Coursework#2

Save the Amazon

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Context

A non-profit organisation with the mandate of protecting the Amazon wants to spread the word about the impacts of the climate change in the Amazon and, therefore, in the world. To do so, they created an email newsletter. They know that email newsletters are coded using HTML and CSS and they are also aware about the different GUI/tools that let users to create newsletters. However, they want more control on the design and have decided to build the newsletters as web pages.

A member of such organisation* came across your awesome personal webpage and some of your works and he decided to put you in charge of the development of this.

*Notice that this is only a fictional context for the assignment :-p
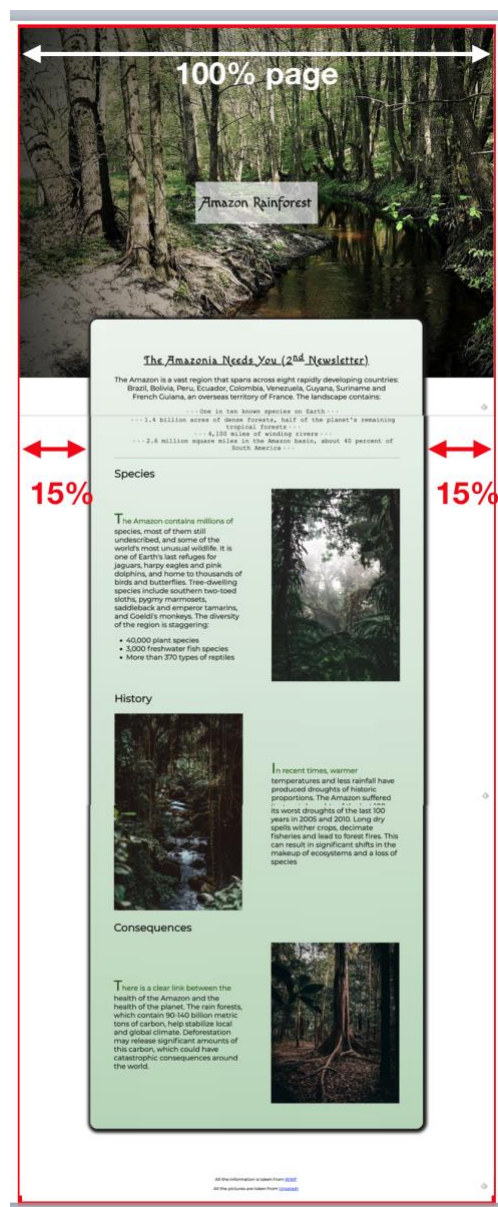
Task description

The newsletter will only have one page divided in different sections.

- ♦ The header: it displays the name of the newsletter and a background image.
- ♦ The main box: contains the contents of the newsletter and it is divided in two sections
    - o The introduction: small article that presents the newsletter
    - o The articles: list of articles for the newsletter
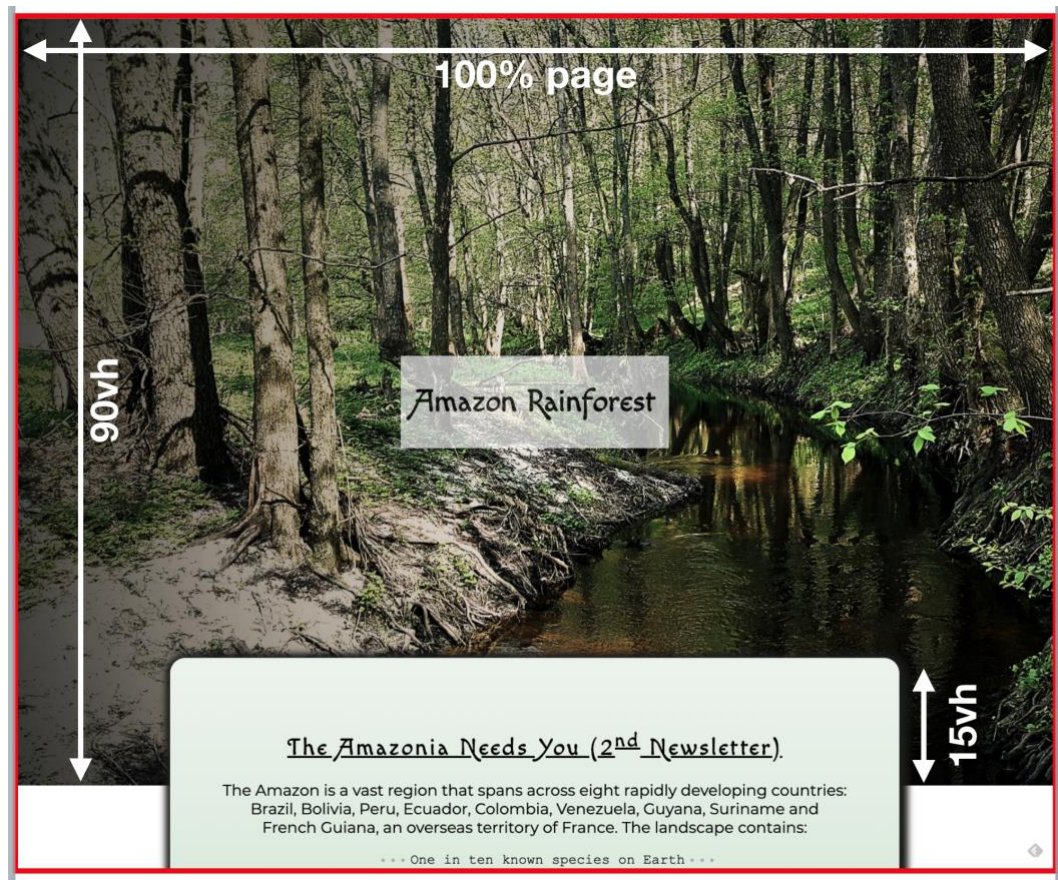- ♦ The footer

