



# Angular Layout

Responsive layout using Angular's API

# Agenda

1. Why use Angular Layout
2. Static API
3. Responsive API
4. Hands on
5. References
6. Q.A & further discussion

# Why use Angular Layout

- HTML markup for layout configuration
- Less CSS
- Supports support for breakpoints and custom breakpoints
- Overall framework consistency

# Static API



# Static API [1]

“ The static API by default targets the the desktop, developers should use e Responsive API to support alternate layout configurations. ”

## API for DOM containers:

HTML	API
fxLayout	<direction> [wrap]
fxLayoutAlign	<main-axis> <cross-axis>
fxLayoutGap	%   px   vw   vh

# Static API [1]

## API for DOM elements:

HTML	Allowed values
flexFlex	""   px   %   vw   vh   <grow> <shrink> <basis>
flexFlexOrder	int
flexFlexOffset	%   px   vw   vh
flexFlexAlign	start   baseline   center   end
flexFlexFill	

# Static API [1]

**API for any element:**

HTML API	Allowed values
fxHide	TRUE   FALSE   0   ""
fxShow	TRUE   FALSE   0   ""
ngClass	css class
ngStyle	inline style
imgSrc	img source



# Responsive API



# Responsive API [2]

breakpoint	mediaQuery
xs	'screen and (max-width: 599px)'
sm	'screen and (min-width: 600px) and (max-width: 959px)'
md	'screen and (min-width: 960px) and (max-width: 1279px)'
lg	'screen and (min-width: 1280px) and (max-width: 1919px)'
breakpoint	mediaQuery

# Responsive API [2]

## Breakpoint aliases

breakpoint	mediaQuery
lt-sm	'screen and (max-width: 599px)'
lt-md	'screen and (max-width: 959px)'
lt-lg	'screen and (max-width: 1279px)'
lt-xl	'screen and (max-width: 1919px)'

# Responsive API [2]

## Breakpoint aliases

breakpoint	mediaQuery
gt-xs	'screen and (min-width: 600px)'
gt-sm	'screen and (min-width: 960px)'
gt-md	'screen and (min-width: 1280px)'
gt-lg	'screen and (min-width: 1920px)'

# Responsive API [2]

“ If we combine the breakpoint alias with the static API, we can easily support responsive breakpoints using a simple markup convention: ”

```
<api>.<breakpoint alias>="<value>"  
[<api>.<breakpoint alias>]="<expression>"
```

# Hands-on



# Reference

- [1]. <https://github.com/angular/flex-layout/wiki/Declarative-API-Overview>
- [2]. <https://github.com/angular/flex-layout/wiki/Responsive-API>