

# What's New in Angular Material Design



# What's New in Angular Material Design



# What's Cool in Material Design



# Topics Covered





# Material Design?

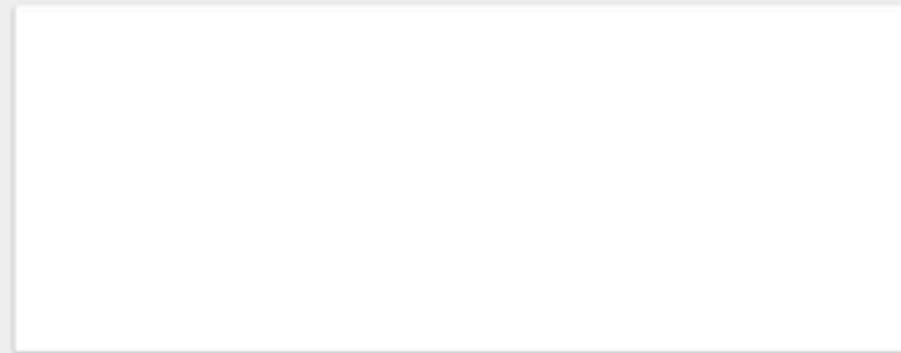
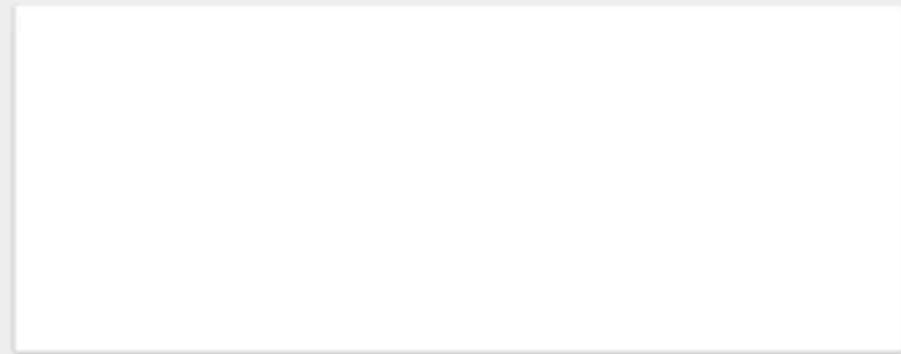
# GRAPHIC DESIGN BINGO

content	CSS	typeface	Comic Sans	esthetic
palette	DPI	ligature	stock	demo-graphic
photo-shopped	wire frame	mockup	Paul Rand	negative space
copy	bleed	slab serif	lorem ipsum	copywriter
HTML	pantone	approval	revision	illustrator

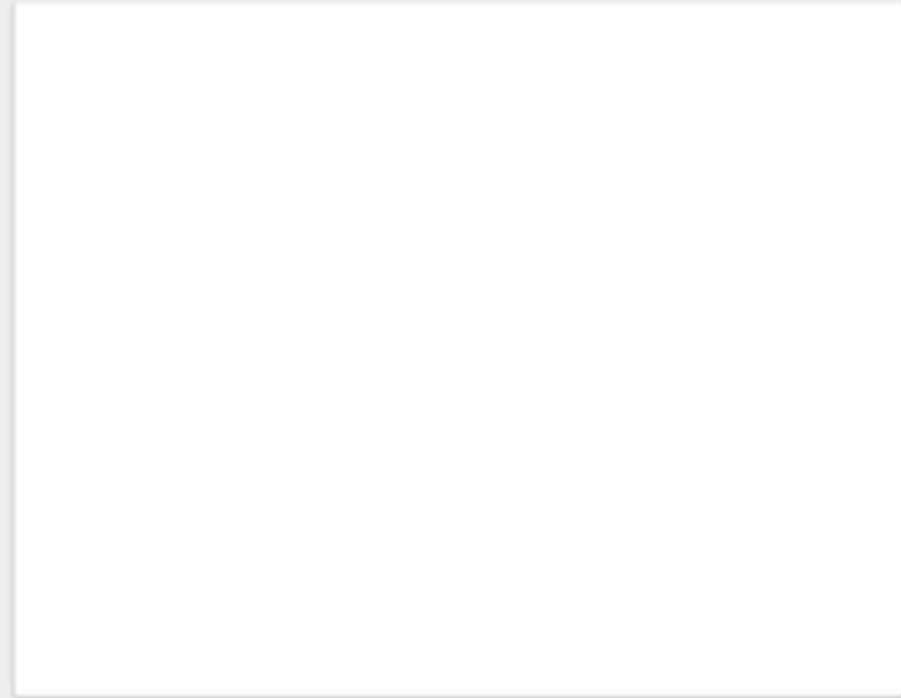


# The Engineer's Perspective

# Digital Paper



# Digital Paper

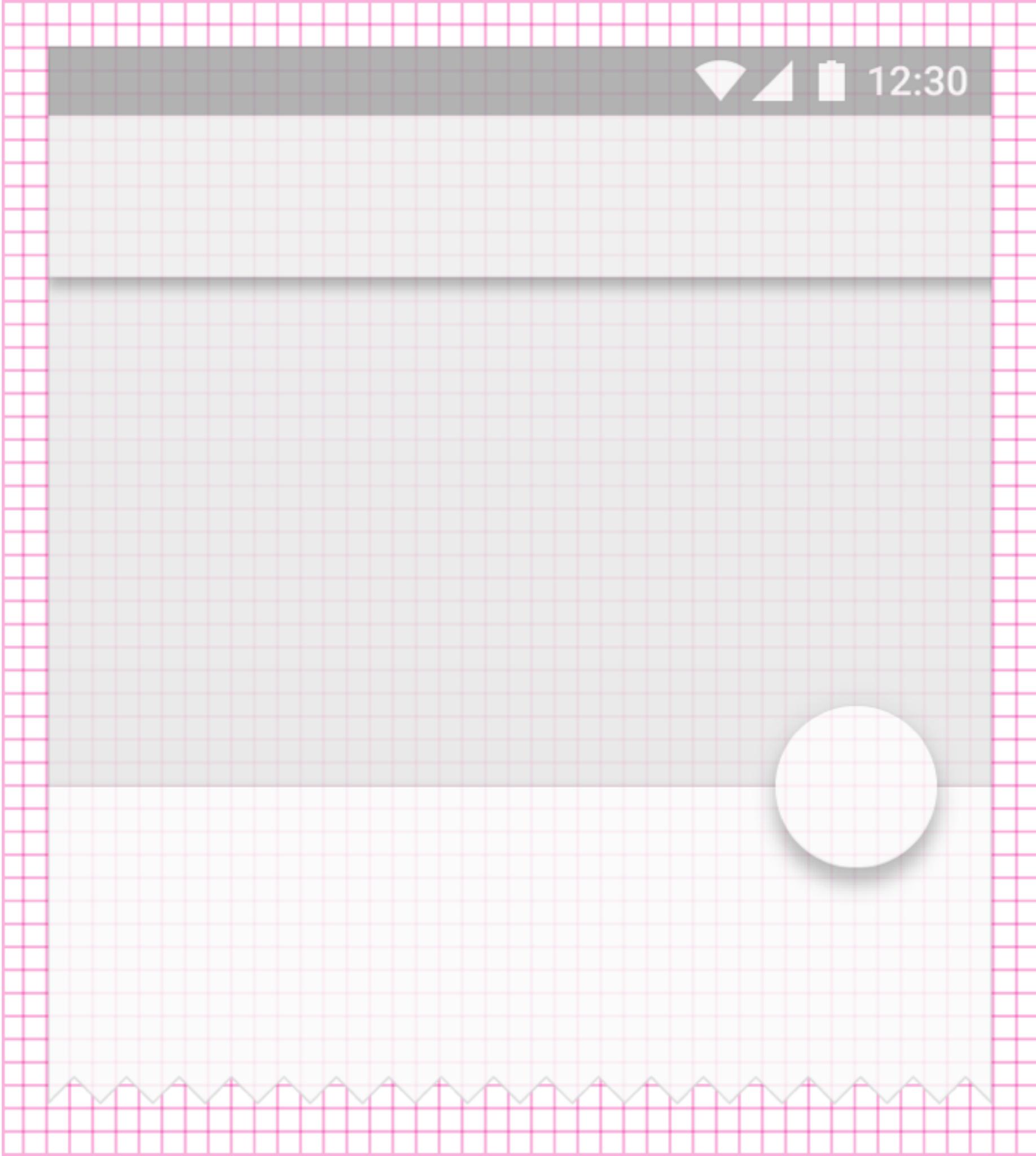
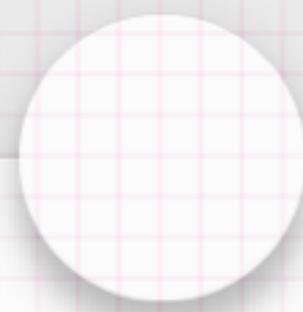


