

AI x Design Tokens

(and more)



Hello, I'm Fede (she/her)

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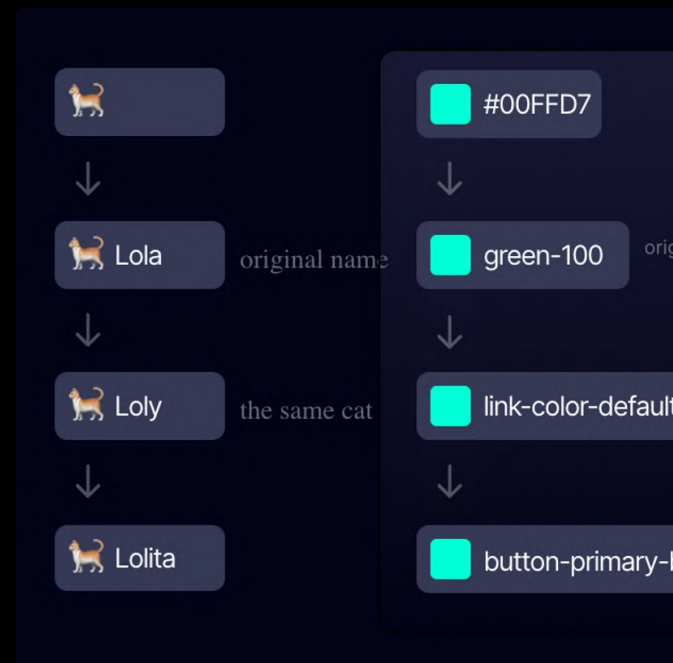
 Federica Cutrera



Agenda

01

Design Tokens



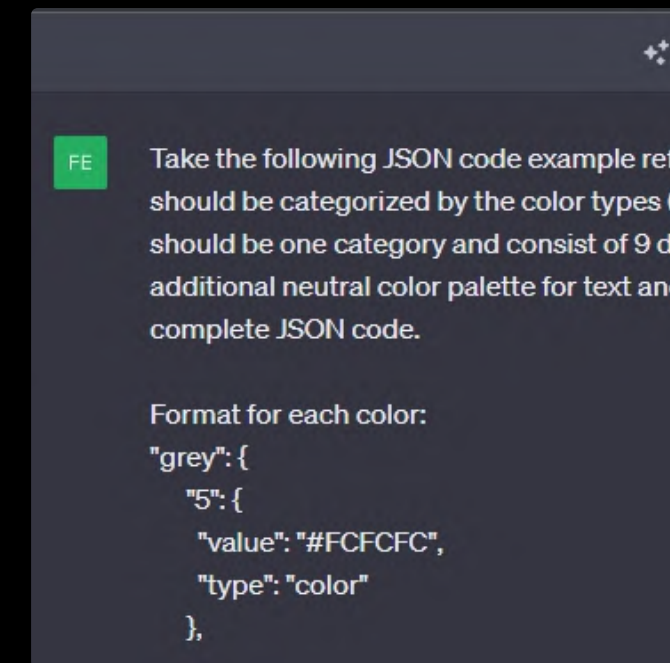
02

Figma Tokens Studio



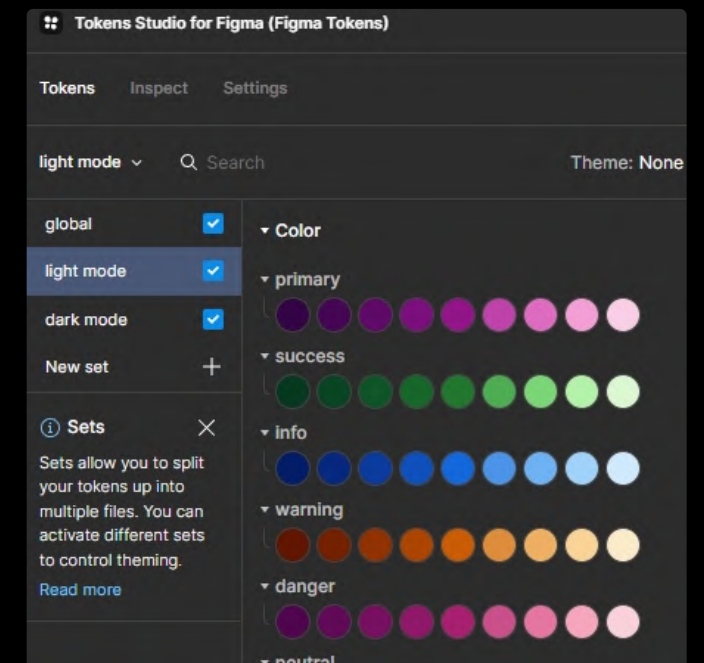
03

AI generated



04

Examples and thoughts



Raise
your
hand if
you
are...



1. Design Tokens

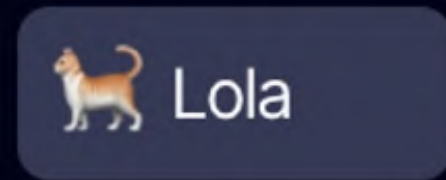
“Chat GPT, tell me what design tokens are as if I was 5 years old”



Sure, imagine you're playing with your Lego set. You have different kinds of pieces - the little single dots, the long 4-dots, the flat pieces, etc. You use them to build different things like cars, houses, or spaceships. Each of those Lego pieces is like a "design token" in the world of computer design.

Design tokens are the basic building blocks that are used to create a website or an app. Just like you use different Lego pieces to build different things, designers use design tokens to make different parts of a website. These tokens can represent colors, fonts, sizes, spaces, and other aspects that are important to make a website look and feel nice.

