

Angular -

- Client-side JS Framework
- Create SPA
- Data-binding : Sync of data
- Reactive App/ Asynchronous
- Component based Architecture
- TypeScript Support :
- Module Driven Approach
- MV* Pattern
- Separation of Concerns

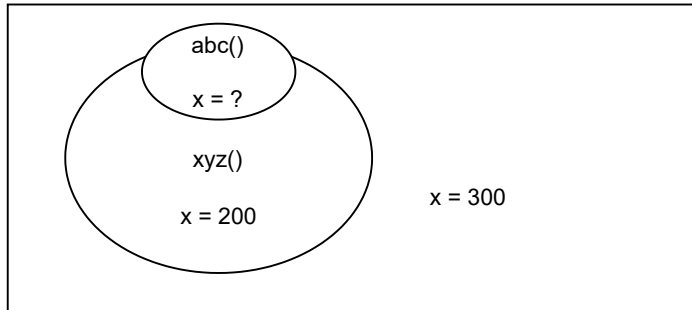
Angular Building Blocks -

- Component : reusable piece of code, creates UI
- Directive : Marker of specific meaning; [ngClass, ngStyles, ngIf, ngFor etc]
- Pipes : Formats the UI [uppercase, json, percent, number, async]
- Services : Business logic
- Modules : Interrelated Code

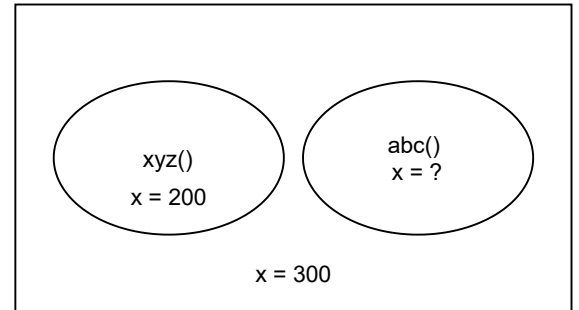
Other JS Libraries/Framework -

- JQuery : Library; DOM manipulation
- ExtJS : Framework; Custom Components
- VueJS : Library : Virtual DOM;
vuex, vuex-router
- ReactJS : Library; Virtual DOM, Component Based Arch, Faster Rendering;
react-router, react-redux, formik,
- PolymerJS : Custom Components
- EmberJS : Framework :
- KnockoutJS : MVVM Pattern; 2-way data-binding
- BackboneJS : MVC Pattern at client side;
- Bootstrap : Formatting UI / Styling / Responsiveness
- NodeJS : Platform to run Server-side JS