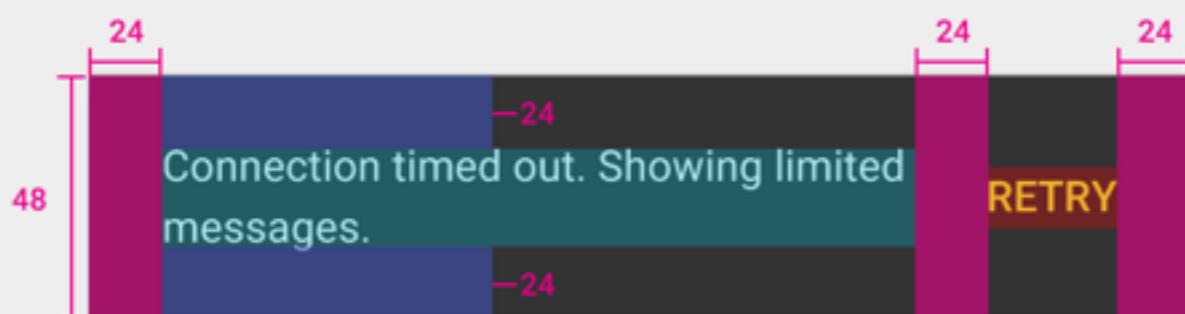
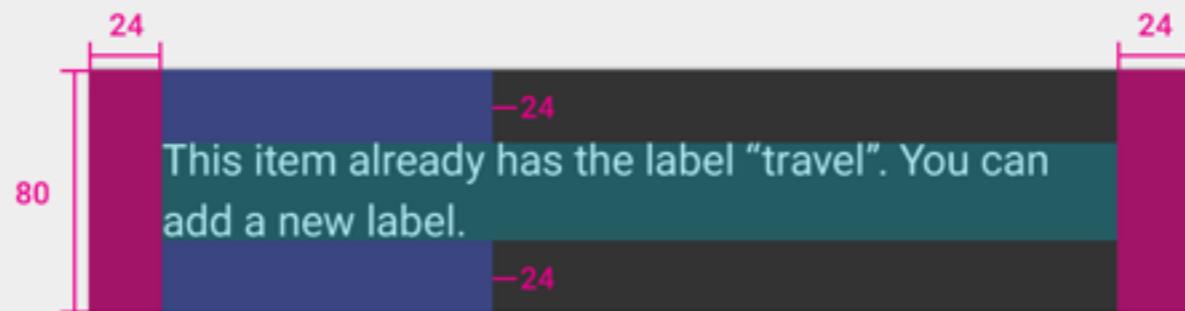
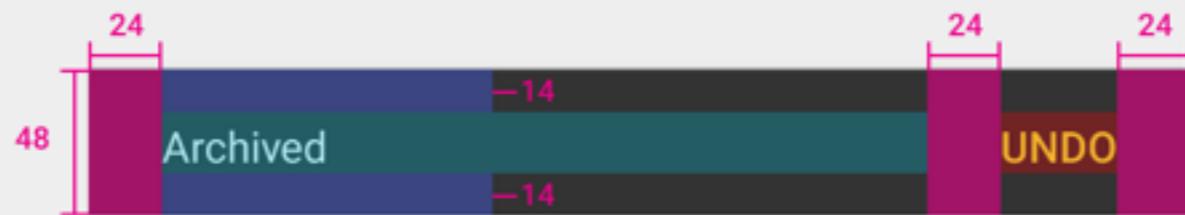


