Coursework#2

Get a Hero

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Context

Marvel has decided to build a website to bring heroes closer to people by spreading their biographies, abilities and powers. A head-hunter* of such company came across your awesome personal webpage and some of your works and he decided to put you in charge of the development of this site.

Since it's the first time the company hires you, they don't want you to be in charge of the design and, for that reason, they have prepared some mock-ups that you must follow.

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

Task description

The site will have 2 different kinds of pages: the main page and the hero page.

♦ **Main page:** this is the first page the users visit. This page is used to display a list of heroes following a table-like structure. For each hero, an image and a description (short biography) are displayed.

♦ **Hero page:** this page contains the biography of the hero. The information provided in this page is divided in different sections.

  A. **Main heading:** it displays the name of the hero.
  B. **Credits:** the author or creator of the character.
  C. **Intro:** brief introduction about the hero (about 50-70 characters).
  D. **Quote:** it contains a quote of your favourite sentence or paragraph from the text (story section) or something the hero said in comics, movies, etc.
  E. **Table:** table that displays some data about the hero.
  F. **Secondary heading:** this heading indicates that the biography begins here.
  G. **Story section:** it contains the biography.
  H. **Footer:** it contains a link to go to the top of the page and another one to open the home page.
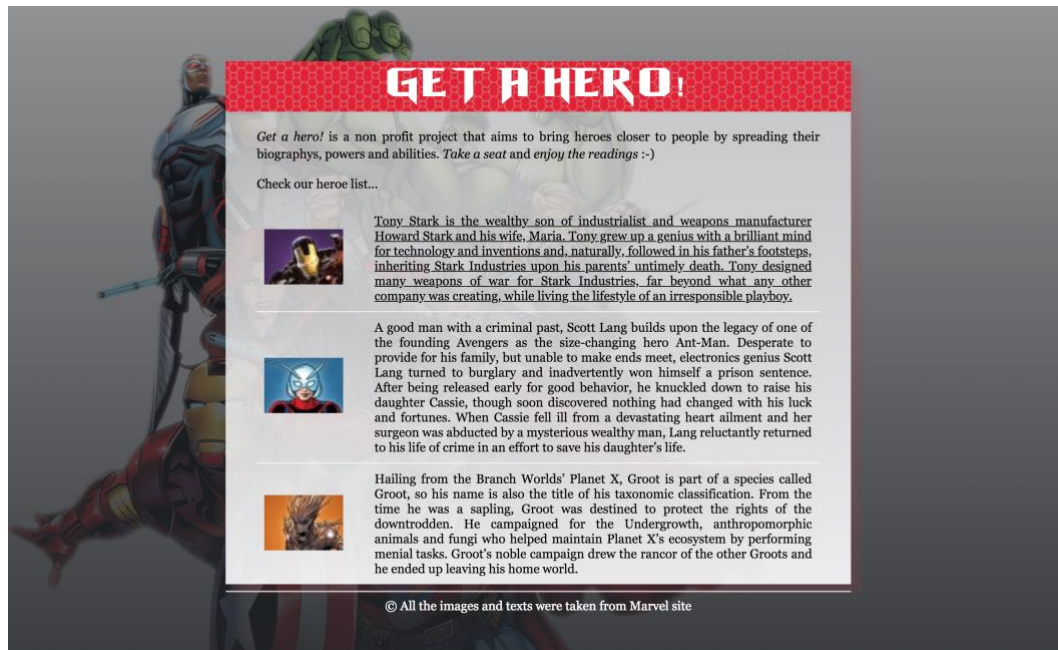
Main page

Figure 1 - Main page with background with the mouse over the description of the first hero

Figure 1 depicts how the page should look like. It has a background, a main section with the contents of the page (headings and table) and a footer.

