

The background features abstract, overlapping geometric shapes in various shades of purple and blue, creating a modern, layered effect. The shapes are primarily triangular and polygonal, with some areas appearing more translucent than others.

Course Module 1: Course Unit 8: Bootstrap (Properties)

Week 10

Bootstrap (Properties)

Objectives:

1. Identify web development, bootstrap and bootstrap properties.
2. Implement bootstrap properties into the webpage.
3. Examine bootstrap properties into the webpage.

*Web development
or web application
frameworks*

Web frameworks

- refer to a set of resources and tools available to software and web developers.
- give web developers the ability to build and manage web applications, web services and websites.
- It is a software framework that was developed in order to simplify the web development process and make it easier to build a website.

Web frameworks

- It includes templating capabilities that allow you to present information within a browser, provides an environment for scripting how information flows and also contains many application programming interfaces (APIs) for gaining access to underlying data resources.
- also provide tools in order for web developers to build a content management system (CMS) for managing digital information on websites and the Internet.

Web frameworks

- can be considered as a pre-built structure that handles the more repetitive processes and features involved with developing a website. This means that a web developer will spend most of their time interacting with the different parts of the web framework through the use of code.

Advantages & Disadvantages of web frameworks

Advantages of web frameworks

- Open source
- Efficient
- good level of support
- high level of security
- Integration feature

Disadvantages of web frameworks

- Limited
- Difficult to learn the language

The background features abstract, overlapping geometric shapes in various shades of purple and blue, primarily concentrated on the right side of the image. The shapes include triangles and polygons of different sizes and orientations, creating a dynamic, layered effect. The colors range from light lavender to deep indigo and dark blue.

Bootstrap

Bootstrap

- most popular and powerful front-end (HTML, CSS, and JavaScript) framework for faster and easier responsive web development.
- includes HTML and CSS based design templates
- originally created by a designer and a developer at Twitter in mid-2010. Before being an open-sourced framework, Bootstrap was known as Twitter Blueprint.

Responsive web design is about creating web sites which automatically adjust themselves to look good on all devices, from small phones to large desktops.

Advantages of Bootstrap

Advantages of Bootstrap

- Easy to use
- Responsive features
- Mobile-first approach
- Browser compatibility
- Save lots of time
- Consistent design
- Open Source

Bootstrap Properties

See this additional reference links for the list of Bootstrap classes and examples:

1. <https://bootstrapcreative.com/resources/bootstrap-5-cheat-sheet-classes-index/>
2. https://www.w3schools.com/bootstrap4/bootstrap_ref_all_classes.asp
3. <https://getbootstrap.com/docs/5.0/examples/cheatsheet/>

Applications???

Any questions???

REFERENCES:

- Bootstrap 5 tutorial. (n.d.). <https://getbootstrap.com/docs/5.0/getting-started/introduction/>
- Bootstrap 5 tutorial. (n.d.). <https://mdbootstrap.com/docs/standard/bootstrap-5-tutorial/>
- Bootstrap 5 Tutorial. (n.d.). <https://www.w3schools.com/bootstrap5/index.php>
- Bootstrap Tutorial. (n.d.). <https://www.tutorialrepublic.com/twitter-bootstrap-tutorial/>
- What is a web framework?. (n.d.). <https://evolve.ie/q-and-a/what-is-a-web-framework/>