Angular Material & CDK

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Angular Material

– [Angular Material](#) library is a suite of reusable UI components that aims to be fully accessible

– If you're building your own Design System, you can copy what Angular Material is doing

– or even fork Angular Material ☺

NG Material

Demo

Showcase NG Material

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Angular CDK

– [Angular CDK](#) includes the [a11y package](#) that provides tools to support various areas of accessibility

  – *LiveAnnouncer* is used to announce messages for screen-reader users using an aria-live region

```
this.liveAnnouncer.announce('Flights loading error');
```

  – *cdkTrapFocus* directive traps Tab focus in an element

```
<div class="gdpr-dialog" cdkTrapFocus>
  <!-- Yay, focus won't leave this element! -->
</div>
```

NG CDK

Demo

LiveAnnouncer Demo

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UI Components in NG

- Augmenting native elements
  - Native HTML elements capture several standard interaction patterns that are important to A11y
  - When authoring NG components, you should re-use native elements
  - Instead of creating a custom element for a new variety of button, create a component that uses an attribute selector with <button>
  - This most commonly applies to <button> and <a>, but can be used with many other elements
  - Example: MatButton

UI Components

UI Components in NG

– Using containers for native elements
  – Sometimes using the appropriate native element requires a container element
  – E.g., the native <input> element cannot have children, so any custom text entry components need to wrap an <input> with extra elements
  – Example: MatFormField

UI Components

Design Systems

- Canopy
  - https://github.com/Legal-and-General/canopy

- Clarity
  - https://clarity.design/

- Prime NG
  - https://primeng.org/guides/accessibility
    - https://blocks.primeng.org/#/application/sidebarlayout

- **KoliBri - Public UI**
  - https://public-ui.github.io/docs/components/input-text

- You can still use Angular CDK with all of them ☺

NG Material

Questions?

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