The mock-ups

In this section you will find the mock-ups you have to implement. The html code was given by the organisation which means that you will only need to create and link the styles.

The Page

Notice that the default font-face for all the page is "Montserrat". The fall-back font is sans-serif and the default size is 1.5rem.
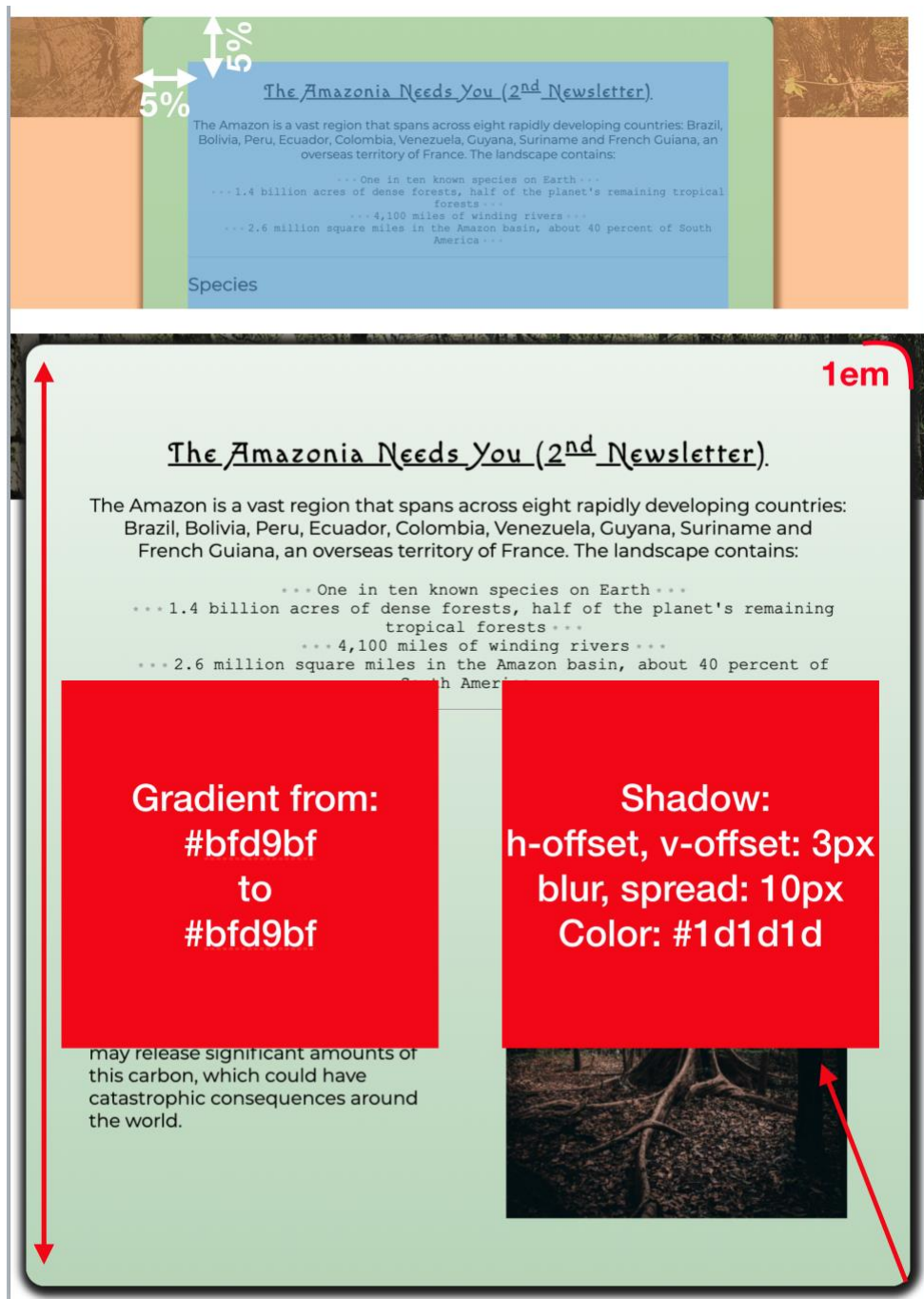
The header

