

What's New in

# Angular Material Design



~~What's New in~~

# ~~Angular Material Design~~



# What's Cool in Material Design



# Topics Covered





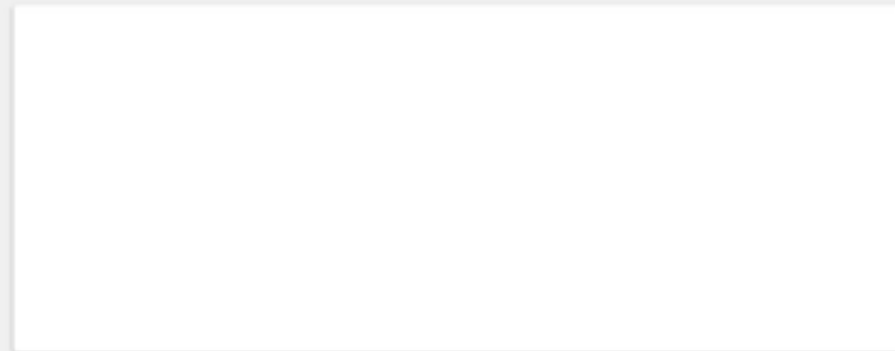
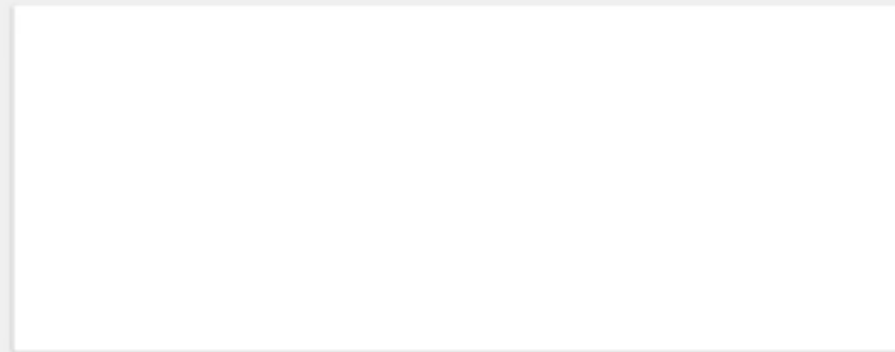
Material Design?



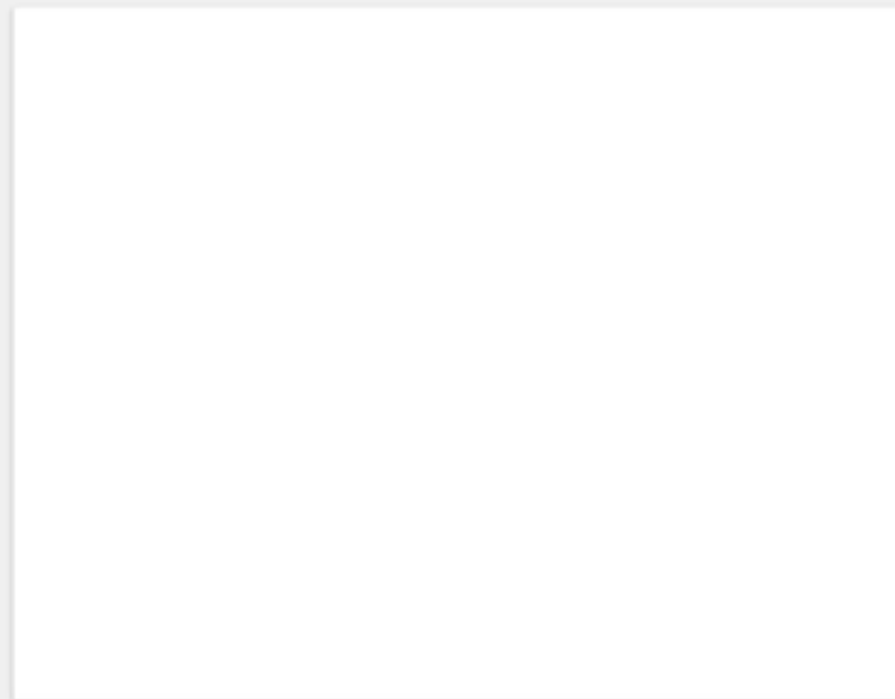


# The Engineer's Perspective

# Digital Paper



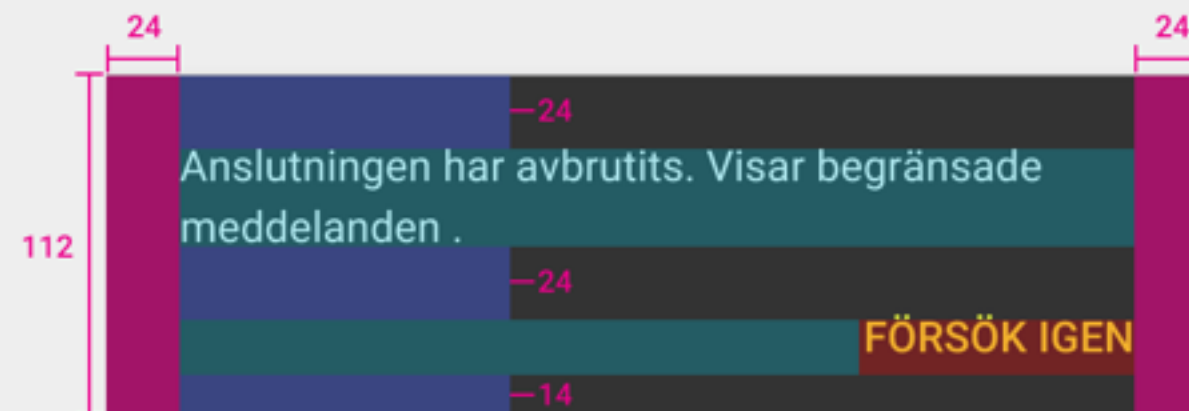
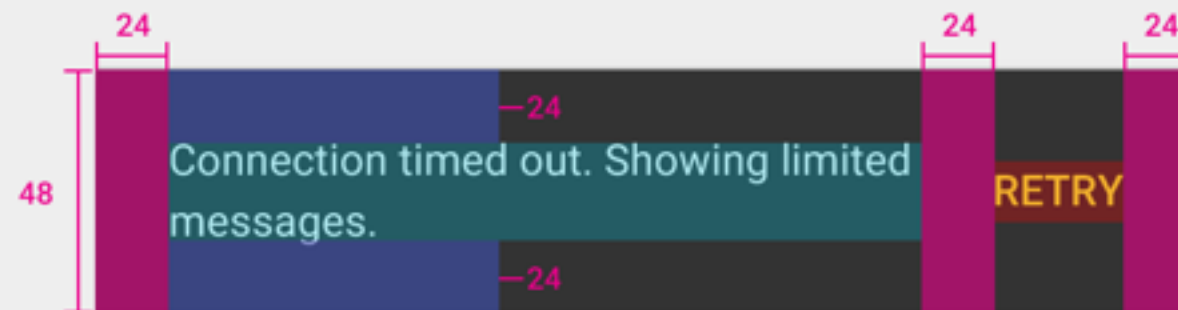
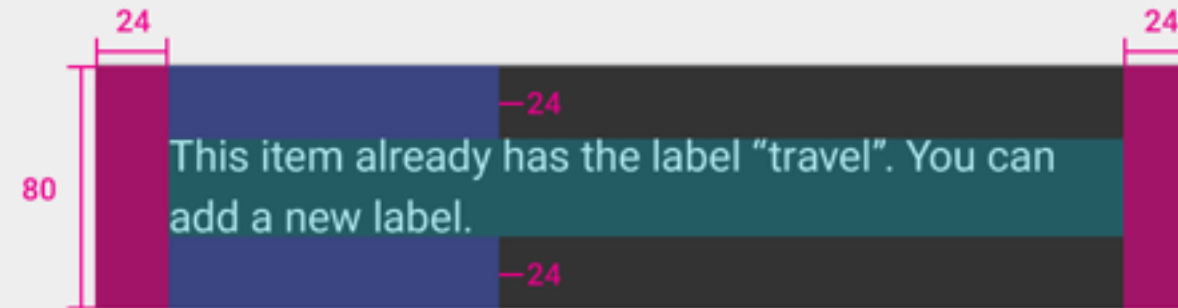
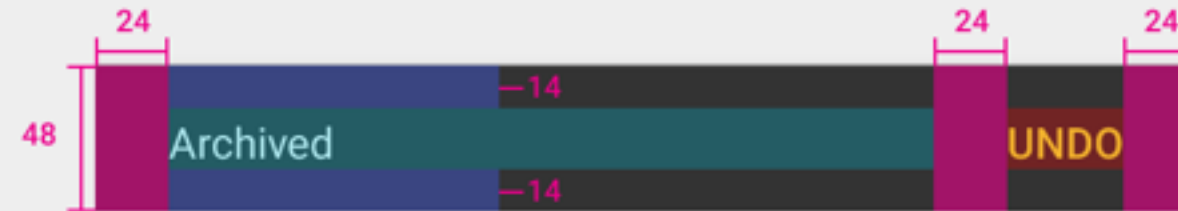
# Digital Paper

