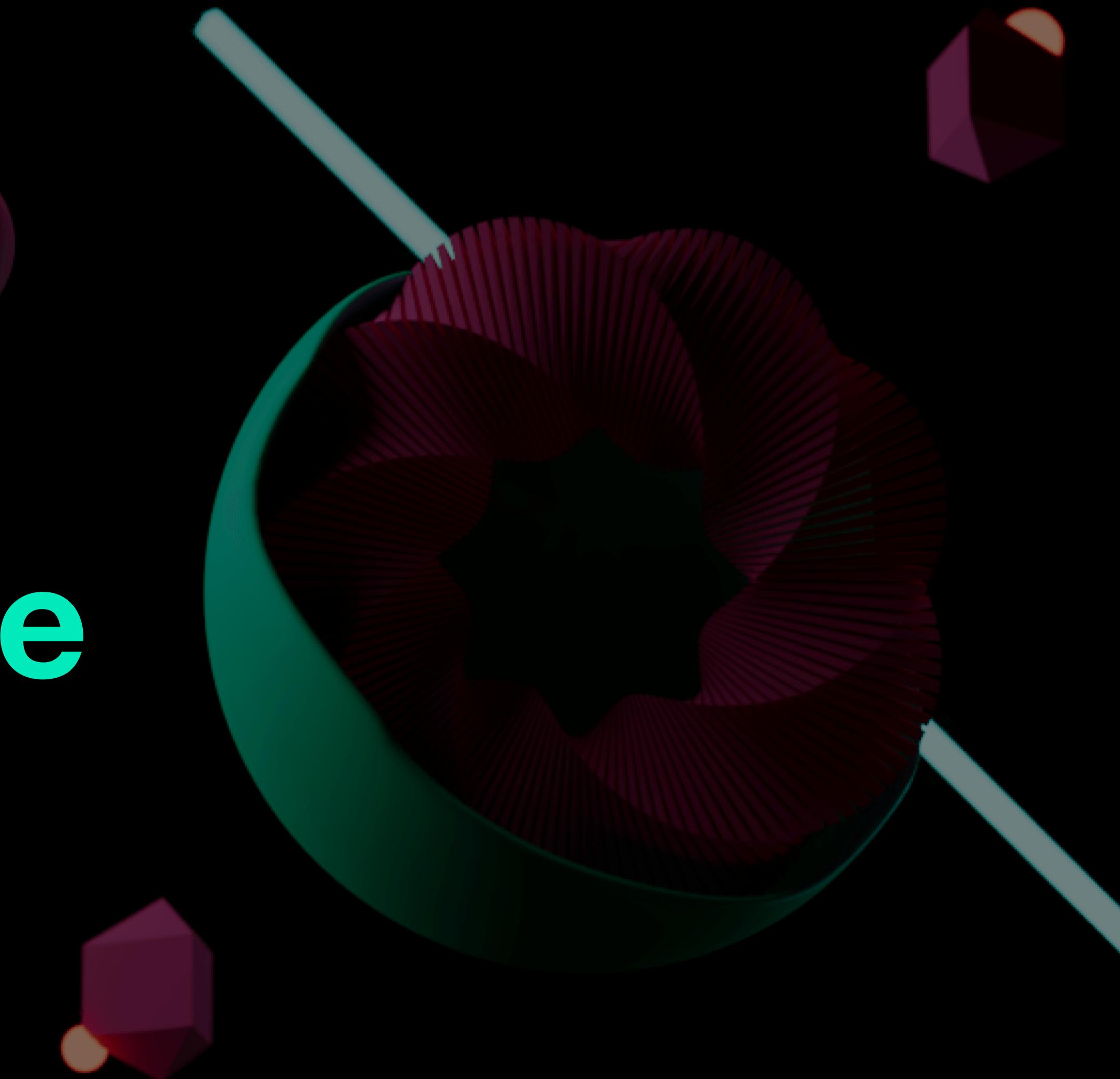


Engineering
Awesome
Conference.

Creating Responsive Apps with Flutter





Flutter

May 2017
Flutter Alpha

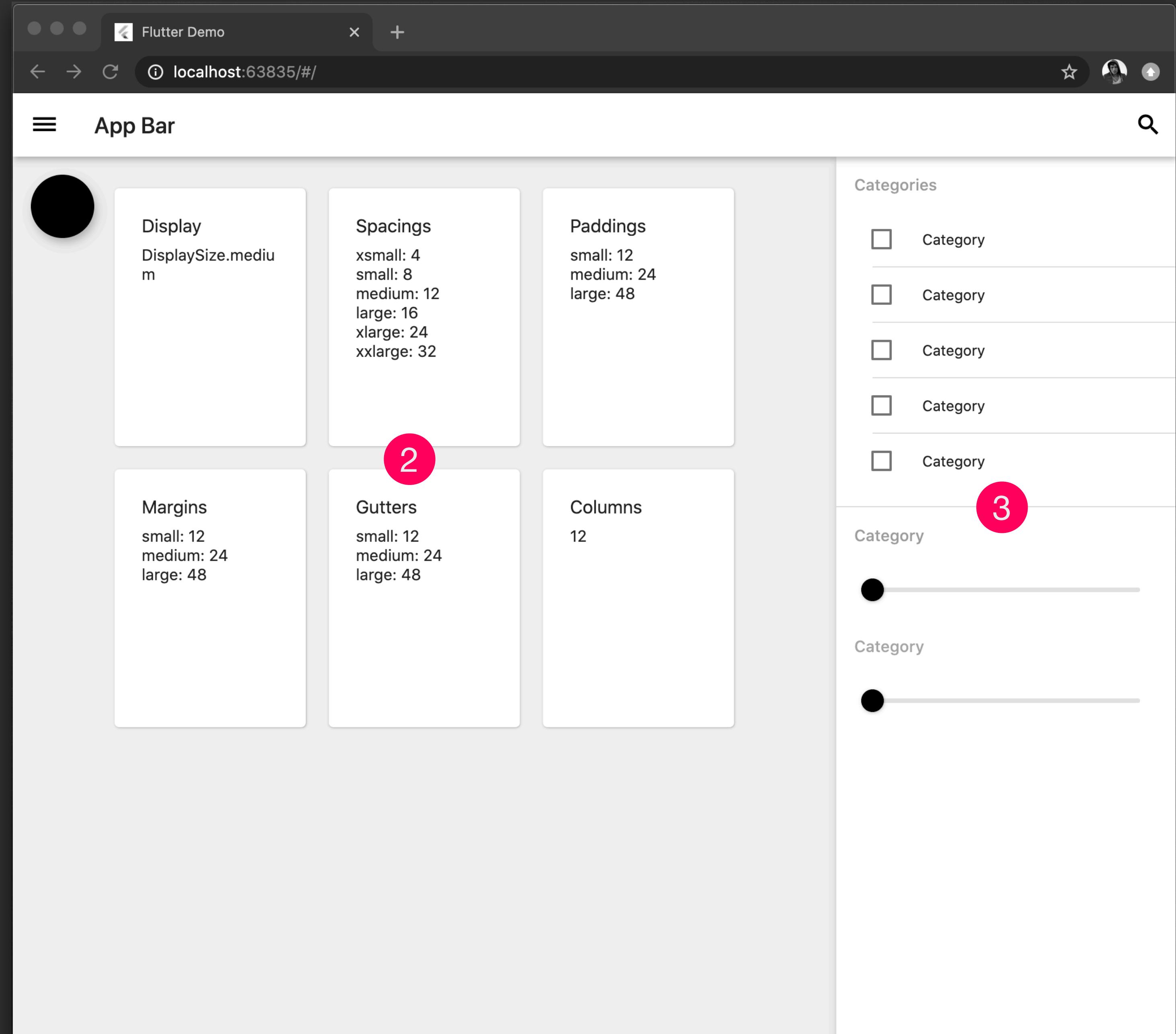
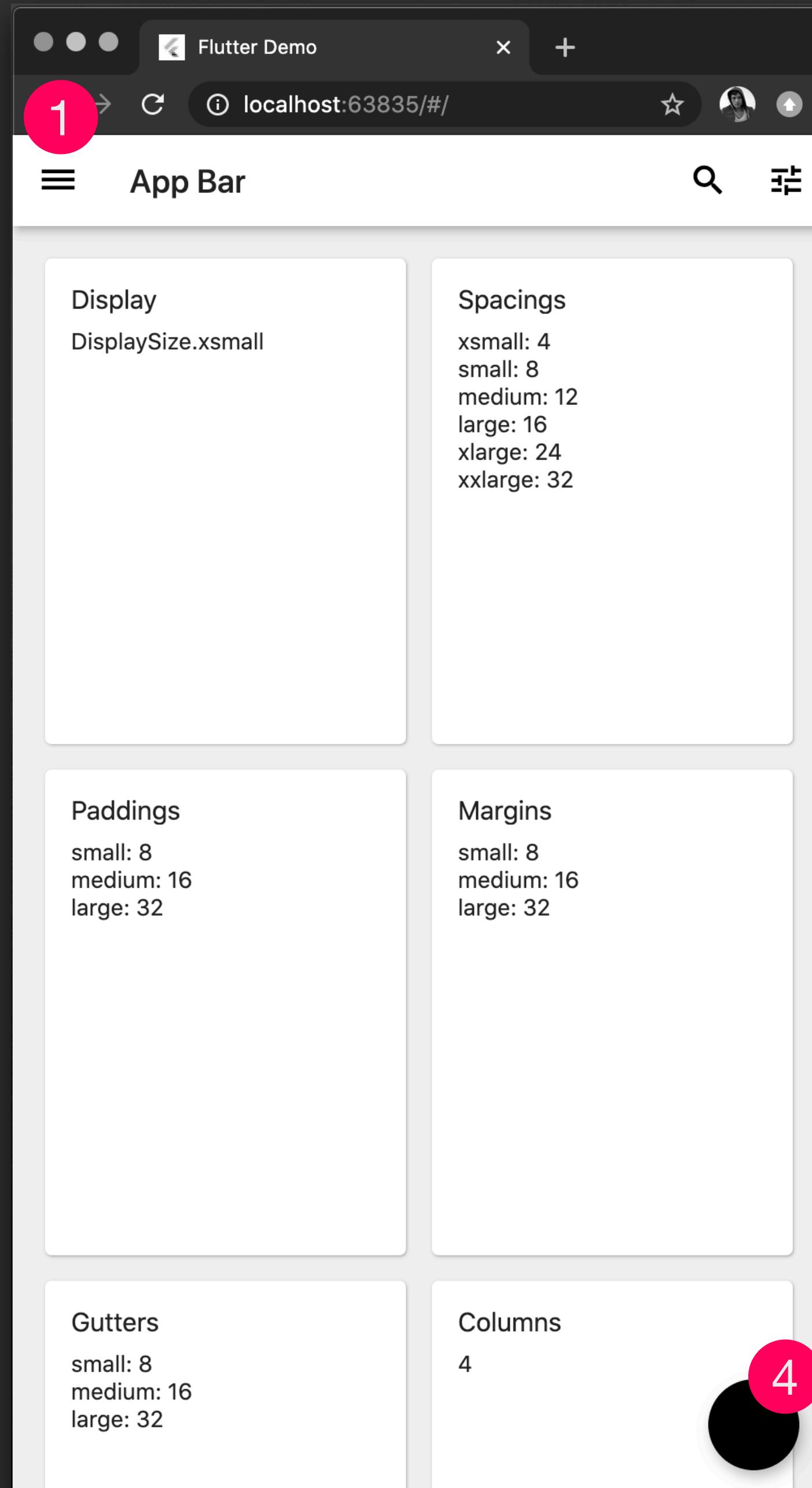
March 2018
Flutter Beta