Notice that:

- The background image:
    - will scale as large as possible without cropping or stretching the image
    - will be centred
    - will not scroll with the page
- The Amazon Rainforest box
    - is centred vertically and horizontally
    - is, at least, 3em
    - Has an opacity of 0.7
- The Amazon Rainforest text
    - is centred vertically within its box
    - uses the 'Macando Swash Caps' font
    - needs a fallback font

The main box

Notice that:

- the whole box is adjusted 15vh away from its normal position (to the top)

The Amazonia Needs You (2ⁿᵈ Newsletter)

The Amazon is a vast region that spans across eight rapidly developing countries: Brazil, Bolivia, Peru, Ecuador, Colombia, Venezuela, Guyana, Suriname and French Guiana, an overseas territory of France. The landscape contains:

```
···One in ten known species on Earth···
···1.4 billion acres of dense forests, half of the planet's remaining tropical
forests···
···4,100 miles of winding rivers···
···2.6 million square miles in the Amazon basin, about 40 percent of South
America···
```

Capital letter

The Amazonia Needs You (2ⁿᵈ Newsletter).

0.1em   **Macondo Swash Caps**

```
···One in ten known species on Earth···
···1.4 billion acres of dense forests, half of the planet's remaining tropical
forests···
···4,100 miles of winding rivers···
···2.6 million square miles in the Amazon basin, about 40 percent of South
America···
```

Courier New, 0.9em

* * *   **font-weight: bolder**
darkgrey
0.8rem   * * *

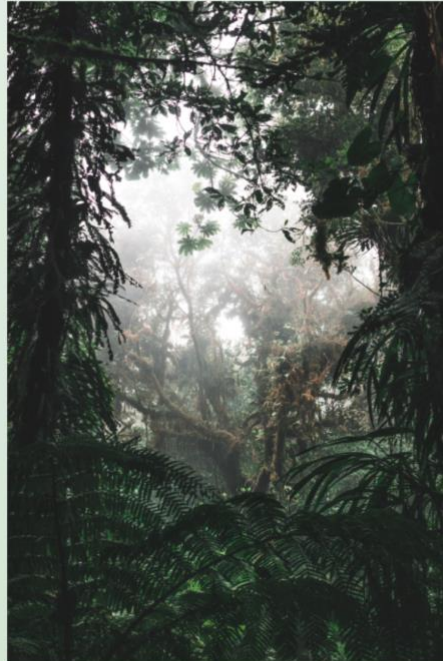Notice that some of the styles will need to be deduced by you since there are not explicit "red comments" for everything.

Don't forget that you can't alter or modify the HTML content.

