Web Design: HOWTO

UDACITY: Intro to HTML and CSS

https://www.udacity.com/course/intro-to-html-and-css--ud304

Intro to Course

- Lesson 1
  HTML, CSS, and Boxes
- Lesson 2
  CSS Framework. Responsive Layout
- Lesson 3
  Bootstrap

Lesson 1. HTML, CSS, and Boxes

How to look a basic design mockup and translate it to HTML and CSS to create a basic web page

The First Step

https://www.youtube.com/watch?v=xIOeccZZ-5g

- **Objective**: image or PDF → website
- **Role**: Front-End developer
- **Technologies**:
  - HTML → structure
  - CSS → style
  - JS → interactive components

Exploring the Web

https://www.youtube.com/watch?v=_e-gGAM4noQ

- *Navigator → Menu → Developer Tools*
- Where is...
  - HTML code
  - CSS code
- How to select (rectangular) elements.
- How to navigate deeper and deeper *(**Element** window)*

Resource → https://en.wikipedia.org/wiki/Main_Page

Quiz solution → https://www.youtube.com/watch?v=yeRiFE2sRyc

Ejercicio 1

- *Indica cómo acceder a las herramientas de desarrollador en los navegadores Google Chrome y Firefox.*
- *Localiza el icono* *y explica cuál es su utilidad.*
- *Resuelve la cuestión que se plantea al final de la sección...**Exploring the Web: observando la estructura de la web...***
  - ***¿Todos los elementos son visibles?***
  - ***¿Todos los elementos son rectángulos?***
  - ***¿Puedes leer el mismo texto que en la web?***
- *Voluntario: Explica las posibilidades (ventanas y opciones) de las herramientas de desarrollador.*

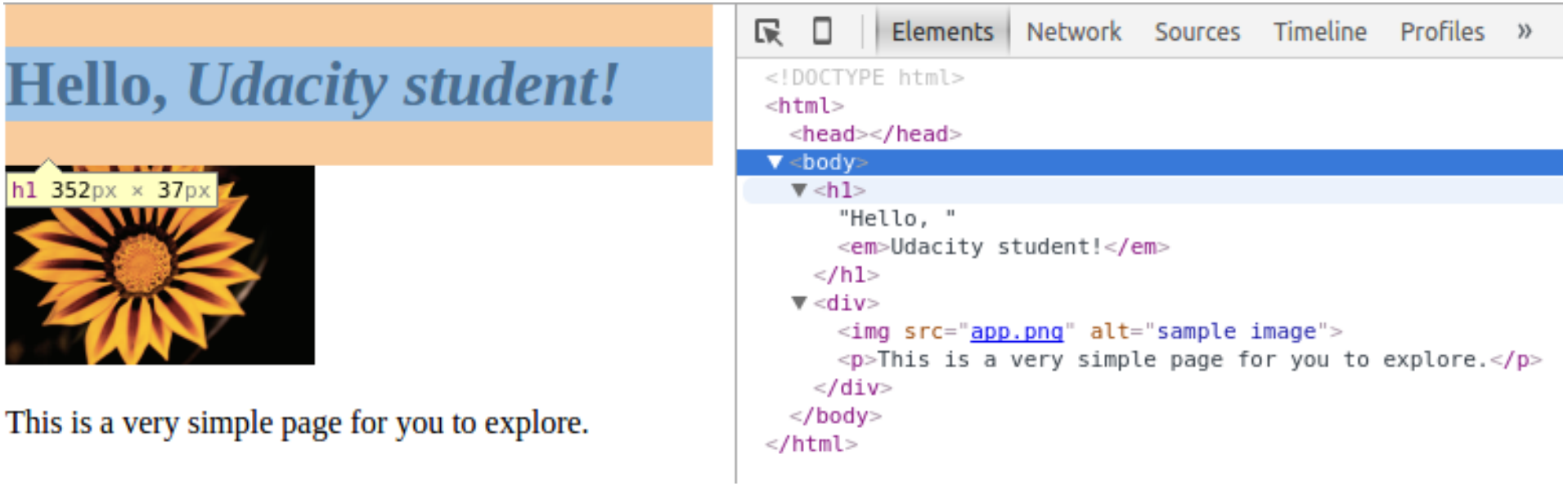
Page Structure

https://www.youtube.com/watch?v=y5NbZSvn5N8

Page structure → Tree structure

Resource →
http://assignments.udacity-extras.appspot.com/courses/html-css/samples/explore.html

Page Structure



Ejercicio 2

Utiliza las herramientas de desarrollador para resolver la cuestión que se plantea al final de la sección...

Page Structure: realizar una captura de todos los elementos desplegados.