So, just as you can use the same Lego piece in different toys you build, designers can use the same design token in different parts of a website or across different websites or apps to keep things looking consistent. It's a clever way to make sure everything matches and looks good together!



original name



the same cat



#00FFD7



green-100

original name



link-color-default

the same color

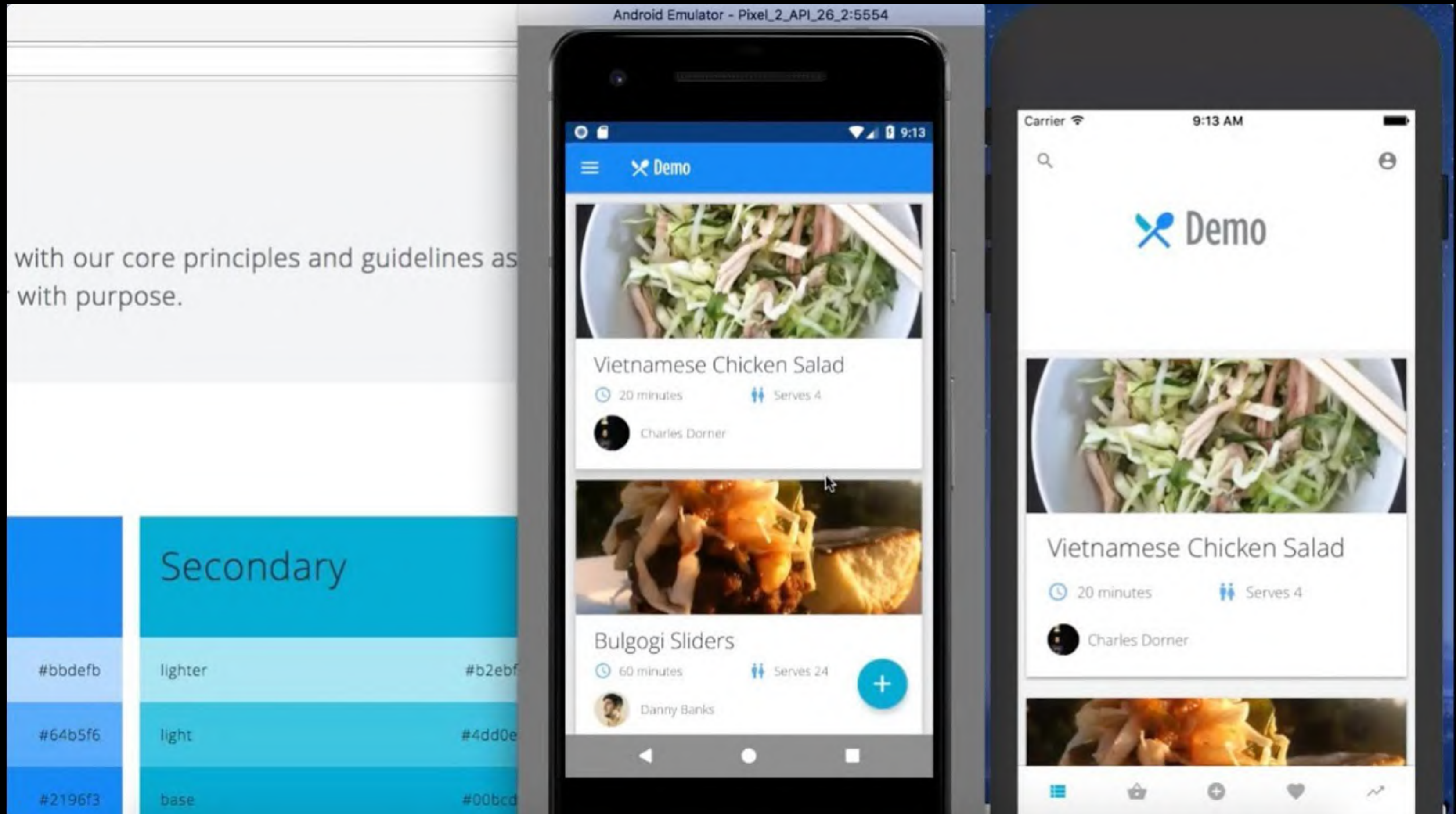


button-primary-background-color



Platform agnostic: Style Dictionary example

<https://youtu.be/1HREvonfqhY>



Benefits



Consistency

One single source of truth.



Scalability

Easy to manage implement changes.



Adaptability

Easily define different tokens for different screen sizes.



Cross-team collab

A common language between designers and developers.



Better User Experience

Every piece of the product shares the same design principle.



Efficiency

Platform agnostic, smooth handoff

How *designers?*



2. Figma Tokens studio

What?

