

# Responsive Design

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WEEK 7

## RESPONSIVE DESIGN



### Device / Viewport

<b>Desktop HD</b>	1440px
<b>Desktop</b>	960px
<b>Tablet (horizontal)</b>	1024px
<b>Tablet (vertical)</b>	768px
<b>Mobile</b>	480px*

\* can vary a bit from phone to phone

## RESPONSIVE DESIGN

**Resolution / width of device**

Common Device Widths

[From CSS-Tricks >>](#)

Developer Tools!

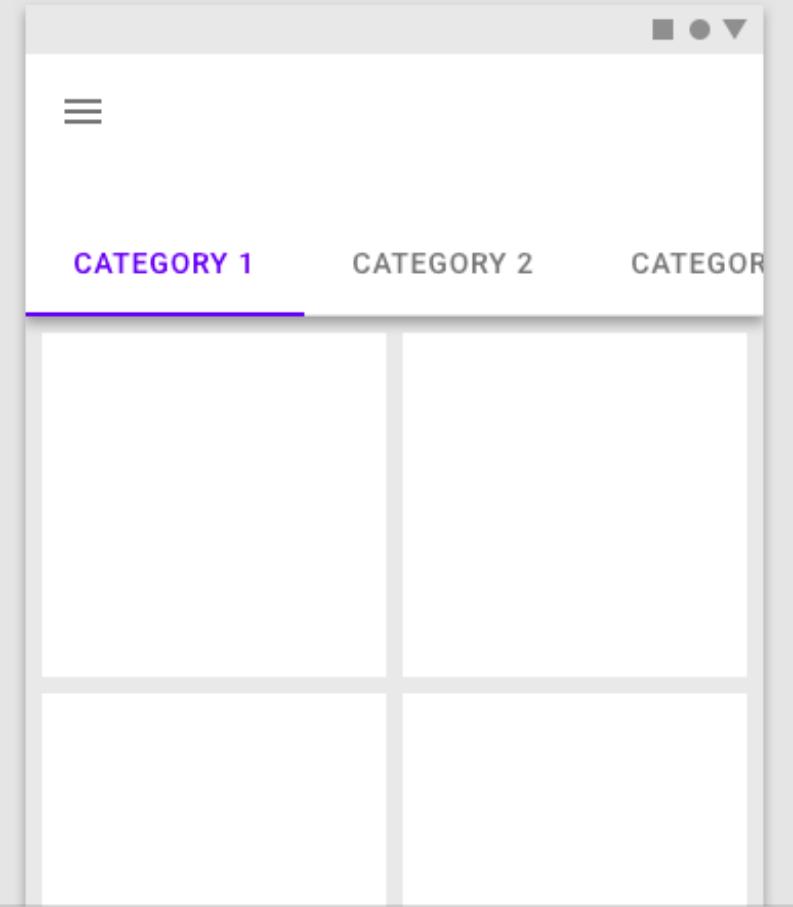
<http://viewportsizes.com/mine/>