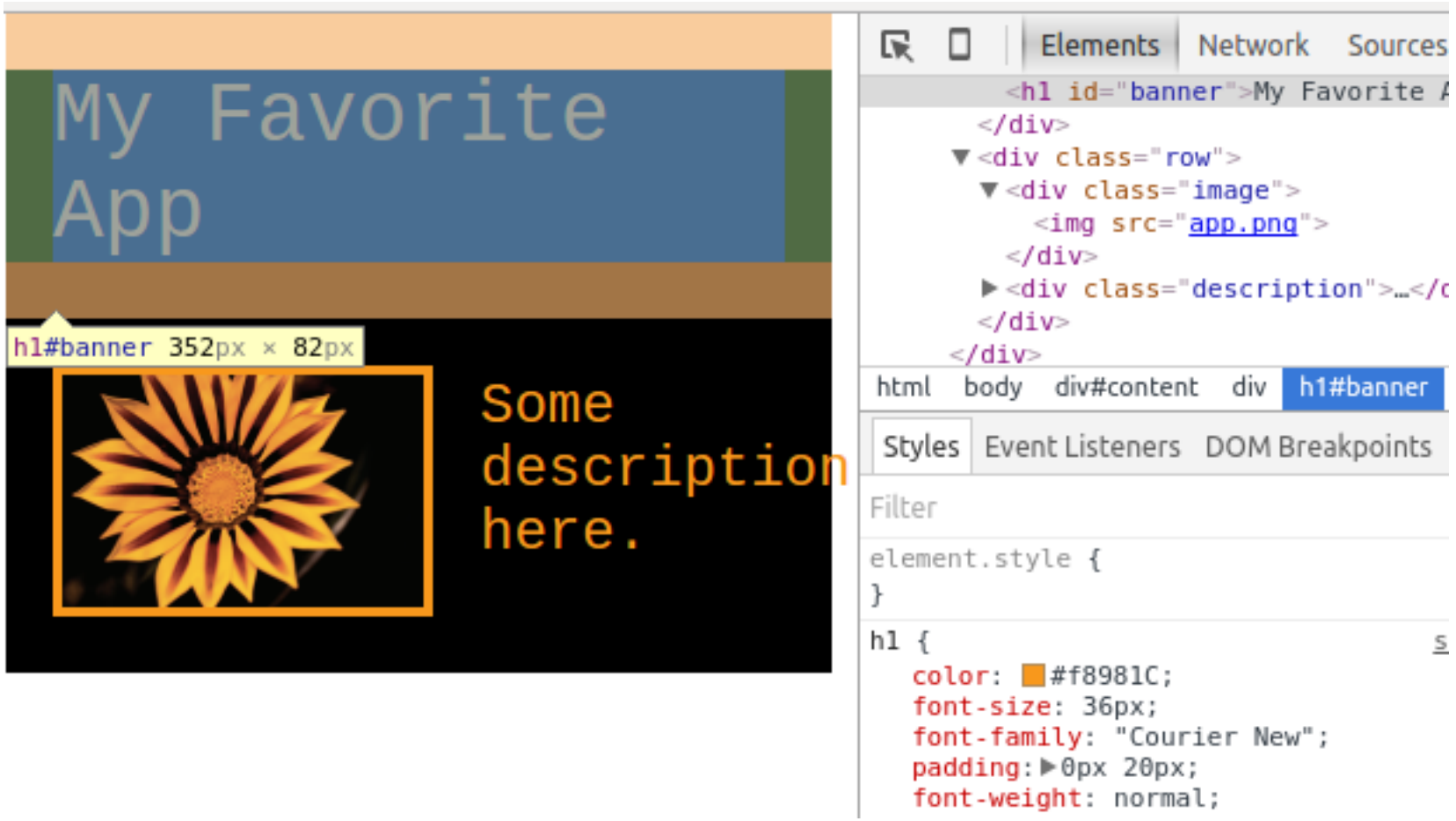
Visual Styling

https://www.youtube.com/watch?v=DWebPI5kqvo

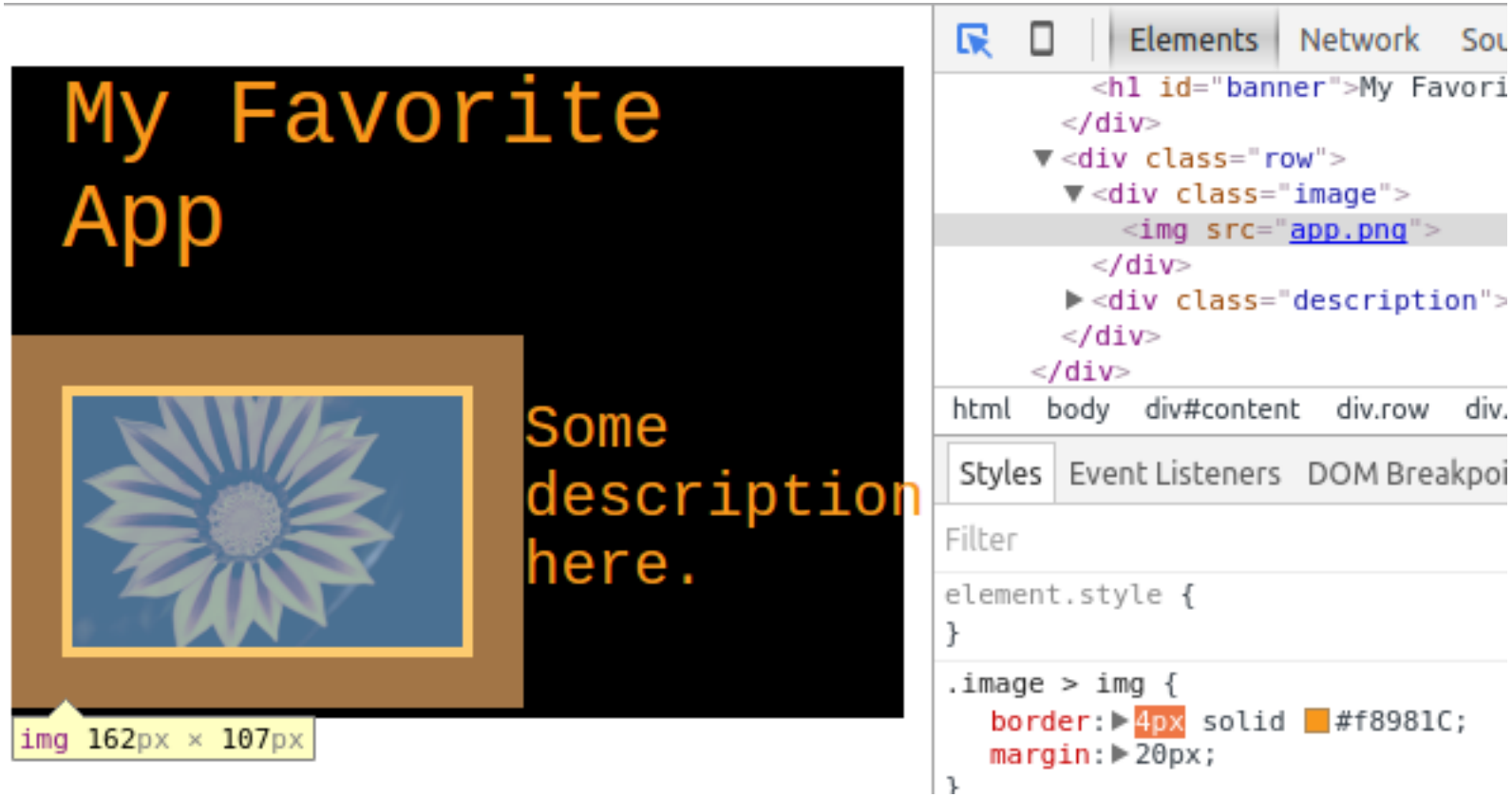
- *Step 1: click icon → select an element*
- *Step 2: select an element*
- *Step 3: check style data*

http://assignments.udacity-extras.appspot.com/courses/html-css/samples/style-2.html

Visual Styling



Visual Styling



Ejercicio 3

Utiliza las herramientas de desarrollador para resolver la cuestión que se plantea al final de la sección...