And more

▼ Sizing

▼ Spacing

▼ Border Radius

▼ Border Width

▼ Border

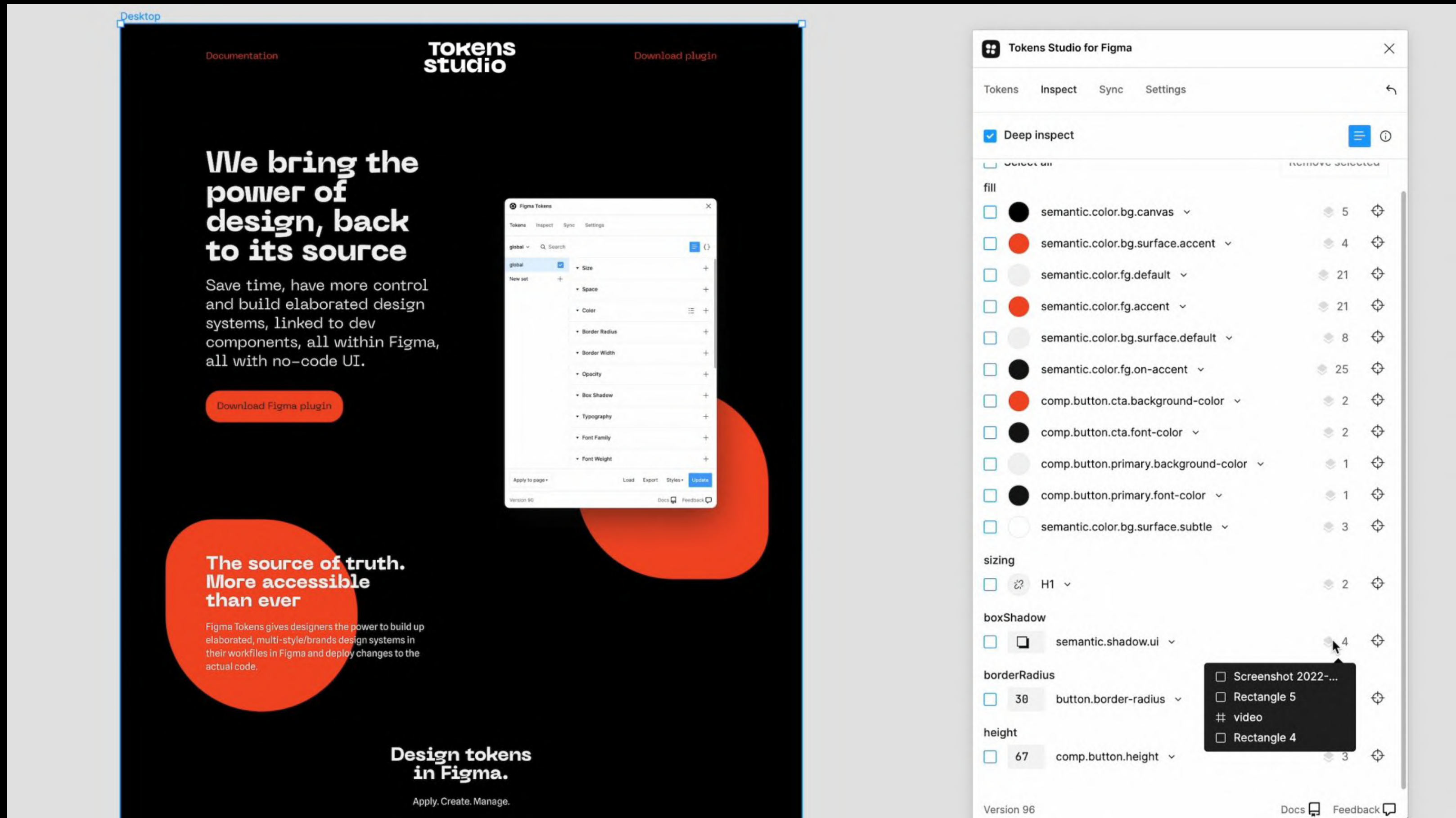
▼ Opacity

▼ Box Shadow

▼ Typography

▼ Font Family

▼ Font Weight

<https://tokens.studio/>

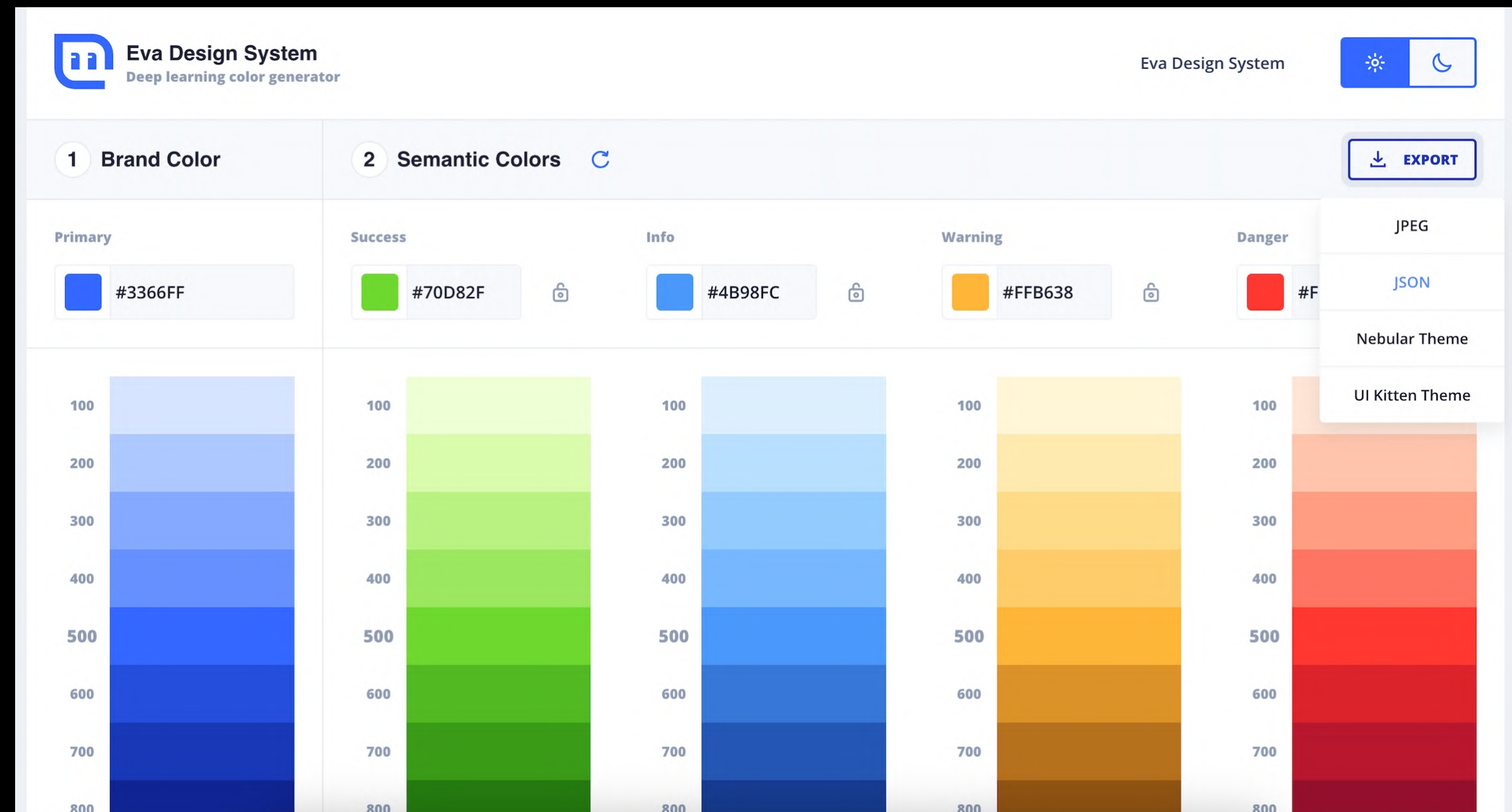
3. AI Generated

Let's get our hands dirty

03

AI Generated

Primary and
Semantics only



1.

Head to <https://colors.eva.design> and download the JSON file for the palette.

2.

Give **GPT-4** a prompt to:

- Rewrite the JSON to be read by Figma Tokens Studio
- Add the neutral colors to the palette

Take the following JSON code example reformat it to a color palette for a design system. It should be categorized by the color types (primary, success etc.). For example "primary" should be