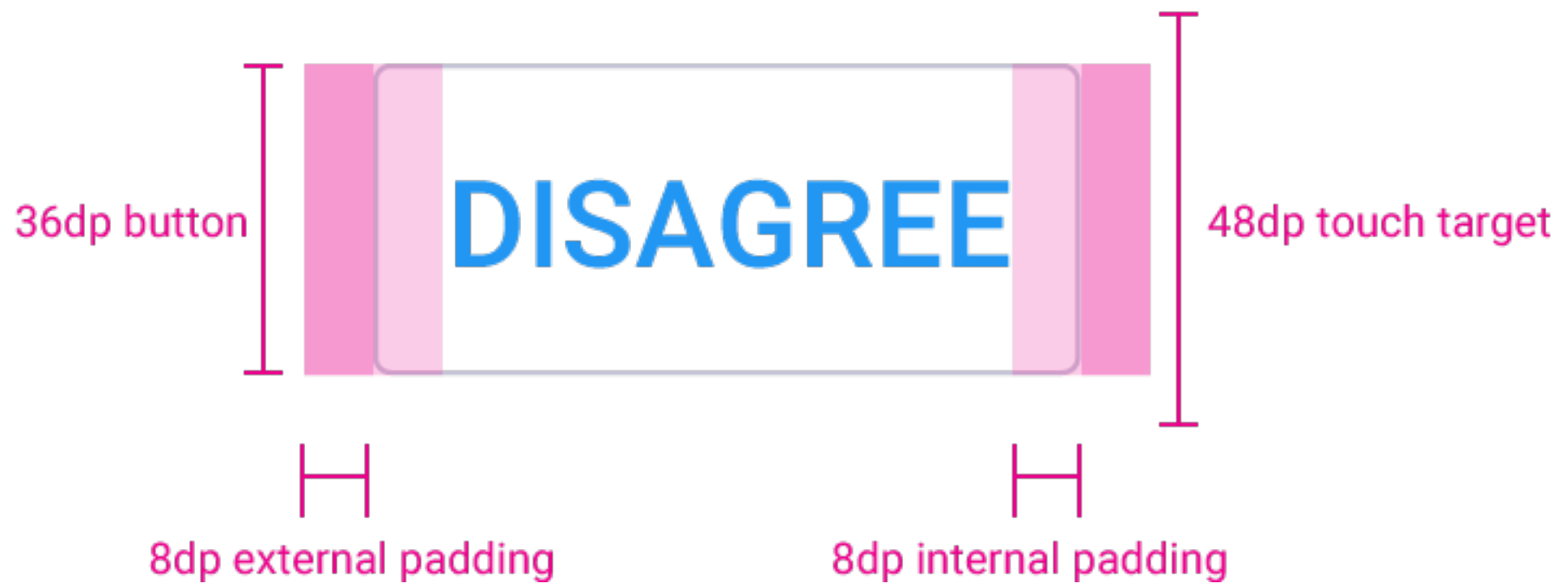
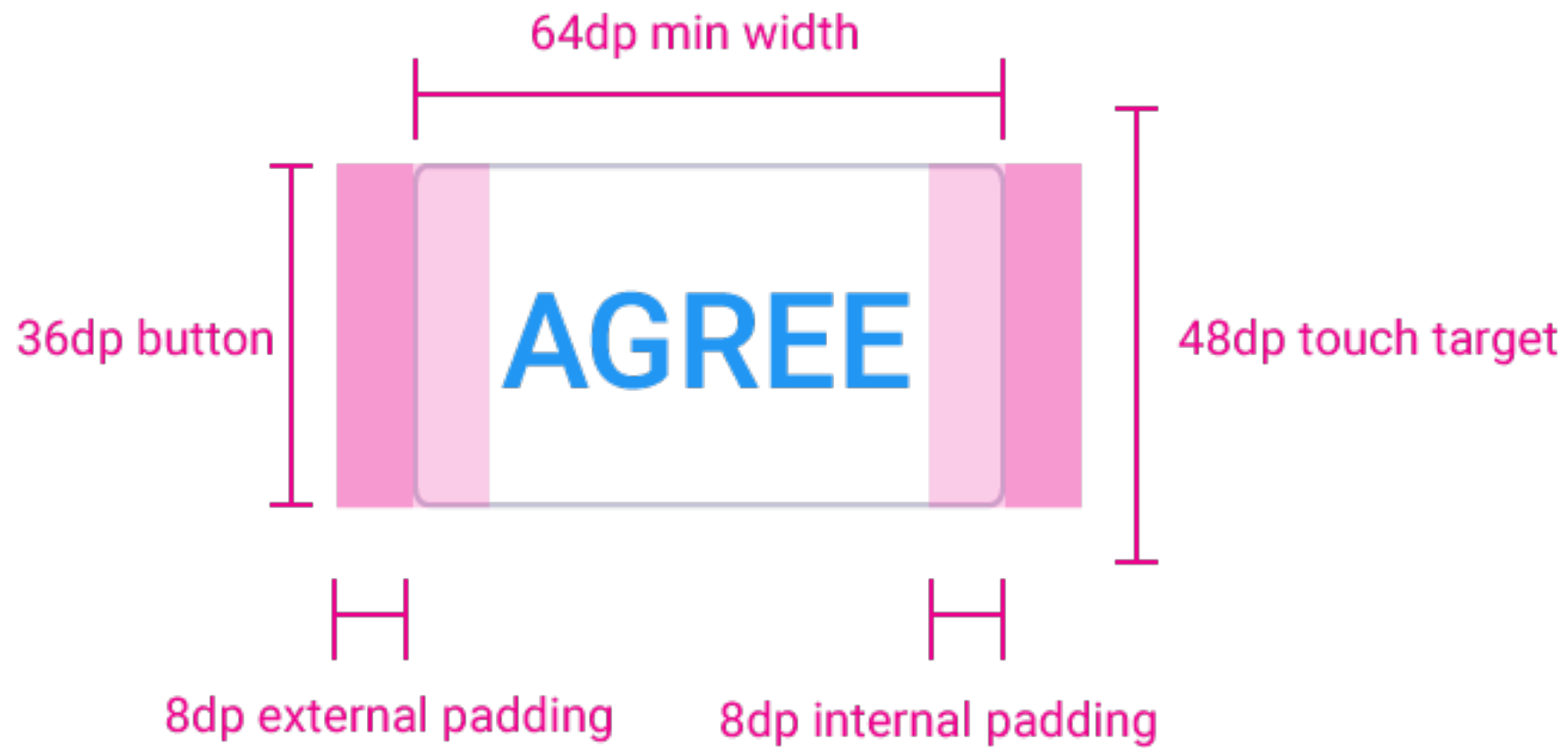




[google.com/design/spec](https://google.com/design/spec)







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

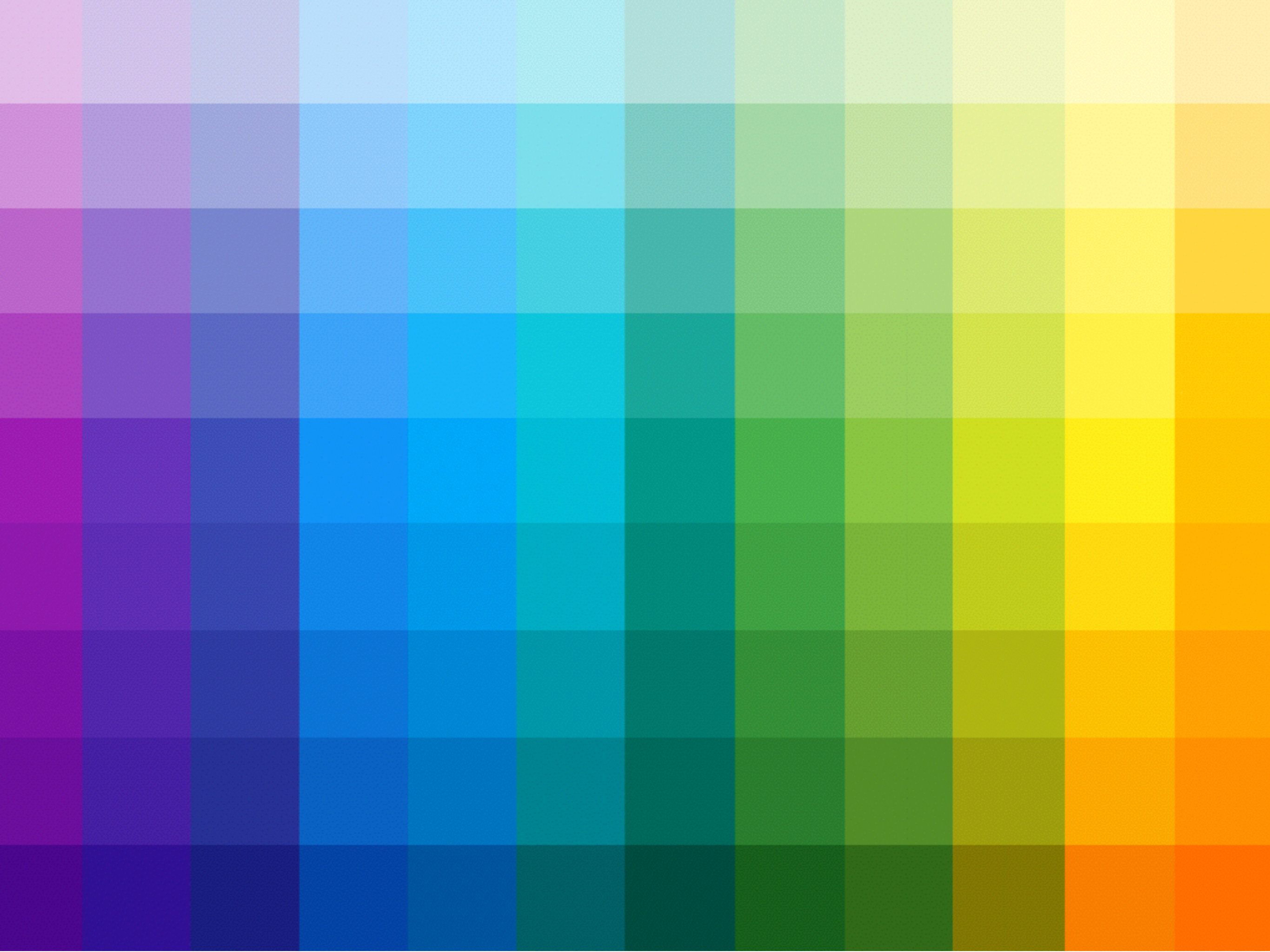
**MEDIUM (ALL CAPS) 14sp**

[illegible]