- ♦ The list of heroes must be coded using a table.
- ♦ The description of the heroes must be "clickable".
- ♦ Only the first description will open a new page for the character. For example, in Figure 1, when the user clicks on the description of "Iron man", the iron-man page (hero page) will be opened. However, when clicking on the second and third descriptions nothing will happen.
- ♦ The list of heroes is up to you. Just pick your favourite hero (or villain). You can use whatever resource you want to find heroes, pictures and descriptions. However, if you are running out of ideas you might want to take a look to https://www.marvel.com/characters.
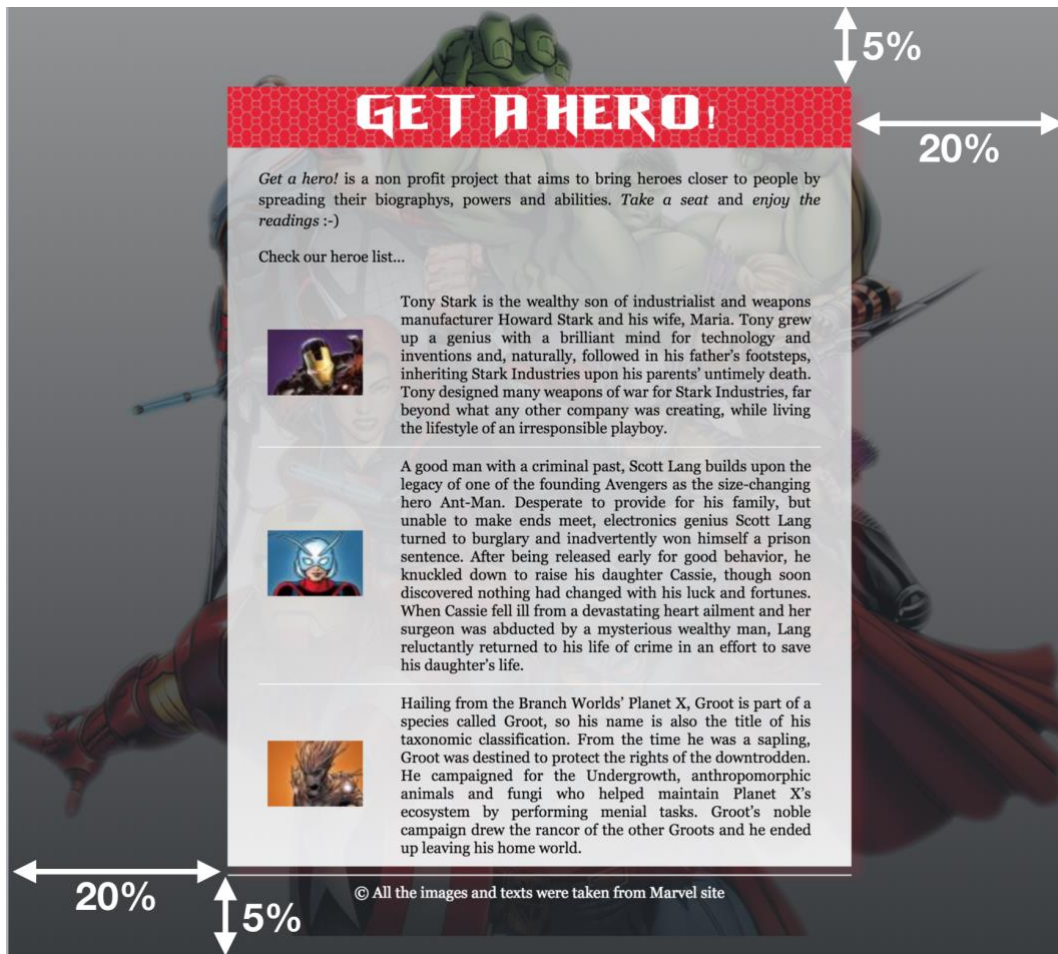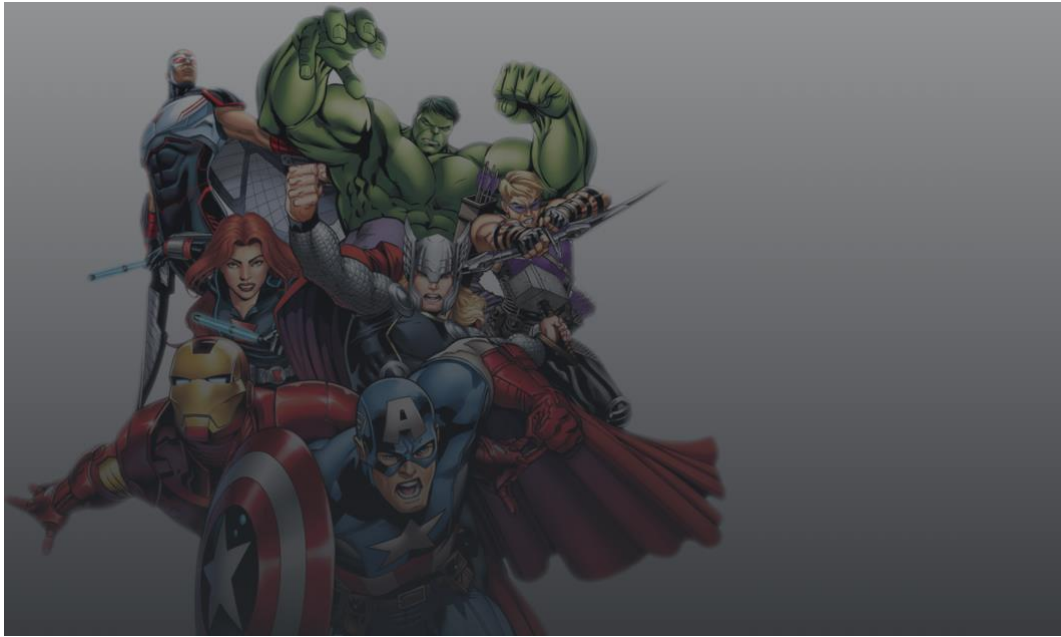- ♦ The footer is centred.

Figure 2 - spacing for the whole page

Figure 2 shows the main structure of this page. The background of the page is composed by 2 layers (Figure 3).

The first layer consists in a linear gradient that occupies 100% of the page. The gradient goes from colour "rgba(35, 38, 42)" and 50% transparency to colour "rgba(35, 38, 42)" and opacity set to 90%.

The second layer consists in an image with a transparent background (provided within the zip file with the sources of this assignment – assets/images/heroes.png). This image must:

- Be displayed only once.
- Remain at the same position even when the user scrolls the page.
- Be displayed at the top left corner of the screen.
- Resize the background image to make sure the image is fully visible.