***Visual Styling**:*

- *¿Valor de “font-size” para “h1”?*
- *¿Valor de “border-width” para la imagen?*

Boxes Everywhere

https://www.youtube.com/watch?v=_optftESD0M

Every element is a box, even the non-rectangular images!!!

http://assignments.udacity-extras.appspot.com/courses/html-css/samples/shapes.html

Ejercicio 4

Utiliza las herramientas de desarrollador para resolver la cuestión que se plantea al final de la sección...

Boxes Everywhere: ¿Qué ocurre cuando desmarcamos la propiedad "border-radius".

Boxifying Design

https://www.youtube.com/watch?v=O3SuZAomNWk

JANE DOETTE

FRONT-END NINJA

Featured Work

APPIFY

https://github.com/udacity/Appify/

SUNFLOWER

https://github.com/udacity/Sunflower/

BOKEH

https://github.com/udacity/Bokeh/

Ejercicio 5

Utiliza las herramientas de desarrollador para resolver la cuestión que se plantea al final de la sección...

Boxifying Design:

- *¿Cómo hacer el “boxifying”?*
- *¿Cuántas “boxes” hay en el diseño de la diapositiva anterior?*

Interview with Jacques

https://www.youtube.com/watch?v=Nj5RCaE_b00

*Jacques (**a front-end developer**) advice's:*

- *Start with the big boxes and split them going from BIG to SMALL*
- *If you have any problem... just go for a pencil*

Boxes To HTML

https://www.youtube.com/watch?v=JsH_eSZGhyg

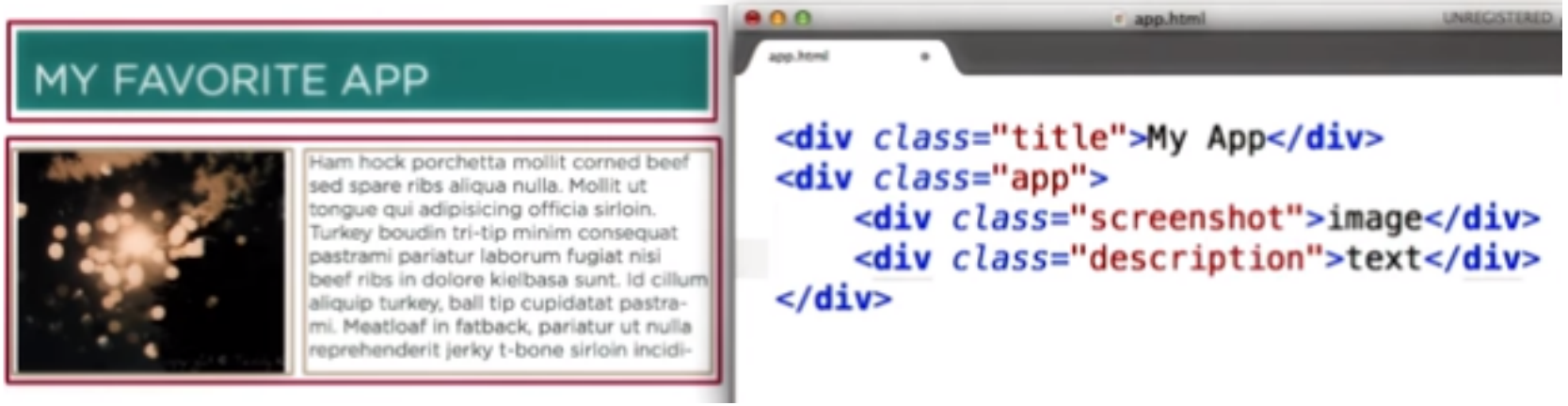
MY FAVORITE APP

Ham hock porchetta mollit corned beef sed spare ribs aliqua nulla. Mollit ut tongue qui adipisicing officia sirloin. Turkey boudin tri-tip minim consequat pastrami pariatur laborum fugiat nisi beef ribs in dolore kielbasa sunt. Id cillum aliquip turkey, ball tip cupidatat pastrami. Meatloaf in fatback, pariatur ut nulla reprehenderit jerky t-bone sirloin incidi-

Boxes To HTML

Sublime Text is the recommended code editor - it's free to use!

- *Step 1: boxifying*
- *Step 2: define each **box** with a ** tag***
- *Step 3: define **labels** as **class attributes***



