HTML Server Controls in Web Technologies

Welcome to this introduction to HTML server controls! We'll explore these powerful tools to build dynamic and interactive web applications.
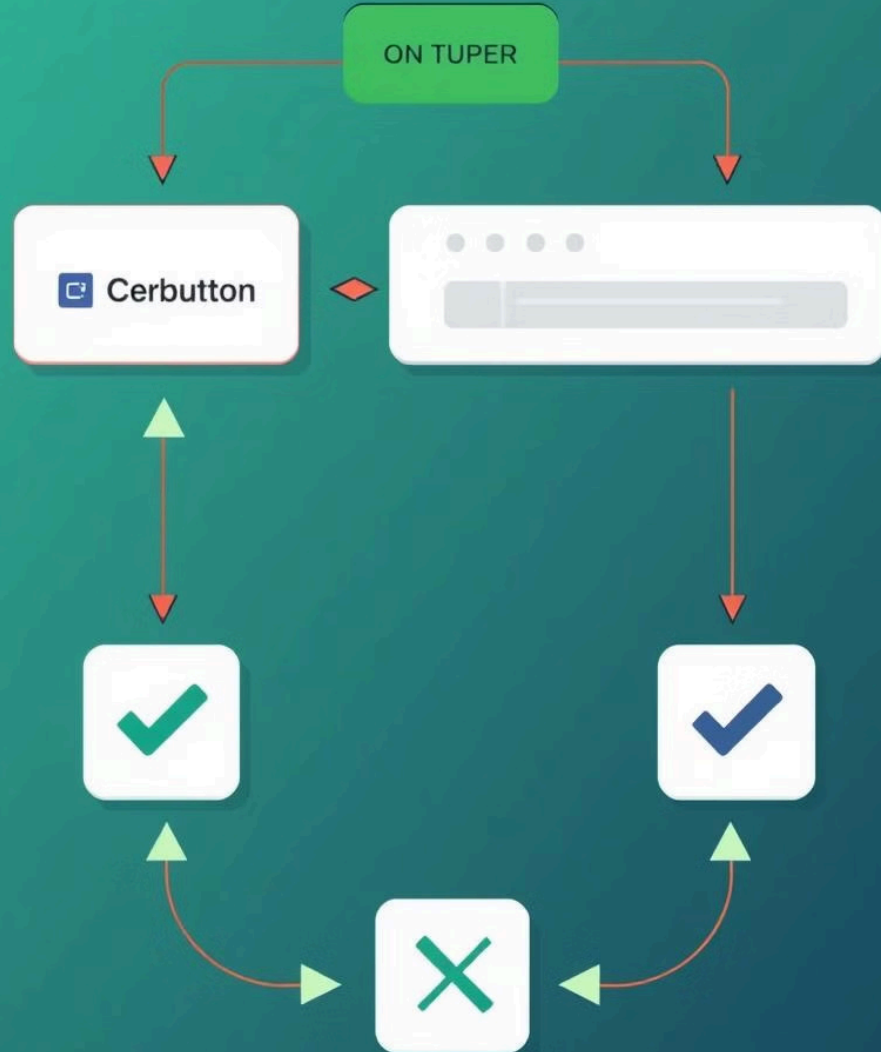
Introduction to Server Controls

What are they?

Server controls are pre-built components that handle data and functionality on the server side, adding interactivity to web pages.

Why use them?

They simplify web development by providing reusable components, reducing coding effort, and enhancing user experiences.

Types of Server Controls

Basic Controls

Simple controls like text boxes, buttons, and dropdown lists for user input and basic actions.

Validation Controls

Controls that enforce data integrity and prevent invalid user input, ensuring data accuracy.

Data Controls

Controls that bind to databases and provide data-driven functionalities, enabling dynamic content display and manipulation.

Made with Gamma

TextBox Control

Purpose

Allows users to input text data, typically used in forms, search bars, and other interactive elements.

Features

Provides properties like "MaxLength" to limit text length, "ReadOnly" to disable editing, and "TextMode" to specify text formatting.

Button Control

Function

Triggers actions or events on the server when clicked, often used to submit forms, navigate to other pages, or perform tasks.

Customization

Can be styled with different colors, sizes, and icons to match the website's design and provide a visually appealing experience.

Dropdown List Control

Functionality

Provides a list of options for users to choose from, typically used to select values like countries, categories, or preferences.

