# Bootstrap GUI Basic Training

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## 3.1 Basics of Bootstrap

### 3.1.1 Introduction of Bootstrap

Bootstrap is a free and open-source CSS framework that provides a design system with pre-built components, including typography, forms, buttons, navigation, and more. It is designed to be responsive, mobile-first, and easy to use.

Bootstrap was created by Mark Otto and Jacob Thornton at Twitter in 2011. It was open-sourced in 2013 and has since become one of the most popular CSS frameworks in the world. Bootstrap is used by millions of websites and web applications, including many large companies such as Microsoft, IBM, and Adobe.

Bootstrap is a powerful tool that can help you to create beautiful and responsive web pages quickly and easily. It is a great choice for beginners and experienced developers alike.

Here are some of the benefits of using Bootstrap:

- **Responsive:** Bootstrap is designed to be responsive, meaning that it will look good on any device, from a desktop computer to a mobile phone.
- **Mobile-first:** Bootstrap is built with mobile-first design in mind, so your web pages will look great on mobile devices even if they are not optimized for mobile.
- **Easy to use:** Bootstrap is easy to use, even for beginners. The documentation is clear and concise, and many tutorials are available online.
- **Widely supported:** Bootstrap is widely supported by browsers and devices. You can be sure that your web pages will look good on most devices.
- **Extensive library of components:** Bootstrap comes with an extensive library of components, including typography, forms, buttons, navigation, and more. This can save you a lot of time and effort when building your web pages.

Bootstrap is a great choice if you are looking for a powerful and easy-to-use CSS framework. It is used by millions of websites and web applications, and it is constantly being updated with new features and components.

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### 3.1.2 Use Of Bootstrap

Bootstrap is a free and open-source CSS framework that provides a design system with pre-built components, including typography, forms, buttons, navigation, and more. It is designed to be responsive, mobile-first, and easy to use.

Bootstrap can be used to create a wide variety of web pages, including:

- **Personal websites:** Bootstrap can be used to create beautiful and responsive personal websites. You can use the Bootstrap components to create a header, footer, navigation, and content section for your website.
- **Business websites:** Bootstrap can be used to create professional and polished business websites. You can use the Bootstrap components to create a homepage, about page, contact page, and more for your business website.
- **Web applications:** Bootstrap can be used to create complex web applications. You can use the Bootstrap components to create user interfaces for your web applications.

Here are some of the ways that Bootstrap can be used:

- **To create a responsive web page:** Bootstrap is designed to be responsive, meaning that it will look good on any device, from a desktop computer to a mobile phone. This is achieved by using media queries to change the layout of the web page depending on the size of the device.
- **To create a mobile-first web page:** Bootstrap is built with mobile-first design in mind, so your web pages will look great on mobile devices even if they are not optimized for mobile. This is achieved by starting with the mobile version of the web page and then adding the desktop version later.
- **To create a web page with a consistent look and feel:** Bootstrap comes with a number of pre-defined styles for typography, forms, buttons, and other elements. This can help you to create a web page with a consistent look and feel.
- **To save time and effort:** Bootstrap comes with an extensive library of components, including typography, forms, buttons, navigation, and more. This can save you a lot of time and effort when building your web pages.

### 3.1.3 Structure Of Bootstrap

Bootstrap is a collection of CSS and JavaScript files that can be used to style and add functionality to web pages. The Bootstrap framework is divided into the following components:

- **CSS:** The Bootstrap CSS files contain the styles for the Bootstrap components.
- **JavaScript:** The Bootstrap JavaScript files contain the functionality for the Bootstrap components.
- **Components:** The Bootstrap components are the individual pieces of code that can be used to style and add functionality to web pages.

The Bootstrap components are organized into the following categories:

- Layout: The layout components are used to create the overall structure of a web page.
- Typography: The typography components are used to style text on a web page.
- Forms: The forms components are used to create forms on a web page.
- Buttons: The buttons components are used to create buttons on a web page.
- Navigation: The navigation components are used to create menus and navigation bars on a web page.
- Tables: The tables components are used to create tables on a web page.
- Modals: The modals components are used to create dialog boxes on a web page.
- Alerts: The alerts components are used to create notification messages on a web page.
- Progress bars: The progress bars components are used to create progress bars on a web page.
- Pagination: The pagination components are used to create pagination controls on a web page.
- Other: The other components are miscellaneous components that do not fit into any of the other categories.