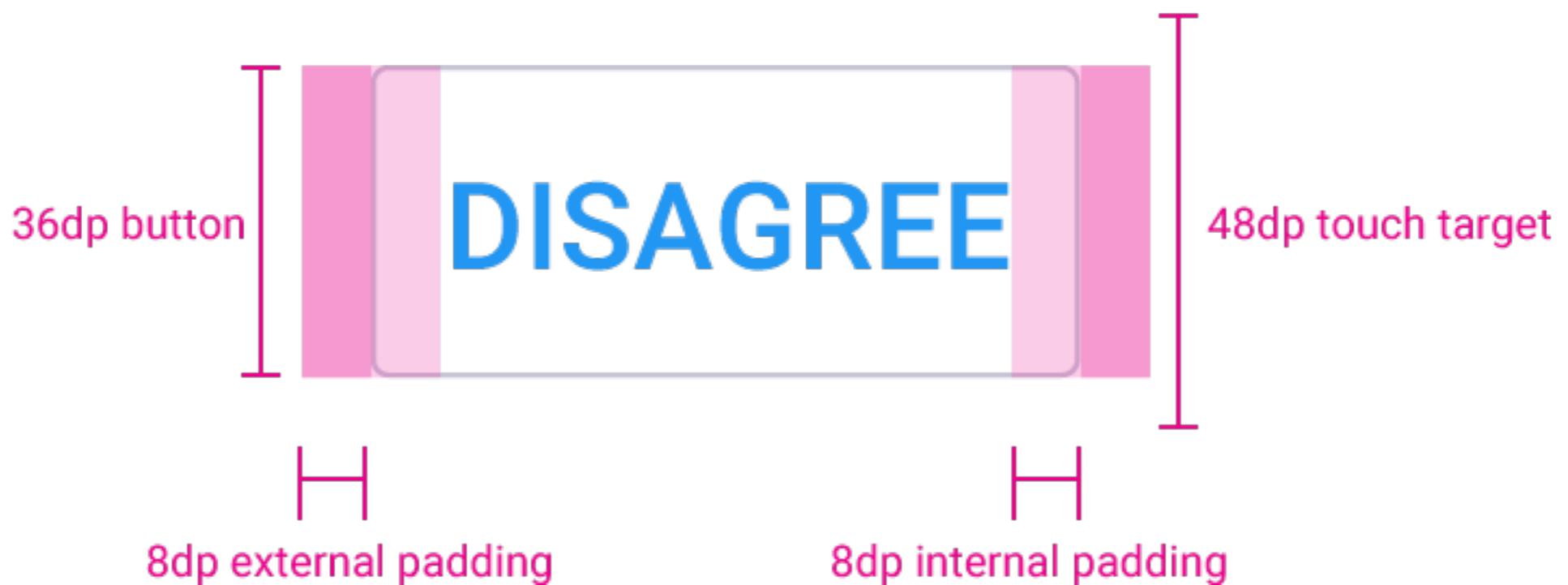
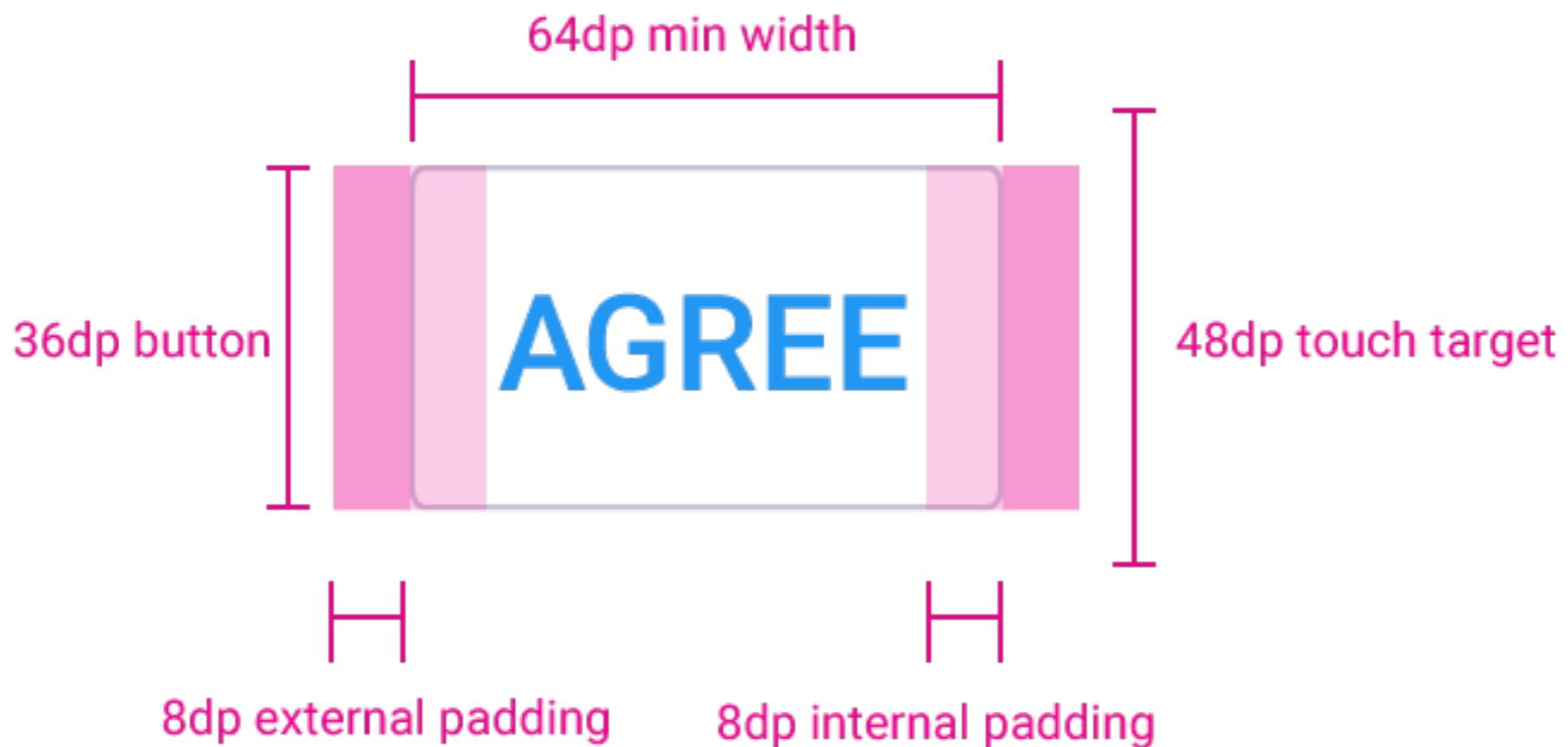
[google.com/design/spec](http://google.com/design/spec)



12:30







Display 4

# Light 112sp

Display 3

## Regular 56sp

Display 2

## Regular 45sp

Display 1

## Regular 34sp

Headline

### Regular 24sp

Title

### Medium 20sp

Subhead

Regular 16sp (Device), Regular 15sp (Desktop)

Body 2

Medium 14sp (Device), Medium 13sp (Desktop)

Body 1

Regular 14sp (Device), Regular 13sp (Desktop)