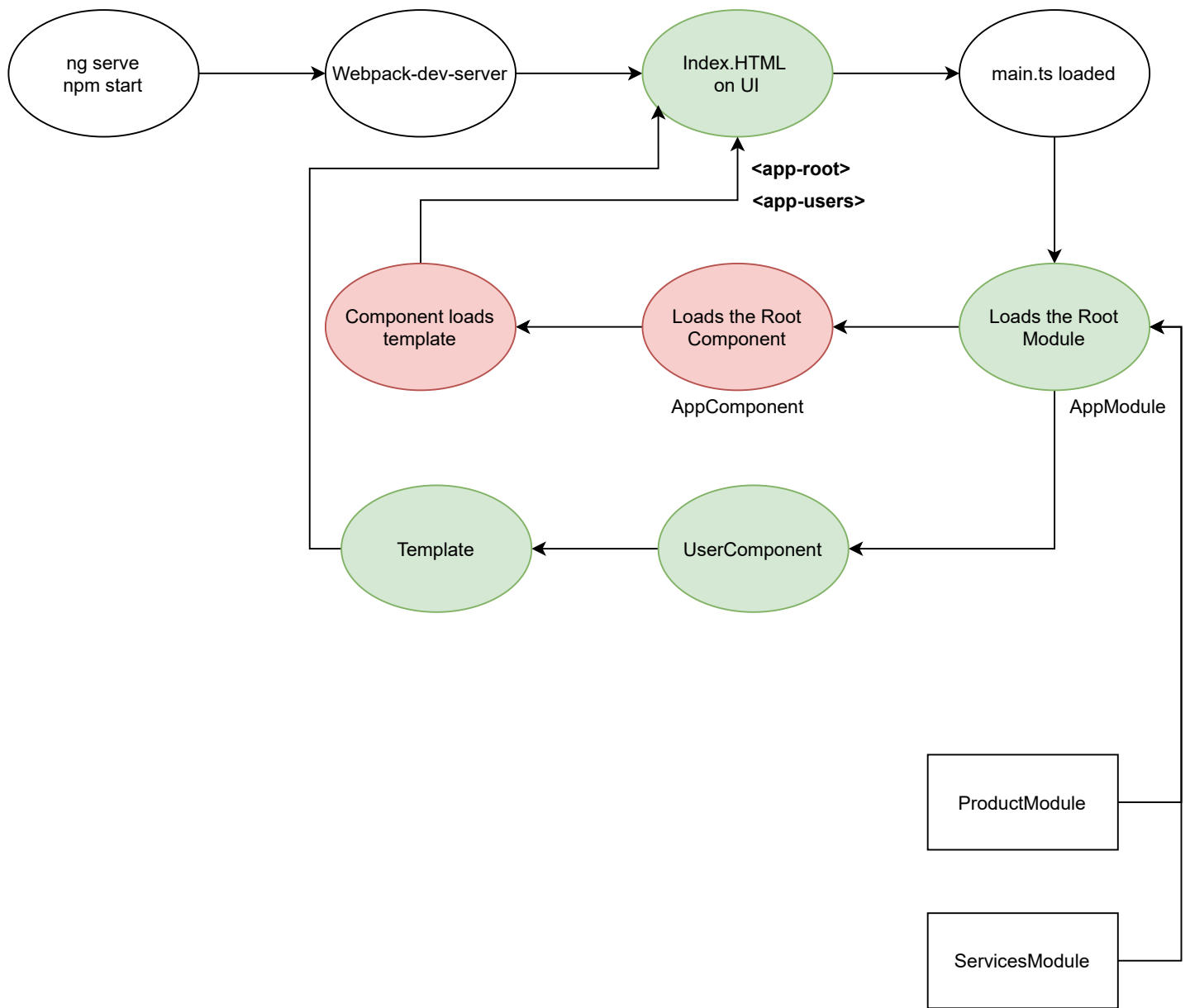
Lexical Environment and Scope Chaining



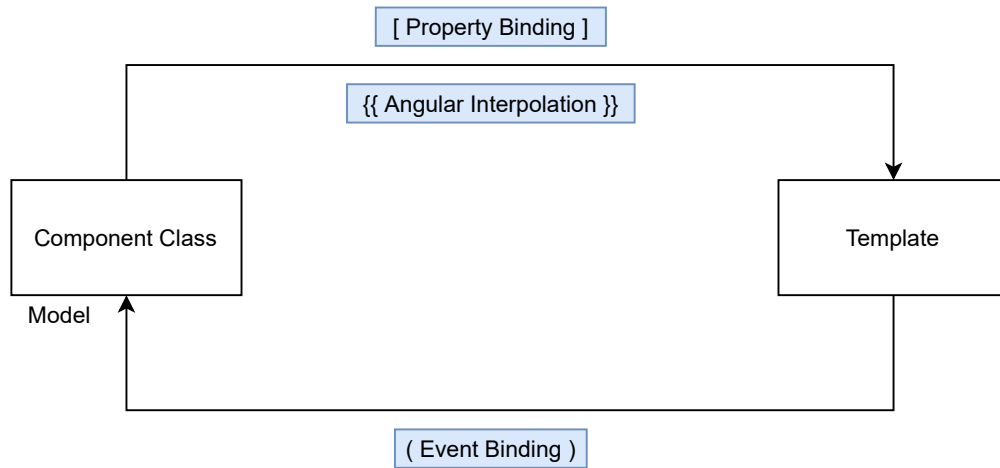
global Scope



Angular Bootstrap Process



Data Binding



2 way Data Binding

- Clubbing [PB] & (EB) Syntax
- Banana in the Box [(ngModel)]