Creating the Files

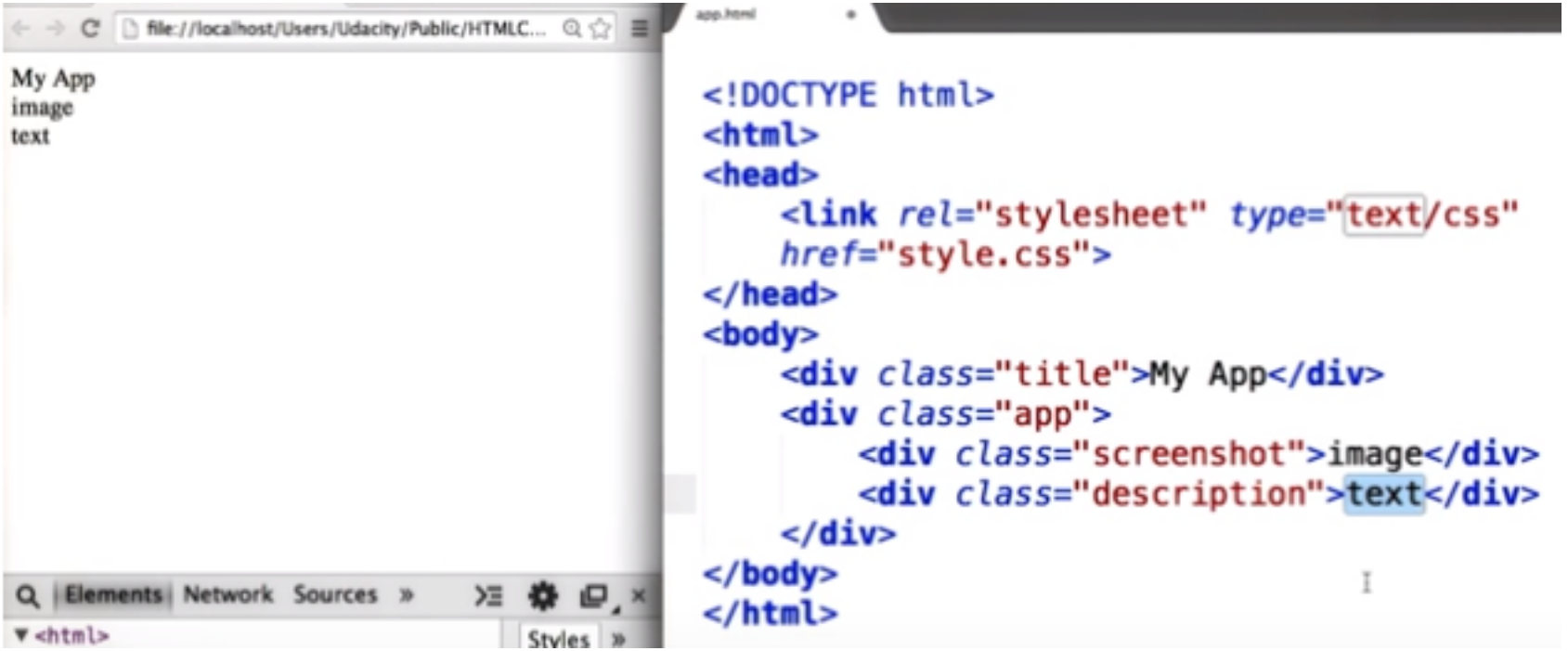
Create Folder and File Structure

- Create a folder for all your future web projects somewhere convenient, for example on your Desktop or in your Documents folder and call the folder “portfolio”.
- Create another folder inside it for this first page, call it “toplist”.
- Create 2 files there - `index.html` and `style.css`.
- The structure should look like this:

    - Desktop
        - portfolio
            - toplist
                - index.html
                - style.css

Adding Style

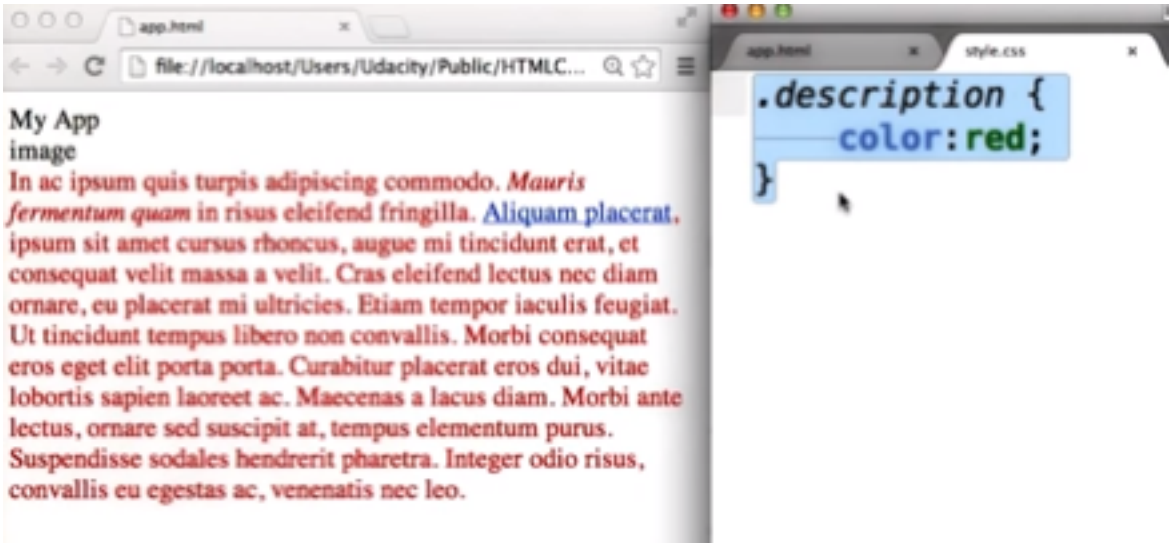
https://www.youtube.com/watch?v=WkbHHwRgEM0



Adding Style

```
<!DOCTYPE html>
<html>
<head>
    <title>Favourite App</title>
    <link rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
    <h1 class="title">My App</h1>
    <div class="app">
        <div class="screenshot">image</div>
        <div class="description">
        In ac ipsum quis turpis adipiscing commodo. <em>Mauris fermentum quam</em> in
        risus eleifend fringilla. <a href="#">Aliquam placerat</a>, ipsum sit amet
        cursus rhoncus, augue mi tincidunt erat, et consequat velit massa a velit.
        Cras eleifend lectus nec diam ornare, eu placerat mi ultricies. Etiam tempor
        iaculis feugiat. Ut tincidunt tempus libero non convallis. Morbi consequat
        eros eget elit porta porta. Curabitur placerat eros dui, vitae lobortis
        sapien laoreet ac. Maecenas a lacus diam. Morbi ante lectus, ornare sed
        suscipit at, tempus elementum purus. Suspendisse sodales hendrerit pharetra.
        Integer odio risus, convallis eu egestas ac, venenatis nec leo.
        </div>
    </div>
</body>
</html>
```

Adding Style



Understanding CSS

https://www.youtube.com/watch?v=oaitg9nRqvc

Cascading means that...

The MOST specific rule is applied to every element!!!

Styling Up

https://www.youtube.com/watch?v=EsBmDg_edGQ

- *Very nice article on CSS selectors*
- *CSS Documentation*

Ejercicio 6

*Cuestión planteada al final de la sección **Styling Up** sobre CSS Documentation...*

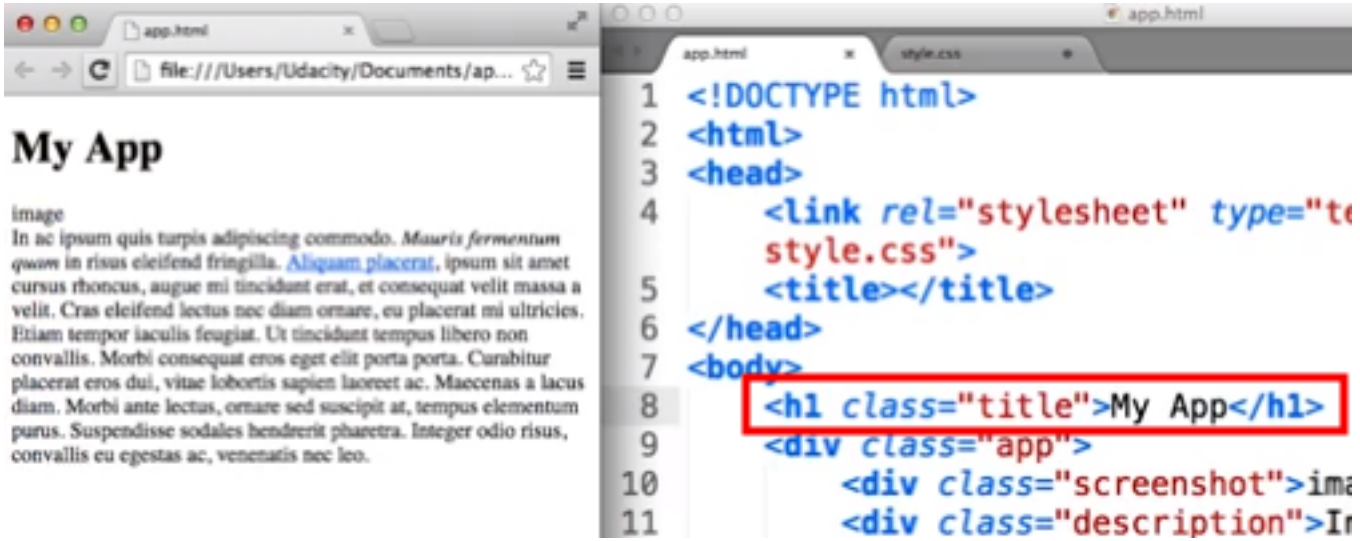
- *¿Cuál de los siguientes valores puede adoptar la propiedad font-style?*
  - *italic*
  - *normal*
  - *bold*
  - *standard*
- *¿Qué propiedad utilizarías para que el texto se muestre “bold”?*