Caption

Regular 12sp

Button

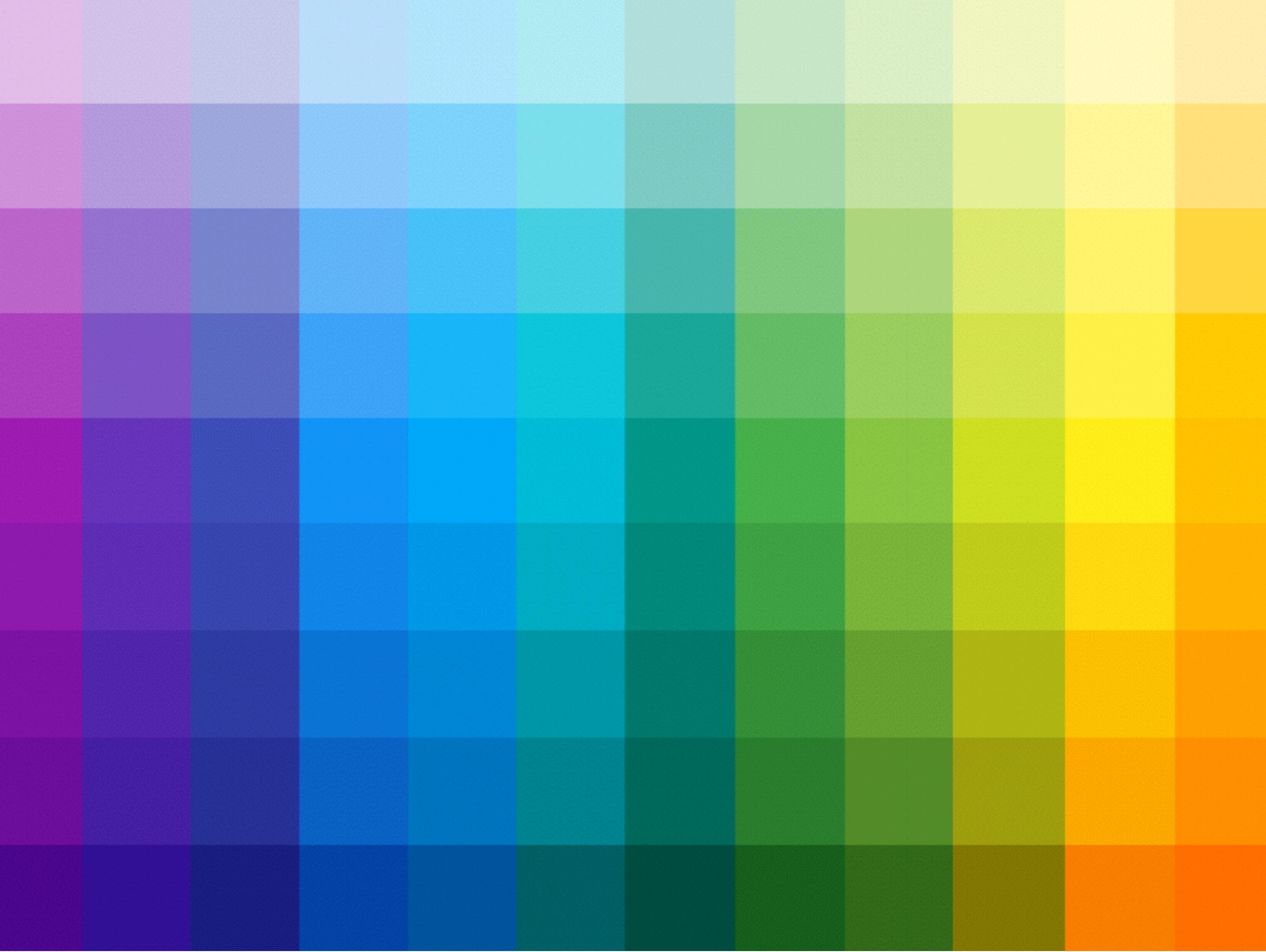
MEDIUM (ALL CAPS) 14sp





# Design consistency





The background of the slide features a grid of colored squares arranged in a repeating pattern. The colors transition through a full spectrum, starting from magenta on the left and moving through purple, blue, cyan, green, yellow, and orange on the right. This grid serves as a vibrant, abstract backdrop for the text.

Colouring  
your UI

## Light Green

500

#8BC34A

50

#F1F8E9

100

#DCEDC8

200

#C5E1A5

300

#AED581

400

#9CCC65

500

#8BC34A

600

#7CB342

700

#689F38

800

#558B2F

900

#33691E

## Light Green

500

#8BC34A

50

#F1F8E9

100

#DCEDC8

200

#C5E1A5

300

#AED581

400

#9CCC65

500

#8BC34A

600

#7CB342

700

#689F38

800

#558B2F

900

#33691E

A100

#CCFF90

A200

#B2FF59

A400

#76FF03

A700

#64DD17

500

#3F51B5

100

#C5CAE9

500

#3F51B5

700

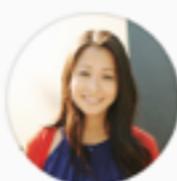
#303F9F



## Inbox



Today



Brunch this weekend?

Ali Connors – I'll be in your neighborhood...



Summer BBQ 4

to Alex, Scott, Jennifer – Wish I could ...



Oui oui

Sandra Adams – Do you have Paris reco...



Birthday gift

Trevor Hansen – Have any ideas about ...