Benefits

Saves space compared to multiple radio buttons or checkboxes, providing a compact and user-friendly way to select values.
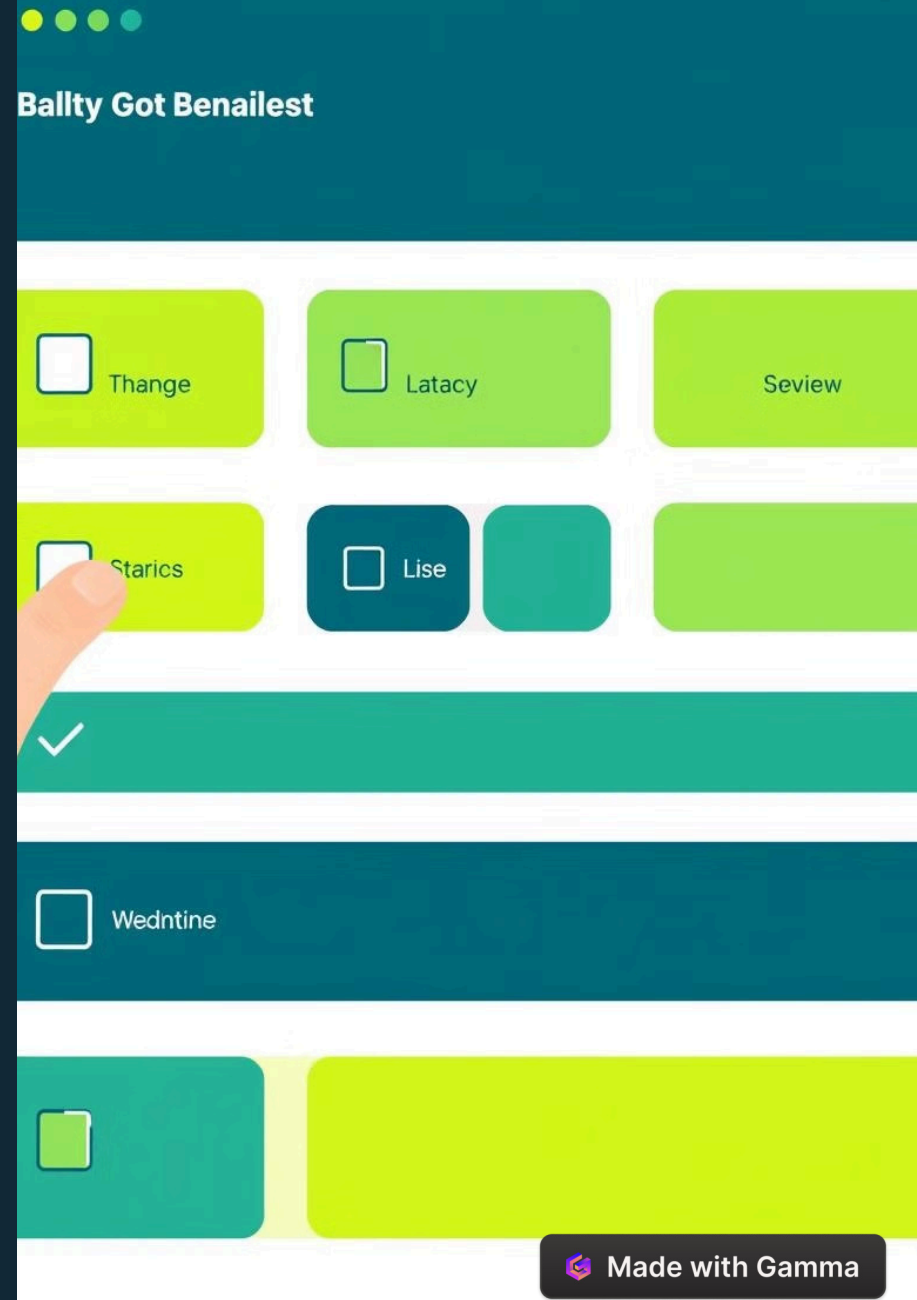
Checkbox and Radio Button Controls