Using Semantic Tags

https://www.youtube.com/watch?v=QXKKWQXXYLo

*Change ** tag** for **Semantic tags***

*Ex. : change ** ** for **<h1>***

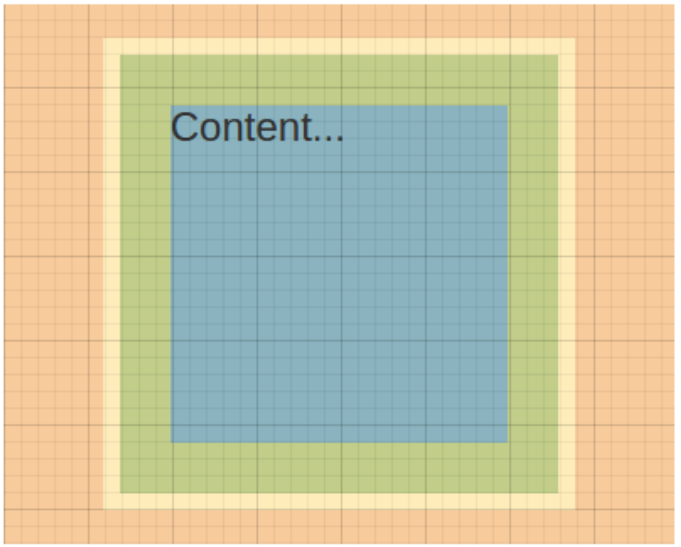


The Box Revisited

https://www.youtube.com/watch?v=jlp8uLzt16E

link to → box model demo

The Box Model



Colors:

- *margin*
- *border*
- *padding*
- *content*

Grid

The grid is displayed purely for visual reasons.

Light lines are every 10px, dark - 50px

Dev Tools

- Right click inside the blue "Content" box and select "Inspect Element".
- Play with CSS for the #demo in "Styles" tab on the right side.
- Look at the "Computed" tab on the right side.

The Box Revisited

- *Element size = border + padding + content*
  (Ex. model: element size = 10 + 30 + 200 + 30 + 10 = 280 pixels)
- *Element size property → box-sizing: border-box;*
- *Max size property → max-width (px or %)*
- *Browser specific prefixes*

  -webkit-box-sizing: border-box;
  -moz-box-sizing: border-box;
  -ms-box-sizing: border-box;

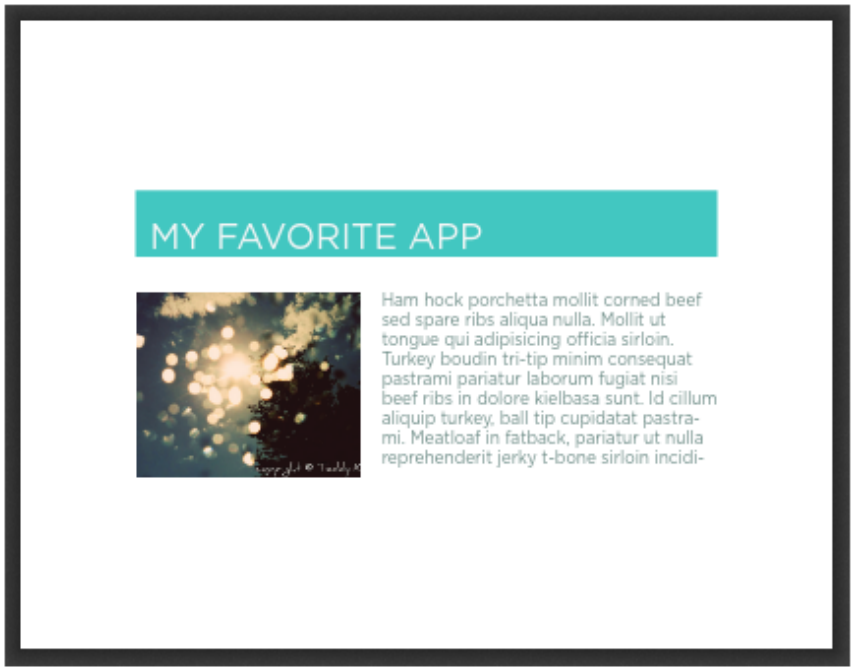
The Box Revisited

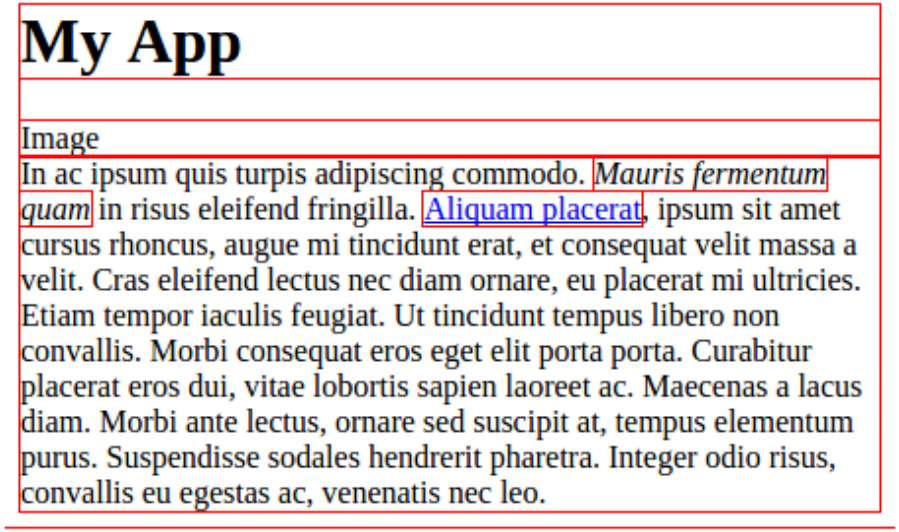
style.css × index.htm ×

```
1   * {
2       outline: 1px solid red;
3   }
4   * {
5       -webkit-box-sizing: border-box;
6       -moz-box-sizing: border-box;
7       -ms-box-sizing: border-box;
8       box-sizing: border-box;
9   }
10
11  .screenshot {
12      max-width: 460px
13  }
14  .description {
15      max-width: 705px
16  }
```

