Manuel Tarouca Martins

Angular Layout

Responsive layout using Angular's API

Manuel Tarouca Martins

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

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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
fxFlex	"" | px | % | vw | vh | <grow> <shrink> <basis>
fxFlexOrder	int
fxFlexOffset	% | px | vw | vh
fxFlexAlign	start | baseline | center | end
fxFlexFill	

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)'

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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
[3]- https://github.com/manueltarouca/angular-responsive-ui-workshop