Design consistency







# 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 |

Primary — Indigo

500

#3F51B5

100

#C5CAE9

500

#3F51B5

700

#303F9F

12:30



## 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

12:30



## Settings

### Basics

Search engine

Google

Save passwords



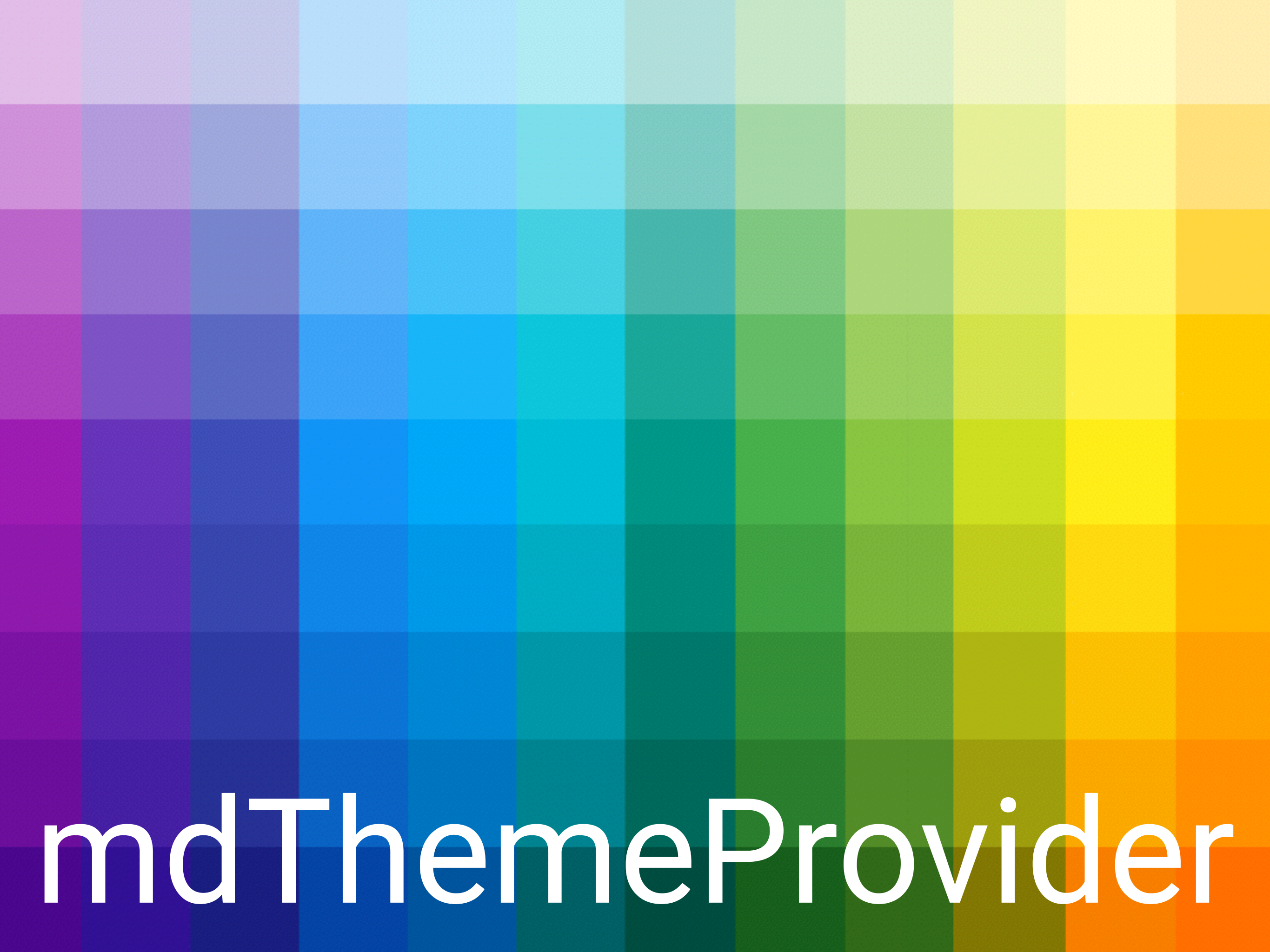
Autofill forms



Google apps

### Advanced

Voice search



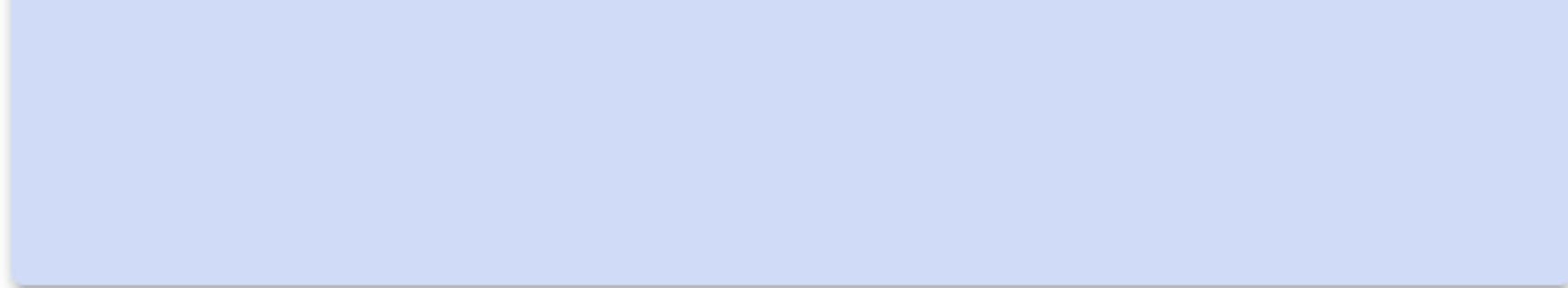
mdThemeProvider

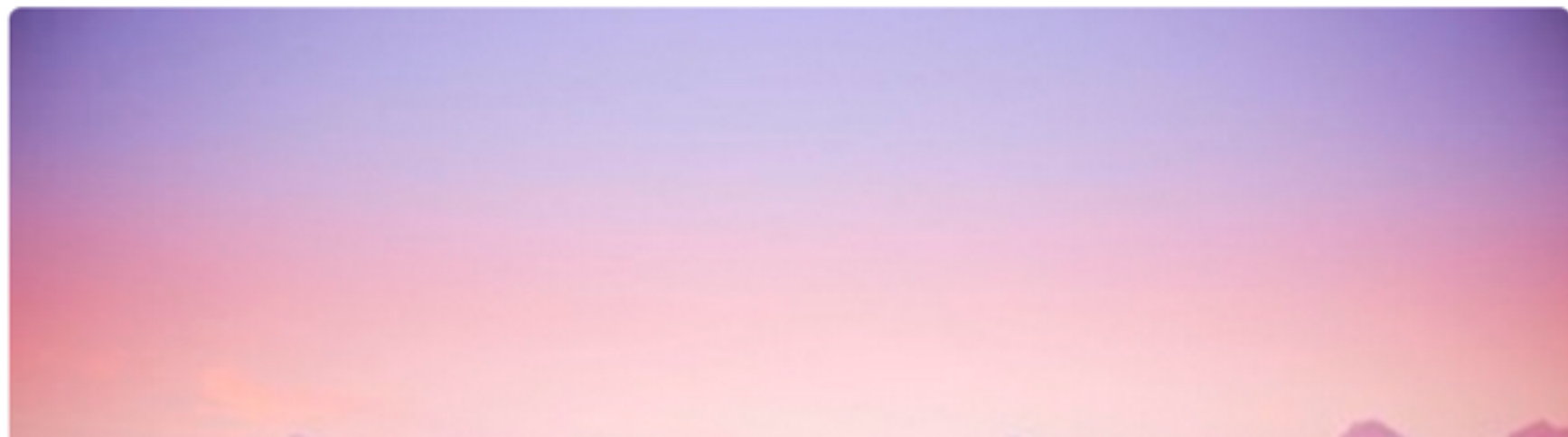