Primary – Indigo

500

#3F51B5

100

#C5CAE9

500

#3F51B5

700

#303F9F

Accent – Pink

A200

#FF4081

Fallback

A100

#FF80AB

A400

#F50057



# Settings

## Basics

Search engine

Google

Save passwords



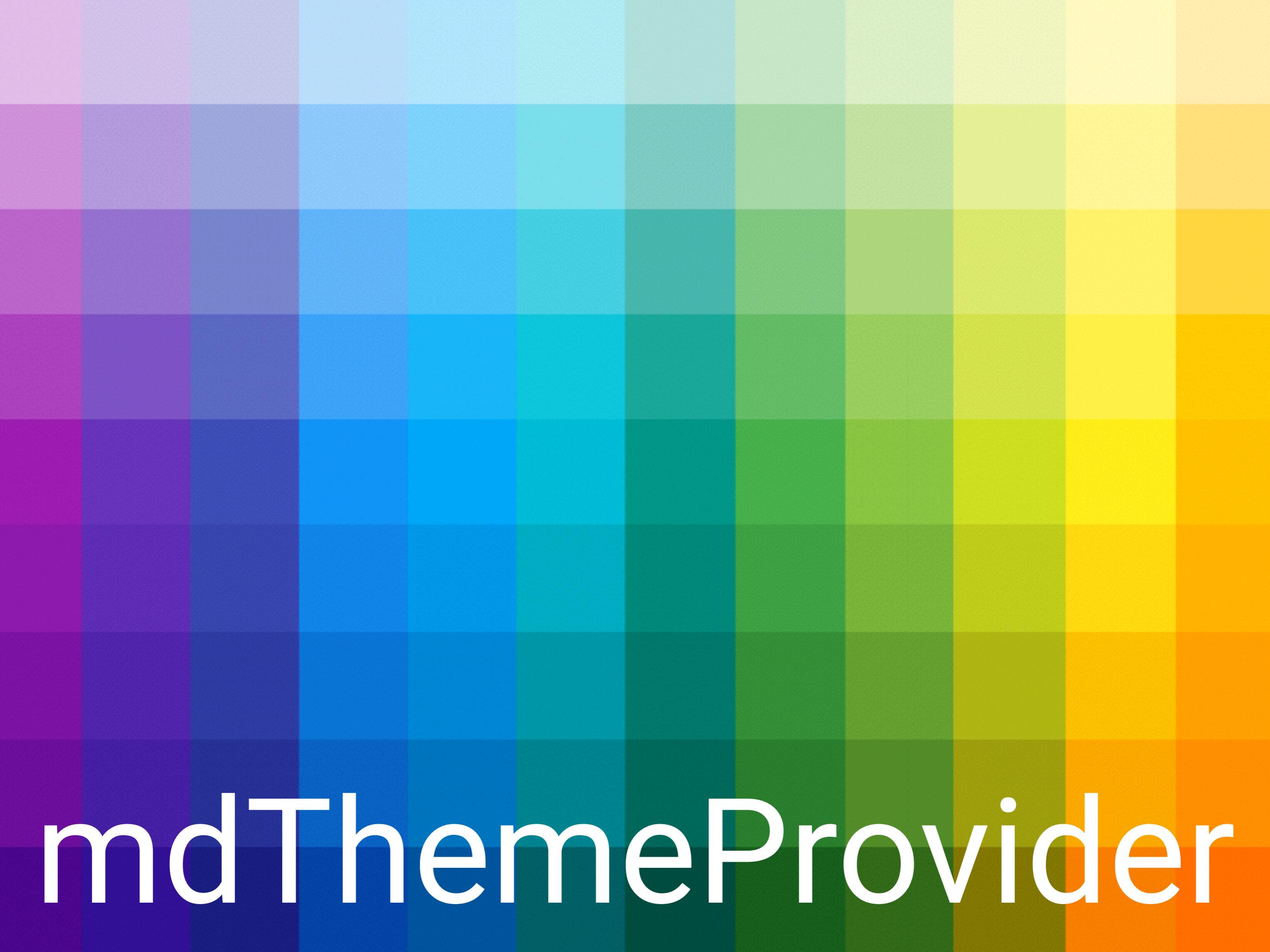
Autofill forms



Google apps

## Advanced

Voice search



mdThemeProvider

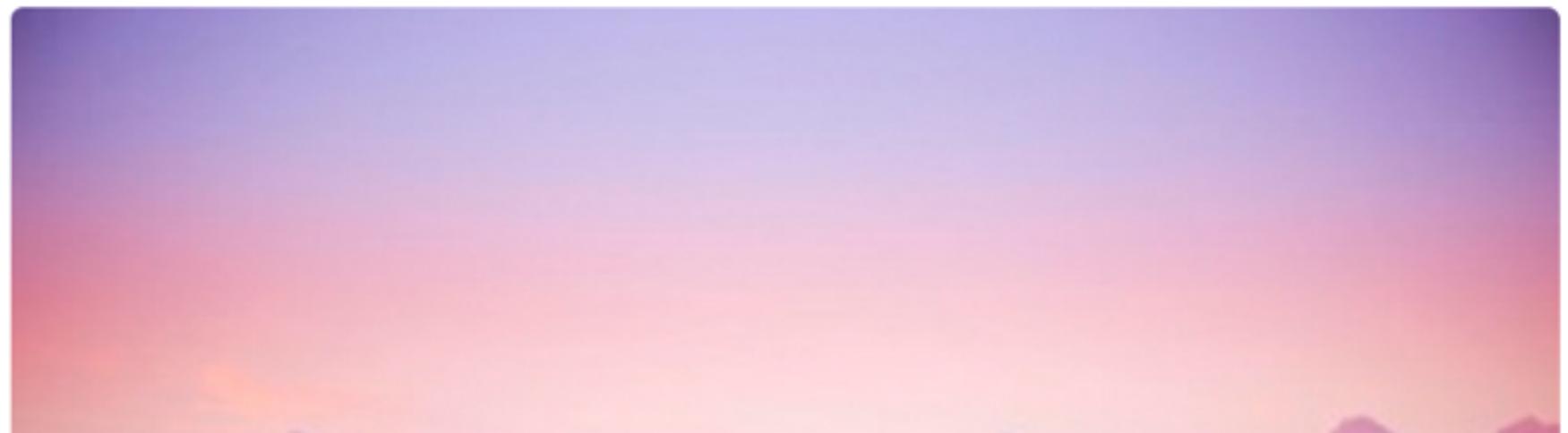
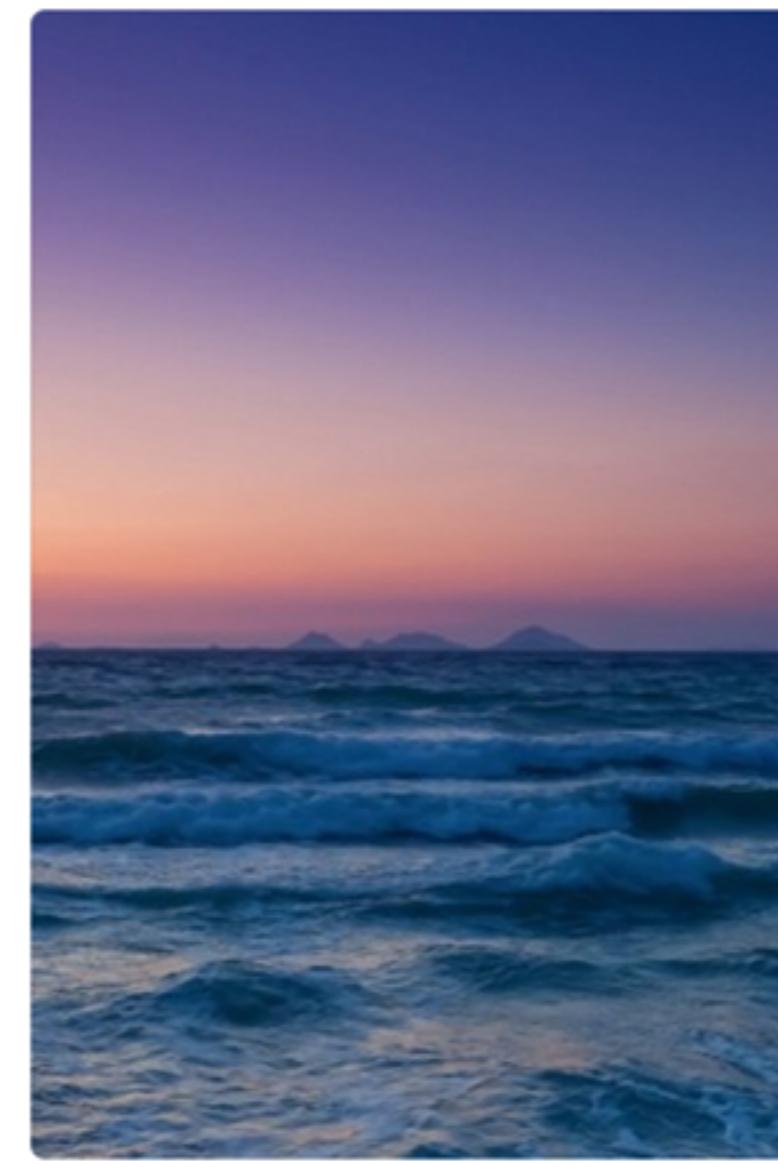
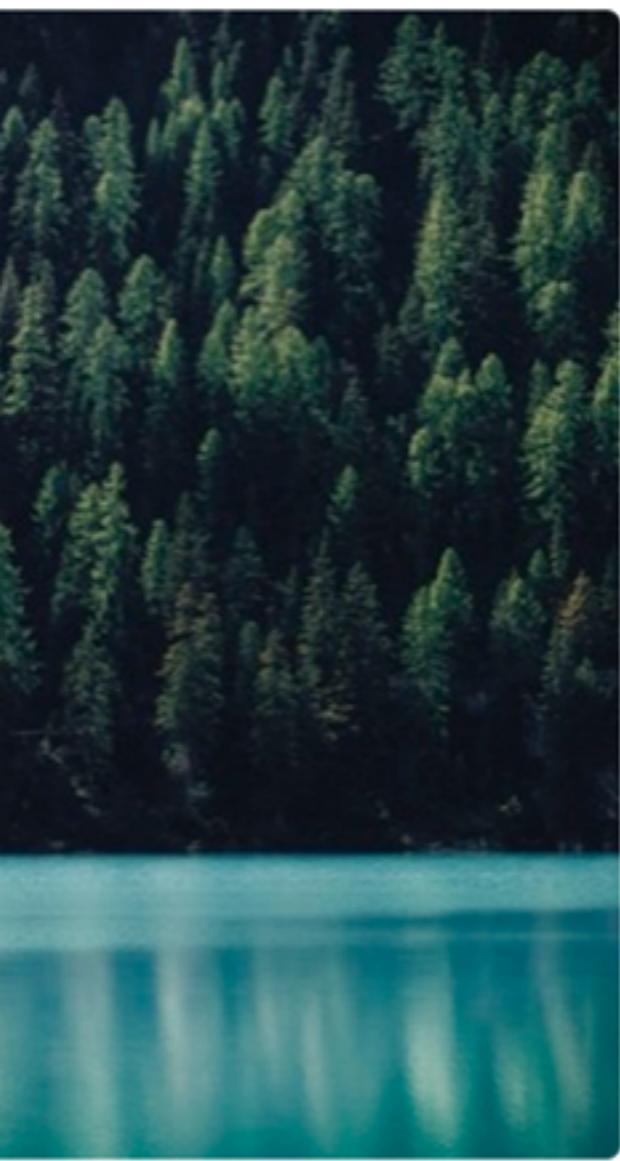
The background of the image consists of a grid of colored squares. The colors transition through a full spectrum of the rainbow, from red on the left to violet at the top, and then through orange, yellow, green, blue, and purple again towards the right. The grid is composed of approximately 20 columns and 10 rows of squares.