Figure 4 and Figure 5 show the structure of the main "box" that is used to display the main content of the home page.
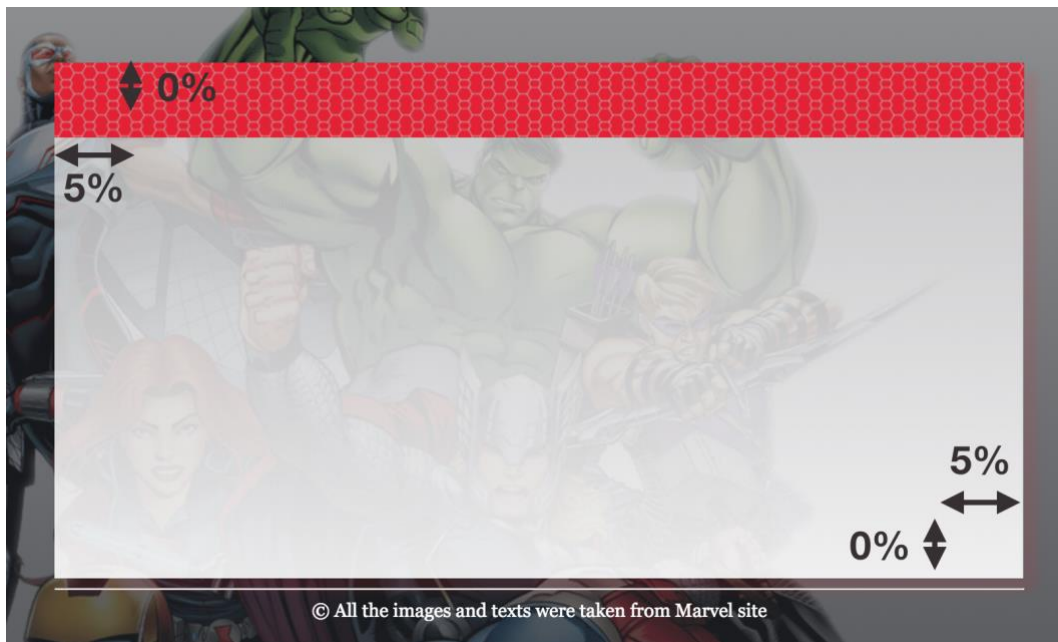
Figure 4 - spacing for the box with the main contents of the homepage
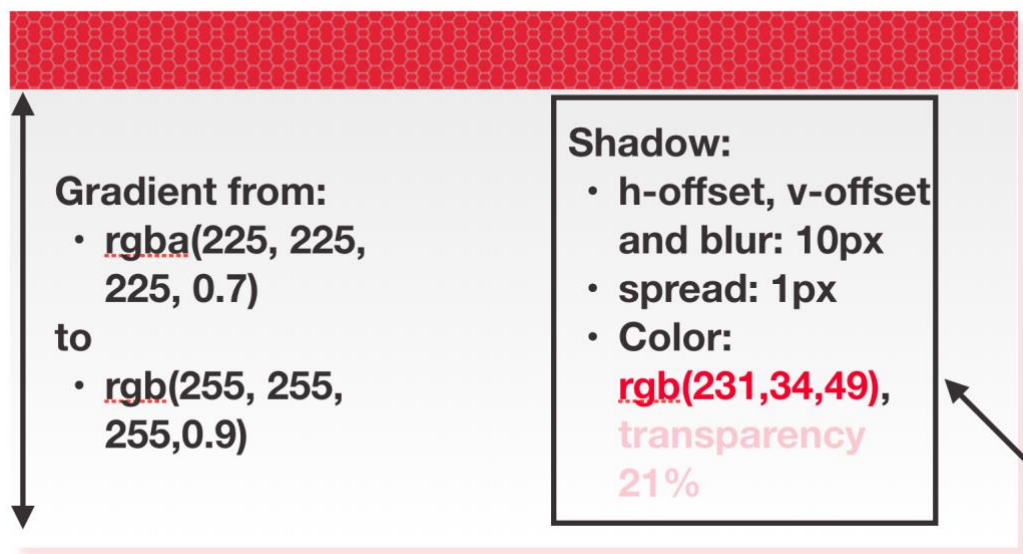

Figure 5 - shadow and background of the main content (homepage)
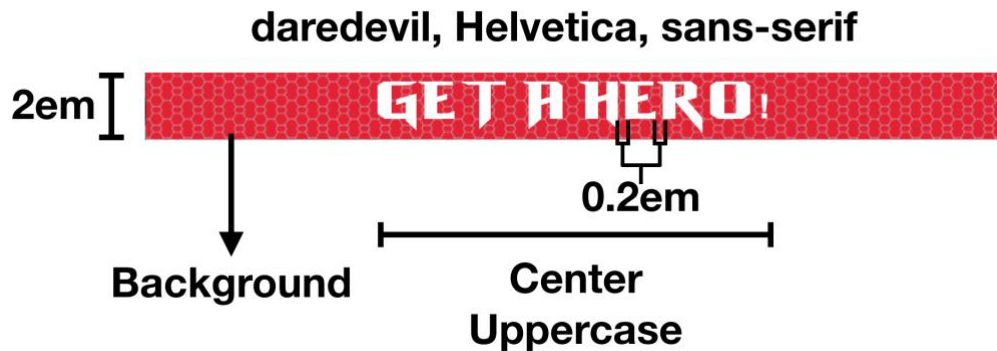
Figure 6 - heading (homepage)

Figure 6 shows the style for the main heading of the homepage. The "daredevil" font can be downloaded from http://www.fontspace.com/filmfonts/daredevil but it is also provided within the zip file with the sources of this assignment (assets/fonts/daredevil.ttf). The background image is also provided with those files (assets/images/honeycomb.png). Figure 7 shows the font and fallback fonts used in this section. Also notice that the table and the elements have some margins and paddings.