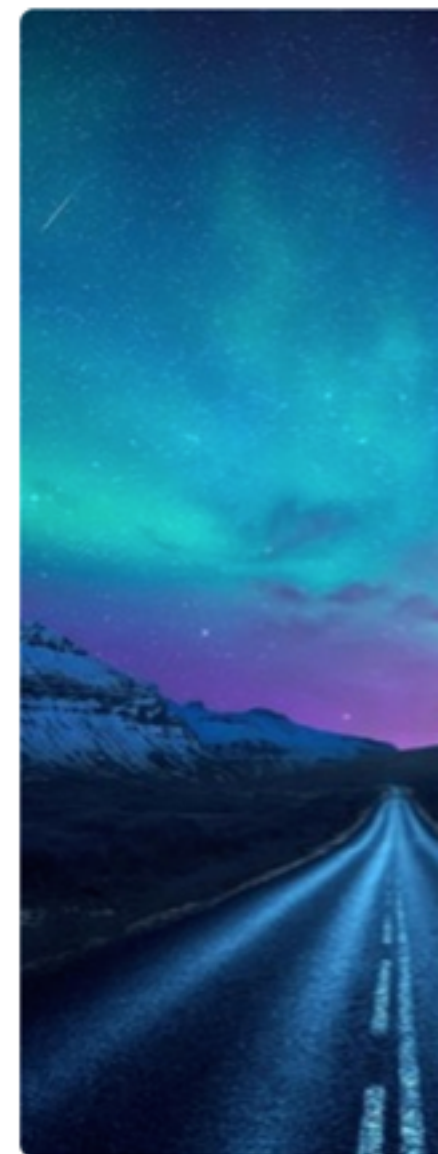
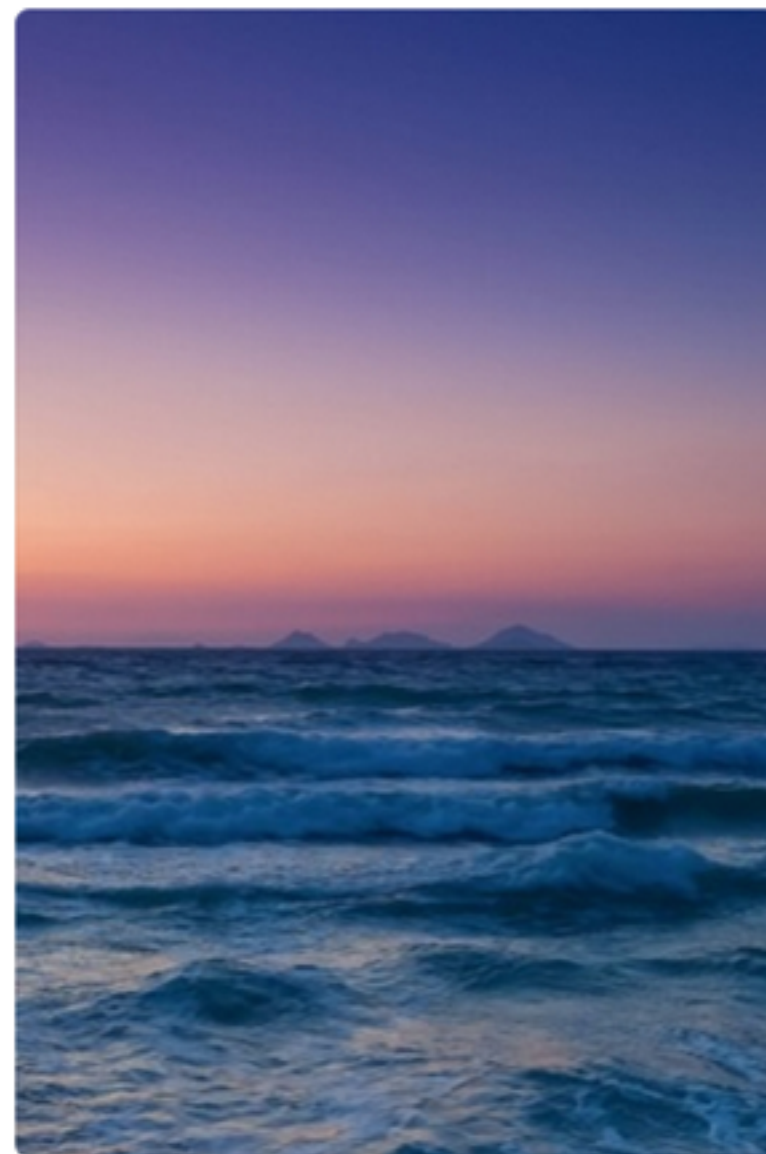
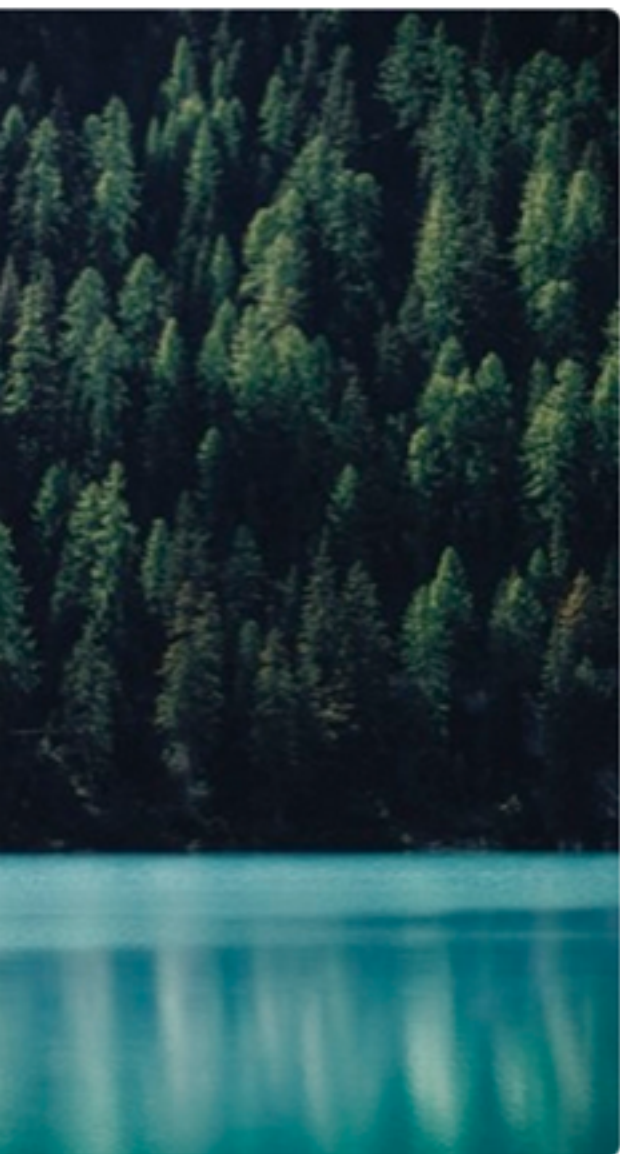


DEMO



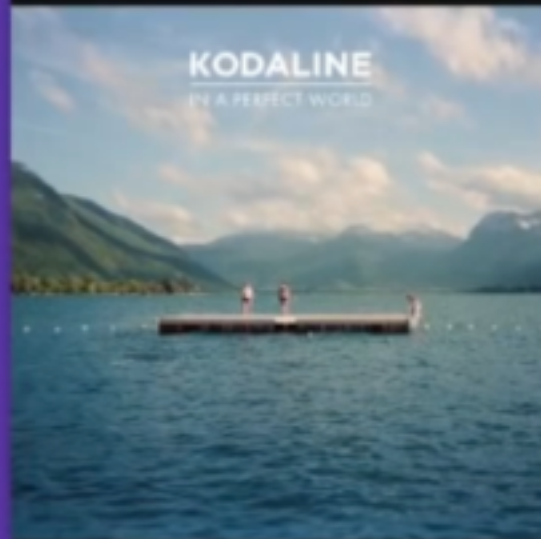
# *Dynamic* Colour







# My Library



In a Perfect W...  
Kodaline



More Than Ju...  
Fitz & The Tantru...



Jamie Lidell  
Jamie Lidell

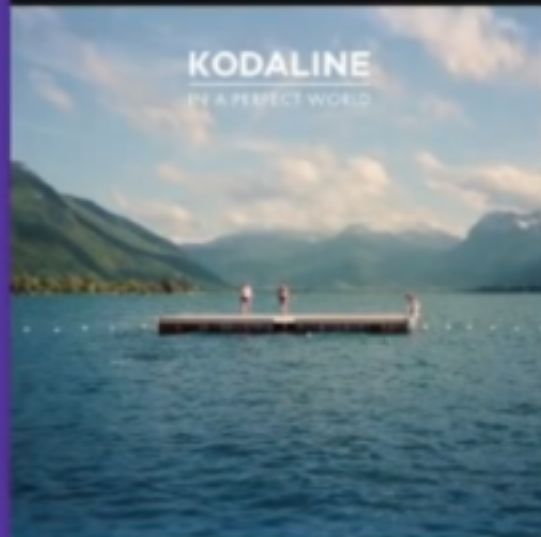


Nocturnal  
Yuna





# My Library



In a Perfect W...  
Kodaline



More Than Ju...  
Fitz & The Tantru...

