

# 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

# Previously on... *Leson 1*

*Step 1* → ***Boxifying***

*Step 2* → Change ***box*** for ***<div>***

*Step 3* → *Red border & important! (to check)*

*Step 4* → ***Code–test–refine***

# Lesson 2. CSS Framework. Responsive Layout

[https://www.youtube.com/watch?v=w0bGCOB\\_9x4](https://www.youtube.com/watch?v=w0bGCOB_9x4)

**How to** develop a CSS framework  
which help you make websites much  
faster and easier.

# Grid Based Design

<https://www.youtube.com/watch?v=5a1nuXcTCzQ>

Websites follow a **GRID BASED** layout



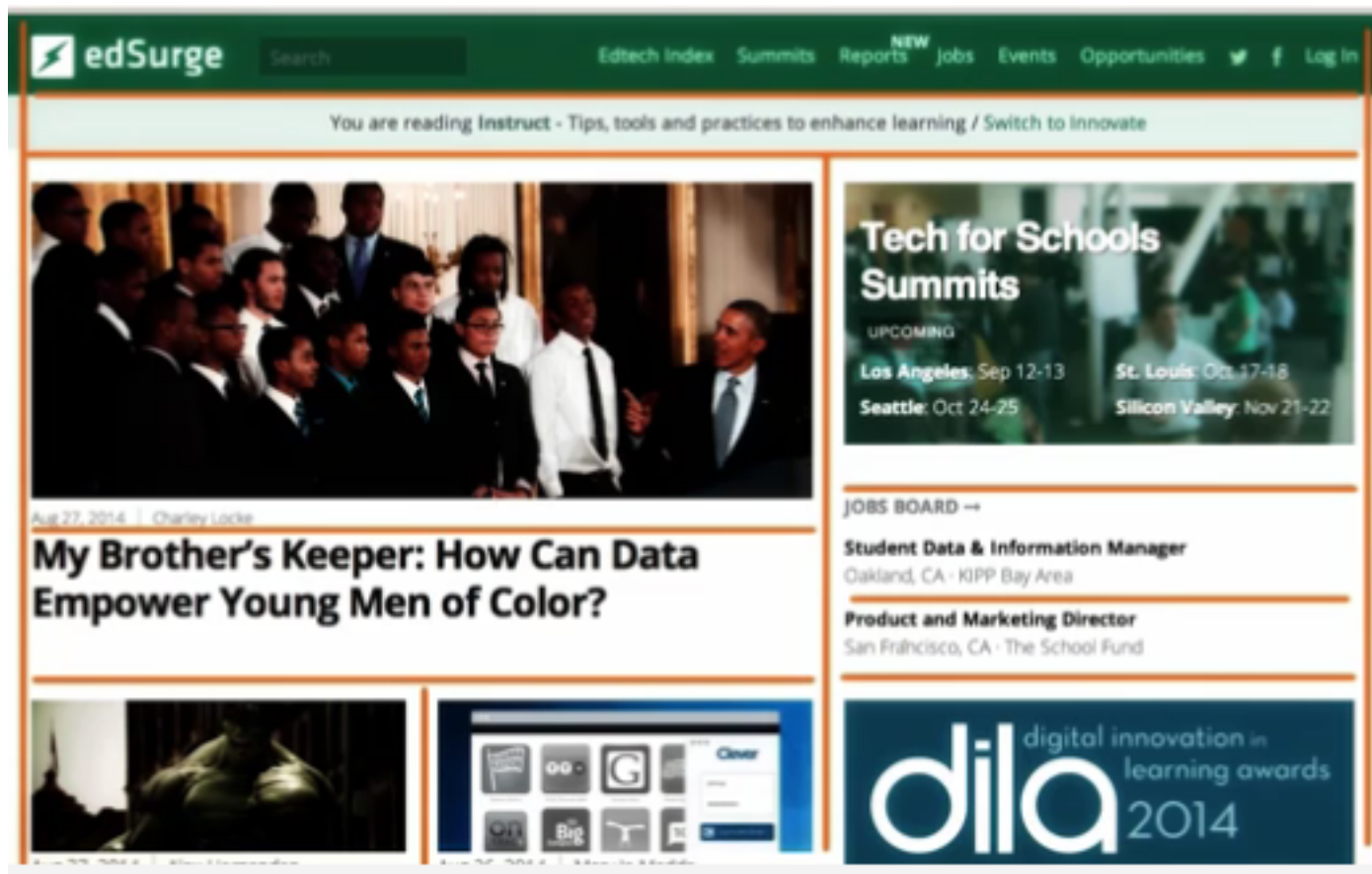
# Grid Based Design

Websites follow a GRID BASED layout



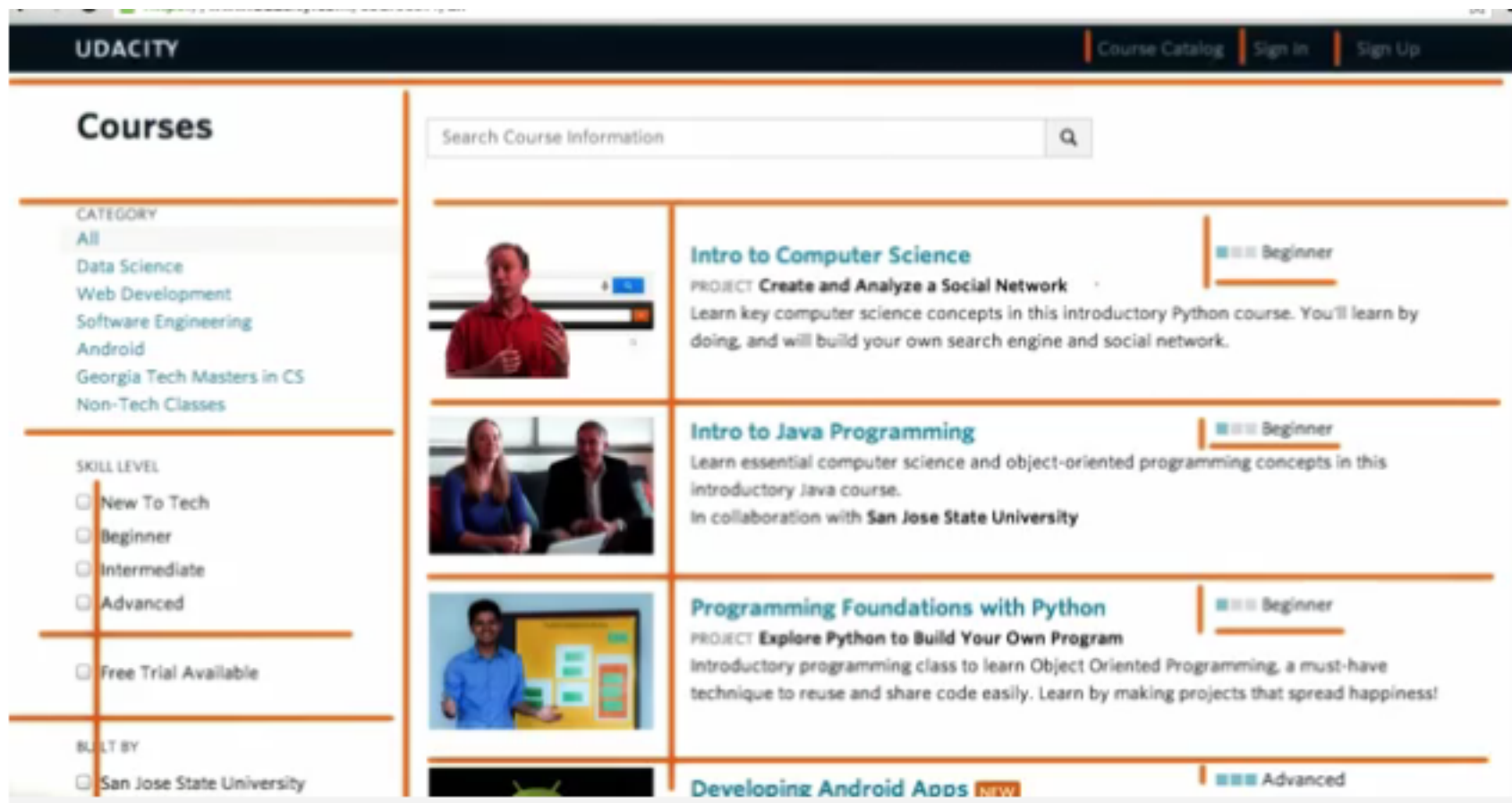
# Grid Based Design

Websites follow a **GRID BASED** layout



# Grid Based Design

Websites follow a **GRID BASED** layout





# Building a Framework

[https://www.youtube.com/watch?v=OpiR\\_euUy8A](https://www.youtube.com/watch?v=OpiR_euUy8A)