Figure 7 – font and spacing (homepage)

Hero page

The hero page contains the biography of the hero. The main structure of the page is shown in the following image (Figure 8).
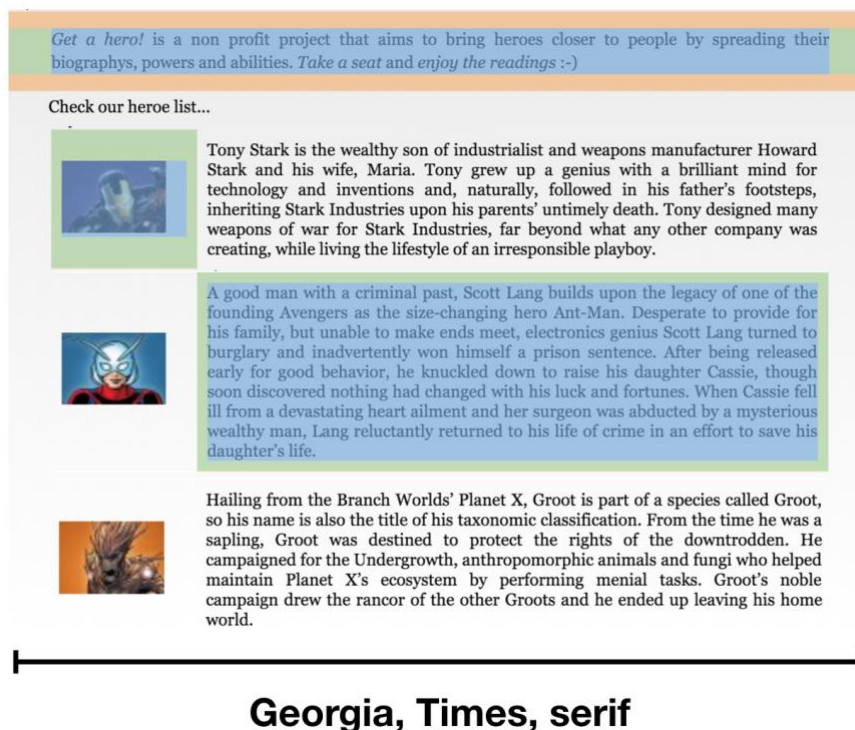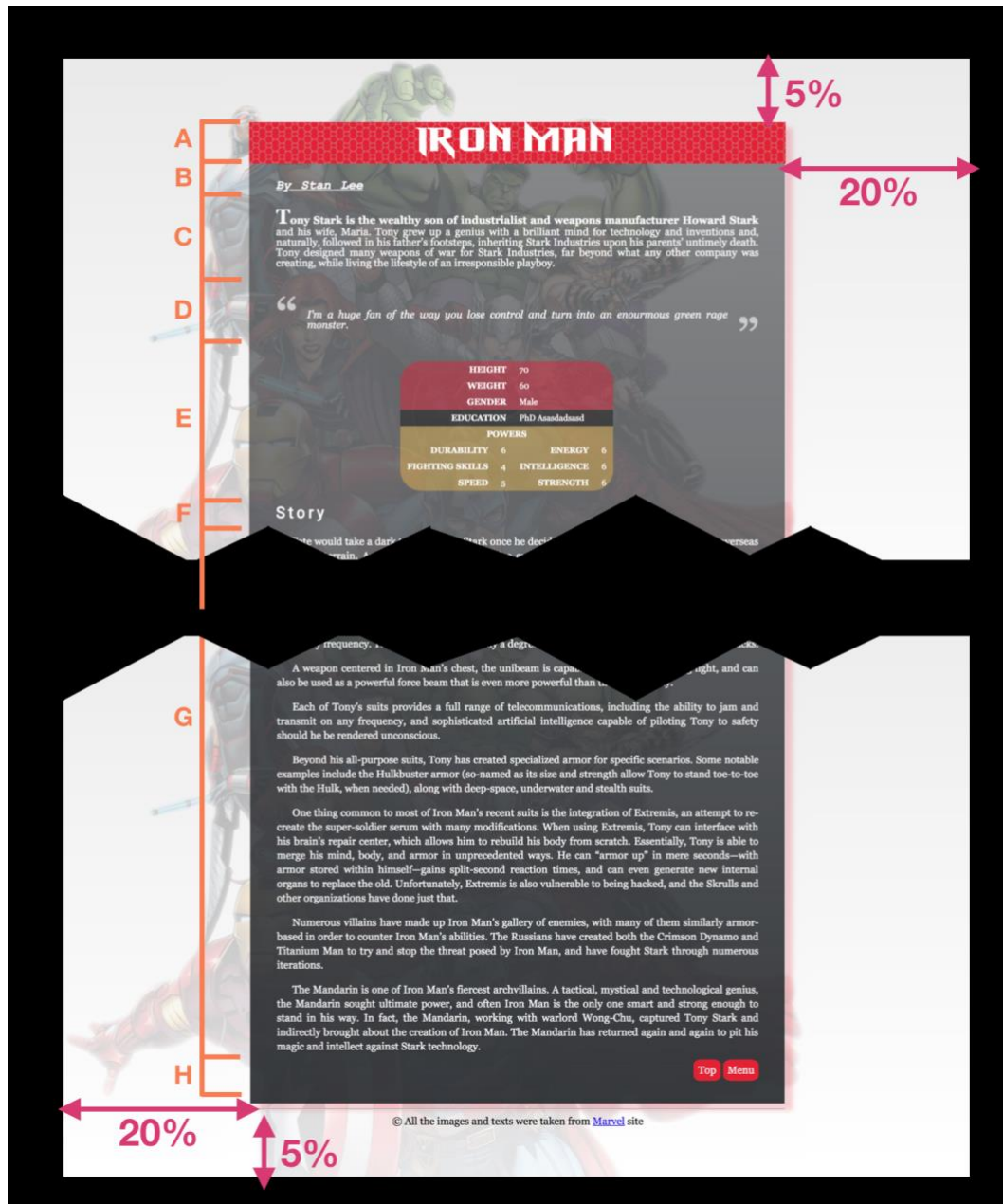