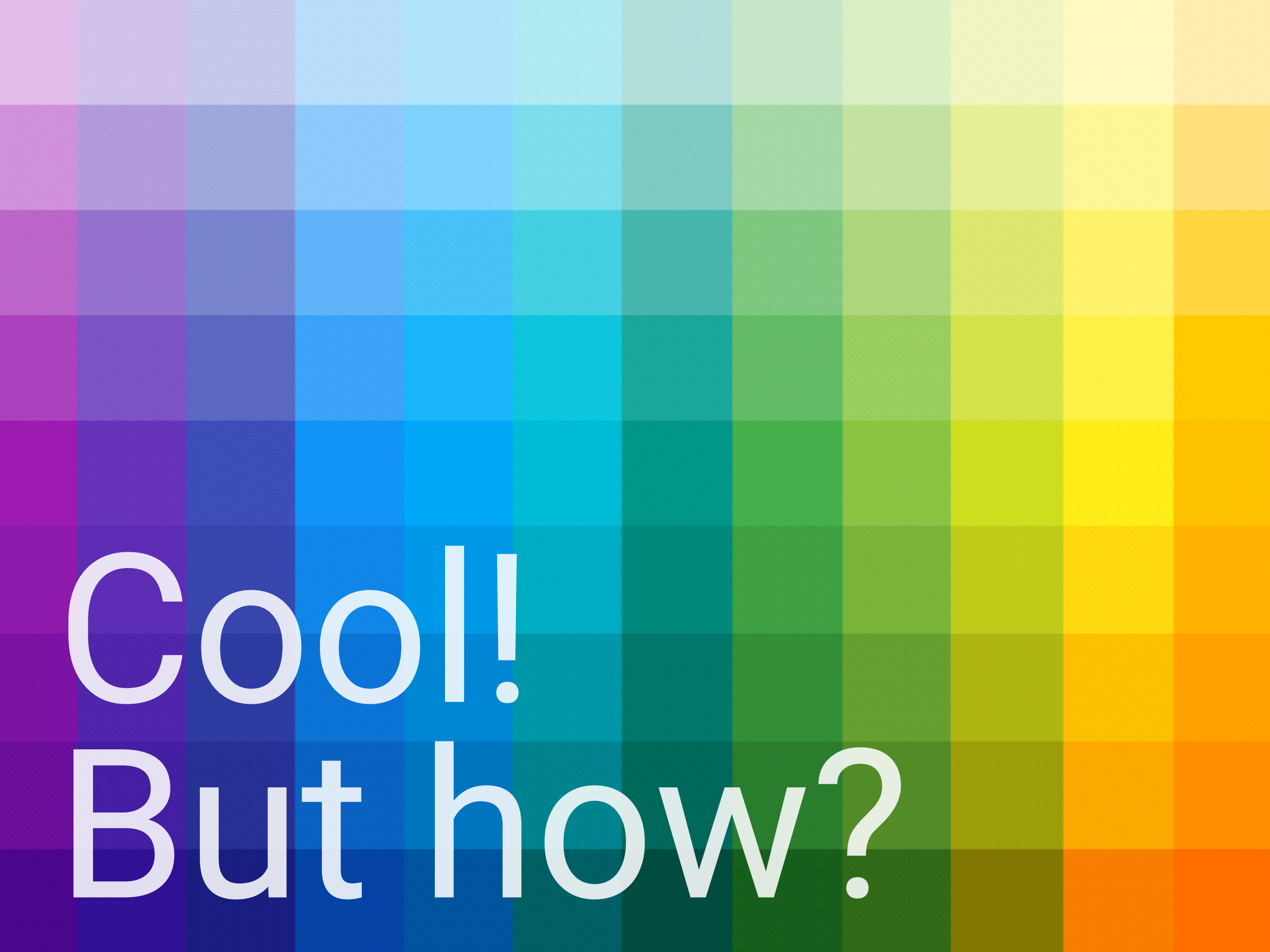


Jamie Lidell  
Jamie Lidell



Nocturnal  
Yuna





Cool!  
But how?