**DEMO**



*Dynamic*  
Colour





4:40



## My Library



In a Perfect W...

Kodaline



More Than Ju...

Fitz & The Tantrums



Jamie Lidell

Jamie Lidell



Nocturnal

Yuna



4:40



## My Library



In a Perfect W...

Kodaline



More Than Ju...

Fitz & The Tantr...



Jamie Lidell

Jamie Lidell



Nocturnal

Yuna



Cool!  
But how?



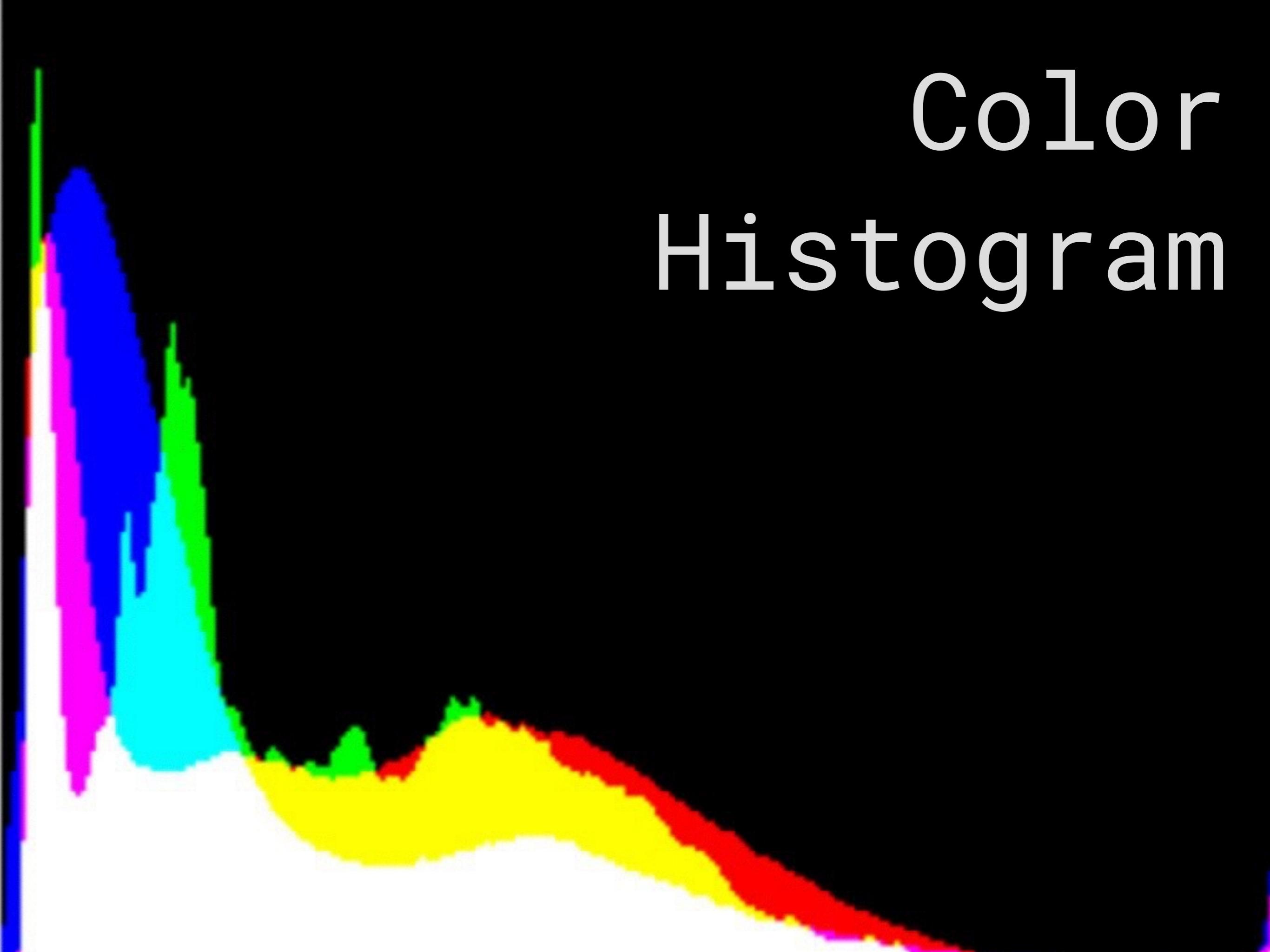
for now...  
vibrant.js



The background of the image is a 10x10 grid of colored squares, transitioning from purple on the left to yellow on the right. A large, bold, white sans-serif font word "DEMO" is centered in the lower-left portion of the grid.

DEMO

# Color Histogram





# Colour Quantization



**8.7**

**9.1**

**11.3**

**Swatch Scoring**

# Resources

# Material Palette

[materialpalette.com](http://materialpalette.com)

# Vibrant.js

[github.com/jariz/  
vibrant.js](https://github.com/jariz/vibrant.js)



# Icons!



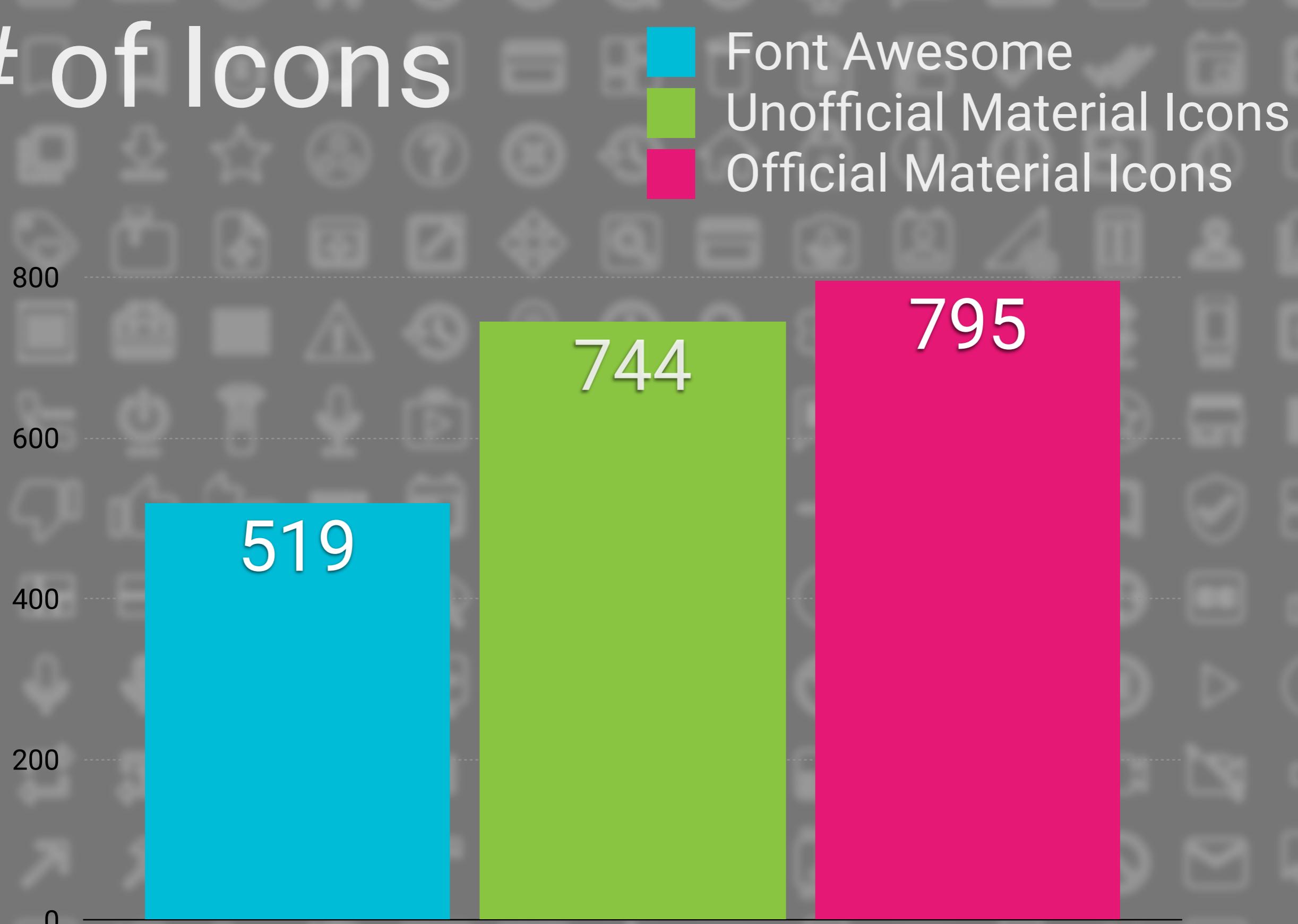
795 icons...