# RESPONSIVE GRID

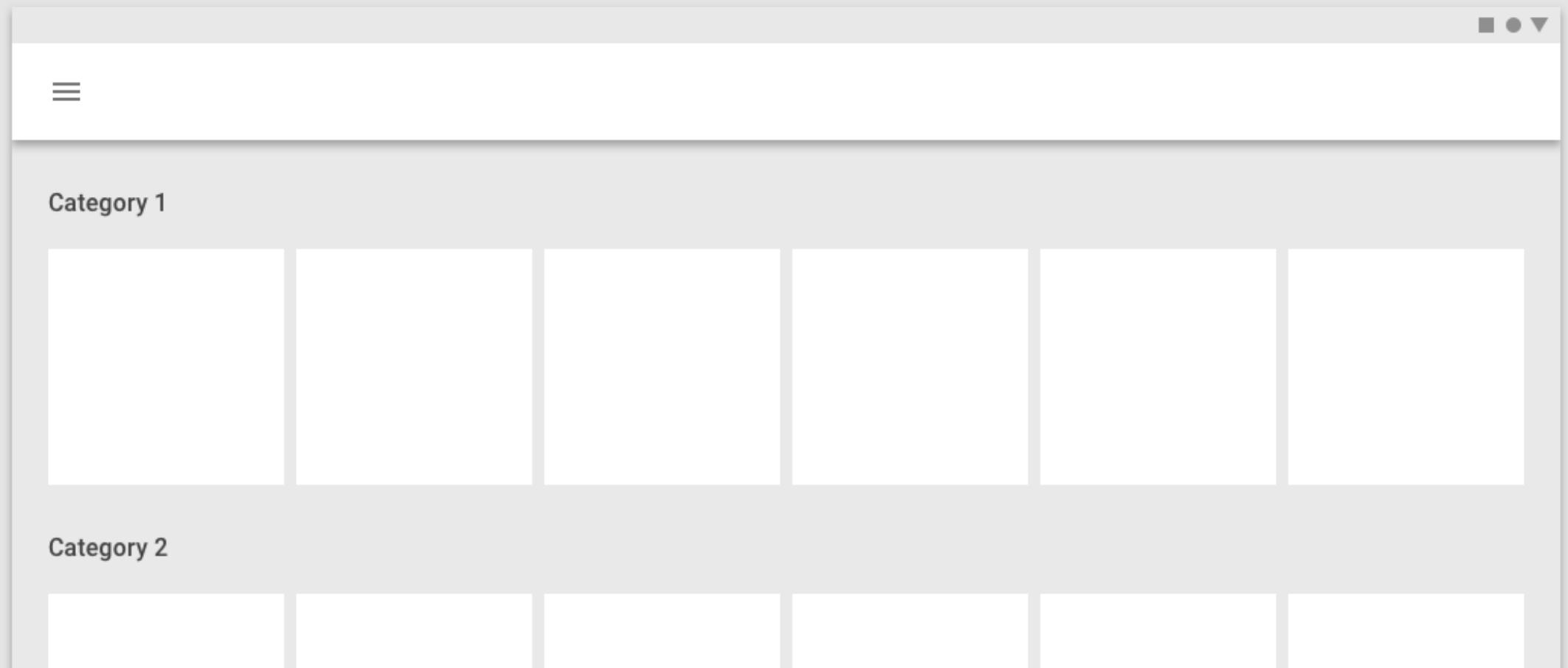


# RESPONSIVE PATTERNS

1

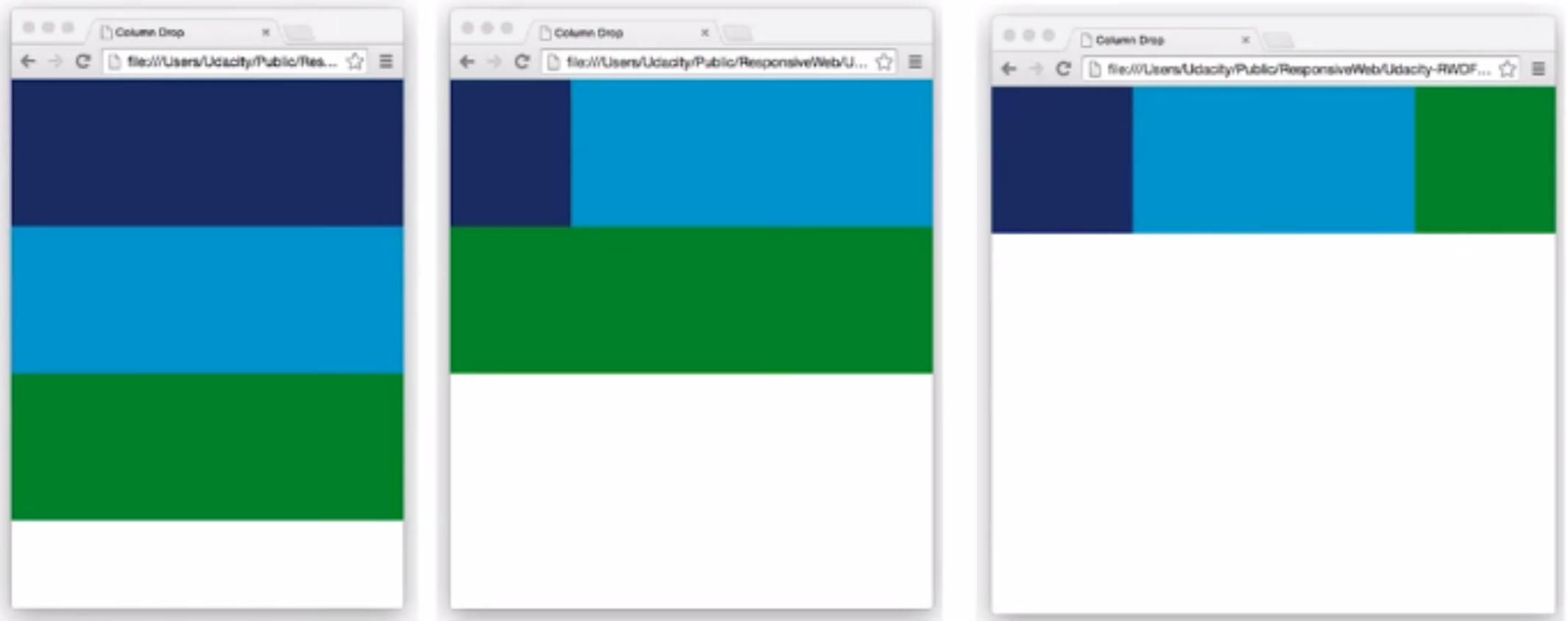


2



## RESPONSIVE PATTERNS

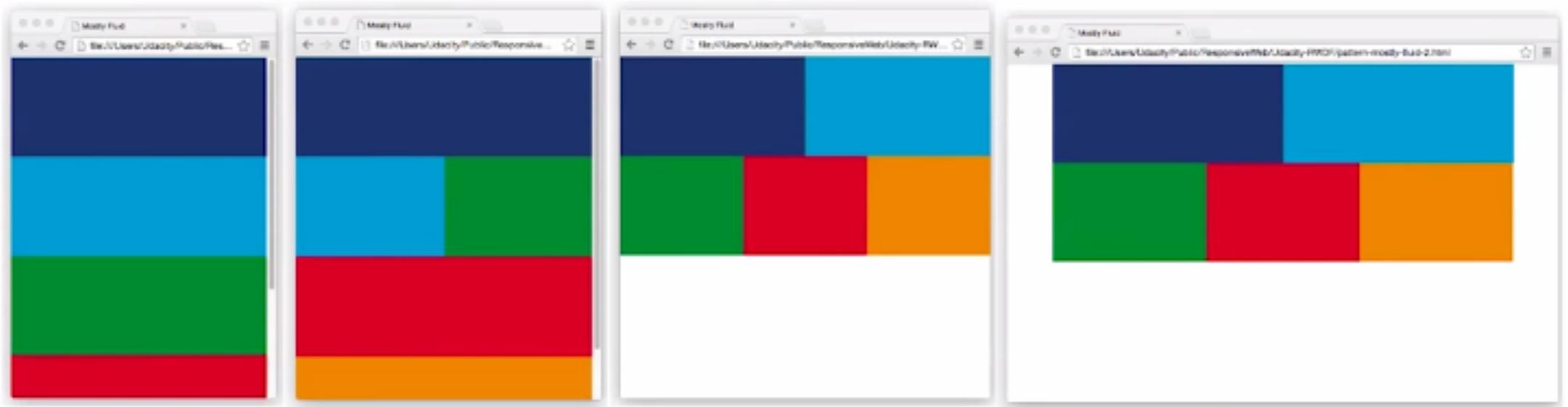
### Column Drop



At narrowst viewport, each element  
simply stacks vertically [\[>>\]](#)