December 2018
Flutter Stable 1.0

May 2019
Flutter Web Preview

December 2019
Flutter Web Beta

<https://github.com/flutter/flutter/wiki/Roadmap>



Flutter Demo X +

localhost:63835/#/

Selected Nav item

Nav item

Nav item

Nav item

App Bar

Display
DisplaySize.large

Spacings
xsmall: 4
small: 8
medium: 12
large: 16
xlarge: 24
xxlarge: 32

Paddings
small: 12
medium: 24
large: 48

Margins
small: 12
medium: 24
large: 48

Gutters
small: 12
medium: 24
large: 48

Columns
12

Categories

Category

Category

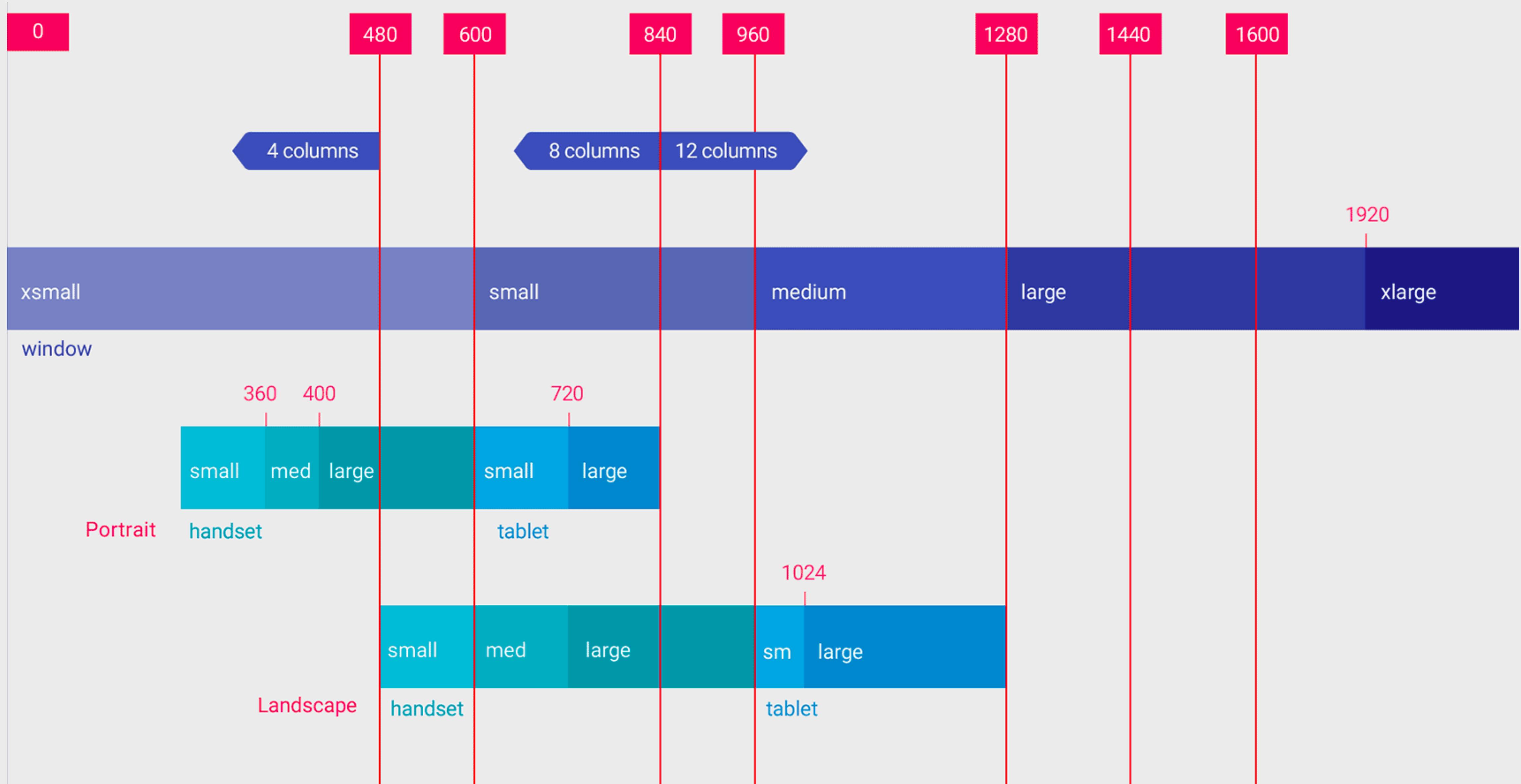
Category

Category

Category

Category

Category



MediaQuery

```
final mediaQueryData = MediaQuery.of(context);  
final displaySize = mediaQueryData.size;  
final displayOrientation = mediaQueryData.orientation;
```

LayoutBuilder

```
17  
18  
19  
20  
21  
22  
23  
24  
25 class WidgetName extends StatelessWidget {  
26     @override  
27     Widget build(BuildContext context) {  
28         return LayoutBuilder(builder: (  
29             BuildContext context,  
30             BoxConstraints constraints,  
31         ) {  
32             if (constraints.maxWidth > 200.0) {  
33                 return Text('BIG');  
34             } else {  
35                 return Text('SMALL');  
36             }  
37         }); // LayoutBuilder  
38     }  
39 }  
40  
41
```

```
4
5
6
7
8 enum DisplaySize {
9     /// 0 - 599
10    xsmall,
11
12    /// 600 - 1023
13    small,
14
15    /// 1024 - 1439
16    medium,
17
18    /// 1440 - 1919
19    large,
20
21    /// 1920 +
22    xlarge,
23 }
24
25
26
```

The image shows a file tree view on the right side of the screen. The root folder is 'lib'. It contains several subfolders: 'extensions', 'features' (which is expanded to show 'create', 'feed', 'filter', 'home', 'navigation', and 'search'), 'resources' (which is also expanded to show 'columns.dart', 'display.dart' (which is highlighted with a blue selection bar), 'gutters.dart', 'margins.dart', 'paddings.dart', 'resources.dart', 'spacings.dart', 'app.dart', and 'main.dart').

```
27  
28  
29  
30  
31     extension SizeDisplaySize on Size {  
32         DisplaySize toDisplaySize() {  
33             if (width <= 599) {  
34                 return DisplaySize.xsmall;  
35             } else if (width <= 1023) {  
36                 return DisplaySize.small;  
37             } else if (width <= 1439) {  
38                 return DisplaySize.medium;  
39             } else if (width <= 1919) {  
40                 return DisplaySize.large;  
41             } else {  
42                 return DisplaySize.xlarge;  
43             }  
44         }  
45     }  
46  
47  
48
```

```
21  
22  
23 class Display {  
24     final DisplaySize size;  
25     final Orientation orientation;  
26  
27     Display({  
28         @required this.size,  
29         @required this.orientation,  
30     });  
31 }  
32  
33 extension MediaQueryDataDisplay on MediaQueryData {  
34     Display get display => Display(  
35         size: size.toDisplaySize(),  
36         orientation: orientation,  
37     );  
38 }  
39  
40 extension BuildContextDisplay on BuildContext {  
41     Display get display => MediaQuery.of(this).display;  
42 }  
43  
44  
45
```