Figure 8 - hero page main structure
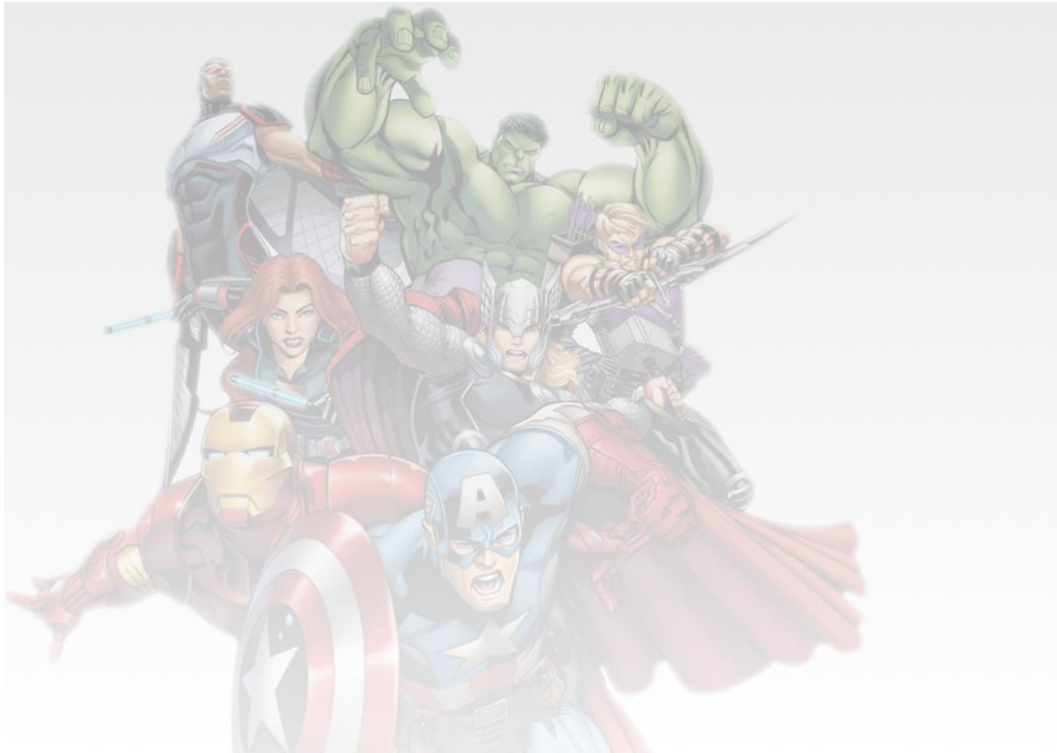
Figure 9 - background of the hero page

The background of the page is composed by 2 layers (Figure 9).

The first layer consists in a linear gradient that occupies 100% of the page. The gradient goes from colour "rgba(255, 255, 255)" and 70% opacity to colour "rgba(255, 255, 255)" and opacity set to 90%.

The second layer consists in an image with a transparent background (provided within the zip file with the sources of this assignment – assets/images/heroes.png). This image must:

♦ Be displayed only once.
♦ Remain at the same position even when the user scrolls the page.
♦ Be displayed at the top left corner of the screen.
♦ Resize the background image to make sure the image is fully visible.

