

Layout Components



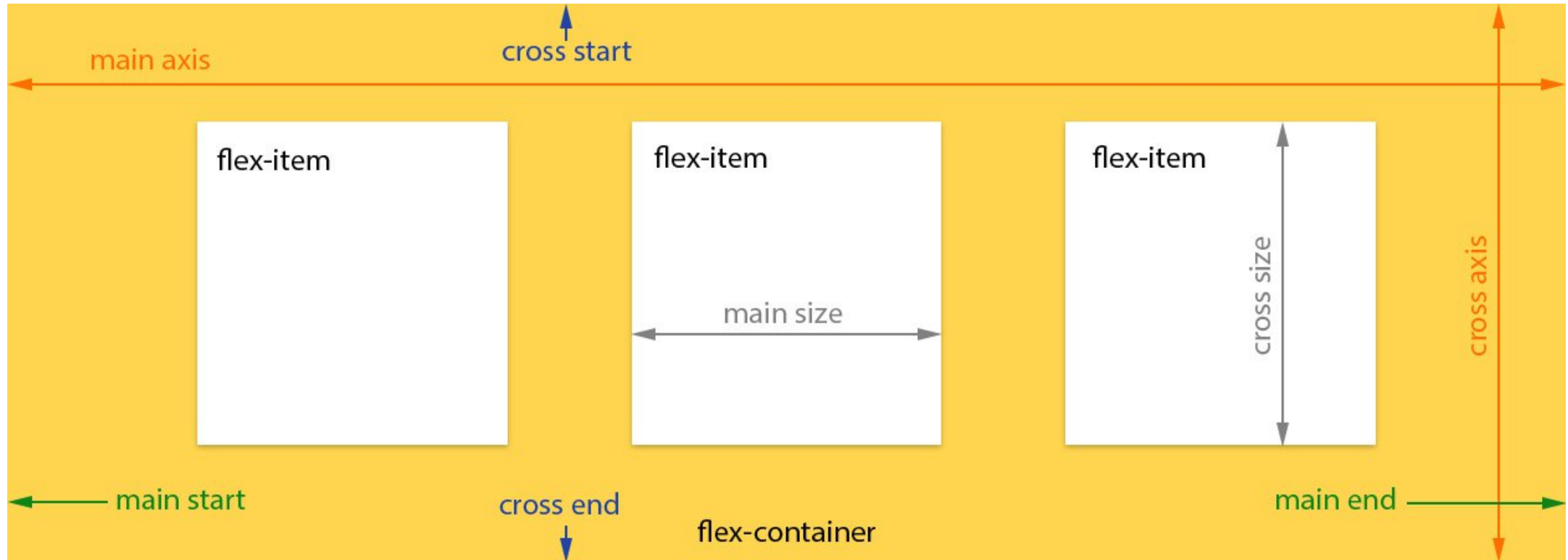
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Flex Layout Box Model and Terminology