Display
DisplaySize.xsmall

Display
DisplaySize.small

Display
DisplaySize.medium

Display
DisplaySize.large

Columns

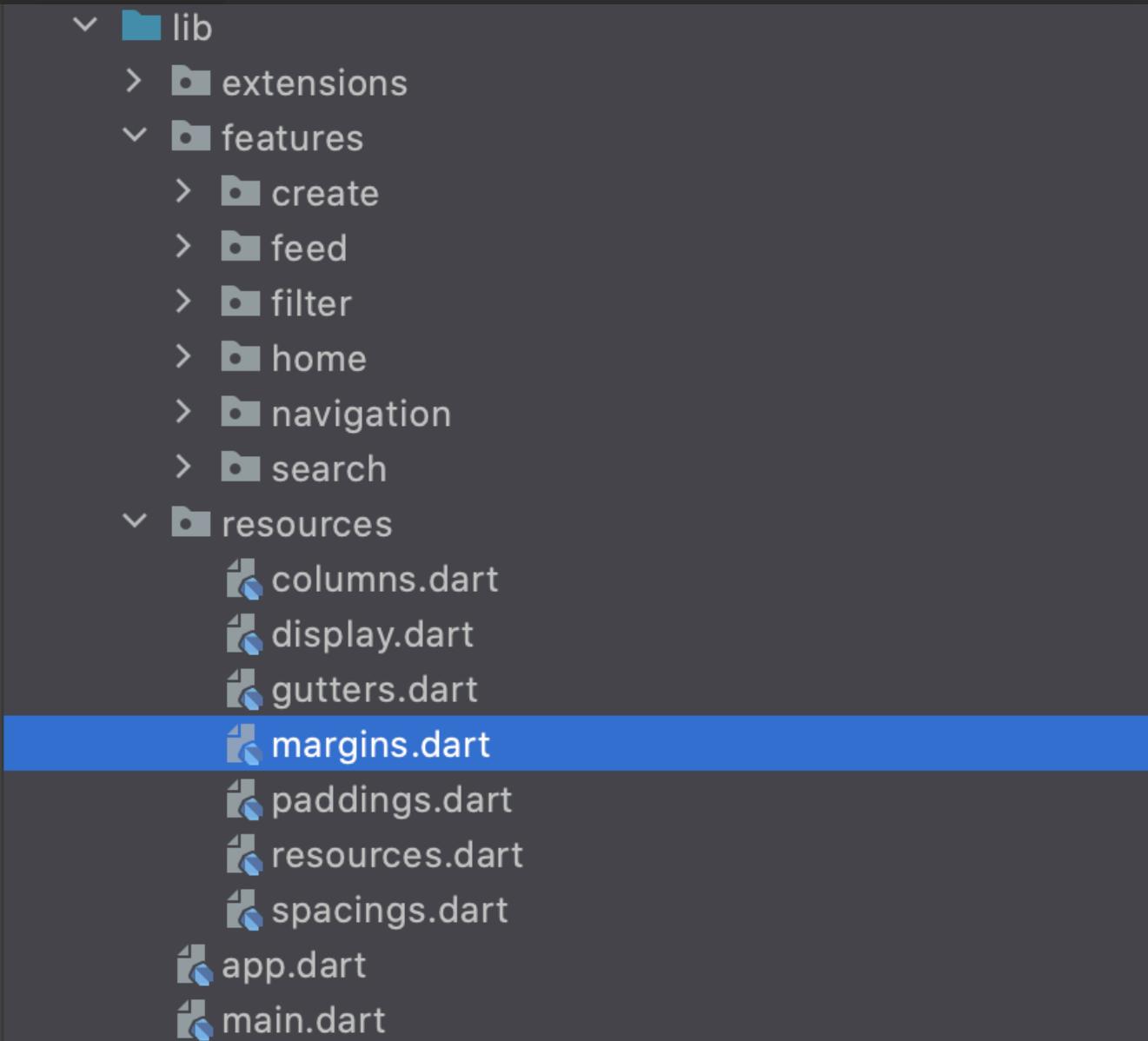


Gutters

3 Margins

4 Paddings

```
14  
15     class Margins {  
16         final Display display;  
17  
18         Margins({  
19             @required this.display,  
20         });  
21  
22         double get small {  
23             switch (display.size) {  
24                 case DisplaySize.xsmall:  
25                     return 8.0;  
26                 case DisplaySize.small:  
27                     return 8.0;  
28                 case DisplaySize.medium:  
29                     return 12.0;  
30                 case DisplaySize.large:  
31                     return 12.0;  
32                 case DisplaySize.xlarge:  
33                     return 16.0;  
34                 default:  
35                     return 0.0;  
36             }  
37         }  
    }
```



```
5
6 class Gutters {
7     final Display display;
8
9     Gutters({
10        @required this.display,
11    });
12
13     double get small {
14         switch (display.size) {
15             case DisplaySize.xsmall:
16                 return 8.0;
17             case DisplaySize.small:
18                 return 8.0;
19             case DisplaySize.medium:
20                 return 12.0;
21             case DisplaySize.large:
22                 return 12.0;
23             case DisplaySize.xlarge:
24                 return 16.0;
25             default:
26                 return 0.0;
27         }
28     }
29
30     double get medium {
31         switch (display.size) {
32             case DisplaySize.xsmall:
33                 return 16.0;
34             case DisplaySize.small:
35                 return 16.0;
36             case DisplaySize.medium:
37                 return 16.0;
38         }
39     }
40
41     double get large {
42         switch (display.size) {
43             case DisplaySize.xsmall:
44                 return 24.0;
45             case DisplaySize.small:
46                 return 24.0;
47             case DisplaySize.medium:
48                 return 24.0;
49             case DisplaySize.large:
50                 return 32.0;
51         }
52     }
53
54     double get xlarge {
55         switch (display.size) {
56             case DisplaySize.xsmall:
57                 return 32.0;
58             case DisplaySize.small:
59                 return 32.0;
60             case DisplaySize.medium:
61                 return 32.0;
62             case DisplaySize.large:
63                 return 48.0;
64         }
65     }
66
67     Gutters(
68        @required this.display,
69    );
70
71     double get small {
72         switch (display.size) {
73             case DisplaySize.xsmall:
74                 return 8.0;
75             case DisplaySize.small:
76                 return 8.0;
77             case DisplaySize.medium:
78                 return 12.0;
79             case DisplaySize.large:
80                 return 12.0;
81             case DisplaySize.xlarge:
82                 return 16.0;
83             default:
84                 return 0.0;
85         }
86     }
87
88     double get medium {
89         switch (display.size) {
90             case DisplaySize.xsmall:
91                 return 16.0;
92             case DisplaySize.small:
93                 return 16.0;
94             case DisplaySize.medium:
95                 return 16.0;
96             case DisplaySize.large:
97                 return 32.0;
98         }
99     }
100
101    double get large {
102        switch (display.size) {
103            case DisplaySize.xsmall:
104                return 24.0;
105            case DisplaySize.small:
106                return 24.0;
107            case DisplaySize.medium:
108                return 24.0;
109            case DisplaySize.large:
110                return 32.0;
111        }
112    }
113
114    double get xlarge {
115        switch (display.size) {
116            case DisplaySize.xsmall:
117                return 32.0;
118            case DisplaySize.small:
119                return 32.0;
120            case DisplaySize.medium:
121                return 32.0;
122            case DisplaySize.large:
123                return 48.0;
124        }
125    }
126
127    Gutters(
128        @required this.display,
129    );
130
131    double get small {
132        switch (display.size) {
133            case DisplaySize.xsmall:
134                return 8.0;
135            case DisplaySize.small:
136                return 8.0;
137            case DisplaySize.medium:
138                return 12.0;
139            case DisplaySize.large:
140                return 12.0;
141            case DisplaySize.xlarge:
142                return 16.0;
143            default:
144                return 0.0;
145        }
146    }
147
148    double get medium {
149        switch (display.size) {
150            case DisplaySize.xsmall:
151                return 16.0;
152            case DisplaySize.small:
153                return 16.0;
154            case DisplaySize.medium:
155                return 16.0;
156            case DisplaySize.large:
157                return 32.0;
158        }
159    }
160
161    double get large {
162        switch (display.size) {
163            case DisplaySize.xsmall:
164                return 24.0;
165            case DisplaySize.small:
166                return 24.0;
167            case DisplaySize.medium:
168                return 24.0;
169            case DisplaySize.large:
170                return 32.0;
171        }
172    }
173
174    double get xlarge {
175        switch (display.size) {
176            case DisplaySize.xsmall:
177                return 32.0;
178            case DisplaySize.small:
179                return 32.0;
180            case DisplaySize.medium:
181                return 32.0;
182            case DisplaySize.large:
183                return 48.0;
184        }
185    }
186
187    Paddings(
188        @required this.display,
189    );
190
191    double get small {
192        switch (display.size) {
193            case DisplaySize.xsmall:
194                return 8.0;
195            case DisplaySize.small:
196                return 8.0;
197            case DisplaySize.medium:
198                return 12.0;
199            case DisplaySize.large:
200                return 12.0;
201            case DisplaySize.xlarge:
202                return 16.0;
203            default:
204                return 0.0;
205        }
206    }
207
208    double get medium {
209        switch (display.size) {
210            case DisplaySize.xsmall:
211                return 16.0;
212            case DisplaySize.small:
213                return 16.0;
214            case DisplaySize.medium:
215                return 16.0;
216            case DisplaySize.large:
217                return 32.0;
218        }
219    }
220
221    double get large {
222        switch (display.size) {
223            case DisplaySize.xsmall:
224                return 24.0;
225            case DisplaySize.small:
226                return 24.0;
227            case DisplaySize.medium:
228                return 24.0;
229            case DisplaySize.large:
230                return 32.0;
231        }
232    }
233
234    double get xlarge {
235        switch (display.size) {
236            case DisplaySize.xsmall:
237                return 32.0;
238            case DisplaySize.small:
239                return 32.0;
240            case DisplaySize.medium:
241                return 32.0;
242            case DisplaySize.large:
243                return 48.0;
244        }
245    }
246
247    Paddings(
248        @required this.display,
249    );
250
251    double get small {
252        switch (display.size) {
253            case DisplaySize.xsmall:
254                return 8.0;
255            case DisplaySize.small:
256                return 8.0;
257            case DisplaySize.medium:
258                return 12.0;
259            case DisplaySize.large:
260                return 12.0;
261            case DisplaySize.xlarge:
262                return 16.0;
263            default:
264                return 0.0;
265        }
266    }
267
268    double get medium {
269        switch (display.size) {
270            case DisplaySize.xsmall:
271                return 16.0;
272            case DisplaySize.small:
273                return 16.0;
274            case DisplaySize.medium:
275                return 16.0;
276            case DisplaySize.large:
277                return 32.0;
278        }
279    }
280
281    double get large {
282        switch (display.size) {
283            case DisplaySize.xsmall:
284                return 24.0;
285            case DisplaySize.small:
286                return 24.0;
287            case DisplaySize.medium:
288                return 24.0;
289            case DisplaySize.large:
290                return 32.0;
291        }
292    }
293
294    double get xlarge {
295        switch (display.size) {
296            case DisplaySize.xsmall:
297                return 32.0;
298            case DisplaySize.small:
299                return 32.0;
300            case DisplaySize.medium:
301                return 32.0;
302            case DisplaySize.large:
303                return 48.0;
304        }
305    }
306
307    Columns(
308        @required this.display,
309    );
310
311    int get count {
312        switch (display.size) {
313            case DisplaySize.xsmall:
314                return 4;
315            case DisplaySize.small:
316                return 8;
317            case DisplaySize.medium:
318                return 12;
319            case DisplaySize.large:
320                return 12;
321            case DisplaySize.xlarge:
322                return 12;
323            default:
324                return 0;
325        }
326    }
327
328    @override
329    String toString() => '$count';
330
331 }
```