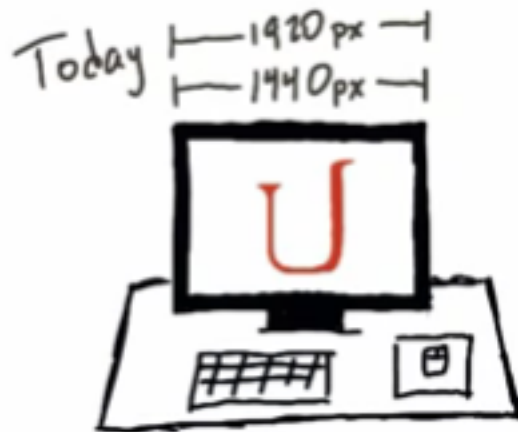
There is a **pattern** → almost every website follow some type of **GRID** structure → generated by CSS → that control columns, boxes, wide and position and etc. → to make this we can create...:

- **HTML & CSS individually** for each element or...
- **A Framework**: collection of CSS classes that make page layout easy to implement (best practice today)

# Responsive Web Pages

<https://www.youtube.com/watch?v=NVYspWwBT7M>

**Adaptive design** (pixels): change the layout in order to make it easier to use...



• Almost the same resolution as desktop



Previously

1024px

1200px

Max-width:

960px



• Resolution is similar to a small laptop

• Two orientations

• Thumbs!



• Hundreds of pixels wide

• Two orientations

• Thumbs!

# Responsive Web Pages

Adaptive design (pixels) → **responsive design**:  
to change the size of the page to fit...

Ex.: *reddit website*

- Left side → responsive
- Right side → non-responsive

# Defining the Layout

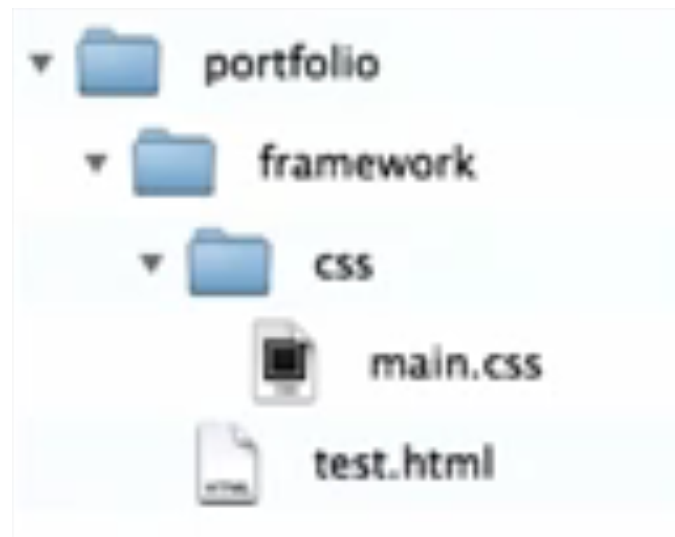
[https://www.youtube.com/watch?v=H0LX1roG\\_r0](https://www.youtube.com/watch?v=H0LX1roG_r0)

**Objective:** build a **grid system** that...

- ...give us the flexibility to make **any column design** (*12 columns*)
- ...implements **responsive design** using CSS (*changing fixed pixels size for percentages to define the columns wide*)

# Creating the Project

<https://www.youtube.com/watch?v=pyiQD2wZ07g>



# From Idea to Code

[https://www.youtube.com/watch?v=\\_mvCVzU2jxk](https://www.youtube.com/watch?v=_mvCVzU2jxk)

Which classes should you create?

- **.row** of 100% page width
- **columns** of 1/12 – 12/12 page width  
(*1/12=8,33%; 2/12=16,66%; ...; 12/12=100%*)

# Framework version 01

<https://www.youtube.com/watch?v=oEz3s8JKjYI>

## CSS file

- red border with **!important** and box-sizing (test)
- classes (.row and .col-1 to .col-12)
- **The** CSS code is the same that Cameron was describing, with one little addition - a **class grid** for an outer div that will contain all your other divs. The purpose of it is to limit the max-width of the page and center content in case your user is looking at the page on a very large screen. Centering is done by defining "margin: 0 auto" (auto margin horizontally).