Positioning Boxes

https://www.youtube.com/watch?v=sv2rVjnYfGQ





Positioning Boxes

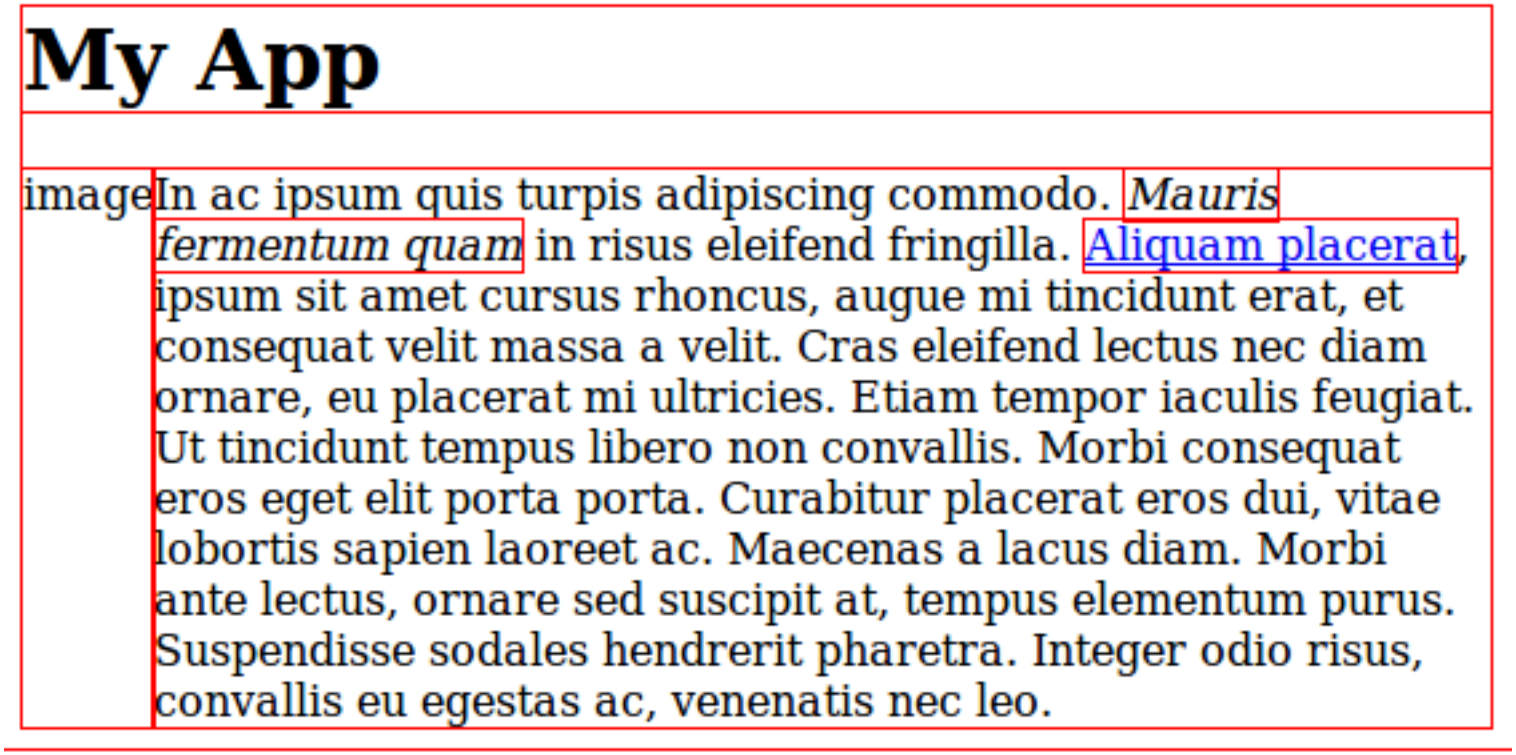
*How to use **flex box layout**...*

*...if you want several elements to be next to each other (Ex.: snapshot and description) you can change the **display attribute** of the parent directory (Ex.: app) to **value flex***

This rule as-is works with Chrome 29+, IE 11+, and Mozilla 28+. In order to support Safari, the `-webkit-` prefix must be added:

```
.app {
    display: -webkit-flex;
    display: flex;
}
```