Paddings
small: 8
medium: 16
large: 32

Paddings
small: 8
medium: 16
large: 32

Paddings
small: 12
medium: 24
large: 48

Paddings
small: 12
medium: 24
large: 48

Gutters
small: 8
medium: 16
large: 32

Gutters
small: 8
medium: 16
large: 32

Gutters
small: 12
medium: 24
large: 48

Margins
small: 8
medium: 16
large: 32

Margins
small: 8
medium: 16
large: 32

Margins
small: 12
medium: 24
large: 48

Margins
small: 12
medium: 24
large: 48

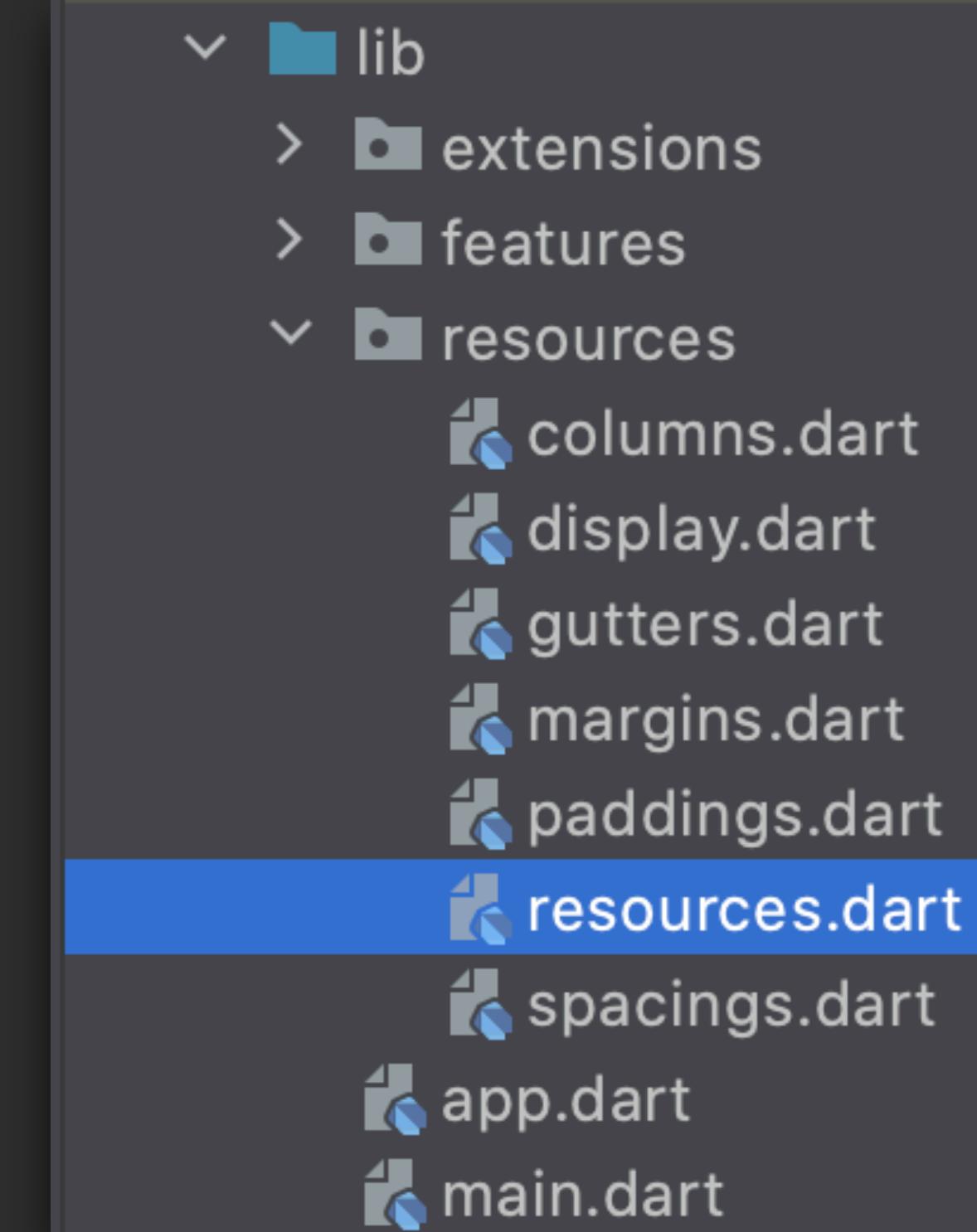
Columns
4

Columns
8

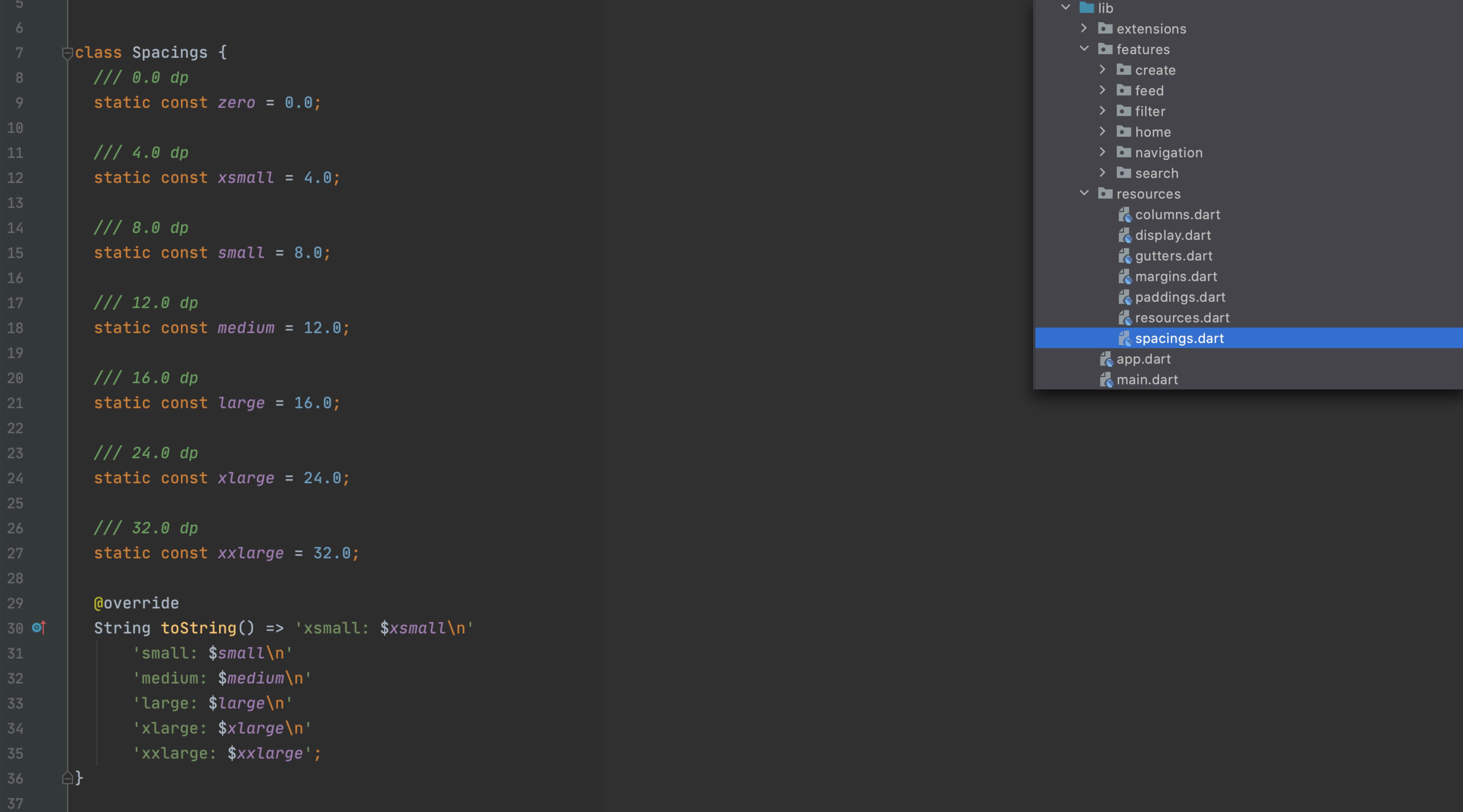
Columns
12

```
78  
79  
80  
81     extension BuildContextPaddings on BuildContext {  
82         Paddings get paddings => Paddings(display: display);  
83     }  
84  
85  
86     extension BuildContextMargins on BuildContext {  
87         Margins get margins => Margins(display: display);  
88     }  
89  
90  
91     extension BuildContextColumns on BuildContext {  
92         Columns get columns => Columns(display: display);  
93     }  
94  
95  
96     extension BuildContextGutter on BuildContext {  
97         Gutters get gutters => Gutters(display: display);  
98     }  
99
```

```
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12 export 'display.dart';  
13 export 'gutters.dart';  
14 export 'margins.dart';  
15 export 'paddings.dart';  
16 export 'spacings.dart';  
17 export 'columns.dart';  
18  
19  
20  
21  
22  
23  
24  
25  
26
```



```
5
6
7 class Spacings {
8     /// 0.0 dp
9     static const zero = 0.0;
10
11    /// 4.0 dp
12    static const xsmall = 4.0;
13
14    /// 8.0 dp
15    static const small = 8.0;
16
17    /// 12.0 dp
18    static const medium = 12.0;
19
20    /// 16.0 dp
21    static const large = 16.0;
22
23    /// 24.0 dp
24    static const xlarge = 24.0;
25
26    /// 32.0 dp
27    static const xxlarge = 32.0;
28
29    @override
30    String toString() => 'xsmall: $xsmall\n'
31        'small: $small\n'
32        'medium: $medium\n'
33        'large: $large\n'
34        'xlarge: $xlarge\n'
35        'xxlarge: $xxlarge';
36
37 }
```



The image shows a code editor interface with two main panes. The left pane displays a Dart code file named 'spacings.dart' with line numbers from 1 to 37. The right pane shows a file tree under a 'lib' folder. The 'spacings.dart' file is highlighted with a blue background in the tree view.

- lib
 - extensions
 - features
 - create
 - feed
 - filter
 - home
 - navigation
 - search
 - resources
 - columns.dart
 - display.dart
 - gutters.dart
 - margins.dart
 - paddings.dart
 - resources.dart
 - spacings.dart**
 - app.dart
 - main.dart

