

What is Vue?



- Vue.js is a progressive JavaScript framework for building user interfaces.
- It is reactive, component-based, and very beginner-friendly.
- It helps you build both small widgets and large applications.





Template Syntax ({{ }})



- Double curly braces {{ }} are used to output dynamic data in HTML.
- This is called interpolation.





v-bind



- v-bind is used to bind attributes dynamically.
- Short form: (e.g., :href="url")





v-model



- v-model creates two-way data binding between input and data.
- Updates data when user types.





v-if / v-else / v-else-if





- Used for conditional rendering.
- Show/hide elements based on conditions.





v-for



- Used to loop through arrays and display lists.
- Syntax: v-for="item in items".





Methods



- Functions declared inside the methods object.
- Used to handle logic and events.





Event Handling (v-on / @)



- v-on or @ is used to listen to events like click, input.
- Example: @click="doSomething".





Components (Global vs Local)





- Components split UI into reusable parts.
- Global components are registered app-wide.
- Local components are registered in a specific file.





Props





- Props are used to pass data from parent to child component.
- Read-only from child side.





Emitting Events



- Child components use \$emit to send events to parent.
- Allows communication from child to parent.





Lifecycle Hooks



- Special functions triggered at different stages of component's life.
- Example: mounted(), created().





Reactive Data (ref, reactive)



- ref() is used for primitive values.
- reactive() is used for objects/arrays.
- Vue tracks and updates UI automatically.

