

Dev Club

Lecture 1

The Basics

Linux Bash

Git Basics and
Versioning

Basics of HTML

Styling - CSS
and Bootstrap

Styling your HTML

Building Responsive
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Basic Javascript
(For UI)

Summary

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Getting started with Linux

Dev Club

- ▶ Looks difficult to start with but is your best friend, Very important to learn working through CLI for developers, Gives access to internal structure that GUI can't access

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- ▶ Set permission rights in CSC & GCL (CHMOD).

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- ▶ Set permission rights in CSC & GCL (CHMOD).
- ▶ Sudo (is GOD!!!), Install an app -> `sudo apt-get install git`, Reach CSC from your rooms -> `ssh cs517xxxx@ssh1.iitd.ac.in`

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- ▶ Proxy Settings for terminal.
VM an option to try but not a permanent alternate.

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VM an option to try but not a permanent alternate.
- ▶ Short Task. Try to make use of terminals on the CSC systems (ubuntu). Search for commands that you dont know.

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Summary

Contributing and Collaborating

- ▶ Make a GitHub account.

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Contributing and Collaborating

- ▶ Make a GitHub account.
- ▶ Certain basic commands - git clone, push, pull, reset, merge (Explore more while working..)

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- ▶ Version control, managing merge conflicts, local and remote

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- ▶ Resources -<https://try.github.io/>
Read at-<http://www.vogella.com/tutorials/Git/article.html>

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- ▶ Resources - <https://try.github.io/>
Read at - <http://www.vogella.com/tutorials/Git/article.html>
- ▶ A short Task - Create your own account, create a new repo using git bash, make some edits, commit and push your changes.

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Summary

HTML-The Page Layout Mechanism

Dev Club

- ▶ HTML stands for Hyper Text Markup Language.

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Summary

HTML-The Page Layout Mechanism

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- ▶ HTML stands for Hyper Text Markup Language. A markup language is used for the processing and presentation of text.

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Summary

HTML-The Page Layout Mechanism

Dev Club

- ▶ HTML stands for Hyper Text Markup Language. A markup language is used for the processing and presentation of text.
- ▶ HTML tags, Attributes and Values

< a href = " www.abc.com" > Example < /a > of a tag.

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- ▶ Basic Structure of an HTML page.

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< a href = " www.abc.com" > Example < /a > of a tag.

- ▶ Basic Structure of an HTML page.
- ▶ Add-ons - HTML Tables, images and divisions.

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- ▶ HTML stands for Hyper Text Markup Language. A markup language is used for the processing and presentation of text.
- ▶ HTML tags, Attributes and Values

`< a href = " www.abc.com" > Example < /a >` of a tag.

- ▶ Basic Structure of an HTML page.
- ▶ Add-ons - HTML Tables, images and divisions.
- ▶ Task - Try to create your own portfolio page. Put an image on it. You may want to use tables as well. Try out various formatting styles.

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Summary

- Styling of HTML tags - Property and Value. Some common properties - color(rgb, hex code, rgba, etc.), position, margin, etc.

```
h1 {font-family : Georgia; color : white; }
```

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- ▶ Styling of HTML tags - Property and Value. Some common properties - color(rgb, hex code, rgba, etc.), position, margin, etc.

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h1 {font-family : Georgia; color : white; }
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- ▶ Too many tags with similar properties or differentiating between two same tags but in different places?

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- ▶ Styling of HTML tags - Property and Value. Some common properties - color(rgb, hex code, rgba, etc.), position, margin, etc.

```
h1 {font-family : Georgia; color : white; }
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- ▶ Too many tags with similar properties or differentiating between two same tags but in different places?
Solution: Enclose within divisions, use of classes and ids
- ▶ Further Reading -
<https://www.codecademy.com/learn/learn-css>

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Summary

- ▶ Styling of HTML tags - Property and Value. Some common properties - color(rgb, hex code, rgba, etc.), position, margin, etc.

```
h1 {font-family : Georgia; color : white; }
```

- ▶ Too many tags with similar properties or differentiating between two same tags but in different places?
Solution: Enclose within divisions, use of classes and ids
- ▶ Further Reading -
<https://www.codecademy.com/learn/learn-css>
- ▶ Task - Your portfolio page doesn't look so well after all. Add some styling and colors to it.

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**Building Responsive
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Basic Javascript
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Summary

- ▶ Inbuilt classes. Ease of usage. e.g. container, navbar, tabs, button etc.

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**Building Responsive
Webpages**

Basic Javascript
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Summary

- ▶ Inbuilt classes. Ease of usage. e.g. container, navbar, tabs, button etc.
- ▶ Grid System and division into 12 parts. responsive design.

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Building Responsive
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Basic Javascript
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Summary

- ▶ Inbuilt classes. Ease of usage. e.g. container, navbar, tabs, button etc.
- ▶ Grid System and division into 12 parts. Responsive design.
- ▶ Further Reading - <https://www.w3schools.com/bootstrap/default.asp>

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Summary

- ▶ Inbuilt classes. Ease of usage. e.g. container, navbar, tabs, button etc.
- ▶ Grid System and division into 12 parts. Responsive design.
- ▶ Further Reading - <https://www.w3schools.com/bootstrap/default.asp>
- ▶ Task - Make your webpage mobile and tablet responsive. It is recommended that you add images as well.

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Summary

Javascript - The addons to HTML and CSS

Dev Club

- ▶ A dynamic programming language that is used to change the DOM structure. (Output can be according to user interaction.)

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- ▶ A dynamic programming language that is used to change the DOM structure. (Output can be according to user interaction.)
- ▶ With HTML can provide fully versatile content.

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Javascript - The addons to HTML and CSS

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- ▶ A dynamic programming language that is used to change the DOM structure. (Output can be according to user interaction.)
- ▶ With HTML can provide fully versatile content.
- ▶ Can be used to create games , galleries, video-players and what not.

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- ▶ Its child jQuery provides countless extensions which can be inserted into a website with as few as 5 lines.

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- ▶ Task - Try to create a page with a button which when clicked adds a line of text on your html page.

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- ▶ With HTML can provide fully versatile content.
- ▶ Can be used to create games , galleries, video-players and what not.
- ▶ Its child jQuery provides countless extensions which can be inserted into a website with as few as 5 lines.
- ▶ Task - Try to create a page with a button which when clicked adds a line of text on your html page. Additional Task: Look up some interesting jquery plug-ins

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Dev Club

- ▶ This lecture covered **the basics** that you require before moving on.
- ▶ **Note:** You will need to get a more hands-on approach by trial and failure to be proficient in this.
- ▶ Never forget your friends: **Stack Overflow and Google**, they shall help you more than anyone else.
- ▶ Take-away
 - ▶ Complete all the tasks individually.
 - ▶ Integrate them into one repo on your Github account.
 - ▶ **Remember:** This is just the beginning.

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For Further Reading I

Appendix

For Further Reading



Codecademy

www.codecademy.com/learn.



w3schools

www.w3schools.com.



MDN

<https://developer.mozilla.org/en-US/>.