Flutter Demo

localhost:63835/#/

App Bar

Display
DisplaySize.xsmall

Spacings
xsmall: 4
small: 8
medium: 12
large: 16
xlarge: 24
xxlarge: 32

Paddings
small: 8
medium: 16
large: 32

Margins
small: 8
medium: 16
large: 32

Gutters
small: 8
medium: 16
large: 32

Columns
4

Flutter Demo

localhost:63835/#/

App Bar

Display
DisplaySize.medium

Spacings
xsmall: 4
small: 8
medium: 12
large: 16
xlarge: 24
xxlarge: 32

Paddings
small: 12
medium: 24
large: 48

Margins
small: 12
medium: 24
large: 48

Gutters
small: 12
medium: 24
large: 48

Columns
12

Categories

Category

Category

Category

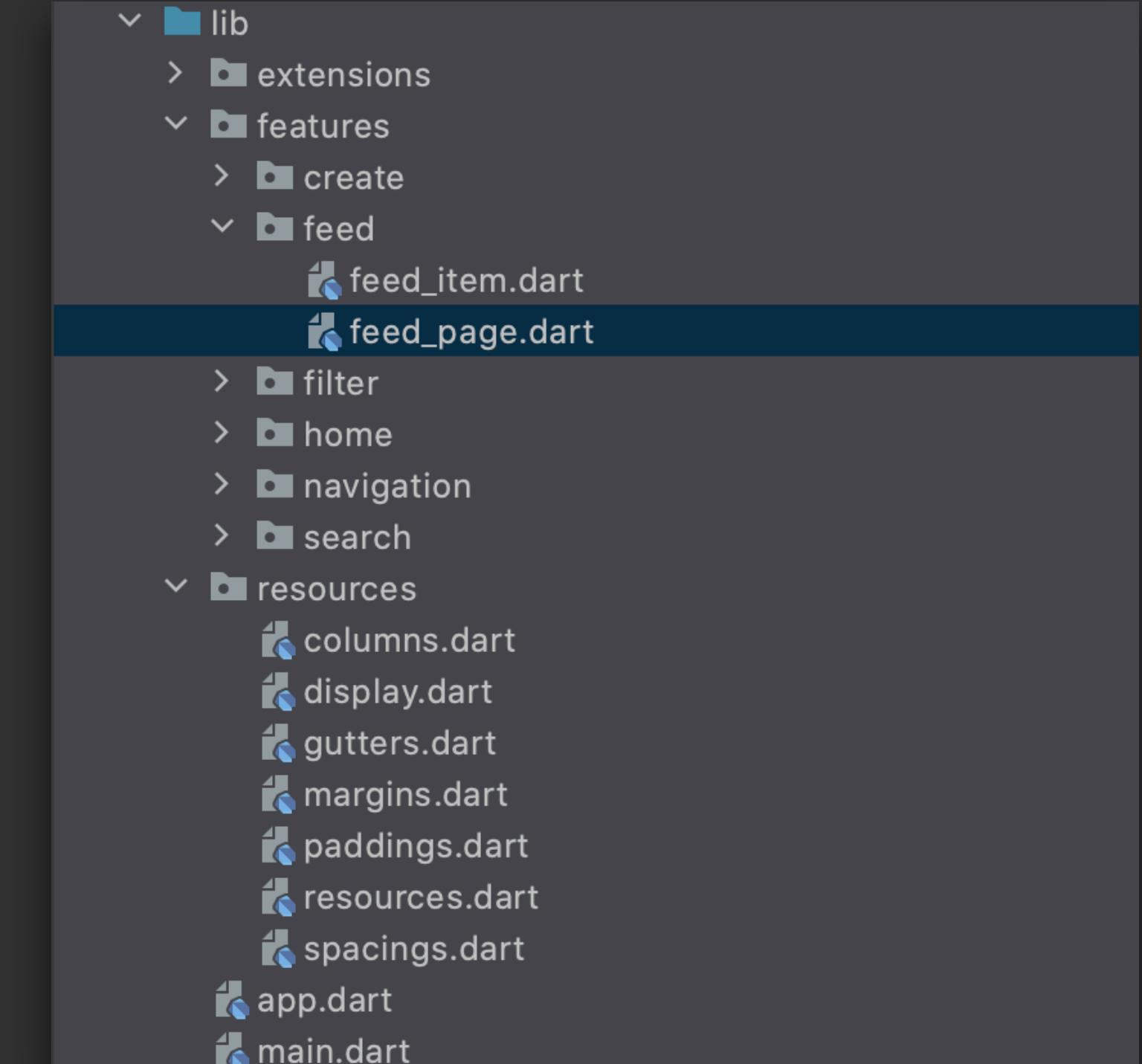
Category

Category

Category

Category

```
5 class FeedPage extends StatelessWidget {  
6     @override  
7     Widget build(BuildContext context) {  
8         return GridView.count(  
9             primary: false,  
10            padding: EdgeInsets.symmetric(  
11                vertical: context.margins.medium,  
12                horizontal: context.margins.medium + context.horizontalMarginAddition,  
13            ), // EdgeInsets.symmetric  
14            crossAxisSpacing: context.gutters.small,  
15            mainAxisSpacing: context.gutters.small,  
16            crossAxisCount: context.crossAxisCount,  
17            childAspectRatio: 3.0 / 4.0,  
18            children: <Widget>[  
19                FeedItem(  
20                    title: 'Display',  
21                    content: '${context.display.size}',  
22                ), // FeedItem  
23                FeedItem(  
24                    title: 'Spacings',  
25                    content: Spacings().toString(),  
26                ), // FeedItem  
27                FeedItem(  
28                    title: 'Paddings',  
29                    content: context.paddings.toString(),  
30                ), // FeedItem  
31                FeedItem(  
32                    title: 'Margins',  
33                    content: context.margins.toString(),  
34                ), // FeedItem  
35                FeedItem(  
36                    title: 'Gutters',  
37                    content: context.gutters.toString(),  
38                ), // FeedItem  
39                FeedItem(  
40                    title: 'Columns',  
41                ), // FeedItem
```



```
4  
5     class FeedPage extends StatelessWidget {  
6         @override  
7         Widget build(BuildContext context) {  
8             return GridView.count(  
9                 primary: false,  
10                padding: EdgeInsets.symmetric(  
11                    vertical: context.margins.medium,  
12                    horizontal: context.margins.medium + context.horizontalMarginAddition,  
13                ), // EdgeInsets.symmetric  
14                crossAxisSpacing: context.gutters.small,  
15                mainAxisSpacing: context.gutters.small,  
16                crossAxisCount: context.crossAxisCount,  
17                childAspectRatio: 3.0 / 4.0,  
18                children: <Widget>[  
19                    FeedItem(  
20                        title: 'Display',  
21                        content: '${context.display.size}',  
22                    ), // FeedItem  
23                    FeedItem(  
24                        title: 'Spacings',  
25                        content: Spacings().toString(),  
26                    ), // FeedItem  
27                    FeedItem(  
28                        title: 'Paddings',  
29                        content: context.paddings.toString(),  
30                    ), // FeedItem  
31                    FeedItem(  
32                        title: 'Margins',  
33                        content: context.margins.toString(),  
34                    ), // FeedItem  
35                    FeedItem(  
36                        title: 'Gutters',  
37                        content: context.gutters.toString(),  
38                    ), // FeedItem  
39                ]  
40            );  
41        }  
42    }  
43  
44    extension _FeedPageSpecs on BuildContext {  
45        double get horizontalMarginAddition {  
46            switch (display.size) {  
47                case DisplaySize.xsmall:  
48                case DisplaySize.small:  
49                    return 0.0;  
50                case DisplaySize.medium:  
51                    return 62.0;  
52                case DisplaySize.large:  
53                case DisplaySize.xlarge:  
54                    return 16.0;  
55                default:  
56                    return 0.0;  
57            }  
58        }  
59  
60        int get crossAxisCount {  
61            switch (display.size) {  
62                case DisplaySize.xsmall:  
63                    return 2;  
64                case DisplaySize.small:  
65                    return 3;  
66                case DisplaySize.medium:  
67                    return 3;  
68                case DisplaySize.large:  
69                    return 4;  
70                case DisplaySize.xlarge:  
71                    return 5;  
72                default:  
73                    return 1;  
74            }  
75        }  
76    }  
77  
78    extension _FeedPageSpecs on BuildContext {  
79        double get verticalMarginAddition {  
80            switch (display.size) {  
81                case DisplaySize.xsmall:  
82                case DisplaySize.small:  
83                    return 0.0;  
84                case DisplaySize.medium:  
85                    return 16.0;  
86                case DisplaySize.large:  
87                    return 32.0;  
88                case DisplaySize.xlarge:  
89                    return 48.0;  
90                default:  
91                    return 0.0;  
92            }  
93        }  
94    }  
95  
96    extension _FeedPageSpecs on BuildContext {  
97        double get mainAxisSpacing {  
98            switch (display.size) {  
99                case DisplaySize.xsmall:  
100               case DisplaySize.small:  
101                   return 0.0;  
102               case DisplaySize.medium:  
103                   return 16.0;  
104               case DisplaySize.large:  
105                   return 32.0;  
106               case DisplaySize.xlarge:  
107                   return 48.0;  
108               default:  
109                   return 0.0;  
110            }  
111        }  
112    }  
113  
114    extension _FeedPageSpecs on BuildContext {  
115        double get crossAxisSpacing {  
116            switch (display.size) {  
117                case DisplaySize.xsmall:  
118                case DisplaySize.small:  
119                    return 0.0;  
120                case DisplaySize.medium:  
121                    return 16.0;  
122                case DisplaySize.large:  
123                    return 32.0;  
124                case DisplaySize.xlarge:  
125                    return 48.0;  
126                default:  
127                    return 0.0;  
128            }  
129        }  
130    }  
131  
132    extension _FeedPageSpecs on BuildContext {  
133        double get gutterWidth {  
134            switch (display.size) {  
135                case DisplaySize.xsmall:  
136                case DisplaySize.small:  
137                    return 0.0;  
138                case DisplaySize.medium:  
139                    return 16.0;  
140                case DisplaySize.large:  
141                    return 32.0;  
142                case DisplaySize.xlarge:  
143                    return 48.0;  
144                default:  
145                    return 0.0;  
146            }  
147        }  
148    }  
149  
150    extension _FeedPageSpecs on BuildContext {  
151        double get paddingWidth {  
152            switch (display.size) {  
153                case DisplaySize.xsmall:  
154                case DisplaySize.small:  
155                    return 0.0;  
156                case DisplaySize.medium:  
157                    return 16.0;  
158                case DisplaySize.large:  
159                    return 32.0;  
160                case DisplaySize.xlarge:  
161                    return 48.0;  
162                default:  
163                    return 0.0;  
164            }  
165        }  
166    }  
167  
168    extension _FeedPageSpecs on BuildContext {  
169        double get paddingHeight {  
170            switch (display.size) {  
171                case DisplaySize.xsmall:  
172                case DisplaySize.small:  
173                    return 0.0;  
174                case DisplaySize.medium:  
175                    return 16.0;  
176                case DisplaySize.large:  
177                    return 32.0;  
178                case DisplaySize.xlarge:  
179                    return 48.0;  
180                default:  
181                    return 0.0;  
182            }  
183        }  
184    }  
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186    extension _FeedPageSpecs on BuildContext {  
187        double get paddingVertical {  
188            switch (display.size) {  
189                case DisplaySize.xsmall:  
190                case DisplaySize.small:  
191                    return 0.0;  
192                case DisplaySize.medium:  
193                    return 16.0;  
194                case DisplaySize.large:  
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216                default:  
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251                    return 48.0;  
252                default:  
253                    return 0.0;  
254            }  
255        }  
256    }  
257  
258    extension _FeedPageSpecs on BuildContext {  
259        double get gutterWidth {  
260            switch (display.size) {  
261                case DisplaySize.xsmall:  
262                case DisplaySize.small:  
263                    return 0.0;  
264                case DisplaySize.medium:  
265                    return 16.0;  
266                case DisplaySize.large:  
267                    return 32.0;  
268                case DisplaySize.xlarge:  
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341                    return 48.0;  
342                default:  
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344            }  
345        }  
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349        double get marginVertical {  
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359                    return 48.0;  
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447                    return 32.0;  
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502                case DisplaySize.xlarge:  
503                    return 48.0;  
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521                    return 48.0;  
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528    extension _FeedPageSpecs on BuildContext {  
529        double get paddingWidth {  
530            switch (display.size) {  
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537                    return 32.0;  
538                case DisplaySize.xlarge:  
539                    return 48.0;  
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573                    return 32.0;  
574                case DisplaySize.xlarge:  
575                    return 48.0;  
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588                case DisplaySize.medium:  
589                    return 16.0;  
590                case DisplaySize.large:  
591                    return 32.0;  
592                case DisplaySize.xlarge:  
593                    return 48.0;  
594                default:  
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607                    return 16.0;  
608                case DisplaySize.large:  
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610                case DisplaySize.xlarge:  
611                    return 48.0;  
612                default:  
613                    return 0.0;  
614            }  
615        }  
616    }  
617  
618    extension _FeedPageSpecs on BuildContext {  
619        double get marginHorizontal {  
620            switch (display.size) {  
621                case DisplaySize.xsmall:  
622                case DisplaySize.small:  
623                    return 0.0;  
624                case DisplaySize.medium:  
625                    return 16.0;  
626                case DisplaySize.large:  
627                    return 32.0;  
628                case DisplaySize.xlarge:  
629                    return 48.0;  
630                default:  
631                    return 0.0;  
632            }  
633        }  
634    }  
635  
636    extension _FeedPageSpecs on BuildContext {  
637        double get gutterWidth {  
638            switch (display.size) {  
639                case DisplaySize.xsmall:  
640                case DisplaySize.small:  
641                    return 0.0;  
642                case DisplaySize.medium:  
643                    return 16.0;  
644                case DisplaySize.large:  
645                    return 32.0;  
646                case DisplaySize.xlarge:  
647                    return 48.0;  
648                default:  
649                    return 0.0;  
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658                case DisplaySize.small:  
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660                case DisplaySize.medium:  
661                    return 16.0;  
662                case DisplaySize.large:  
663                    return 32.0;  
664                case DisplaySize.xlarge:  
665                    return 48.0;  
666                default:  
667                    return 0.0;  
668            }  
669        }  
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676                case DisplaySize.small:  
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681                    return 32.0;  
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683                    return 48.0;  
684                default:  
685                    return 0.0;  
686            }  
687        }  
688    }  
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690    extension _FeedPageSpecs on BuildContext {  
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692            switch (display.size) {  
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694                case DisplaySize.small:  
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696                case DisplaySize.medium:  
697                    return 16.0;  
698                case DisplaySize.large:  
699                    return 32.0;  
700                case DisplaySize.xlarge:  
701                    return 48.0;  
702                default:  
703                    return 0.0;  
704            }  
705        }  
706    }  
707  
708    extension _FeedPageSpecs on BuildContext {  
709        double get paddingHorizontal {  
710            switch (display.size) {  
711                case DisplaySize.xsmall:  
71
```