## RESPONSIVE PATTERNS

### Mostly fluid

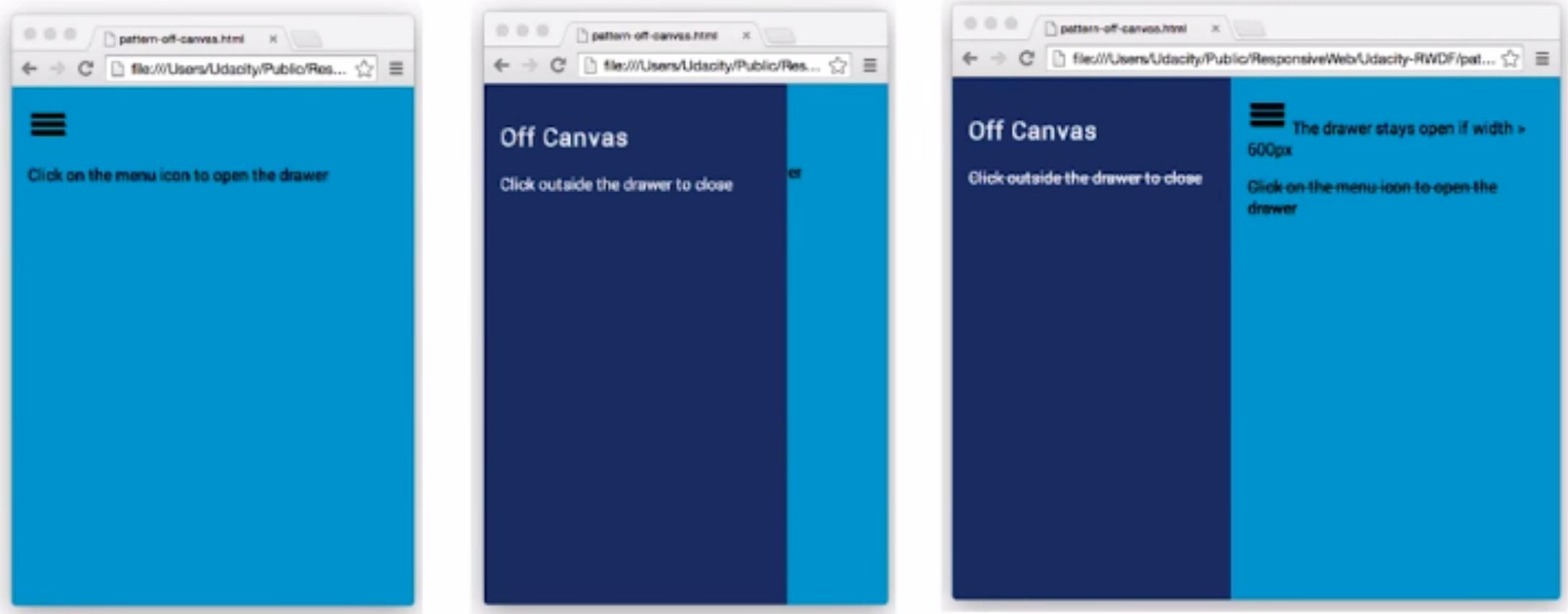


As the layout gets wider, the grid pattern starts to appear.

Once layout hits its widest viewport,  
margins are added to the left and right,  
instead of expanding things out [\[ >> \]](#)

## RESPONSIVE PATTERNS

### Off-canvas



Places less frequently used content like navigation, app-menus off screen.

on smaller the user clicks on the hamburger icon [\[>>\]](#)

## RESPONSIVE PATTERNS

# Responsive Patterns

A collection of patterns and modules for responsive designs.

### Layout

#### Reflowing Layouts

Mostly Fluid  
Column Drop  
Layout Shifter  
[Tiny Tweaks](#)  
Main column with sidebar  
3 column  
3 column v2

#### Equal Width

2 equal-width columns  
3 equal-width columns  
4 equal-width columns  
5 equal-width columns  
6 equal-width columns

#### Off Canvas

Top  
Left  
Right  
Left and Right  
Bottom

#### Source-Order Shift

Table Cell  
Flexbox

#### Lists

List with Thumbnails  
List with Thumbnails 2

#### Grid Block

4-up Grid Block  
Double-Wide v1

This Is Responsive. [Patterns](#) [Resources](#) [News](#)

[ [Some examples >>](#) ]

## RESPONSIVE CODE

### Setting the viewport

```
<meta name="viewport"  
content="width=device-width,  
initial-scale=1.0">
```

MUST HAVE FOR  
RESPONSIVE LAYOUT!

# Setting the viewport

```
<head>
  <meta charset="UTF-8">
  <meta name="description" content="Free Web tutorials">
  <meta name="keywords" content="HTML,CSS,XML,JavaScript">
  <meta name="author" content="John Doe">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
</head>
```

## RESPONSIVE CODE



Without the viewport meta tag



With the viewport meta tag

### **width=device-width**

sets the width of the page to follow the screen-width of the device (which will vary depending on the device).

### **The initial-scale=1.0**

sets the initial zoom level when the page is first loaded by the browser.