Species

The Amazon contains millions of species, most of them still undescribed, and some of the world's most unusual wildlife. It is one of Earth's last refuges for jaguars, harpy eagles and pink dolphins, and home to thousands of birds and butterflies. Tree-dwelling species include southern two-toed sloths, pygmy marmosets, saddleback and emperor tamarins, and Goeldi's monkeys. The diversity of the region is staggering:

- 40,000 plant species
- 3,000 freshwater fish species
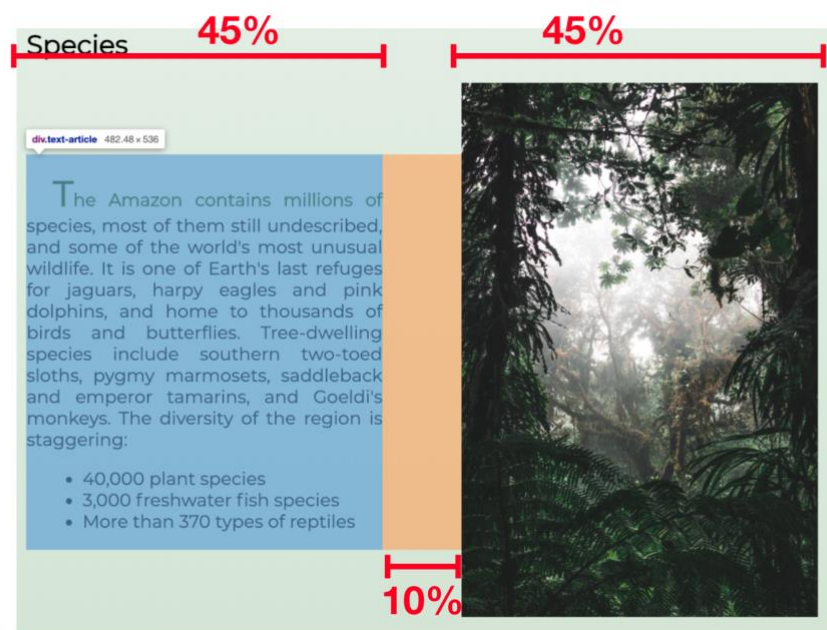- More than 370 types of reptiles

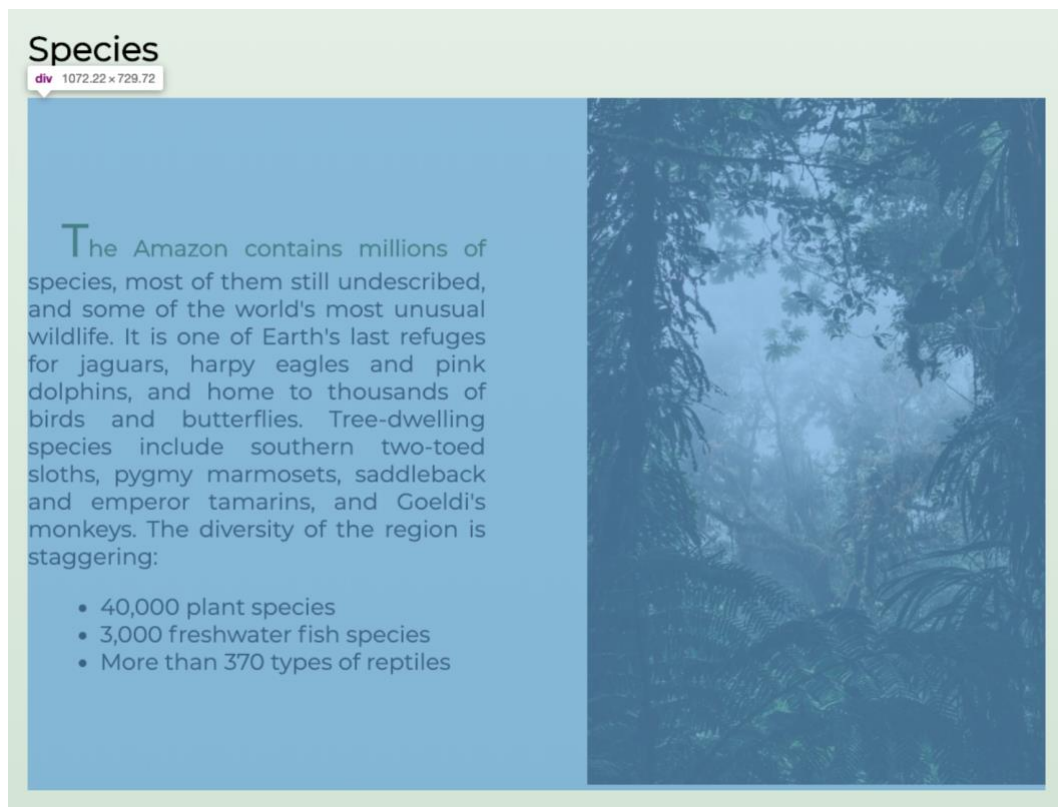**1.5em** **Bold, 2em** **Bold, #215502**

