result.

Chapter VI

Exercise 03

	Exercise: 03
	Exercise 03: Reproduction of a web page
Render Folder: *ex* 03 / Files to make: copy.html	
Permitted functions: n / A	
Remarks: n / A	

A competing company has posted a prettier webpage yours. With an industrial espionage worthy of Hollywood cinema, your boss provides a screen shot of the page and the fi le css that goes with. These two fi les at your dis-position in the Annexes to this in the archive d00.tar.gz and subfolder EX03 /.

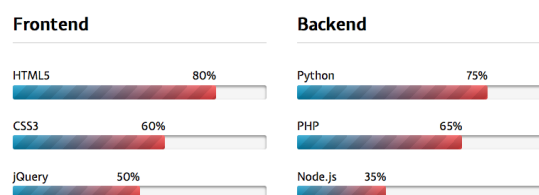You must reproduce this as faithfully as possible page!

figure VI.1 - The screenshot of the page to duplicate. Scale of noncontractual image.

You will again separate the content and form, respect the semantics of tags used and maintain a logical structure in your document.

You must use the fi le css provided without the modifying. A "fresh" version of this css defense will be used to verify that you have complied with this order.

Chapter VII

Exercise 04

	Exercise: 04
Exercise 04: Integration of JS snippets.	
Render Folder: *ex* 04 / Files to make: snippets.html	
Permitted functions: n / A	
Remarks: n / A	

the tarball d00.tar.gz annexed to this topic contains a subfolder ex04 / which itself contains four fi les: file1.js, file2.js, file3.js and file4.js.

You must create and make a file snippets.html which must import all four scripts so that the pop-up was ffi che **correctly (** so no weird characters).

You can than import scripts in question, you can not modify or add Javascript in your HTML.

Chapter VIII

Exercise 05

	Exercise 05 Exercise 05:
W3C validation.	
Render Folder: *ex* 05 / Files to make: Your index.html file and the asset	
Authorized Functions: Notes: n	
/ A	

The code is good, the beautiful code is better, and to make good code, it is best to follow a good standard.

The W3C standard is a must in the field, and it is imperative to respect it when you write or you drive HTML.

You will find in the tarball d00.tar.gz annexed to this subfolder
ex05 / which contains the source of a complete webpage. Unfortunately, this page has been written by a developer much worse than you!

Modi fi rm code HTML of the file index. html so that it passes the W3C validation ! This means, therefore, no errors and no *warning*.