Display
DisplaySize.xsmall

Spacings
xsmall: 4
small: 8
medium: 12
large: 16
xlarge: 24
xxlarge: 32

Paddings
small: 8
medium: 16
large: 32

Margins
small: 8
medium: 16
large: 32

Gutters
small: 8
medium: 16
large: 32

Columns
4

Display
DisplaySize.small

Spacings
xsmall: 4
small: 8
medium: 12
large: 16
xlarge: 24
xxlarge: 32

Paddings
small: 8
medium: 16
large: 32

Margins
small: 8
medium: 16
large: 32

Gutters
small: 8
medium: 16
large: 32

Columns
8

Display
DisplaySize.medium

Spacings
xsmall: 4
small: 8
medium: 12
large: 16
xlarge: 24
xxlarge: 32

Paddings
small: 12
medium: 24
large: 48

Margins
small: 12
medium: 24
large: 48

Gutters
small: 12
medium: 24
large: 48

Columns
12

Display
DisplaySize.large

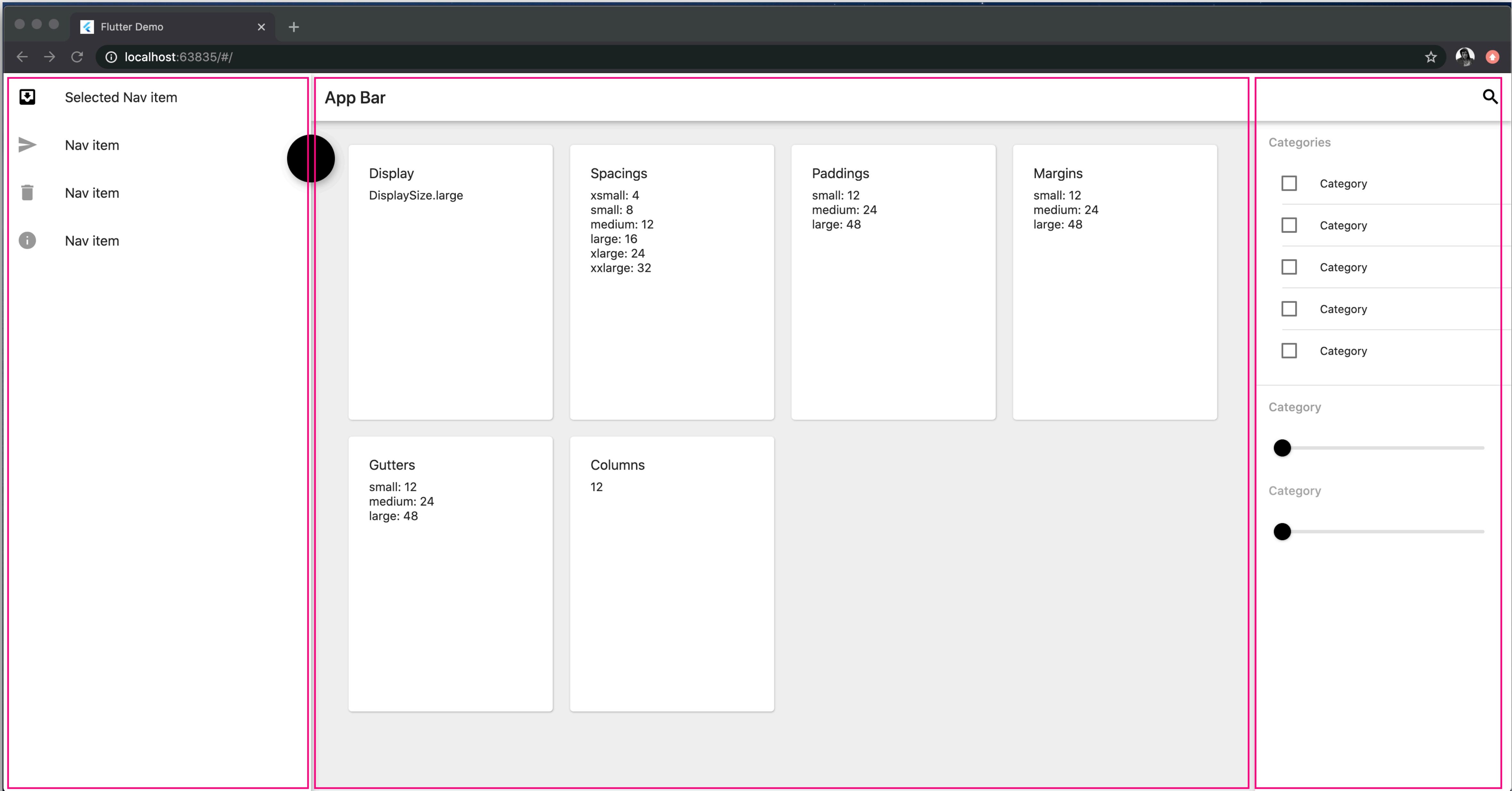
Spacings
xsmall: 4
small: 8
medium: 12
large: 16
xlarge: 24
xxlarge: 32