The Amazon contains millions of species, most of them still undescribed, and some of the world's most unusual wildlife. It is one of Earth's last refuges

Pay attention to the following images to guess the margins, paddings and size of the elements inside the article.

Clue: consider using flexbox for creating 2 columns (one for the text and another for the image).

The footer

The footer will be centred and the size of the font 0.9rem.

Responsive layout

The page will have 3 different layouts. The main layout is the one presented in the previous mock-ups.

The second layout will only be applied if the screen size is less than 960px wide. The differences are:

- The header (background) will be 40vh tall
- The "Amazon Rainforest" box will be 70vw wide
- The main box
  - will be adjusted 10vh away from its normal position (rather than 15vh)
  - right and left margins will be 5%

The last layout will be used with screens less than 600px wide and it will apply the same rules than the second one (or override some) but, in addition:

- The default font size for the whole page will be 1.2rem
- The header (background) will be 30vh tall
- The "Amazon Rainforest" box:
  - will be 90vw wide
  - will have a min height of 1.5em
- The main box
  - will be adjusted 1vh away from its normal position (rather than 15vh)
  - right and left margins will be 1%
  - change the radius of the box to 1em
  - will remove the box shadow
- The articles (except the article that is used as introduction):
  - will display the image and the text of the image in one column
  - will show first the text and after that the figures (change the order using CSS)

Required

This assignment is graded based on all the concepts introduced from Week 34 to Week 42. You will find a list of considerations you need to check before delivering this assignment.

- Add the proper metatags to the HTML to improve the SEO
- Use proper naming conventions for files (i.e., HTML, CSS, images, folders, etc.)
- Readable code (clean, clear, **commented and well formatted**).
- Use CSS for the presentation layer.
- CSS rules must be efficient. Don't Repeat Yourself (DRY).
  - Use separated files.
  - Use selectors, classes and id.

- o IMPORTANT: based on the mock-ups try to find out what rules can be shared among all the pages.
- o REMEMBER THAT ELEMETNS MUST NEVER OVERFLOW THEIR PARENT CONTAINER

Please, don't forget that you can't modify or alter the HTML code (only add the SEO metatags).

PROJECTS WITH VALIDATION ERRORS WILL GET A "FAIL" AUTOMATICALLY WITHOUT ANY OTHER FEEDBACK/COMMENTS.. DON'T FORGET TO VALIDATE THE CODE BEFORE DELIVERING THE PROJECT.

Tips

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

- Analise the mock-ups and try to find out what all the elements have in common
- 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

All the relevant readings have already been posted in blackboard or other assignments.

- https://moz.com/blog/seo-meta-tags
- https://www.w3schools.com/cssref/sel_before.asp
- https://www.w3schools.com/cssref/sel_after.asp

Source code

With the description of this assignment the resources that you will need such as images, fonts and html code are provided.

Deliverables

The deadline is on Blackboard and the cover of this document. The assignment will be delivered in Blackboard as well. Further instructions will be found there. The delivery consists in two parts:

- The zip file, containing the complete website (i.e. you need to zip your root folder).
  - The zip file must me named as "studentcode-o2-idg1292-2019" (for example, if your student code is 1357246 then the name of the zip file must be "1357246-o2-idg1292-2019".
  - The zip will contain your whole project (i.e.: html pages, folders, assets, images, etc.).
  - **The readme.txt file must contain the "URL" of the live version of your site (i.e. the folk site).**
- The live version of your site: the exact same website must be published on your personal website (folk site) via FTP.
  - To avoid plagiarism issues, I recommend you upload the project naming the root folder of your coursework using a random name.

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!