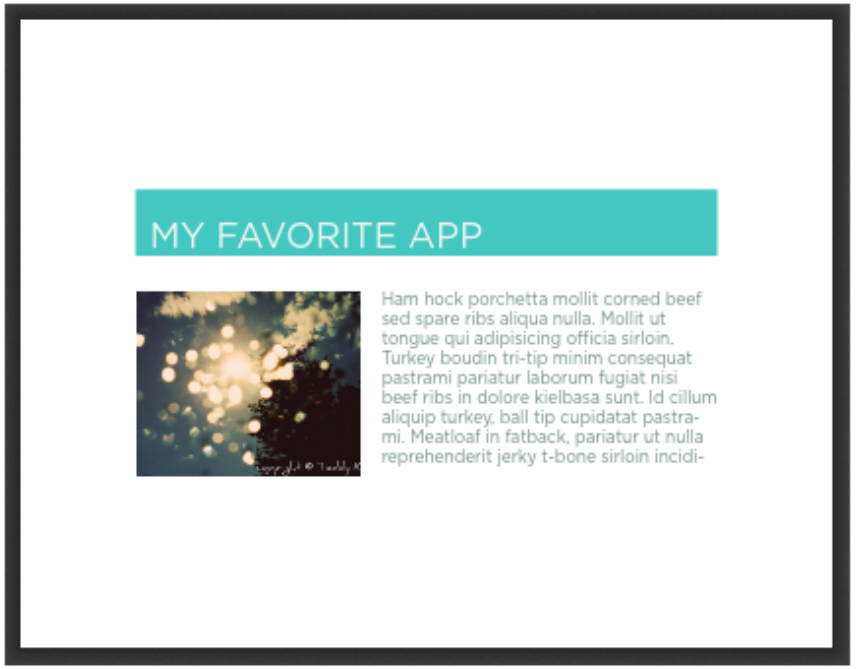
Positioning Boxes

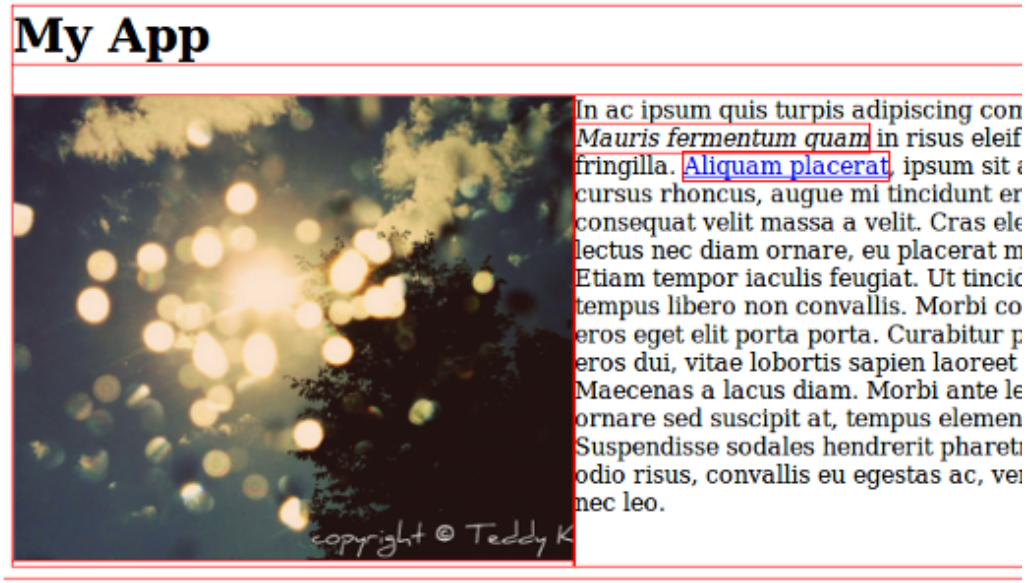


Adding Image

https://www.youtube.com/watch?v=qifSYo3AUu8

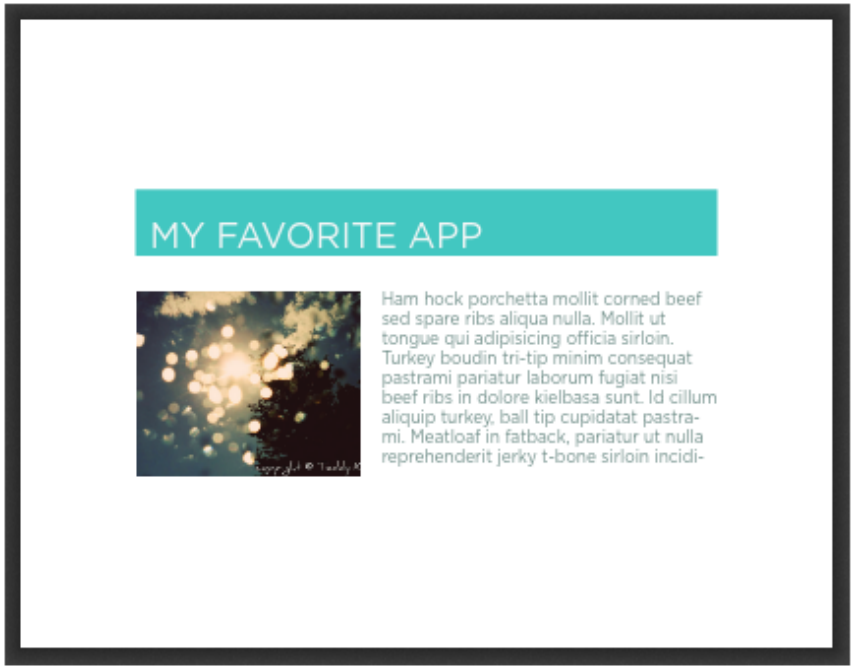
*How to **add an image**... (visto en diapositivas de HTML5)*

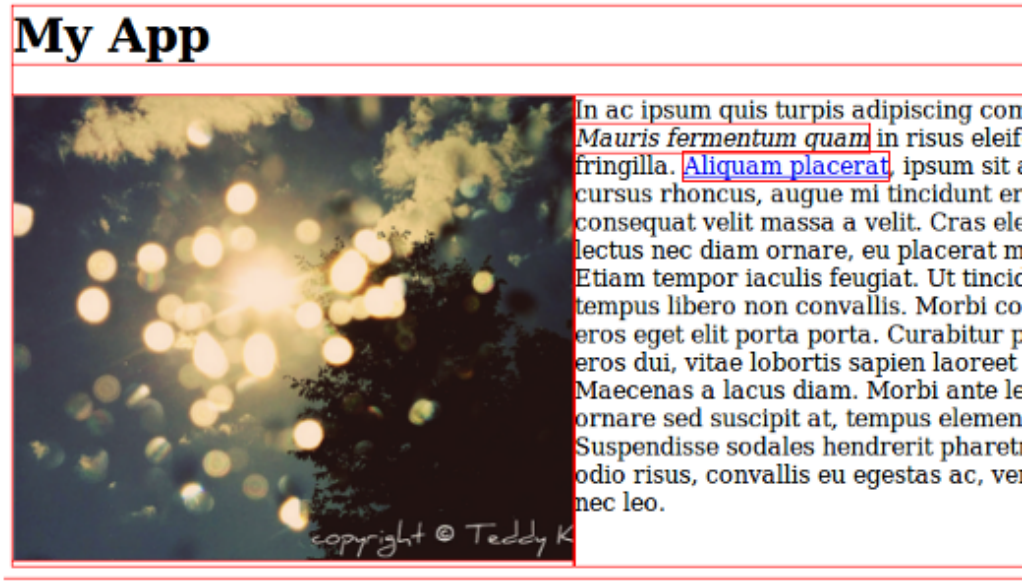




Adding Image

*How to **add an image**... (visto en diapositivas de HTML5)*





Code, Test, Refine

https://www.youtube.com/watch?v=k_wmXN5V1_c

Pattern:

code *(Sublime Text)* → ***test*** *(Navigator)* → ***refine*** *(Start coding again)*

- *Step 1:* ***Boxifying*** *(divide and conquer)*
- *Step 2:* ***Semantic elements*** *(headers, content, footers...)*
- *Step 3: Write* ***HTML*** *code*
- *Step 4: Write* ***CSS*** *styles (from site-wide elements to widgets)*
- *Step 5:* ***fix*** *things (repeat steps 3, 4, and 5 until you think it's OK)*

More on DevTools & Compating with the Design

https://www.youtube.com/watch?v=gPL4vywt8XM

https://www.youtube.com/watch?v=Rxs_X2AUlLg

Ejercicio 7

Realiza los últimos ajustes (márgenes y colores) para que tu web sea idéntica al resultado esperado.