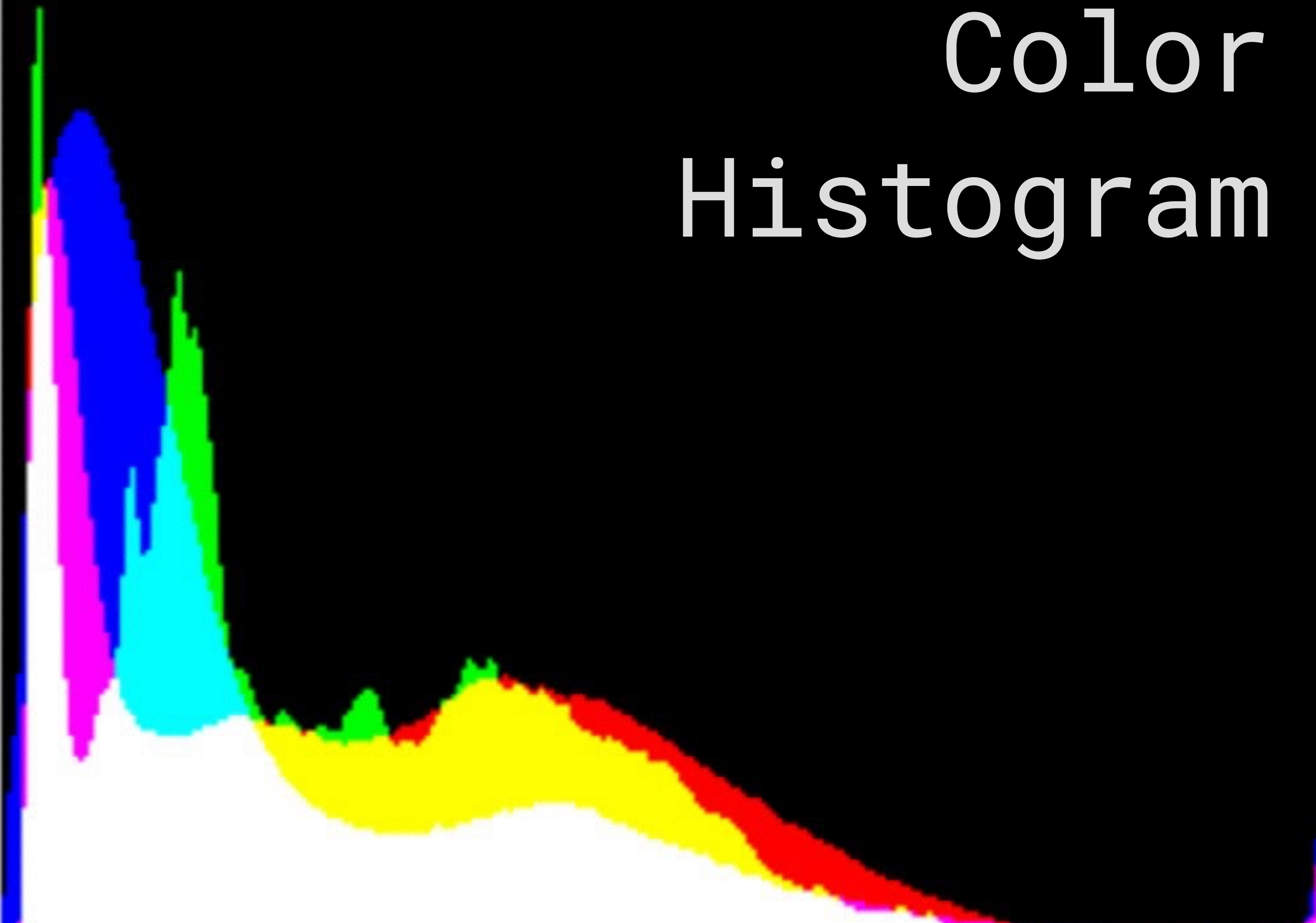


for now...  
vibrant.js



DEMO

# Color Histogram



# Colour Quantization



8.7

9.1

11.3

Swatch Scoring



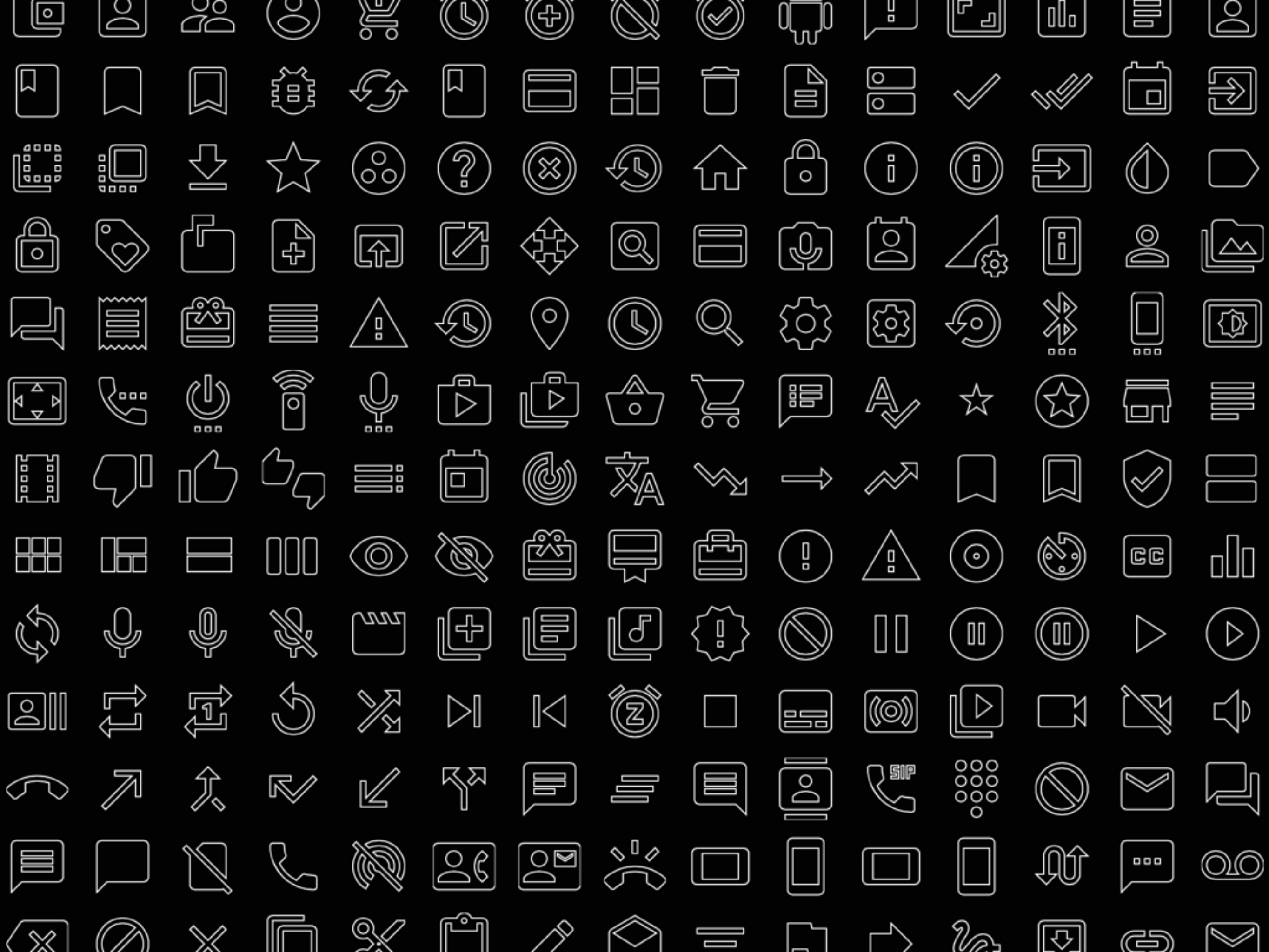
# Resources

# Material Palette

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

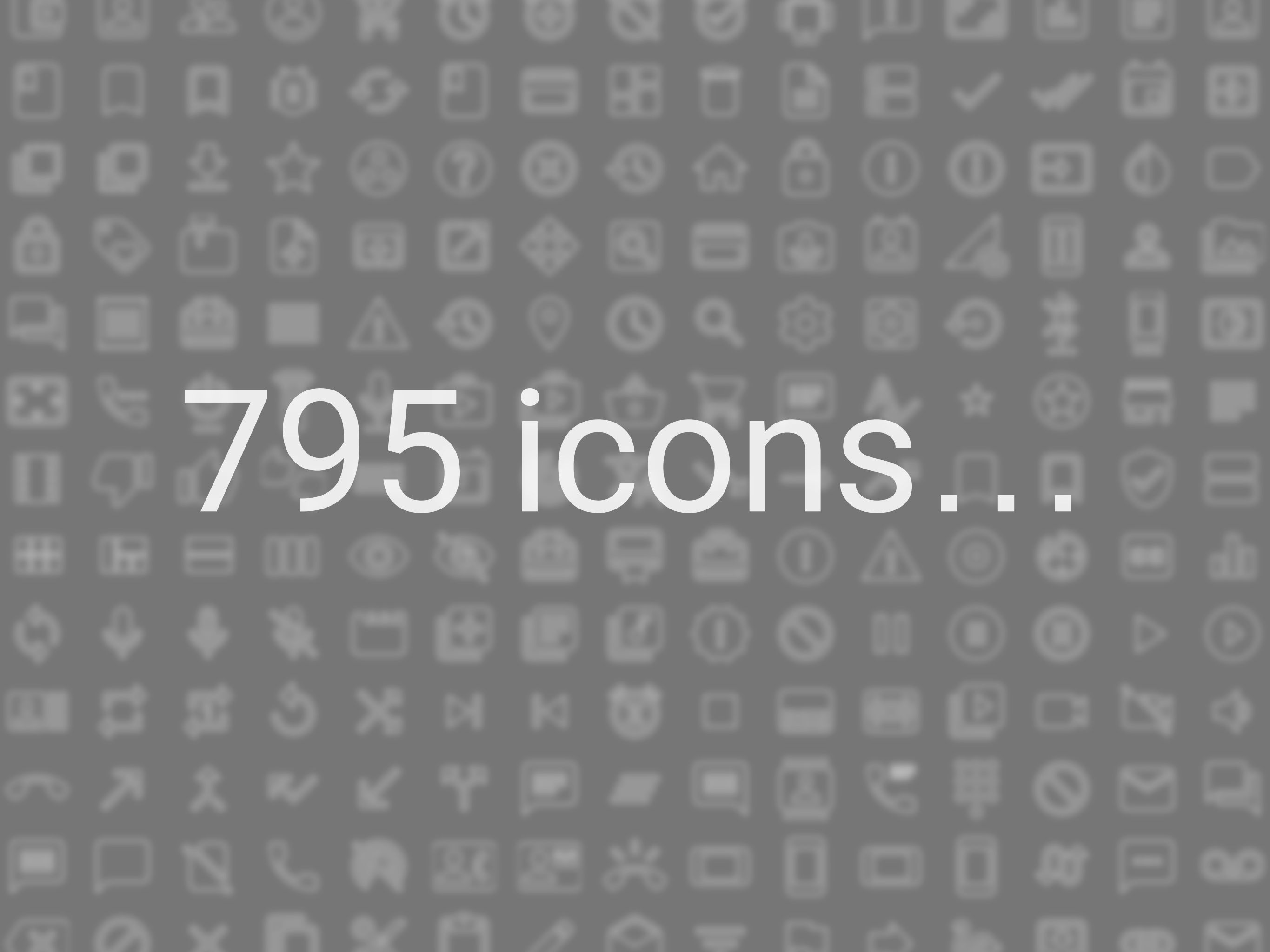
# Vibrant.js

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



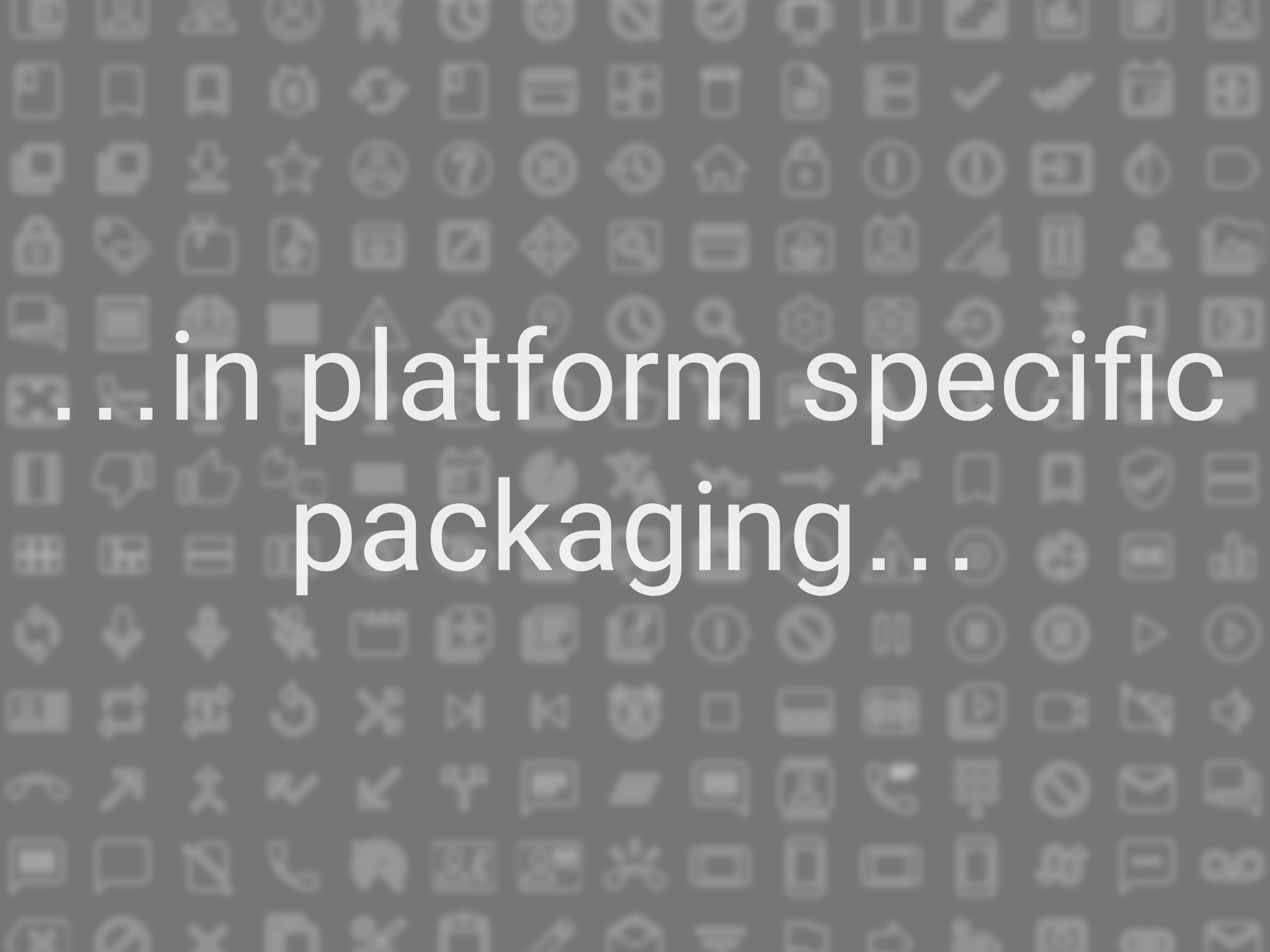
The background of the image is a dark gray grid filled with numerous small, light gray icons. These icons represent a wide variety of common digital symbols, including social media icons (like hearts, thumbs up, and speech bubbles), navigation icons (like arrows, home, and search), utility icons (like a magnifying glass, a star, and a checkmark), and other standard interface elements (like a trash can, a lock, and a key). The icons are arranged in a repeating pattern across the entire background.