Figure 10 and Figure 11 show the structure of the main "box" that is used to display the main content of the hero page.
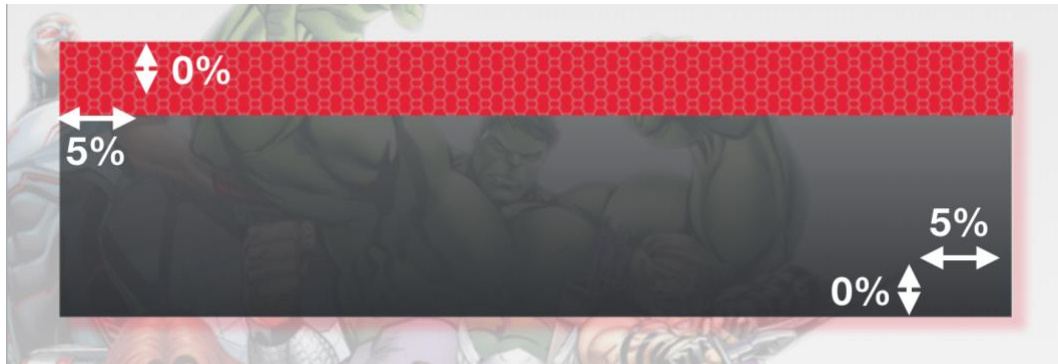
Figure 10 - spacing for the box with the main contents of the hero page
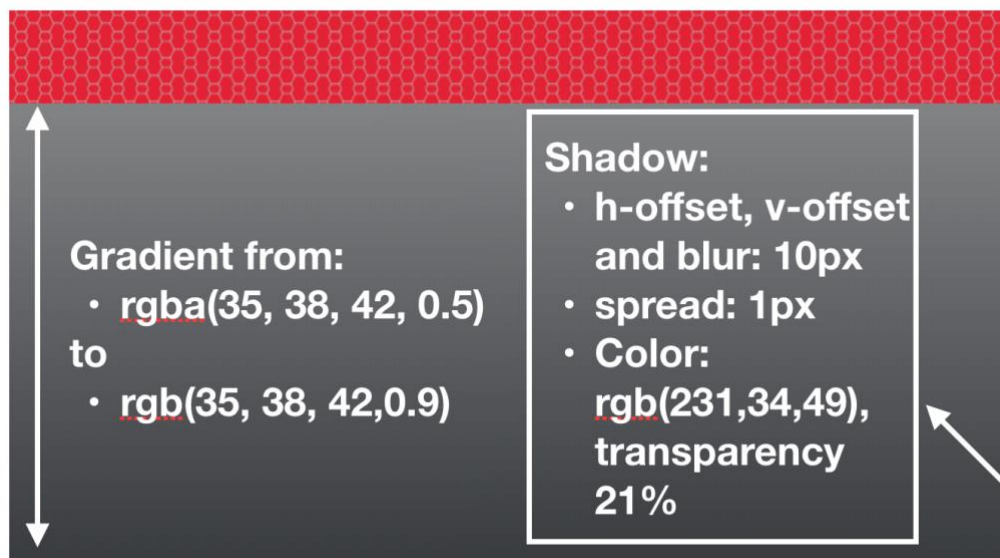
Figure 11 - shadow and background of the main content (hero page)

A. Main heading

Figure 12 shows the style for the main heading of the homepage. The "daredevil" font can be downloaded from http://www.fontspace.com/filmfonts/daredevil but it is also provided within the zip file with the sources of this assignment (assets/fonts/daredevil.ttf). The background image is also provided with those files (assets/images/honeycomb.png).

daredevil, Helvetica, sans-serif

2em

IRON MAN

0.2em

Background

Center
Uppercase
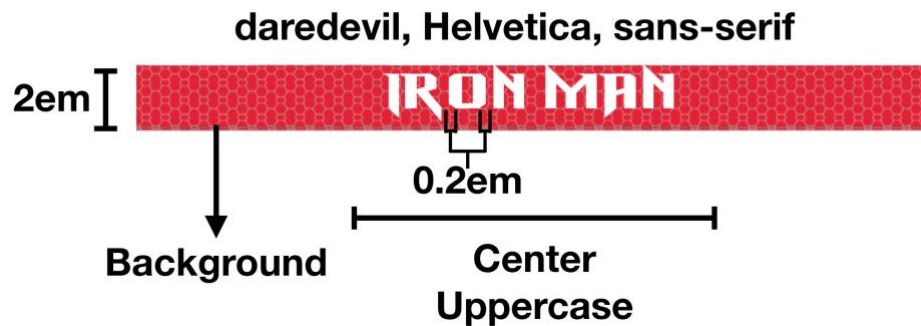
Figure 12 - heading (hero page)

B. Credits

By Stan Lee

0.2em

Underline

* All words start with a capital letter
* Bold
* Italic
* Size: 1.2 em
* Font: "Courier new", Courier, Monospace

Figure 13 - styles for the credits

C. Intro

200%

Bold

Tony Stark is the wealthy son of industrialist and weapons manufacturer Howard Stark and his wife, Maria. Tony grew up a genius with a brilliant mind for technology and inventions and, naturally, followed in his father's footsteps, inheriting Stark Industries upon his parents' untimely death. Tony designed many weapons of war for Stark Industries, far beyond what any other company was creating, while living the lifestyle of an irresponsible playboy.

1em

Justify
Georgia, Times, serif

Figure 14 – styles for the intro

D. Quote

Open-quote
4 em
Bold
#cc cc cc

Close-quote
4 em
Bold
#cc cc cc

I'm a huge fan of the way you lose control and turn into an enourmous green rage monster.

1em
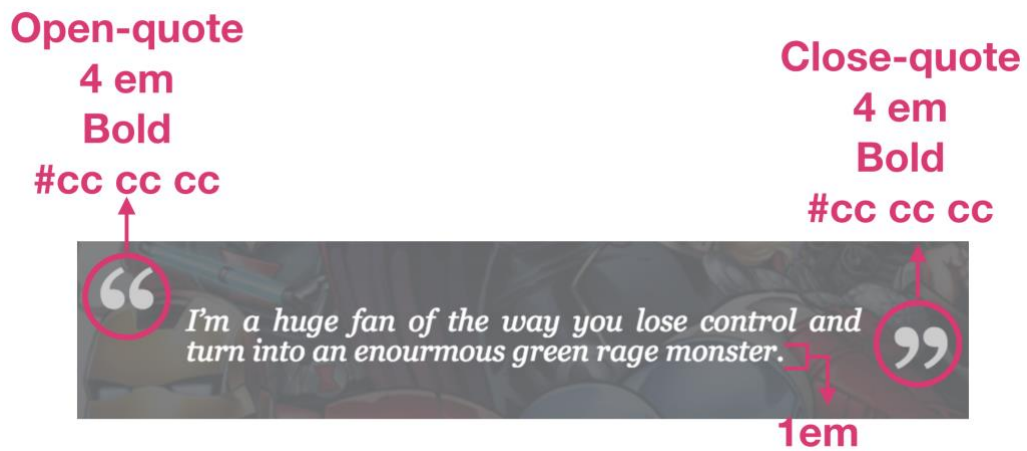
Figure 15 – styles for the quote

E. Table

2em radius

#e422357a

#1515157a

#E8B63D7a

HEIGHT	70		
WEIGHT	60		
GENDER	Male		
EDUCATION	PhD Asasdadsasd		
POWERS			
DURABILITY	6	ENERGY	6
FIGHTING SKILLS	4	INTELLIGENCE	6
SPEED	5	STRENGTH	6

