

# Angular Material Using TypeScript

## Material Design, Angular Material Tour, Navigation, Layout, Popups, Datatable, Flex Layout, CDK, Project

After developers get up to speed with the fundamentals of Angular and TypeScript programming, their attention turns from the basics of creating web UIs to more substantial concerns – such as the need to create visually appealing, logically organized and easily navigable applications that responsively react to the devices used by end-users.

Such modern web applications need to be competitive in the marketplace and for this consistent styling, layout and component architecture is needed – hence the need for material design (<https://material.io>) and its imple-

mentation for Angular 5 - Angular Material. Hundreds of millions of users worldwide see material design everyday when using Google Search, Gmail, Youtube and Android; hence it makes sense to adopt it for your own website too.

The three main parts of Angular Material are a well crafted set of components, the flex layout engine and CDK (for building your own components). All of these are covered in this specialist course as we explore how best to create modern web UIs that look well and work well.

<b>Contents of One-Day Training Course</b>	
<p><b>Target Audience</b> Developers interested in efficiently bring material design to their Angular 5 applications</p> <p><b>Prerequisites</b> Experienced Angular developers with a flair for UI design.</p> <p>Note: This is not an introductory Angular course - so attendees must already be familiar with the Angular framework.</p> <p>All demos and labs will be in TypeScript, so attendees need to know TypeScript.</p>	<p><b>Purpose of Material Design</b> Google's design language Style guide++ Principles of material design</p> <p><b>Tour of Material Design</b> "Material Design is a unified system that combines theory, resources, and tools for crafting digital experiences."</p> <p><b>Overview of Angular Material</b> Implements material design for Angular Exploring its capabilities What it brings to modern UI projects Review of Angular's forms architecture</p> <p><b>Delivering UI Capabilities</b> Pagination Navigation Typography Layout</p> <p><b>Form Controls</b> Autocomplete, checkbox, input, radio button, select, slider, slide toggle</p> <p><b>Navigation</b> Menu Sidenav Toolbar</p> <p><b>Layout</b> List, Grid Card Tabs</p> <p><b>Buttons, Indicators &amp; Icons</b> Button, button toggle, chips, icons, progress spinner, progress bar</p>
	<p><b>Popups And Modals</b> Dialog, Tooltip Snackbar</p> <p><b>Data Table</b> Table Sort header Paginator</p> <p><b>Introduction to Flex layout</b> Building responsive user interfaces Flexbox usage Adapting to various screen sizes The benefit of a grid and column spans</p> <p><b>Advanced Flex layout</b> Responsive API Media query Coding custom layout How flex layout works under the hood</p> <p><b>Architecture of CDK</b> Separate Component Development Kit "general building blocks for UI components decoupled from the visuals of Material Design" New foundation for Angular Material, can also be used separately</p> <p><b>Using CDK</b> Creating your own components based on CDK for a range of capabilities without too much extra development effort NG Github location: <a href="https://github.com/material2/src/cdk">material2/src/cdk</a> CDK data table</p> <p><b>Project</b> Using Angular Material in a large project to see how to best utilize its rich capabilities</p>



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