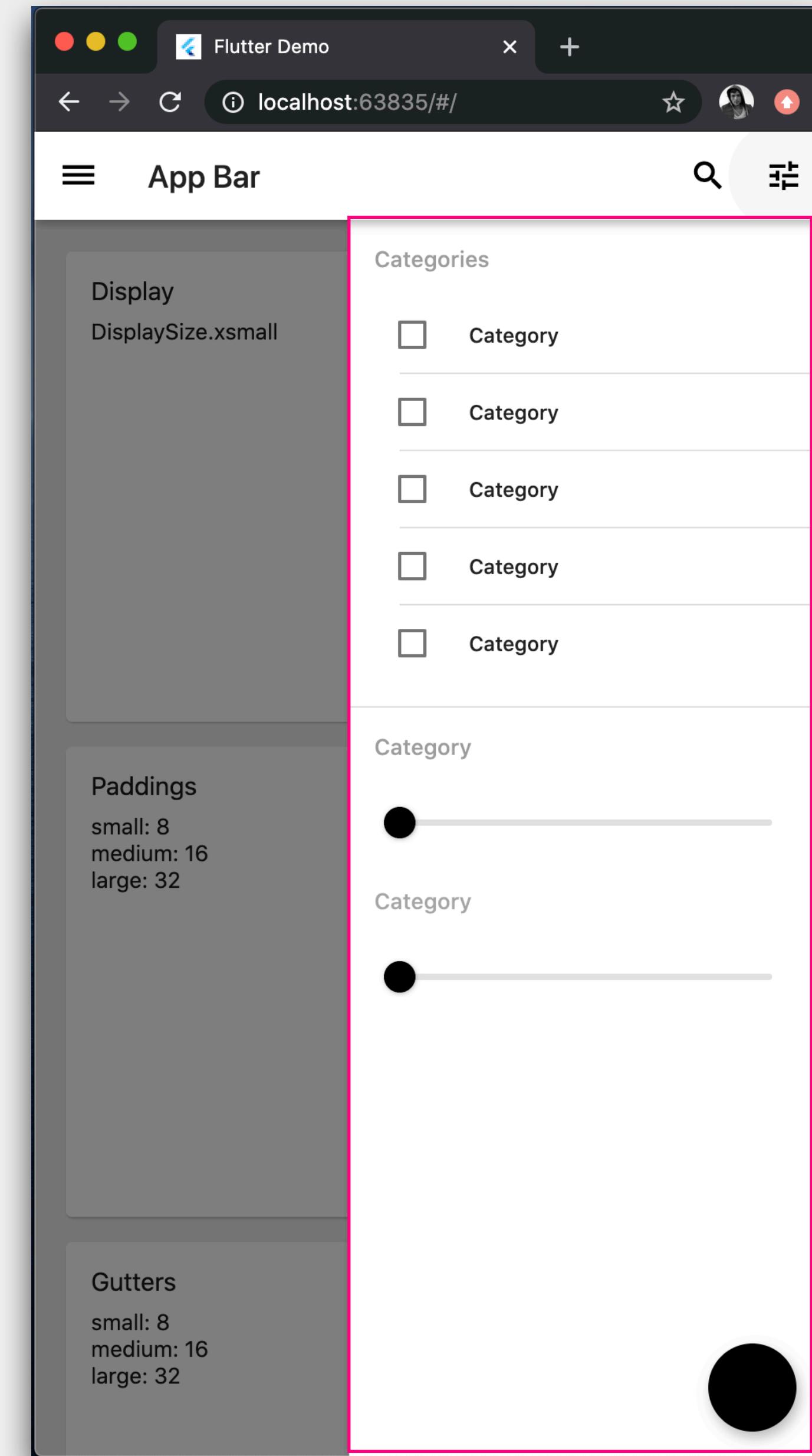
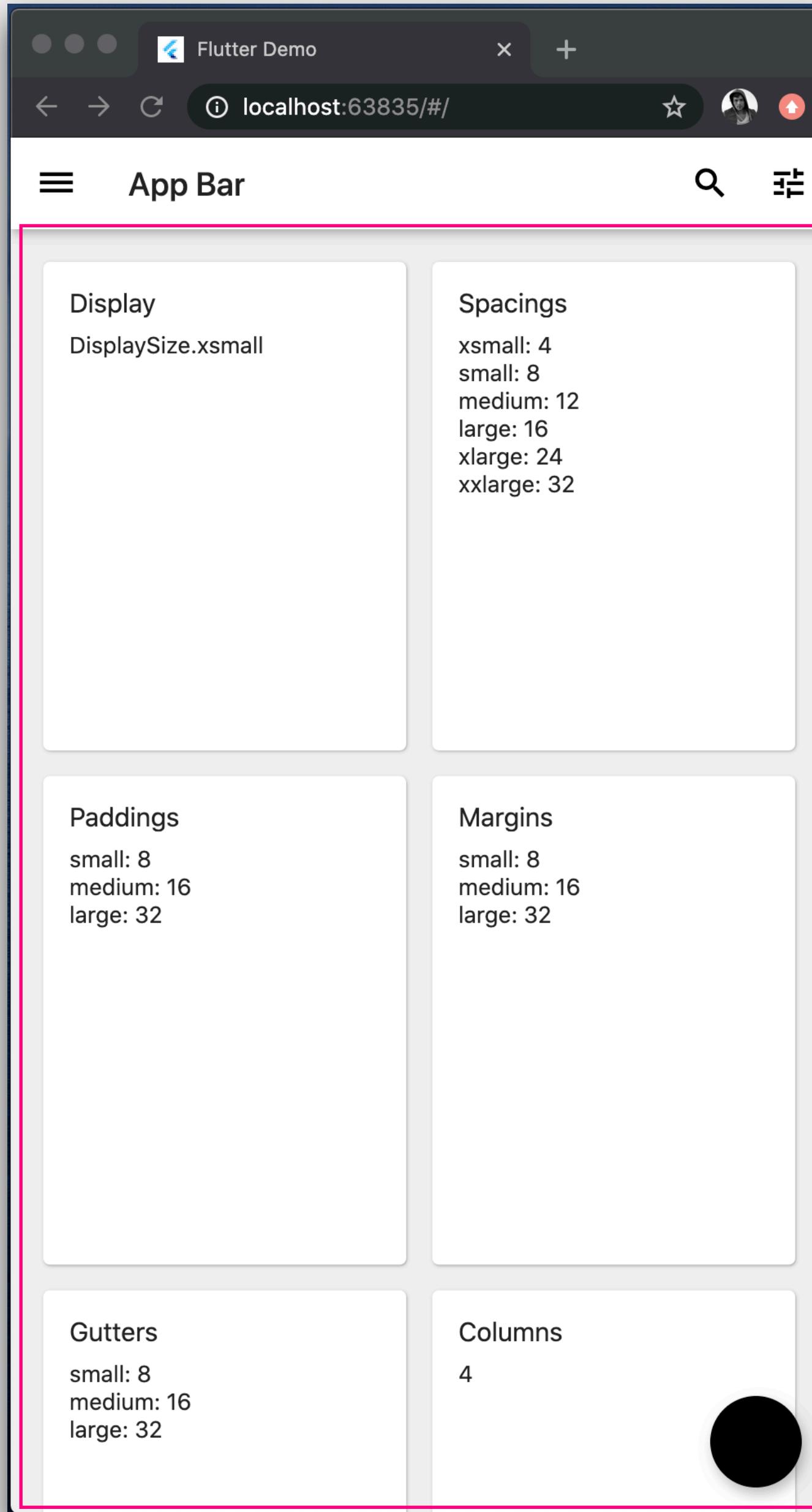
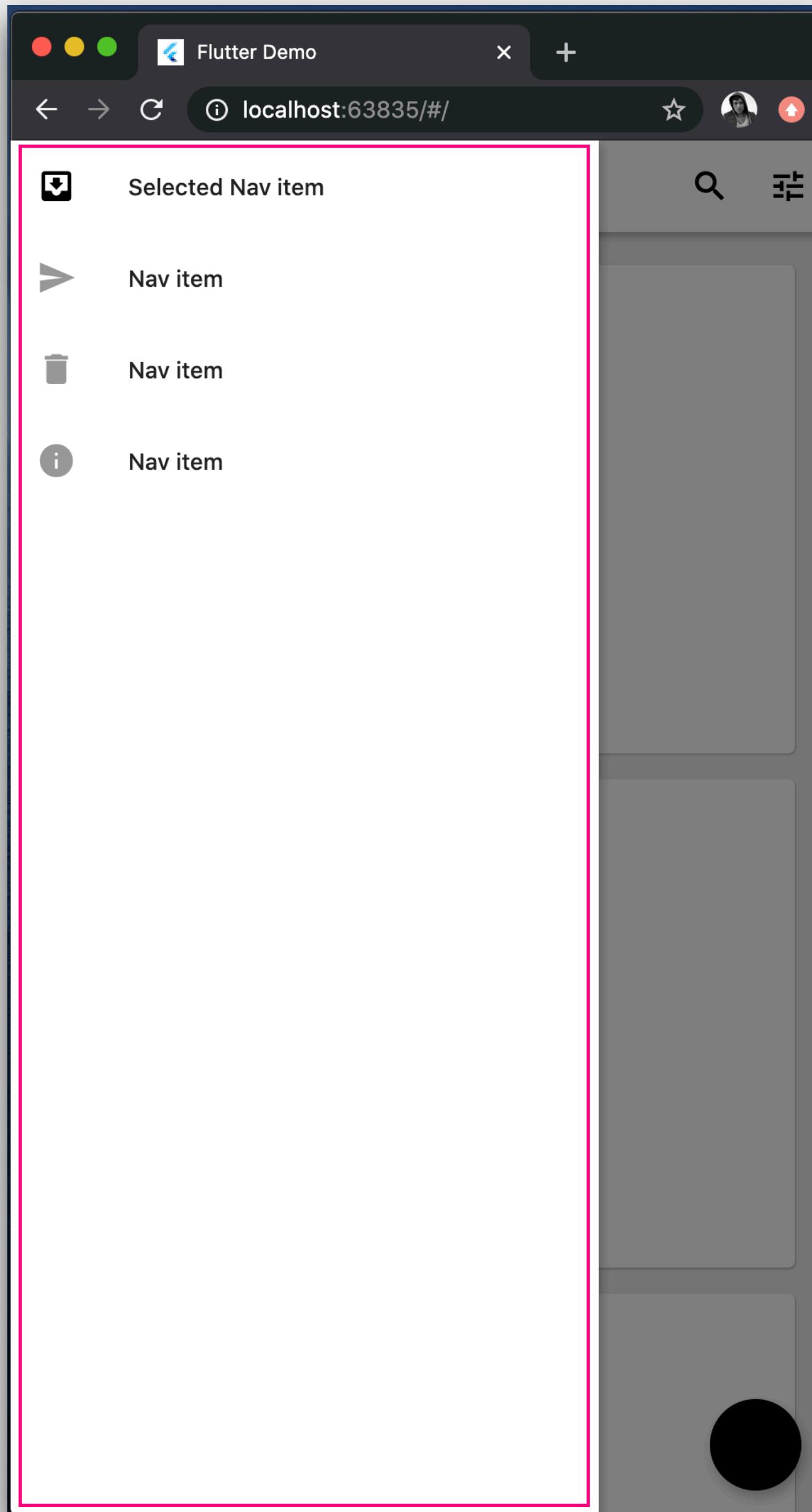
Paddings
small: 12
medium: 24
large: 48