* All headings must be:
    * uppercase
    * aligned to the right
* All values must be
    * capitalised
    * aligned to the left

* Internal padding: 5px 10px
* Powers heading centred
* The font size is 0.8em

Figure 16 - styles for the powers table

Figure 16 shows the styles of the powers table. Notice that in order to make the borders rounded, the table needs to have the "overflow" property set to "hidden". Otherwise, it will not work.

F. Secondary heading

Figure 17 – styles for the secondary heading

G. Story section

Figure 18 - styles for the story

Link to the top of the page

Link to the homepage

25% radius

Top Menu

5%

* Both buttons aligned to the right
* Default
    * No text decoration
    * White

* Hover
    * Underline
    * Bold
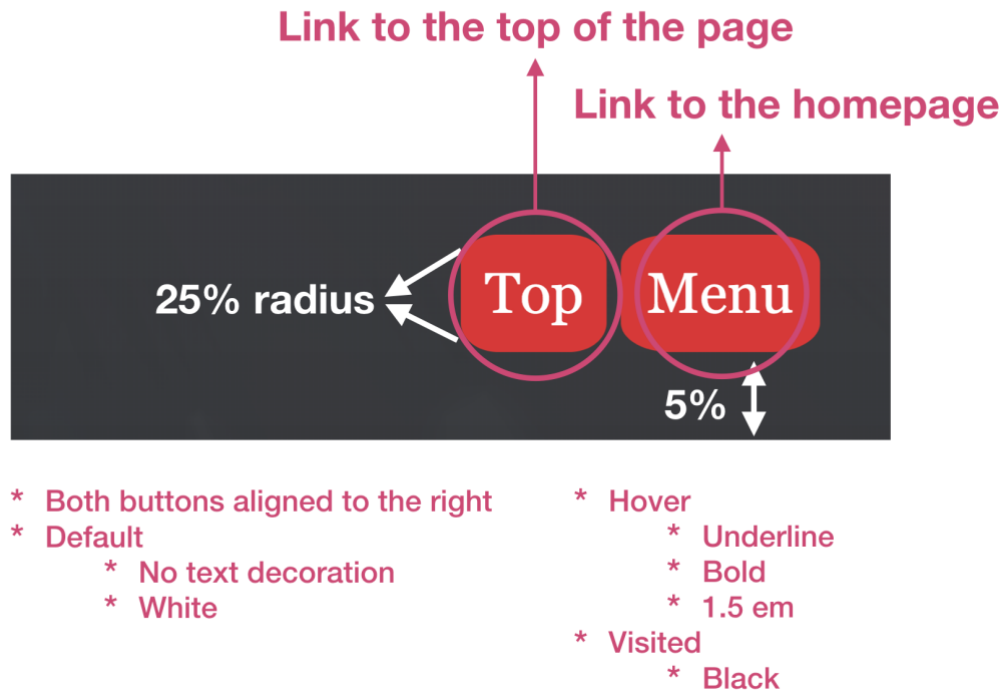   * 1.5 em
* Visited
    * Black

Figure 19 - styles for the footer

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 only difference between this layout and the default one is that here the main padding must be removed. See Figure 20.