...optimized to the  
point of madness...

...in platform specific  
packaging..

...including an  
**icon font!**

# # of Icons



Font Awesome  
Unofficial Material Icons  
Official Material Icons

# Font Size (woff2)

60

45

30

15

0



Font Awesome  
Unofficial Material Icons  
Official Material Icons

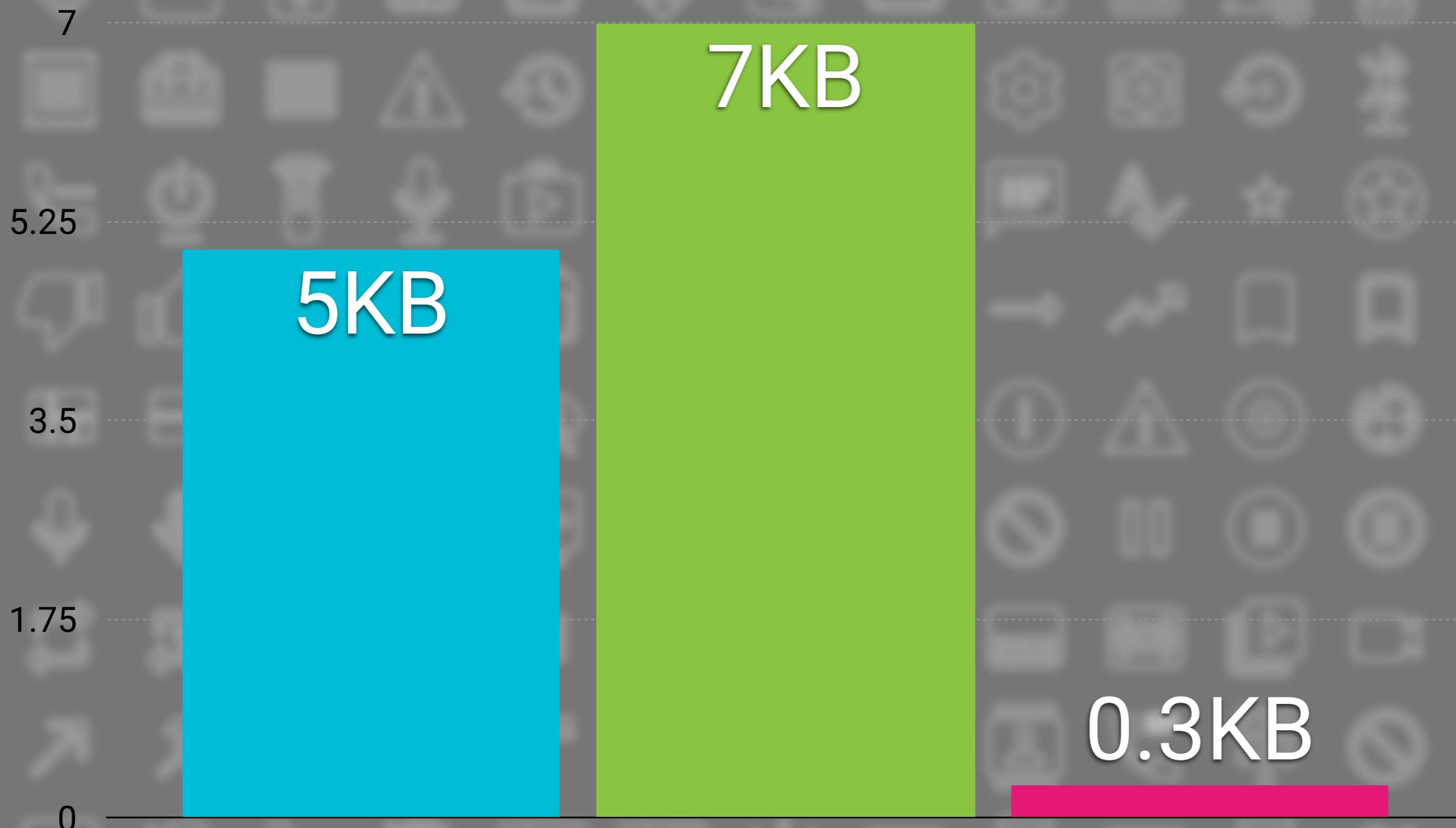
55KB

44KB

36KB

# CSS Size (gzipped)

- Font Awesome
- Unofficial Material Icons
- Official Material Icons



# Why so little CSS?

because  
**Ligatures!**

**fi**



**fi**

**f]**



**f]**

&

&

```
.fa-android::before {  
    content: '\E606';  
}  
  
<i class="fa fa-android">  
</i>
```

*<i class="mi">android</i>*

<i class="mi">android</i>



<md-icon>android</md-icon>



# DEMO

How exactly do you  
pronounce  
‘é’?

Sorry :(

Awesome  
Compression  
Ratios!