Verifying HTML and CSS

https://www.youtube.com/watch?v=f4h2PYfAEB0

To verify HTML:

http://validator.w3.org/#validate_by_input

To verify CSS

http://jigsaw.w3.org/css-validator/#validate_by_input

Ejercicio 8

E8E8E7
8BCC98

HEADING1

Ham hock porchetta mollit corned beef sed spare ribs aliqua nulla. Mollit ut tongue qui adipisicing officia sirloin.

Turkey boudin tri-tip minim consequat pastrami pariatur laborum fugiat nisi beef ribs in dolore kielbasa sunt. Id cillum aliquip turkey, ball tip cupidatat pastrami. Meatloaf in fatback, pariatur ut nulla reprehenderit jerky t-bone sirloin incididunt shank pork belly ut. Porchetta aliquip corned beef qui eiusmod eu andouille laboris elit mollit id. Ea consectetur ad eiusmod ex eu jowl ut pork belly enim.v

HEADING1

Ham hock porchetta mollit corned beef sed spare ribs aliqua nulla. Mollit ut tongue qui adipisicing officia sirloin.

Turkey boudin tri-tip minim consequat pastrami pariatur laborum fugiat nisi beef ribs in dolore kielbasa sunt. Id cillum aliquip turkey, ball tip cupidatat pastrami. Meatloaf in fatback, pariatur ut nulla reprehenderit jerky t-bone sirloin incididunt shank pork belly ut. Porchetta aliquip co

Ejercicio 9

F8981C
BCBBBB
747704

JANE DOETTE

FRONT-END NINJA

Featured Work

APPIFY

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SUNFLOWER

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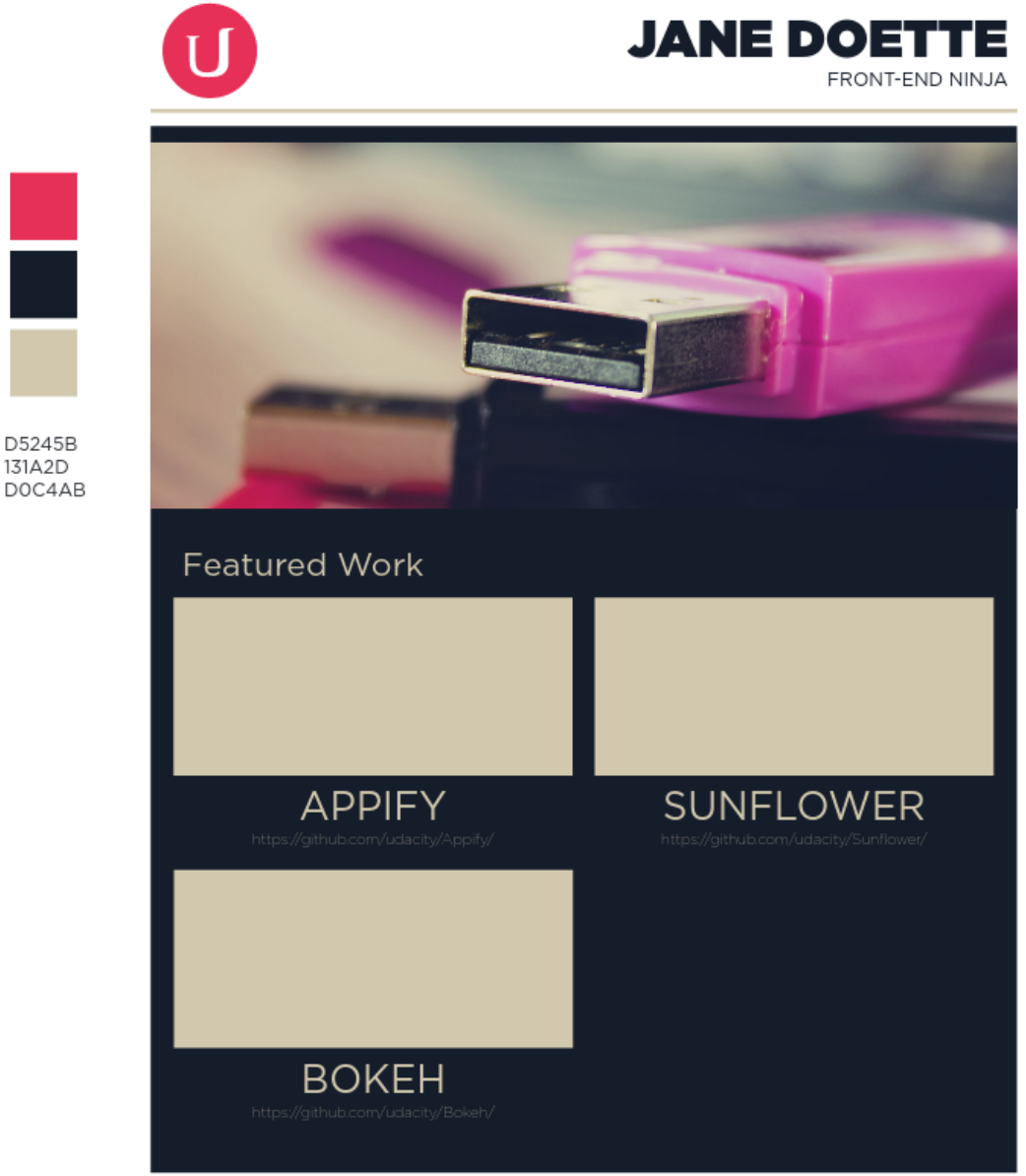
BOKEH

https://github.com/udacity/Bokeh/

Ejercicio 10