# Icons!

The background of the image is a dark gray grid filled with a variety of white icons. These icons represent a wide range of common digital functions and symbols, such as social media, productivity, navigation, and communication. The text '795 icons...' is centered over this grid in a large, white, sans-serif font.

795 icons...

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

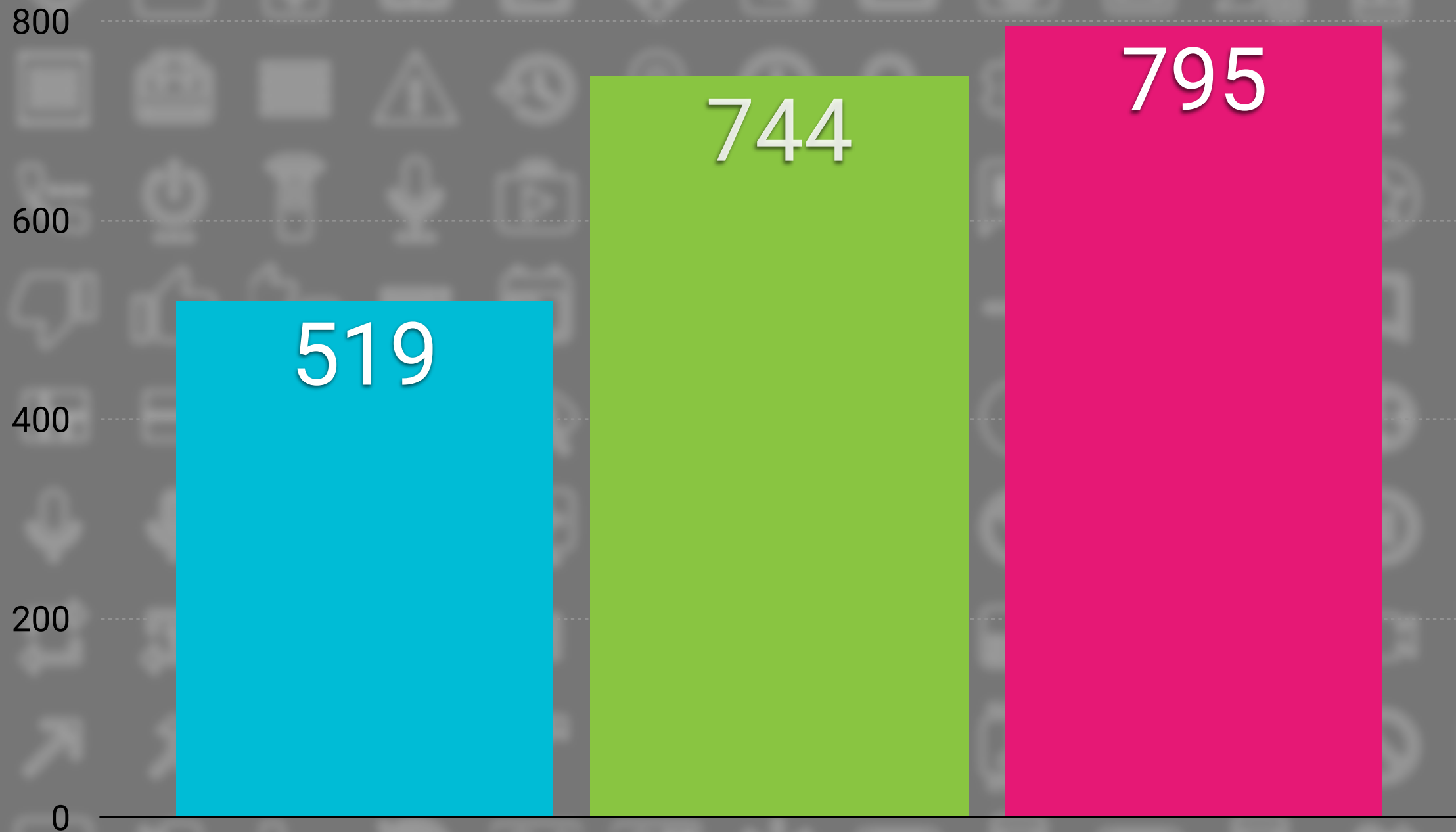


...in platform specific  
packaging...

...including an  
icon font!

# # of Icons

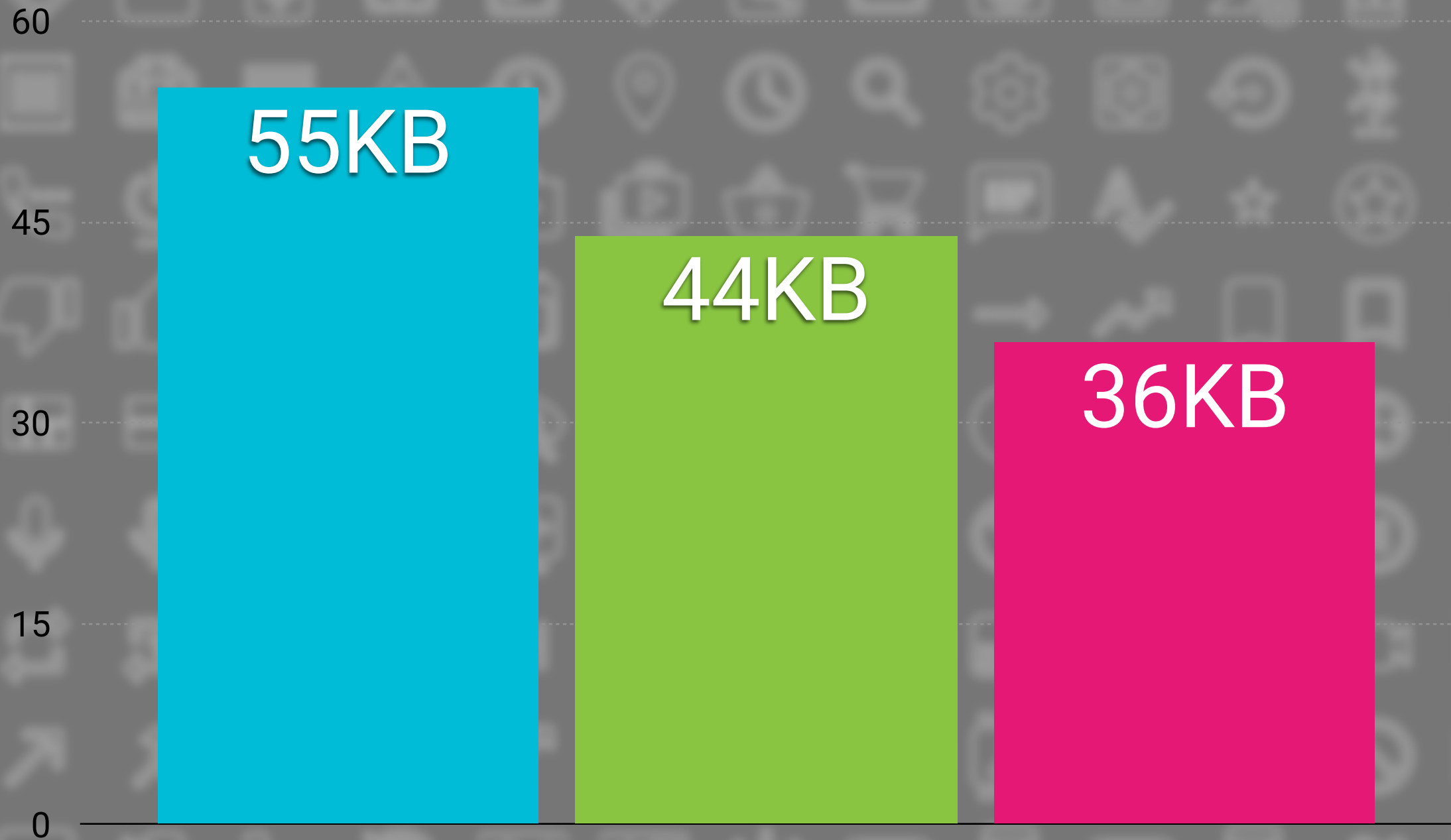
- Font Awesome
- Unofficial Material Icons
- Official Material Icons