one category and consist of 9 different shades. Reformat all colors and add an additional neutral color palette for text and icons. Do not shorten the JSON code. Print the complete JSON code. Format for each color:

```
"grey": {  
  "5": {  
    "value": "#FCFCFC",  
    "type": "color"  
  },  
}
```


JSON Code, that needs to be reformatted:

//Paste Eva JSON here

* Prompt design by [Chris Lüders](#)



```
    "value": "#616161",
    "type": "color"
  },
  "700": {
    "value": "#424242",
    "type": "color"
  },
  "800": {
    "value": "#303030",
    "type": "color"
  },
  "900": {
    "value": "#212121",
    "type": "color"
  }
}
```

The "neutral" 

☐ Stop generating

Send a message.

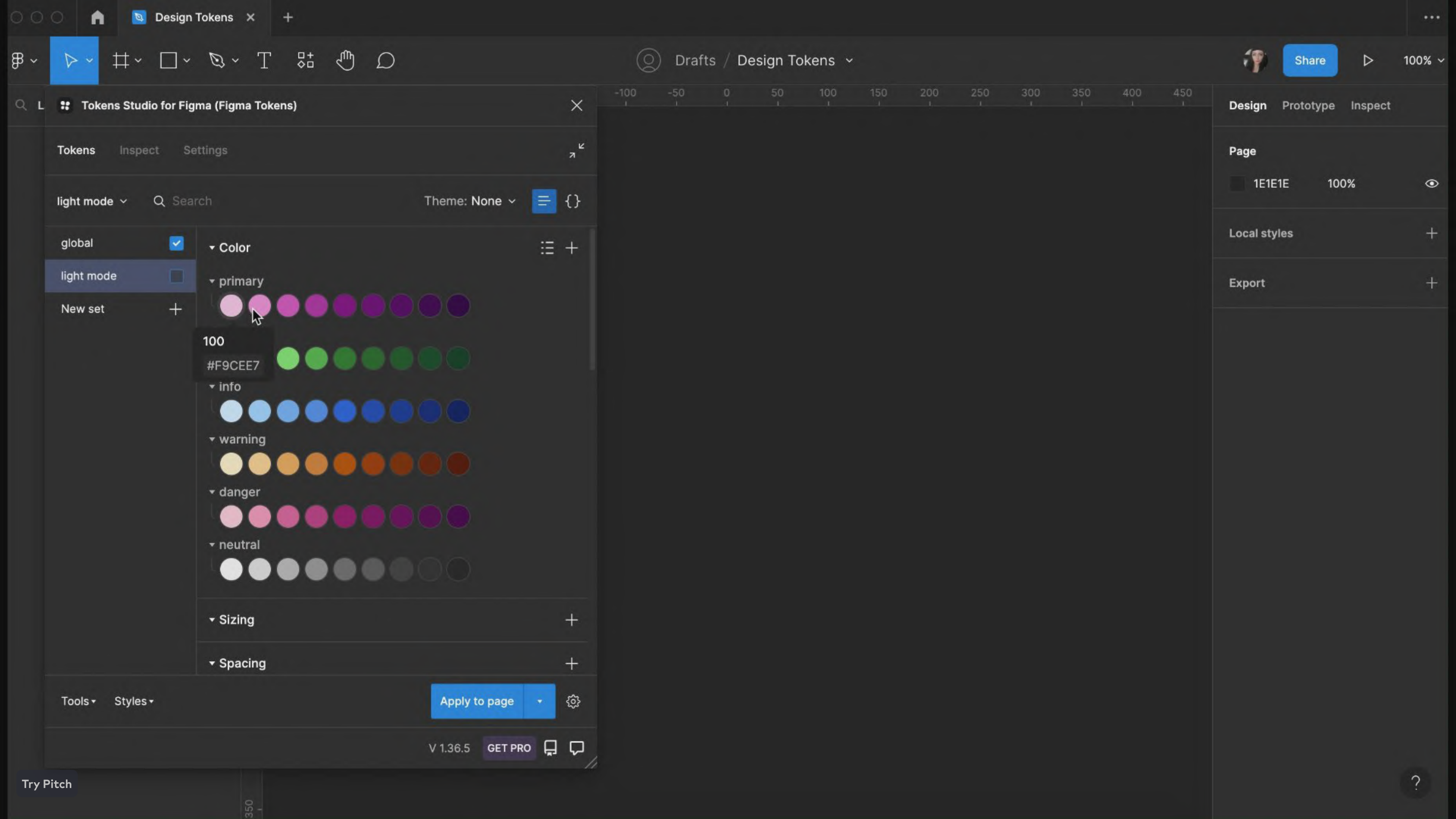
...

