

Lesson: Bootstrap

September 17, 2018



Objective

- We have so far learnt basics of HTML and CSS, we will use Bootstrap to build responsive websites.
- For final project I expect you to use Bootstrap ,CSS, HTML along with Javascript and Python

Bootstrap

- Bootstrap is a very popular framework, enterprise use Bootstrap or extension to develop their application user interface
- Bootstrap version 4 is the latest and we will use that for today's lab
- Bootstrap can be loaded to the website in two ways-
 - CDN (Content Delivery Network)
 - Download and link the files in your HTML

Bootstrap- Advantages

- Easy to use
- Responsive features
- Browser compatibility
- Mobile friendly

Bootstrap Grid

- Grid allows 12 columns across the page

The Bootstrap grid system has four classes:

- **xs** (for phones - screens less than 768px wide)
- **sm** (for tablets - screens equal to or greater than 768px wide)
- **md** (for small laptops - screens equal to or greater than 992px wide)
- **lg** (for laptops and desktops - screens equal to or greater than 1200px wide)

Class Demo

Bootstrap Table

- We use Table HTML element in previous lab, but we had to define our own CSS
- Bootstrap gives more customized table CSS, using it can simplify the development
- Don't reinvent the wheel --(Use the tools which are available at your disposal)
- Using frameworks such as Bootstrap, simplifies development and enterprise loves it as it saves time.
- `.table-striped, .table-bordered, .table-hover`

Bootstrap Images

- We can make images responsive, and add effects using Bootstrap.
- For today's Lab we will use Bootstrap to customize the images you added in previous lab
- https://www.w3schools.com/bootstrap/bootstrap_images.asp

HTML Forms

- Forms are used to gather input from the user
- Always remember when using form use HTML element `<form>`
- Bootstrap also has customized form elements such as form-group
- Class Demo

Bootstrap Themes

- Bootstrap gives options to select themes from its gallery
- For today's lab lets use one of the theme of your choice from (https://www.w3schools.com/bootstrap/bootstrap_templates.asp)
- Again remember Don't reinvent the wheel

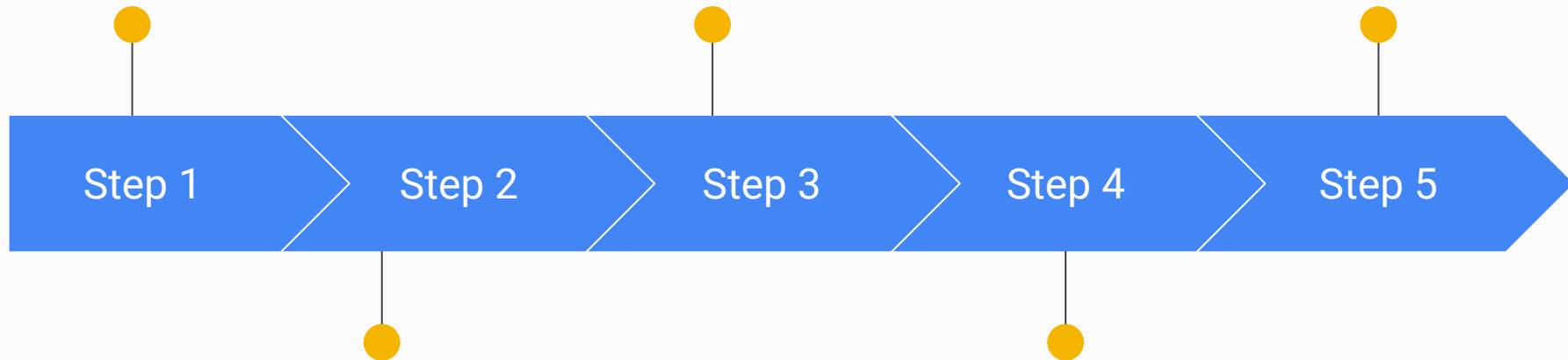
Lab 5

- Here is a chance to be creative again, I gave you the link for Bootstrap themes, choose one
- Now we will make your previous lab's web pages responsive and mobile friendly.
- This lab I expect you to use Bootstrap elements which are covered in class such as images, div tags, tables
- You are not limited to use those only, please be creative and use new Bootstrap components
- Finally push your code and write reflection about this Lab in Slack

Choose a Bootstrap theme of your choice

We know how to write HTML and CSS, let's try to use Bootstrap and avoid rework

Remember to sync your git repo and push your lab to Loki after completion



Let's make your portfolio page responsive and user friendly

Finally we add a 3rd navigation page which is contact you page, Use HTML form to gather input from user