Angular Flex Layout

FlexBox CSS + mediaQuery

Angular version 4.1 and higher



Application Routes

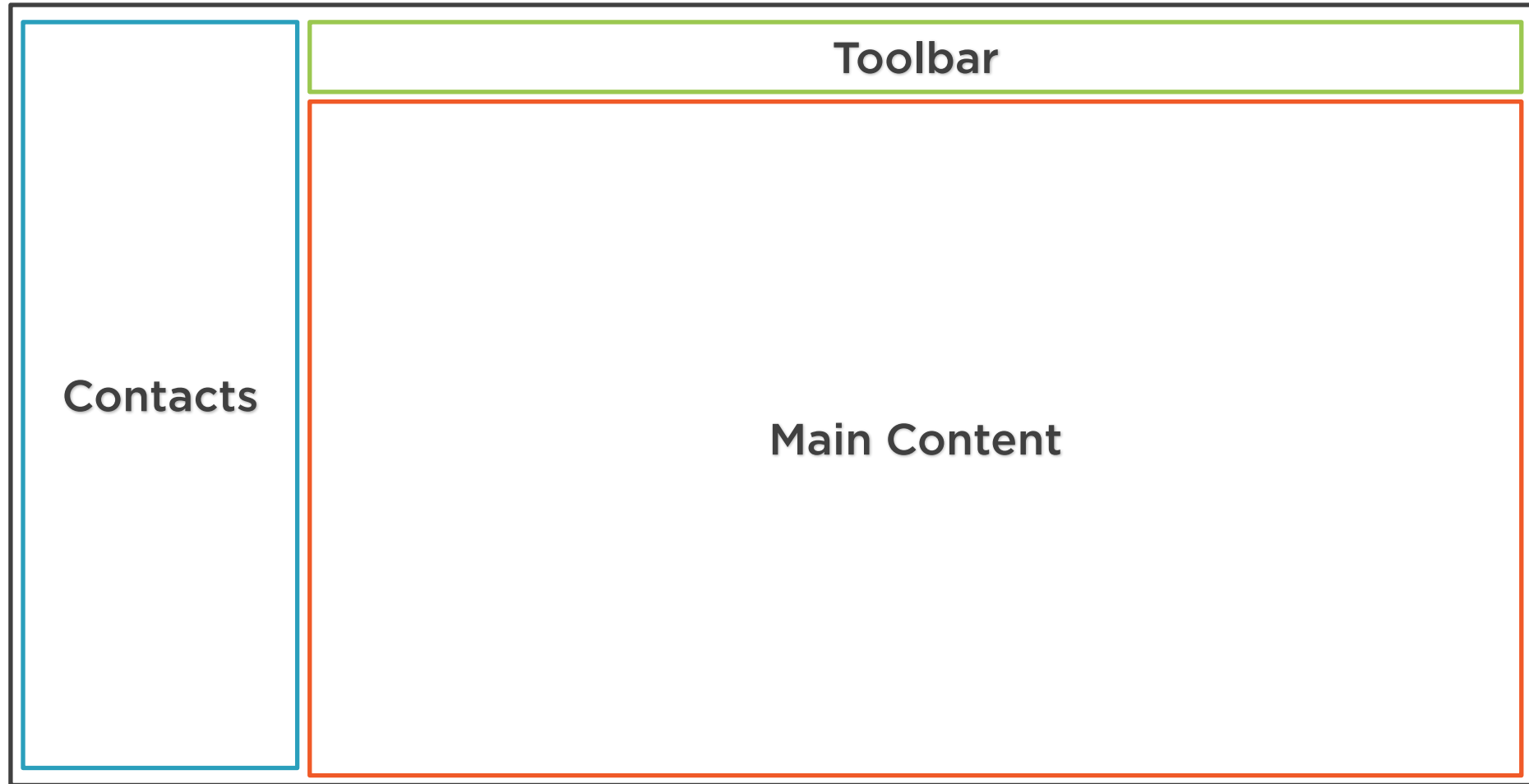
Demo Module
/demo/<component>

Contact Manager Module
/contact-manager
<router-outlet>

root component
<router-outlet />



Contact Manager Layout



Sidenav

```
<mat-sidenav-container>
  <mat-sidenav>
    <!-- sidenav content -->
  </mat-sidenav>

  <!-- primary content -->
</mat-sidenav-container>
```

Modes

- Over - Floats over primary content
- Push - Pushes primary content
- Side - Side-by-side with primary content



matchMedia

Observables with `window.matchMedia()`
`matchMedia('(max-width: 720px)');`



Change Detection

```
private mediaMatcher: MediaQueryList =  
  matchMedia(`(max-width:  
    ${SMALL_WIDTH_BREAKPOINT}px)`);  
  
constructor() {  
  this.mediaMatcher.addListener(mql =>  
    this.mediaMatcher = mql);  
}
```

NgZone does not wrap the matchMedia

- Inject ApplicationRef and call ApplicationRef.tick()
- Inject ChangeDetectionRef and run the scan directly.
- Run the listener inside an angular zone.



Summary



Flexbox

- Flexbox CSS + mediaQuery

Sidenav

- Modes: over, push and side

Toolbar

- Container for headers, titles or actions

Media queries

- Matchmedia – Low-level service
- `matchMedia('(max-width: 720px)');`