ChatGPT may produce inaccurate information about people, places, or facts. [ChatGPT May 24 Version](#)

Try Pitch

Copy the
generated JSON
and paste it on
Figma Tokens
Studio



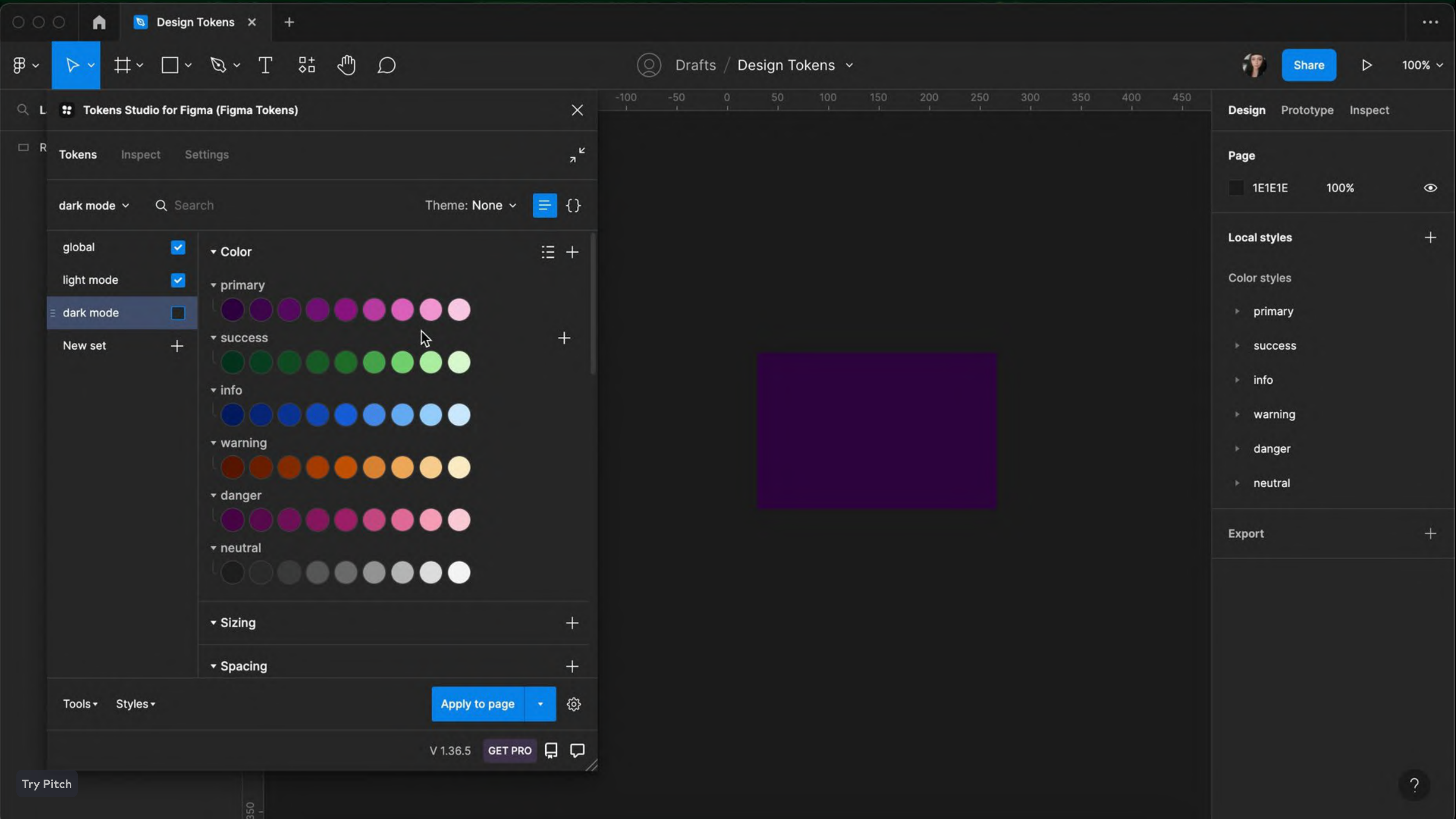


Dark Mode

In the same GPT-4 chat, ask to generate a dark mode version of the code. Then, add the generated JSON to Figma Token Studio.