[\[ Example >> \]](#)

SCROLL DOWN TO 'TIPS AND NOTES' SECTION WITH "VIEWPORT" EXAMPLES

## MEDIA QUERIES

```
@media only screen and (max-width: 480px) {  
    /* mobile */  
    html {  
        background: yellow;  
    }  
  
    .col-6 {  
        width: 100%;  
        background: blue;  
        color:white;  
    }  
}
```

[\[ Reference >> \]](#)

[\[ Tutorials & Examples >> \]](#)

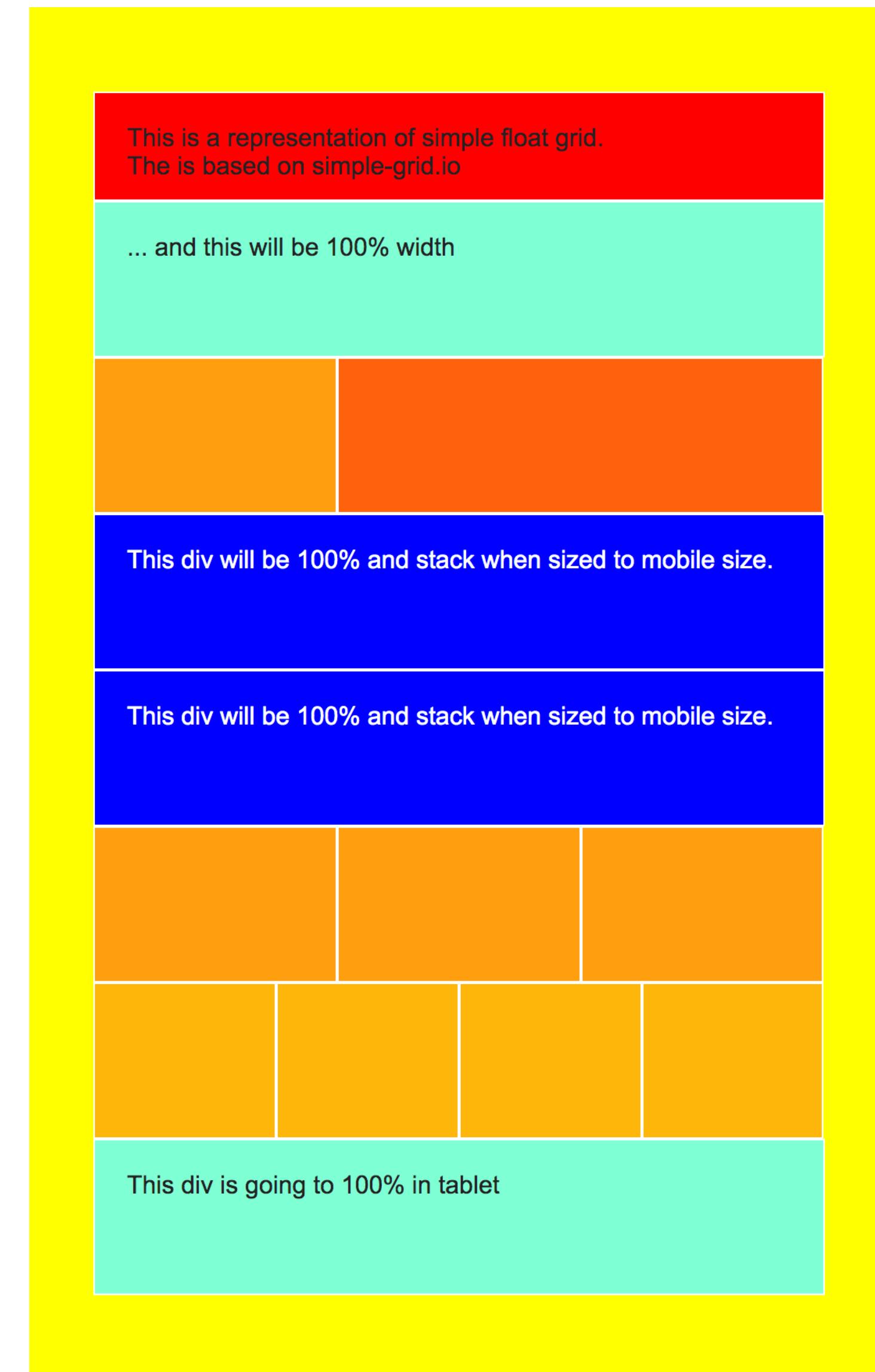
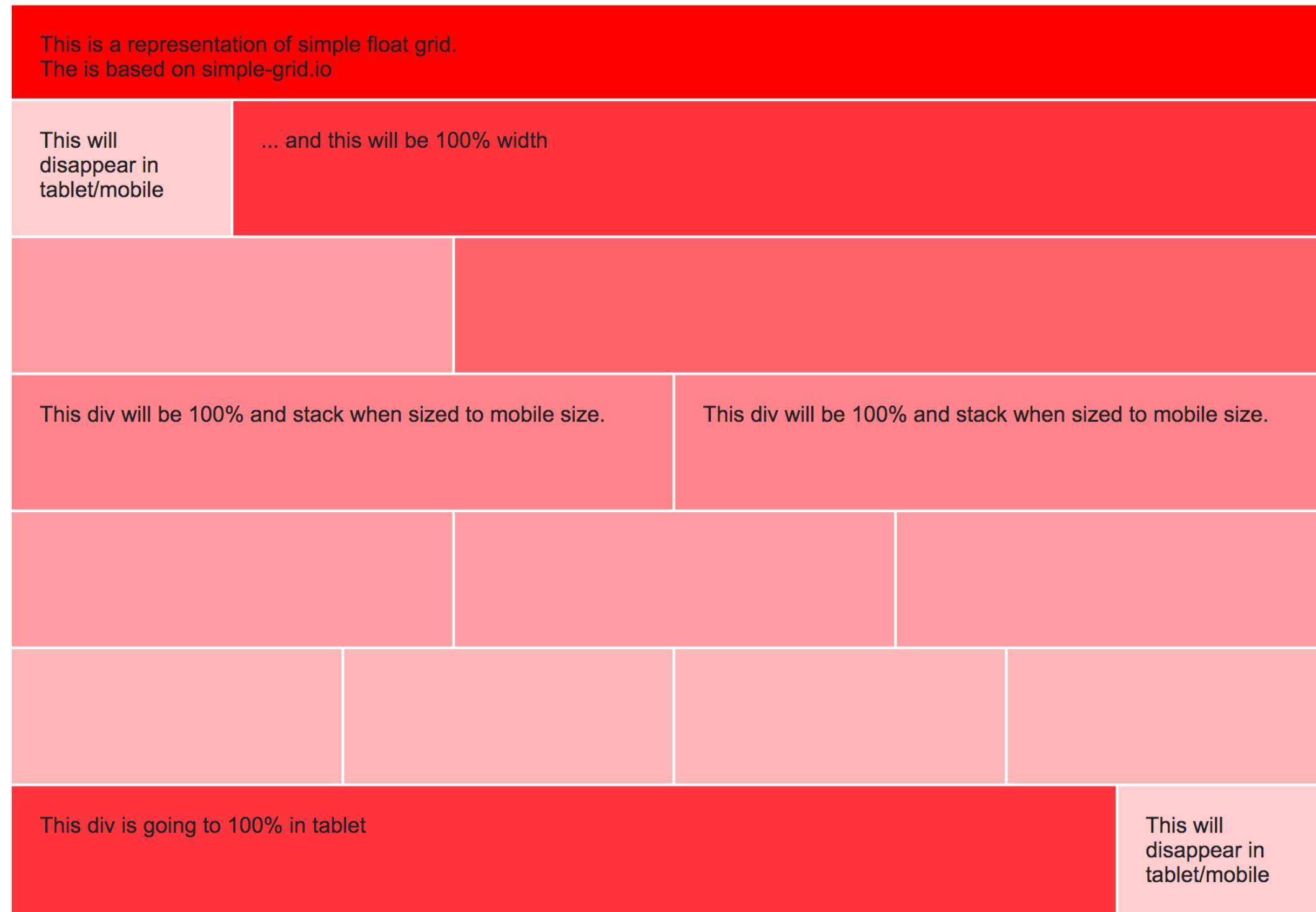
## RESPONSIVE CODE

### **min-width or max-width**

**min-width** is when one designs for mobile first and then use media queries to build responsive patterns

**max-width** is used when the initial code is done for desktop, and then sized down with *@media* code

# MEDIA QUERIES



# MEDIA QUERIES

```
▽ @media only screen and (max-width: 1024px) {  
    /* some horizontal tablets */  
    ▽ html {  
        background: fuchsia;  
    }  
}  
  
▽ @media only screen and (max-width: 960px) { /* small desktop resolution */  
    ▽ html {  
        background: aqua;  
    }  
  
}  
  
▽ @media only screen and (max-width: 768px) {  
    /* tablet */  
    ▽ html {  
        background: lime;  
    }  
  
    ▽ .col-2 {  
        display:none;  
    }  
  
    ▽ .col-10{  
        width:100%;  
        background: aquamarine;  
    }  
}  
  
▽ @media only screen and (max-width: 580px) {  
    /* mobile */  
    ▽ html {  
        background-color: yellow;  
    }  
}
```