# Bytes/icon

- Font Awesome
- Unofficial Material Icons
- Official Material Icons

130

97.5

65

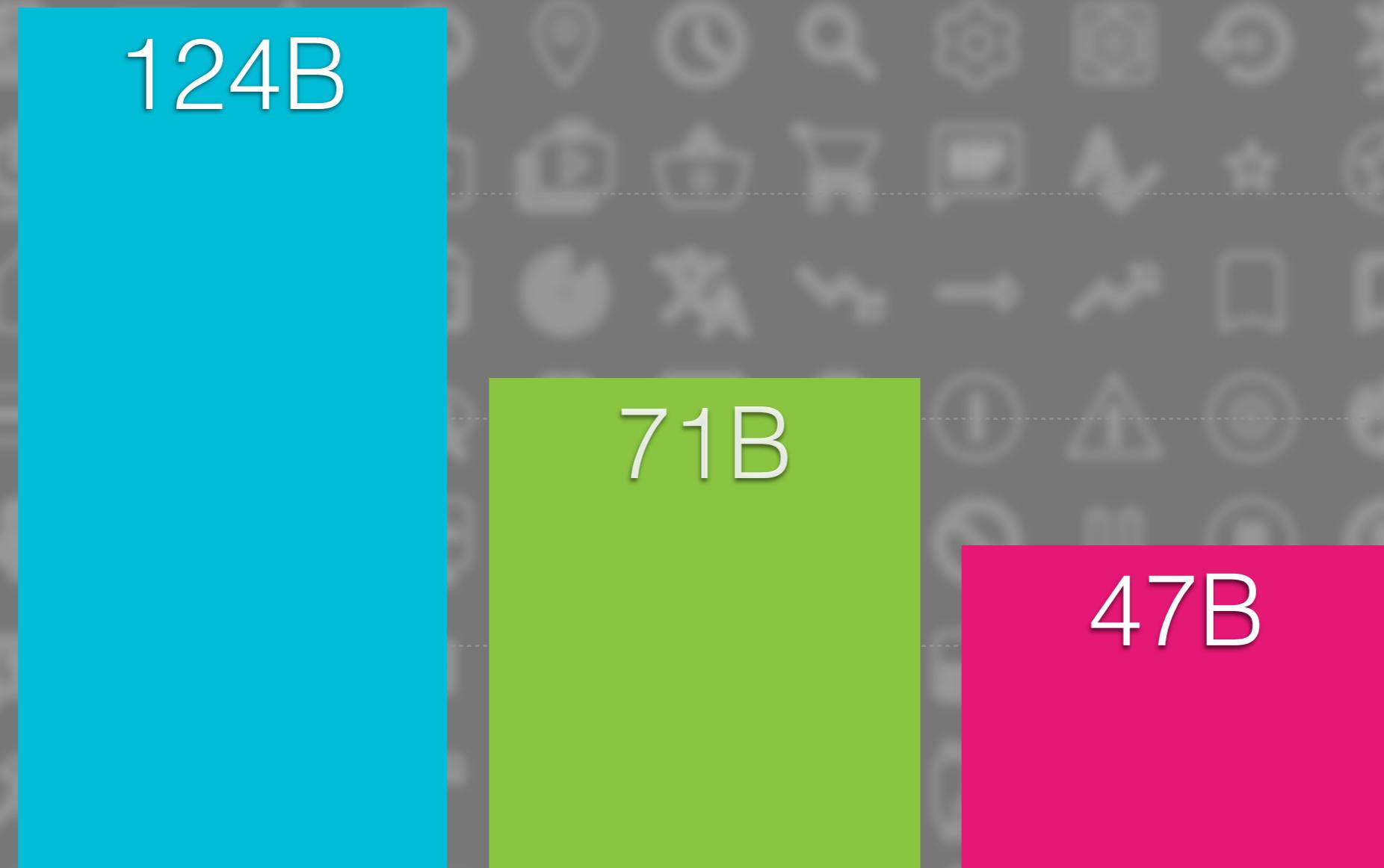
32.5

0

124B

71B

47B



# RESOURCES

# Google Icon Site

[google.com/design/  
icons](http://google.com/design/icons)

# Our Github

[github.com/google/  
material-design-icons](https://github.com/google/material-design-icons)

# Material in Motion



≡ **Inbox**



Today



**Brunch this weekend?**

Ali Connors — I'll be in your neighborhood doing errands this weekend if you want to meet up for brunch ...



**Summer BBQ** 4

to me, Scott, Jennifer — Aw dang. Wish I could, but am outta town this weekend.



**Oui Oui**

Nicholas Jitkoff — Do you have Paris recommendations? Have you ever been? (I'm sure I've asked you this ...)



**Birthday Gift**

Trevor Hansen — Have any ideas about what to get Heidi for her birthday?



**Recipe to try**

Brit Smith — We should eat this: Grated Squash, Corn and Tomatillo Tacos



**Baseball?**

David Park — Any interest in a game this month?

Yesterday

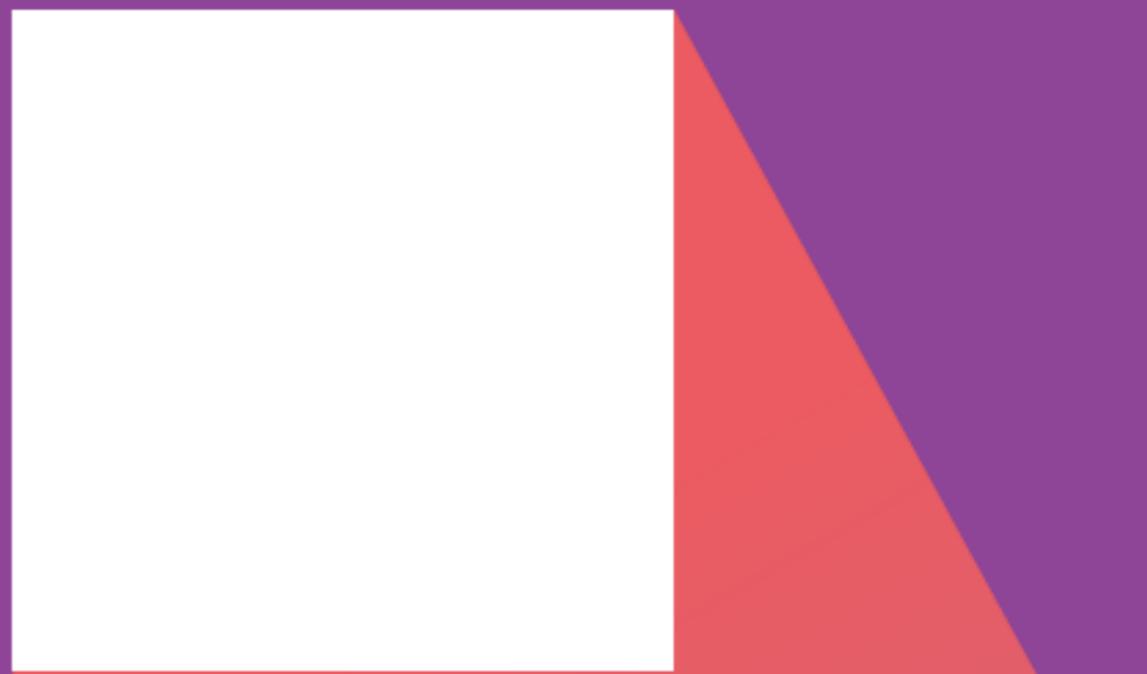


**Montauk Weekend**

Scott Masterson — Here are the shots I mentioned from this weekend's trip.



# Not There Yet. . .



# Animation Anchoring



# Animation Anchoring

```
<!-- home.html -->
<a href="#/banner-page">
  
</a>
```

```
<!-- banner-page.html -->

```

# DEMO



# A (Promising) Hack



# DEMO #2



# Thanks!

Scott Hyndman

shyndman@google.com