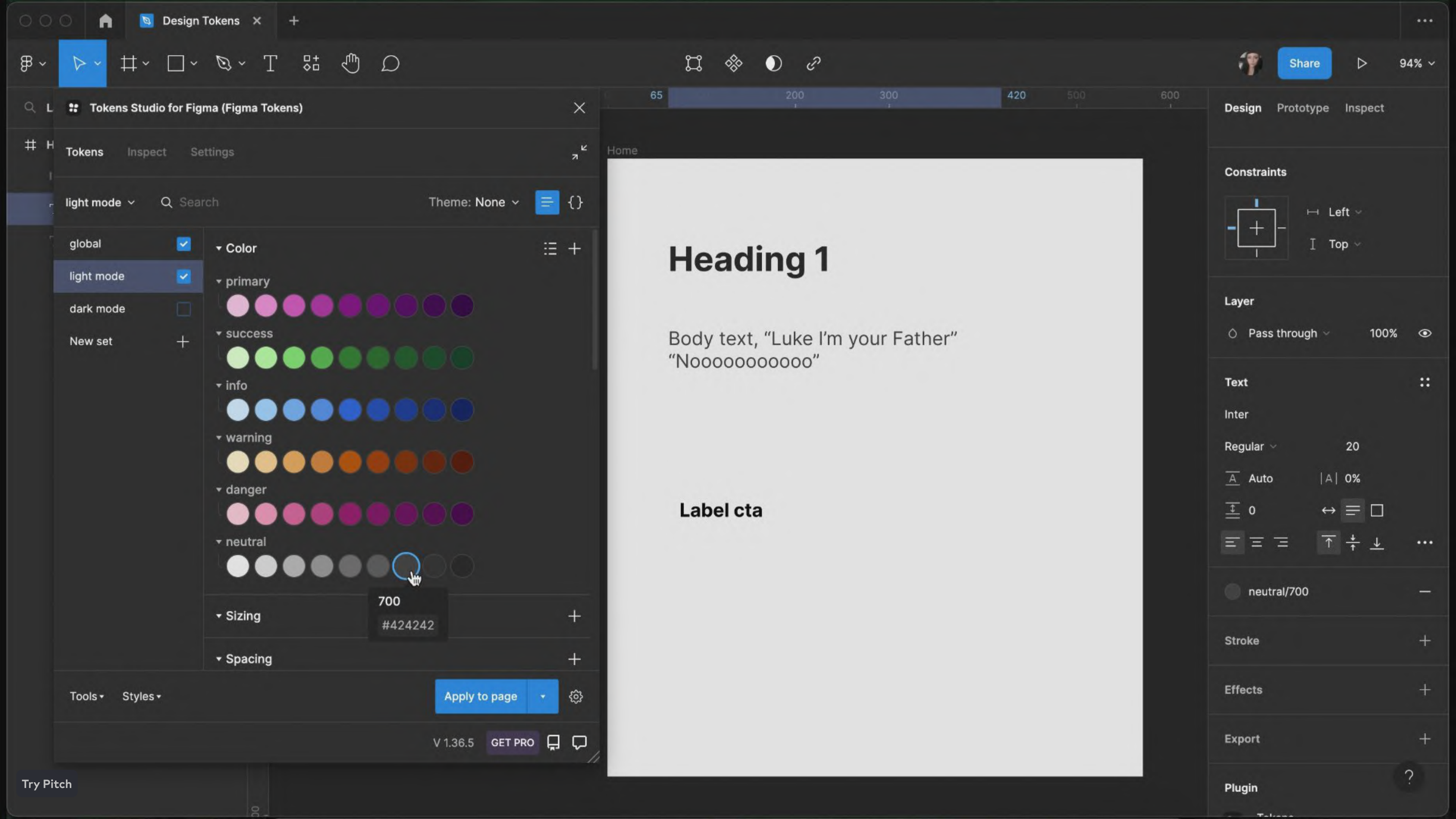
Now reformat the JSON again to create a dark mode version of it. Invert the order of the colors for each palette, so that the darker colors are used in lighter places and vice versa. The "100" color will be the darkest and the "900" color the lightest for each palette, which should provide a better contrast on dark backgrounds.

*Prompt design by [Chris Lüders](#)



Let the
magic
happpen







Typography

In a matter of
minutes



Give **GPT-4** a prompt to:

- Write the JSON to be read by Figma Tokens Studio
- Create a typography, let's say from 12px to 80px
- Organize the typography in categories (such as headings) and subcategories

Print a JSON object containing design tokens with the following contents and display it in a code box (do not stop until full code is printed):

The Tokens should focus on creating a typescale with the following Arrays of objects

1. Font Family: Inter, type=fontFamily
2. Font Size: from "xs" == "12px" to "xxl" == "80px", type=fontSize
3. Line Height: xs - xxl (pixels string is mandatory), type=lineHeight
4. Font Weights: "Regular", "Bold" (numeric values are forbidden), type=fontWeight
5. Create typography tokens with type "typography" including fontFamily, fontSize, lineHeight and fontWeight references (IMPORTANT: don't end the reference with ".value") as subsidiary object which is a subsidiary object called "value":
 - Headline <- use as sub category
 - H1 - H5
 - Intro
 - Body
 - Caption

Format

```
{
  group: {
    token: {
      value: string | number, (To use an alias in your tokens, we write them in
the following notation: {spacing.sm} but they cannot end with .value)
      type: "type"
    },
  },
}
```

* Prompt design by [Chris Lüders](#)

search

Tokens Studio for Figma (Figma Tokens)

Home

TokensInspectSettings

globalSearchTheme: None

global

light mode

dark mode

New set

```
{
  "type": "typography",
  "value": {
    "fontFamily": "{fontFamily.inter}",
    "fontSize": "{fontSize.lg}",
    "lineHeight": "{lineHeight.lg}",
    "fontWeight": "{fontWeight.regular}"
  },
  "type": "typography"
},
"intro": {
  "value": {
    "fontFamily": "{fontFamily.inter}",
    "fontSize": "{fontSize.lg}",
    "lineHeight": "{lineHeight.lg}",
    "fontWeight": "{fontWeight.regular}"
  },
  "type": "typography"
},
"body": {
  "value": {
    "fontFamily": "{fontFamily.inter}",
    "fontSize": "{fontSize.md}",
    "lineHeight": "{lineHeight.md}",
    "fontWeight": "{fontWeight.regular}"
  },
  "type": "typography"
},
"caption": {
  "value": {
    "fontFamily": "{fontFamily.inter}",
    "fontSize": "{fontSize.sm}",
    "lineHeight": "{lineHeight.sm}",
    "fontWeight": "{fontWeight.regular}"
  },
  "type": "typography"
}
}
```

ToolsStylesApply to page

mainGET PRO

Home

Heading 1

Body text, "Luke I'm your Father"
"Nooooooooooooo"