# Ejercicio 1

*Descarga el archivo **main.css** y añade las clases de tu Framework:*

- *.row*
- *.col-1 to .col-12*

```
.row {  
  width: 100%;  
}  
  
.col-1 {  
  width: 8.33%;  
}
```



# Ejercicio 2

*Descarga el archivo **test.htm** y reproduce el siguiente diseño utilizando las clases definidas en el ejercicio anterior:*

2 Columns	10 Columns	
3 Columns	9 Columns	
4 Columns	4 Columns	4 Columns
3 Columns	6 Columns	3 Columns

# Negative Space

[https://www.youtube.com/watch?v=hJLpIkxh\\_60](https://www.youtube.com/watch?v=hJLpIkxh_60)

## Adding negative space...

- **padding** (*negative space inside the element*)
- **margin** (*negative space outside the element*)
- **Box model** helps you to check negative space!

# Overflows

<https://www.youtube.com/watch?v=BKW9le5CDgs>

Scroll → overflow: auto

# Ejercicio 3

- *Añade el texto a las columnas que consideres...*

*Bacon ipsum dolor sit amet pastrami ribeye sausage, sirloin short ribs pork belly strip steak tenderloin boudin. Landjaeger beef ham hock, doner bacon pork belly filet mignon tenderloin short loin beef ribs tongue. Bresaola salami short ribs venison, pastrami jerky landjaeger. Hamburger meatball cow pork loin ham. Sirloin tail venison jerky kevin. Turducken ribeye sirloin fatback tenderloin short loin. Boudin sirloin tail venison filet mignon rump leberkas landjaeger bacon shank beef ribs ground round. Tail boudin landjaeger rump, chuck shankle leberkas pork belly pork tongue brisket short ribs ground round. Strip steak jowl pork loin beef ribs, ribeye tail spare ribs rump*

- **Añade *negative space* y *scroll* para controlar el *overflow* a tu diseño**

# Media Specific CSS

<https://www.youtube.com/watch?v=1CtCwq5U4ml>

Media Queries: Change CSS properties depending on device, screen size and color

```
@media only screen and (max-width: 300px) {  
  p {  
    background-color: blue;  
  }  
}
```

```
@media only screen and (max-width: 500px) {  
  p {  
    display: none;  
  }  
}
```

# CSS Resetting

<https://www.youtube.com/watch?v=VNr1zneQerw>

Search for... → Normalize css

```
<head>  
  <link rel="stylesheet" src="//normalize-css.googlecode.com/svn/trunk/  
    normalize.css">  
</head>
```

# Tuning the Page

<https://www.youtube.com/watch?v=IFqcr0Z9r3Y>

Usefull fake images:

*<http://lorempixel.com/>*

*<http://placeholder.it/>*

```

```

# Continuous Improvement

<https://www.youtube.com/watch?v=btRbnnbC4ag>

**Google fonts** → [\*https://www.google.com/fonts\*](https://www.google.com/fonts)



# Ejercicio 4

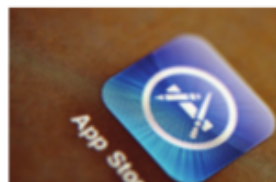
*Utiliza tu framework para realizar la siguiente web:  
(no olvides añadir **normalize.css** y algún efecto que incluya **media queries**)*



JANE DOETTE  
FRONT-END NINJA



Featured Work



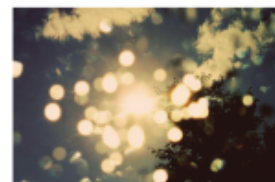
APPIFY

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



SUNFLOWER

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



BOKEH

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

# Ejercicio 5 (con tu framework)



E8E8E7  
8BCC98



## HEADING1

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

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# Ejercicio 6 (con tu framework)



**JANE DOETTE**

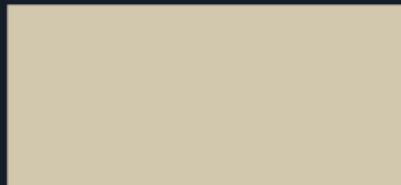
FRONT-END NINJA



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D0C4AB

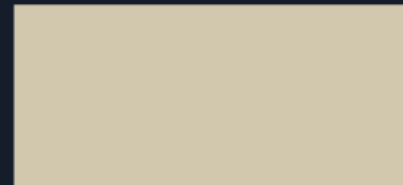


## Featured Work



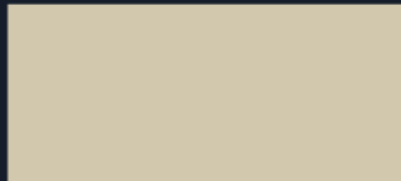
**APPIFY**

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



**SUNFLOWER**

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**BOKEH**

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