The last layout will be used with screens less than 600px wide and it will apply the same rules than the second one but, in addition, it will hide the picture of all the hero (homepage). See Figure 21.
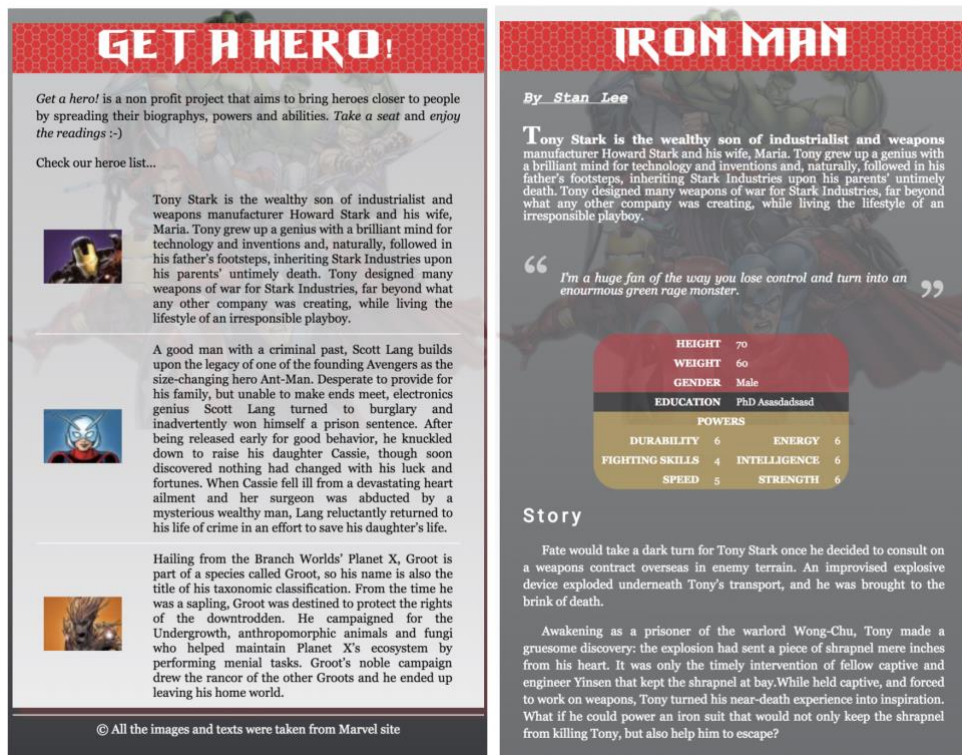
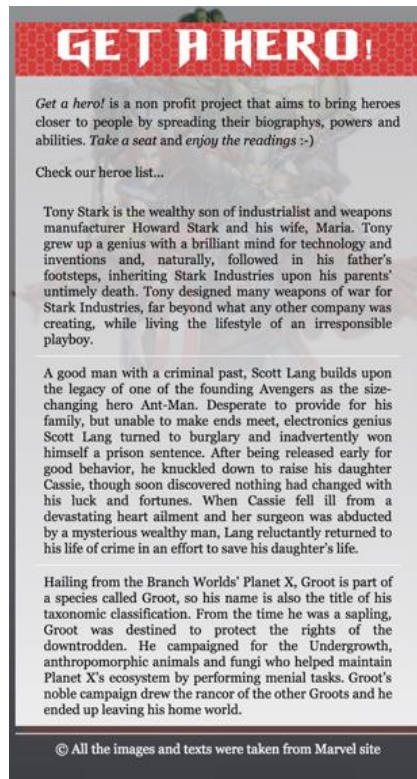*Figure 20 - layout for small screen (current size 700px wide)*

Figure 21 - layout for small screens (current size 500px wide)

Required

This assignment is going to be graded based on all the concepts introduced from Week 34 to Week 40. You will find a list of considerations you need to check before delivering this assignment.

- Elements have to be properly used (What is this element used for? Is used as it was defined according to the standards?).
- Use proper naming conventions for files (i.e., HTML, CSS, images, folders, etc.)
- Scaffold the project following a readable and well-structured hierarchy of folders.
- 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.
  - IMPORTANT: based on the mock-ups try to find out what rules can be shared among all the pages.
- When creating tables, avoid html attributes for styling purposes if there is a CSS alternative.
- Use English for writing both code and contents.
- Do not use lorem ipsum text.

Please, notice that you have to start the project from scratch (i.e., no templates, no bootstrap, no flexbox, etc.). If you need to tell something like why you decided to do something in a special way, or something else, please include it in a README.txt file, in your zip file, beside your html files.

Tips

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

- Start deciding which heroes you would like to include in your page and collect all the data.
- Analise the mock-ups and try to find out what all the elements have in common.

- ◆ Scaffold the project creating a good hierarchy structure and document (e.g. in the readme.txt file) why you decided to use that structure.
- ◆ 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

- ◆ https://developer.mozilla.org/en-US/docs/Learn/Getting_started_with_the_web/Dealing_with_files
- ◆ http://www.htmlquick.com/tutorials/organizing-website.html
- ◆ https://webstyleguide.com/wsg3/5-site-structure/3-site-file-structure.html
- ◆ https://www.w3schools.com/Tags/tag_nav.asp
- ◆ https://www.w3schools.com/html/html_css.asp
- ◆ https://www.w3schools.com/css/css_howto.asp
- ◆ https://css-tricks.com/one-two-three/
- ◆ https://cssreset.com/css-styles-inline-vs-internal-vs-external/
- ◆ https://www.toptal.com/css/css-cheat-sheet
- ◆ https://www.themelocation.com/best-html5-practices/
- ◆ https://moz.com/blog/seo-meta-tags
- ◆ https://cssauthor.com/creative-resume-design-inspiration/
- ◆ https://www.w3schools.com/cssref/css3_pr_background-size.asp
- ◆ https://www.w3schools.com/w3css/w3css_tables.asp
- ◆ https://www.w3schools.com/html/html_tables.asp
- ◆ https://www.w3.org/Style/Examples/007/evenodd.en.html
- ◆ https://www.w3schools.com/cssref/sel_firstchild.asp
- ◆ https://www.w3schools.com/cssref/sel_last-child.asp
- ◆ https://www.w3schools.com/cssref/sel_last-child.asp
- ◆ https://ilovecoding.org/lessons/table-all-about-creating-simple-to-complex-html-tables

Please, read carefully all the resources and notice that some of the articles falls into the field of subjective which means that there is no an absolute true and you need to reflect on what you are doing. The most important thing is to be consistent. For example, if you "indent" your code using 4 spaces, that is the indentation that you should use in all of your files, etc.

Deliverables

The deadline is on Blackboard. The assignment will also be delivered through *blackboard*. Further instructions will be also published there. The delivery consists in two parts:

- ♦ The zip file, containing the complete website, uploaded to *blackboard*.
  - o The zip file must me named as "studentcode-c2-imt1292-2018" (for example, if your student code is 1357246 then the name of the zip file must be "1357246- c2-imt1292-2018".
  - o The zip will contain the whole project (i.e.: html pages, folders, assets, images, etc.).
  - o 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.
  - o 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!