Margins
small: 12
medium: 24
large: 48

Gutters
small: 12
medium: 24
large: 48

Columns
12





Flutter Demo X +

localhost:63835/#/

Selected Nav item

App Bar

Display

DisplaySize.large

Spacings

xsmall: 4
small: 8
medium: 12
large: 16
xlarge: 24
xxlarge: 32

Paddings

small: 12
medium: 24
large: 48

Margins

small: 12
medium: 24
large: 48

Categories

Category

Category

Category

Category

Category

Gutters

small: 12
medium: 24
large: 48

Columns

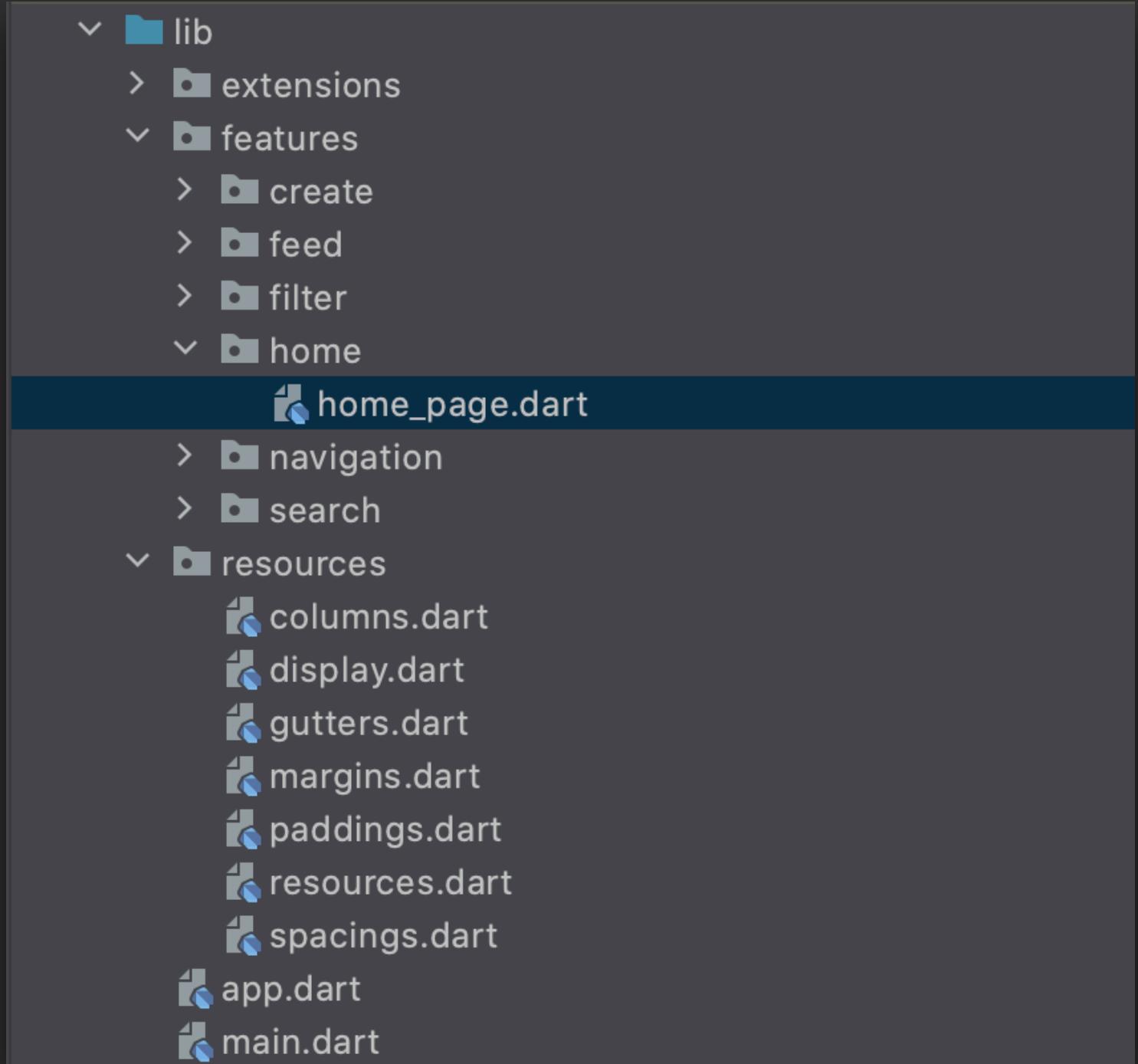
12

Category

Category

This screenshot shows a Flutter application interface. The top bar includes the title 'Flutter Demo' and the URL 'localhost:63835/#/'. A sidebar on the left contains four items: 'Selected Nav item' (with a downward arrow icon), 'Nav item' (with a right arrow icon), 'Nav item' (with a trash bin icon), and 'Nav item' (with an info icon). The main content area has a pink border and contains several cards. One card is titled 'App Bar' and includes a large black circular icon. Other cards show 'Display' (with 'DisplaySize.large'), 'Spacings' (listing xsmall, small, medium, large, xlarge, xxlarge values), 'Paddings' (listing small, medium, large values), 'Margins' (listing small, medium, large values), 'Gutters' (listing small, medium, large values), and 'Columns' (listing 12). To the right of the cards is a sidebar with sections for 'Categories' (listing five categories) and scrollable content labeled 'Category'.

```
24  ↗ Widget build(BuildContext context) {  
25    return Stack(  
26      children: [  
27        Row(  
28          children: [  
29            if (!context.showNavigationAsDrawer)  
30              SizedBox(width: _HomePageSpecs.navigationPageWidth),  
31            Expanded(  
32              child: Scaffold(  
33                key: _homeScaffoldKey,  
34                appBar: AppBar(...), // AppBar  
35                body: Scaffold(  
36                  key: _feedScaffoldKey,  
37                  endDrawer: context.showFilterAsDrawer ? filterDrawer : null,  
38                  body: Row(  
39                    children: [  
40                      Expanded(child: FeedPage()),  
41                      if (!context.showFilterAsDrawer) filterDrawer,  
42                      ],  
43                    ), // Row  
44                  ), // Scaffold  
45                  drawer:  
46                    context.showNavigationAsDrawer ? navigationDrawer : null,  
47                    ), // Scaffold  
48                    ), // Expanded  
49                    ],  
50                    ), // Row  
51                    if (!context.showNavigationAsDrawer) navigationDrawer,  
52                    Align(...) // Align  
53                    ],  
54                    ); // Stack
```



```
24  Widget build(BuildContext context) {  
25    return Stack(  
26      children: [  
27        Row(  
28          children: [  
29            if (!context.showNavigationAsDrawer)  
30              SizedBox(width: _HomePageSpecs.navigationPageWidth),  
31            Expanded(  
32              child: Scaffold(  
33                key: _homeScaffoldKey,  
34                appBar: AppBar(...), // AppBar  
35                body: Scaffold(  
36                  key: _feedScaffoldKey,  
37                  endDrawer: context.showFilterAsDrawer ? filterDrawer : null,  
38                  body: Row(  
39                    children: [  
40                      Expanded(child: FeedPage()),  
41                      if (!context.showFilterAsDrawer) filterDrawer,  
42                      ],  
43                    ), // Row  
44                  ), // Scaffold  
45                  drawer:  
46                    context.showNavigationAsDrawer ? navigationDrawer : null,  
47                    ), // Scaffold  
48                    ), // Expanded  
49                    ],  
50                    ), // Row  
51                    if (!context.showNavigationAsDrawer) navigationDrawer,  
52                    Align(...) // Align  
53                    ],  
54                    ); // Stack  
55      ); // Stack  
56    ); // Stack  
57  ); // Stack  
58  ); // Stack  
59  ); // Stack  
60  ); // Stack  
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79  ); // Stack  
80  ); // Stack  
81  ); // Stack  
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88  ); // Stack  
89  ); // Stack  
90  ); // Stack  
91  ); // Stack  
92  ); // Stack  
93  ); // Stack  
94  ); // Stack  
95  ); // Stack  
96  ); // Stack  
97  ); // Stack  
98  ); // Stack  
99  ); // Stack  
100 extension _HomePageSpecs on BuildContext {  
101   static const navigationPageWidth = 360.0;  
102   static const filterPageWidth = 300.0;  
103  
104   bool get showNavigationAsDrawer {  
105     return [  
106       DisplaySize.xsmall,  
107       DisplaySize.small,  
108       DisplaySize.medium,  
109     ].contains(display.size);  
110   }  
111  
112   bool get showFilterAsDrawer {  
113     return [  
114       DisplaySize.xsmall,  
115       DisplaySize.small,  
116     ].contains(display.size);  
117   }  
118  
119   Alignment get createButtonAlignment {  
120     if ([  
121       DisplaySize.xsmall,  
122       DisplaySize.small,  
123     ].contains(display.size)) {  
124       return Alignment.bottomRight;  
125     } else {  
126       return Alignment.topLeft;  
127     }  
128   }  
129 }  
130 }  
131 }  
132 }  
133 }  
134 }  
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```

Selected Nav item Nav item Nav item Nav item

App Bar



Display

DisplaySize.large

Spacings

xsmall: 4
small: 8
medium: 12
large: 16
xlarge: 24
xxlarge: 32

Paddings

small: 12
medium: 24
large: 48

Margins

small: 12
medium: 24
large: 48

Gutters

small: 12
medium: 24
large: 48

Columns

12

Categories

 Category Category Category Category Category

Category

Category

Flutter Demo x +

localhost:63835/#/

App Bar

Display

DisplaySize.xsmall

Spacings

xsmall: 4
small: 8
medium: 12
large: 16
xlarge: 24
xxlarge: 32

Paddings

small: 8
medium: 16
large: 32

Margins

small: 8
medium: 16
large: 32

Gutters

small: 8
medium: 16
large: 32

Columns

4

Flutter Demo x +

localhost:63835/#/

App Bar

Display

DisplaySize.medium

Spacings

xsmall: 4
small: 8
medium: 12
large: 16
xlarge: 24
xxlarge: 32

Paddings

small: 12
medium: 24
large: 48

Categories

Category

Category

Category

Flutter Demo x +

localhost:63835/#/

App Bar

Selected Nav item

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Display

DisplaySize.large

Spacings

xsmall: 4
small: 8
medium: 12
large: 16
xlarge: 24
xxlarge: 32

Paddings

small: 12
medium: 24
large: 48

Margins

small: 12
medium: 24
large: 48

Categories

Category

Category

Category

Category

Category

Category

Category

```
46     children: [
47         Expanded(child: FeedPage()),
48         if (!context.showFilterAsDrawer) filterDrawer,
49         ],
50     ), // Row
51     ), // Scaffold
52     drawer:
53         context.showNavigationAsDrawer ? navigationDrawer : null,
54     ), // Scaffold
55     ), // Expanded
56     ],
57     ), // Row
58     if (!context.showNavigationAsDrawer) navigationDrawer,
59     Align(
60         alignment: context.createButtonAlignment,
61         child: Padding(
62             padding: EdgeInsets.only(
63                 top: context.createButtonTop,
64                 left: context.createButtonLeft,
65                 right: Spacings.large,
66                 bottom: Spacings.large,
67             ), // EdgeInsets.only
68             child: CreateButton(),
69         ), // Padding
70     ), // Align
71     ],
72 ); // Stack
73 }
```

```
125     Alignment get createButtonAlignment {
126         if ([
127             DisplaySize.xsmall,
128             DisplaySize.small,
129         ].contains(display.size)) {
130             return Alignment.bottomRight;
131         } else {
132             return Alignment.topLeft;
133         }
134     }
135
136     double get createButtonTop {
137         if ([
138             DisplaySize.xsmall,
139             DisplaySize.small,
140         ].contains(display.size)) {
141             return 0.0;
142         } else {
143             return 56.0 + 16.0;
144         }
145     }
146
147     double get createButtonLeft {
148         switch (display.size) {
149             case DisplaySize.xsmall:
150             case DisplaySize.small:
151                 return 0.0;
152             case DisplaySize.medium:
153                 return 16.0;
154             case DisplaySize.large:
155             case DisplaySize.xlarge:
156                 return navigationPageWidth - (56.0 / 2);
157             default:
158                 return 0.0;
159     }
```

Selected Nav item Nav item Nav item Nav item

App Bar



Display

DisplaySize.large

Spacings

xsmall: 4
small: 8
medium: 12
large: 16
xlarge: 24
xxlarge: 32

Paddings

small: 12
medium: 24
large: 48

Margins

small: 12
medium: 24
large: 48

Gutters

small: 12
medium: 24
large: 48

Columns

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Categories

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Category

Category