

LAB 5 (WEEK 39)

[Images](#)

[CSS](#)

Table of Contents

Goal of the day	3
Exercise 1	4
Exercise 2	5
Exercise 3	6
Exercise 4	7
Exercise 5	8

Goal of the day

This week we will focus on the different CSS properties learned so far, specially the ones used for aligning elements and including images.

The goals are divided in the following categories:

- Align texts and images
- Dimensioning the boxes and controlling the size of the elements
- Work with the box model (margins and paddings)
- Work with background images and gradients
- Use different CSS selectors
- Use the “`:hover`” pseudo-class

You can find some useful readings/resources below as well as in Blackboard.

- https://www.w3schools.com/css/css_padding.asp
- https://www.w3schools.com/cssref/pr_text_text-transform.asp
- https://www.w3schools.com/cssref/pr_text_text-align.asp
- https://www.w3schools.com/cssref/css3_pr_background-size.asp
- https://www.w3schools.com/cssref/pr_class_display.asp
- https://www.w3schools.com/cssref/sel_hover.asp
- https://www.w3schools.com/cssref/css3_pr_box-shadow.asp
- https://www.w3schools.com/css/css3_gradients.asp

The structure of the html-template.html is as follows:



Exercise 1

Clone the file “html-template.html” and rename it to “ex1.html”.

- Add a 5% top and bottom padding to the whole page.
- Add a 20% right and left padding to the whole page.
- All the **headings** should be displayed using capital letters (css).

PLANTING GUIDE

MAGNOLIA



Magnolia grandiflora, commonly known as the **Southern magnolia** or **bull bay**, is a tree of the family Magnoliaceae native to the southeastern United States, from coastal Virginia south to central Florida, and west to eastern Texas and Oklahoma. Reaching 27.5 m (90 ft) in height, it is a large striking evergreen tree with large dark green leaves and large white fragrant flowers. Widely cultivated around the world, over a hundred cultivars have been bred and marketed commercially. The timber is hard and heavy, and has been used commercially to make furniture, pallets, and veneer.

RANUNCULUS



Exercise 2

Clone the file “ex1.html” and rename it to “ex2.html”.

- Headings inside plant-box(es) should be aligned to the right.
- Contents (e.g: text and images) inside plant-box(es) should be displayed centered.
- Be careful, images can not exceed the limits of the box in which they are contained (i.e: plant-box).
- Add a box-shadow to all plant boxes. Use, for example, this values:
 - Horizontal offset, vertical offset, blur Distance: 5px.
 - Spread of Shadow: 4px.
 - Color: #777777.
- Add an internal space inside the plant boxes so that their contents do not touch the edges of the box (e.g: 5%).
- Add a 20px to separate boxes.

PLANTING GUIDE

MAGNOLIA



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RANUNCULUS



Exercise 3

Clone the file “ex2.html” and rename it to “ex3.html”.

- Use “assets/pattern.png” as a background of the whole page.
- The background must remain at the same position even when you scroll the page.
- Plant boxes must have a linear gradient background from color “#F7FFF5” to color “#C2E7CD”.
- Use “assets/grass.png” as a background of the h1 element. Take into account that “grass.png” is a large image and you should use the “background-size” property so that the width of the image occupies 100% of space and the height only takes 36px.

The image shows a web page with a light gray diamond-patterned background. At the top, a green horizontal bar contains the text "PLANTING GUIDE" in white, with a grass texture graphic at the bottom. Below this, there are two rectangular cards. The first card, titled "MAGNOLIA" in bold black text, features a close-up photograph of pink magnolia flowers. Below the photo, a paragraph of text describes the Magnolia grandiflora. The second card, titled "RANUNCULUS" in bold black text, has a small yellow flower image at the top and a brown textured bar below it. The overall design uses a light green color scheme for the cards.

PLANTING GUIDE

MAGNOLIA

A close-up photograph of several pink magnolia flowers, showing their distinct petal structure and stamens.

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RANUNCULUS

Exercise 4

Clone the file “ex3.html” and rename it to “ex4.html”.

- Change the box-shadow when the user moves the mouse over the plant-box.
 - Horizontal offset, vertical offset: 10px.
 - Blur distance: 5px.
 - Spread of Shadow: 2px.
 - Color: #af9e9e.
- Change the linear gradient background of plant-boxes when the user moves the mouse over the box. Use these colours: #f1ebef, #e1cfef.
- Images inside plant boxes will not be displayed until the user moves the mouse over the plant-box.
- The text inside plant-box (<p>) will not be displayed when the mouse is over the box.
- h2 inside plant-box will be displayed centered when the mouse is over the box.

PLANTING GUIDE

MAGNOLIA



RANUNCULUS

Ranunculus asiaticus (*Persian Buttercup*) is a species of buttercup (*Ranunculus*) native to the eastern Mediterranean region in southwestern Asia, southeastern Europe (Crete, Karpathos and Rhodes), and northeastern Africa. It is a herbaceous perennial plant growing to 45 cm tall, with simple or branched stems. The basal leaves are three-lobed, with leaves higher on the stems more deeply divided; like the stems, they are downy or hairy. The flowers are 3-5 cm diameter, variably red to pink, yellow, or white, with one to several flowers on each stem.

Exercise 5

- Change the page to use external CSS files instead of internal style sheet
- Replace all the “*i*” and “**b**” elements with “” tags and use classes to style those elements.