# Font Size

(woff2)

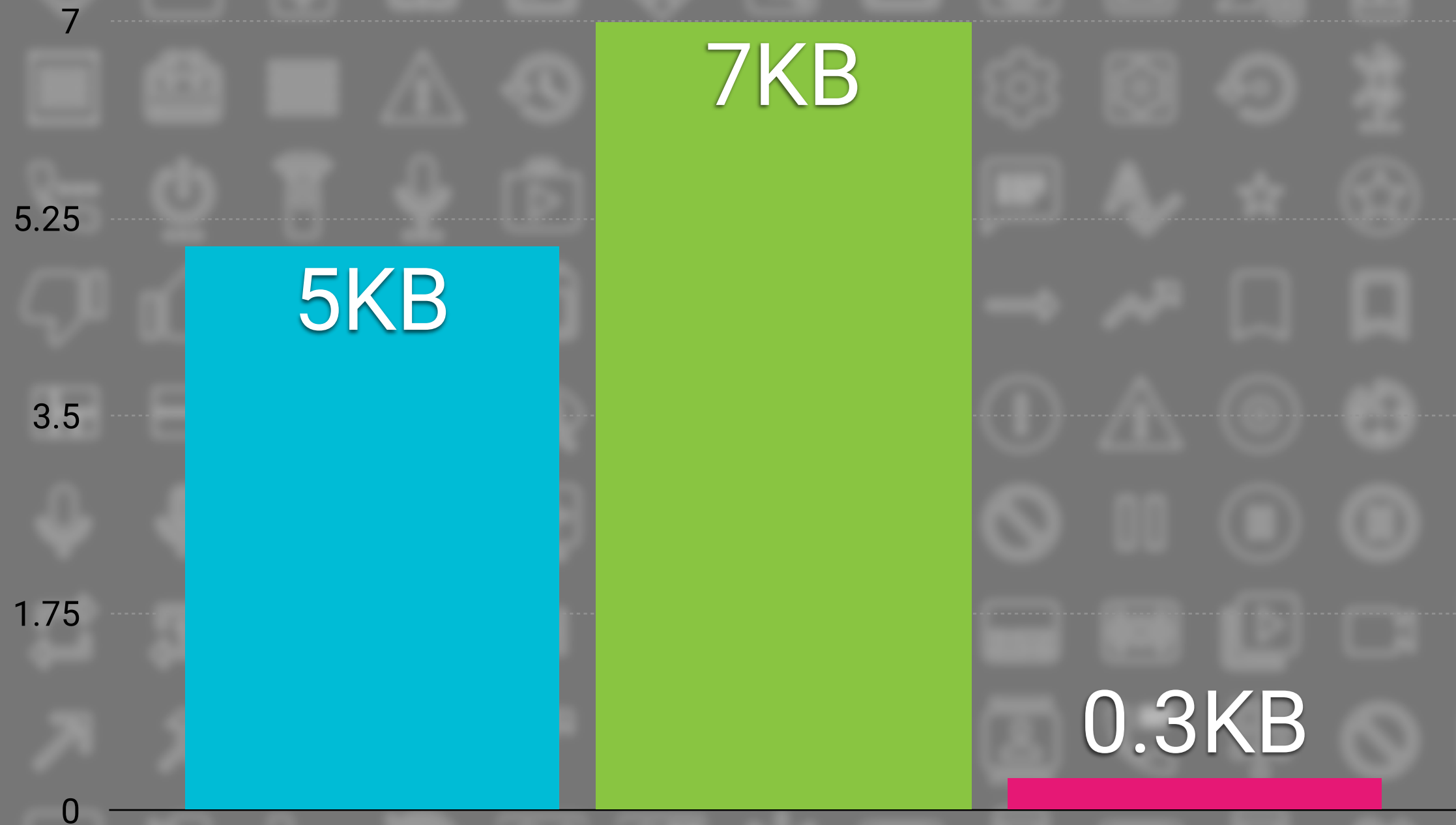
- Font Awesome
- Unofficial Material Icons
- Official Material Icons



# CSS Size

(gzipped)

- Font Awesome
- Unofficial Material Icons
- Official Material Icons





Why so little  
CSS?

because  
**Ligatures!**

fi



fn

fl



fl

3

&

```
.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>



The background of the image is a dark gray field covered with a repeating pattern of small, light gray icons. These icons represent a wide variety of common digital and office functions, such as file management (folders, documents), communication (mail, chat, phone), navigation (arrows, location pins), and general utility (search, settings, refresh).

# DEMO

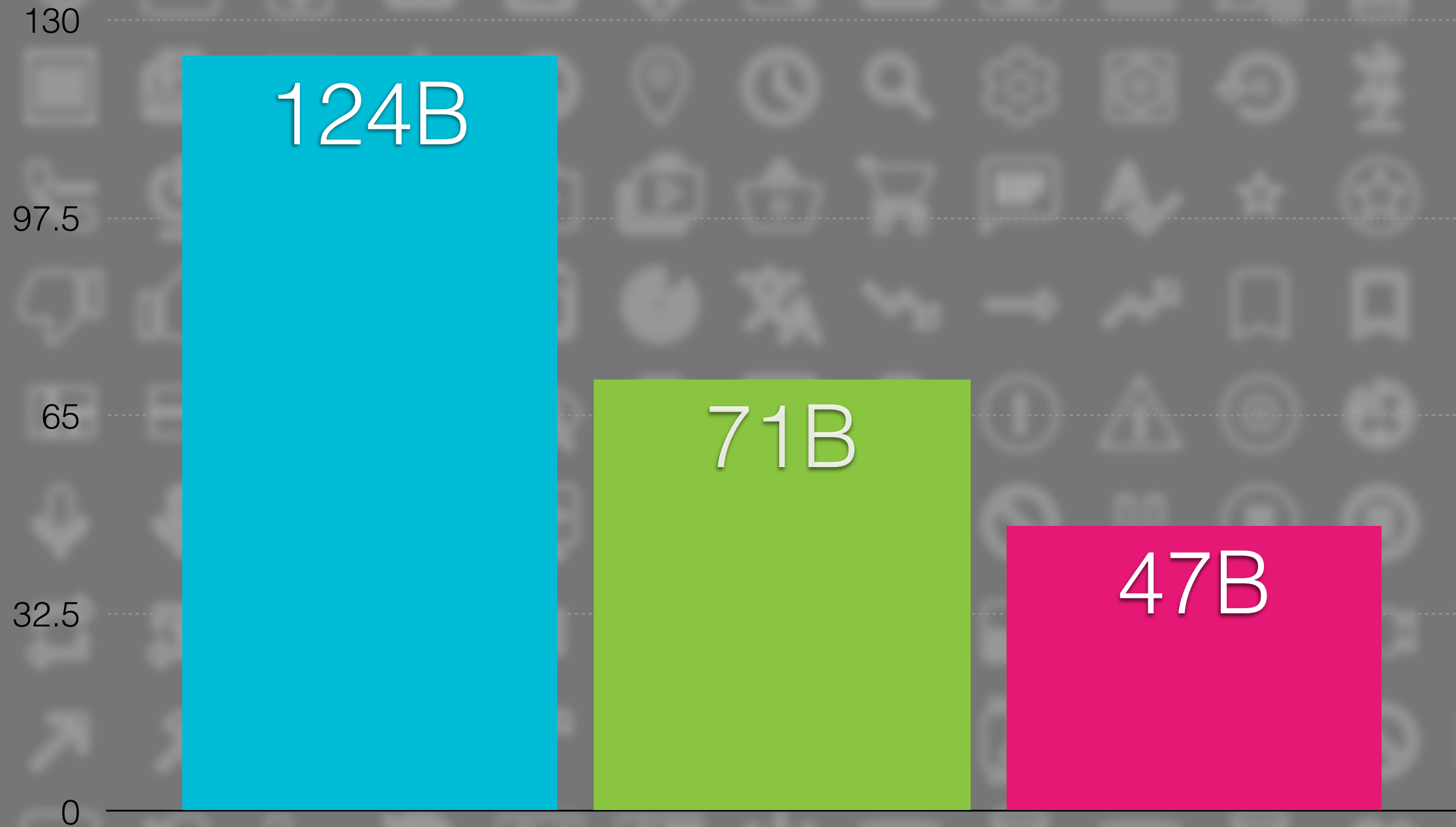
How exactly do you  
pronounce  
&#xEB57; ?

Sorry :(

Awesome  
Compression  
Ratios!

# Bytes/Icon

- Font Awesome
- Unofficial Material Icons
- Official Material Icons



The background of the slide is a dark gray color, overlaid with a repeating pattern of small, light gray icons. These icons represent a wide variety of common digital functions and symbols, such as file folders, document pages, search magnifying glasses, social media icons, and standard UI controls like arrows and checkboxes. The icons are arranged in a grid-like fashion, creating a textured, tech-oriented backdrop.

# RESOURCES

# Google Icon Site

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

# Our Github

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

# Material in Motion





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