Label cta

Background

1E1E1E100%

Local styles

Color styles

primary

100

200

300

400

500

600

700

800

900

success

info

warning

danger

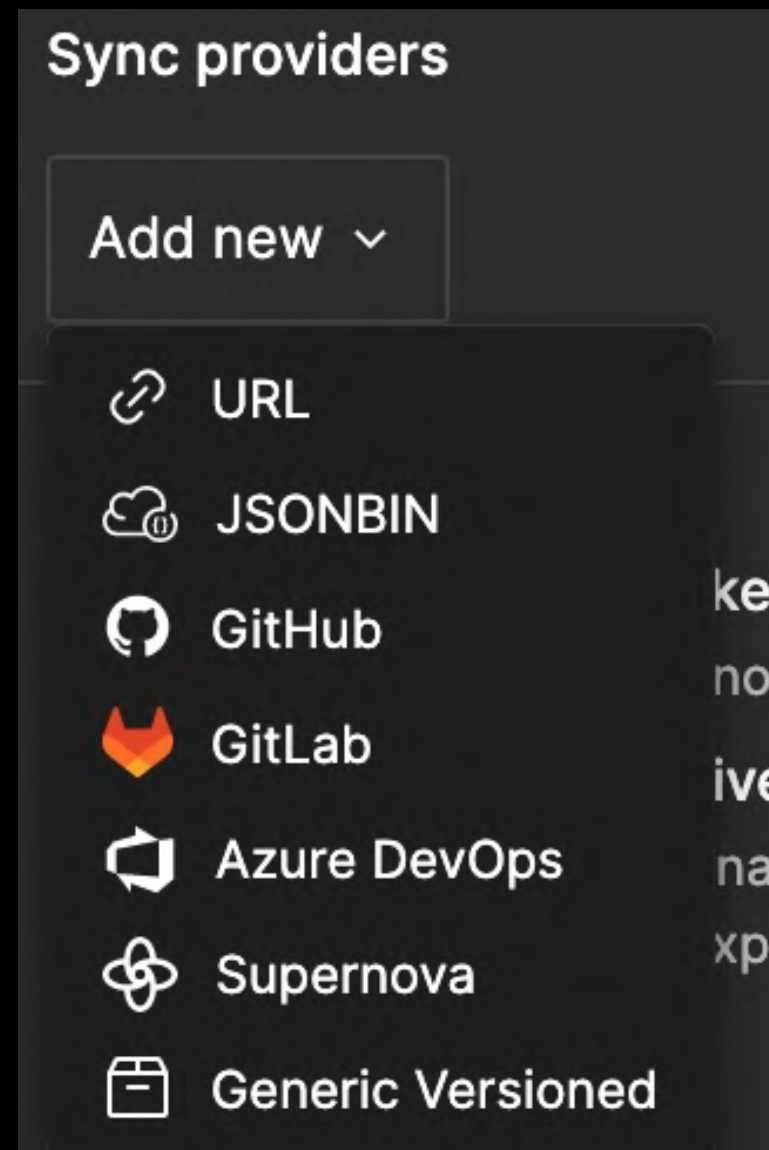
neutral

Export

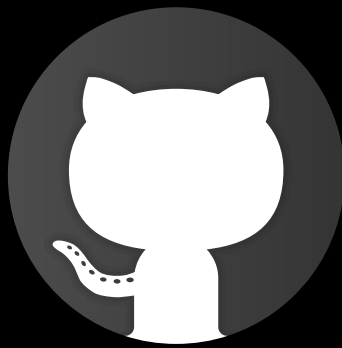
Tips & Tricks

Sync!

Design tokens can be directly synced to:



Use **GPT-4** because GPT-3 prints JSONs with errors and misses to add more than 1 neutral color or generating a complete typography.



Push to GitHub

Commit

Diff

JSON

Push your local changes to your repository.