✓ **Checkboxes**

Allow users to select multiple options from a list, offering flexibility and enabling diverse preferences.
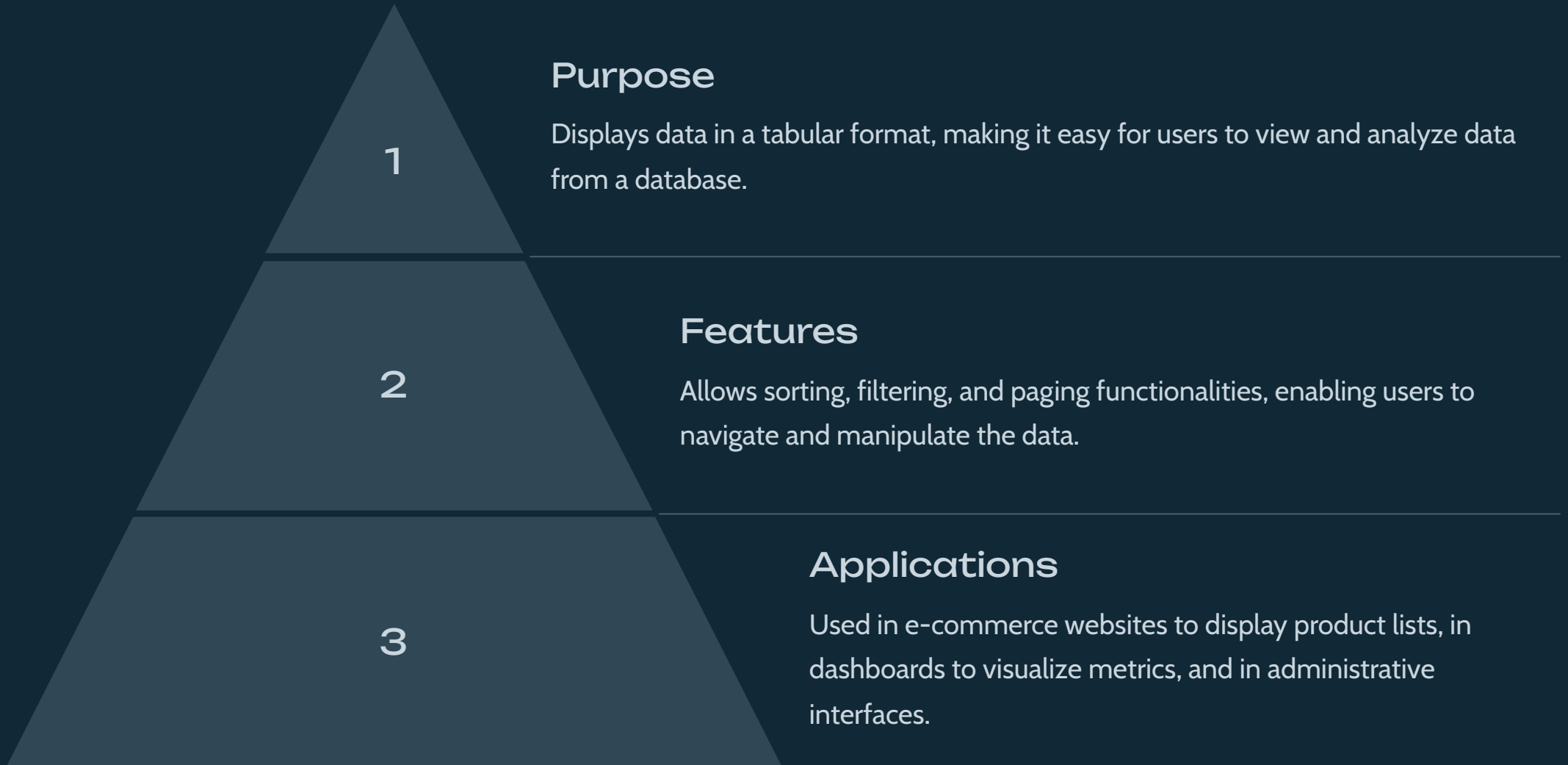
◎ **Radio Buttons**

Restrict users to selecting only one option from a set, ensuring a single choice among a range of possibilities.

GridView Control

Purpose
1

Displays data in a tabular format, making it easy for users to view and analyze data from a database.

Features
2

Allows sorting, filtering, and paging functionalities, enabling users to navigate and manipulate the data.

Applications
3

Used in e-commerce websites to display product lists, in dashboards to visualize metrics, and in administrative interfaces.

Conclusion and Key Takeaways

Versatility

HTML server controls offer a broad range of options, covering diverse functionality and user interface needs.

Efficiency

They significantly simplify development by providing ready-made components, reducing coding time and effort.

User-friendliness

They enhance user interaction by offering intuitive controls and data management capabilities.

THANK YOU

Thank you for joining this session on HTML server controls!