SpleenF/tokenstestfede

Commit message

Enter commit message

Branch

main

Cancel

Push Changes

Tools ▾ Styles & Variables ▾

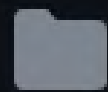
Apply to page ▾

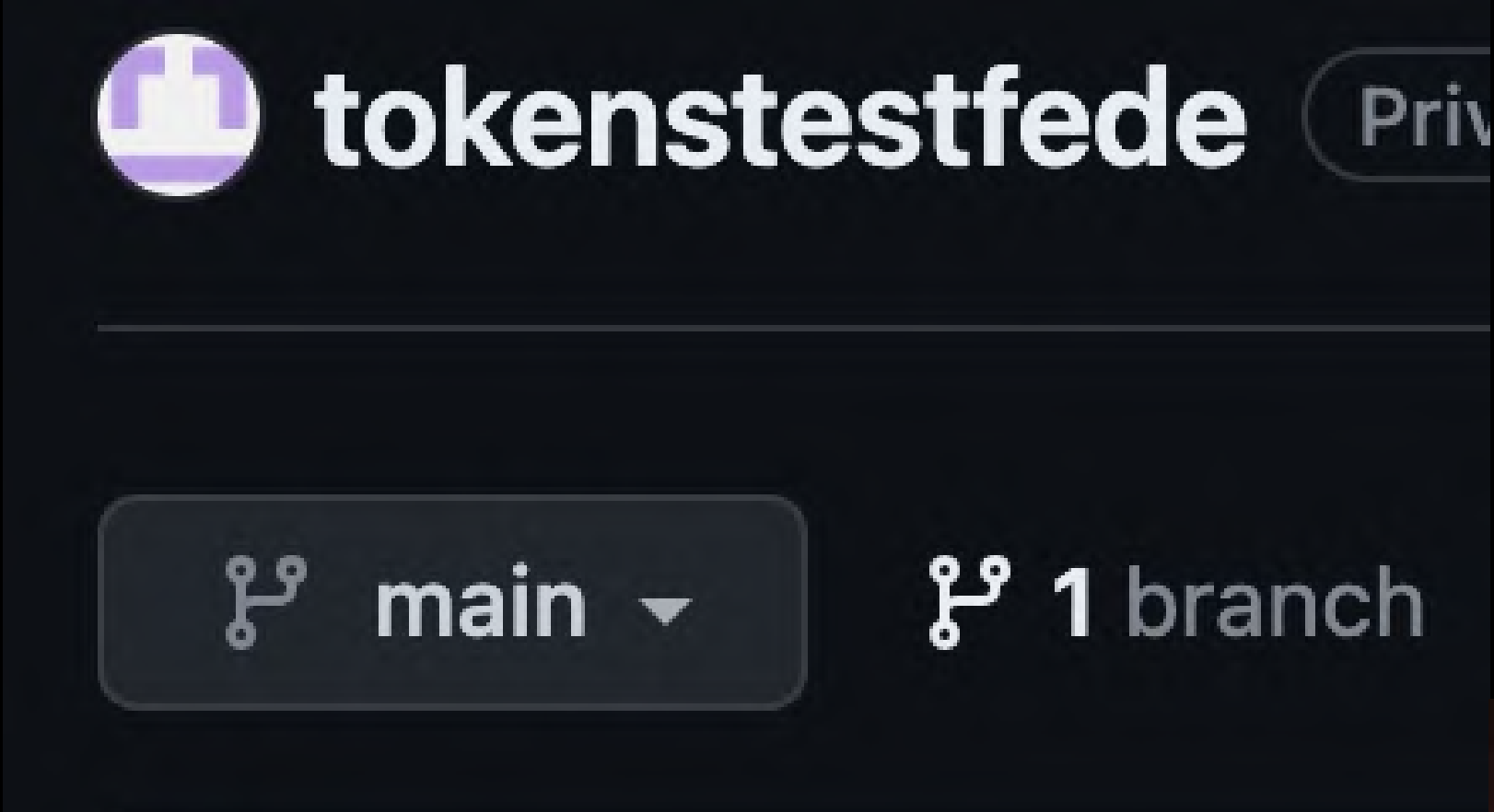


tokenstestfede

Privatemain1 branch0 tags

SpleenF typography

testtypographyREADME.mdCreate README.mdtokens.jsonmy first commit

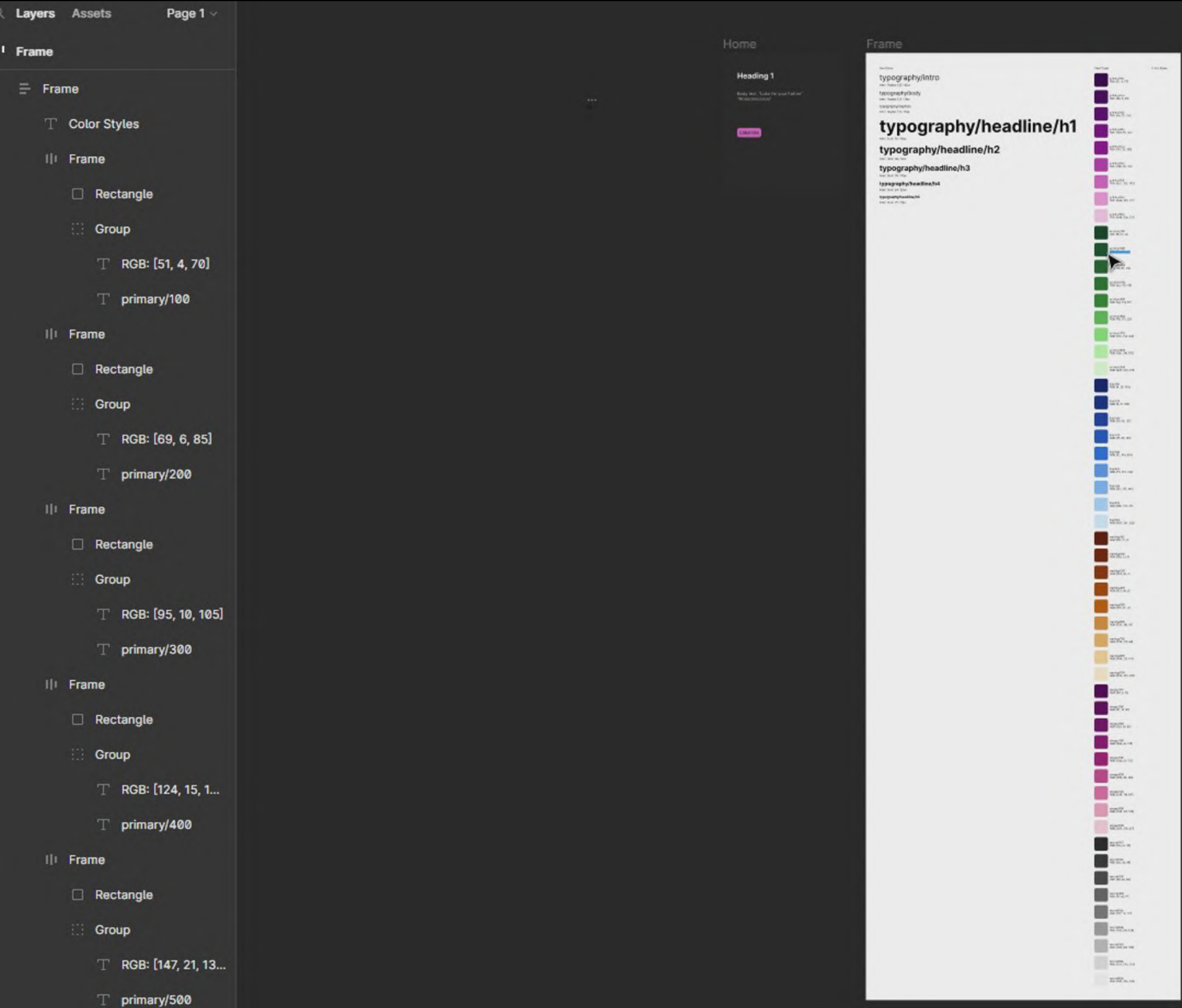


4. Examples & Final Thoughts

Figma Docs

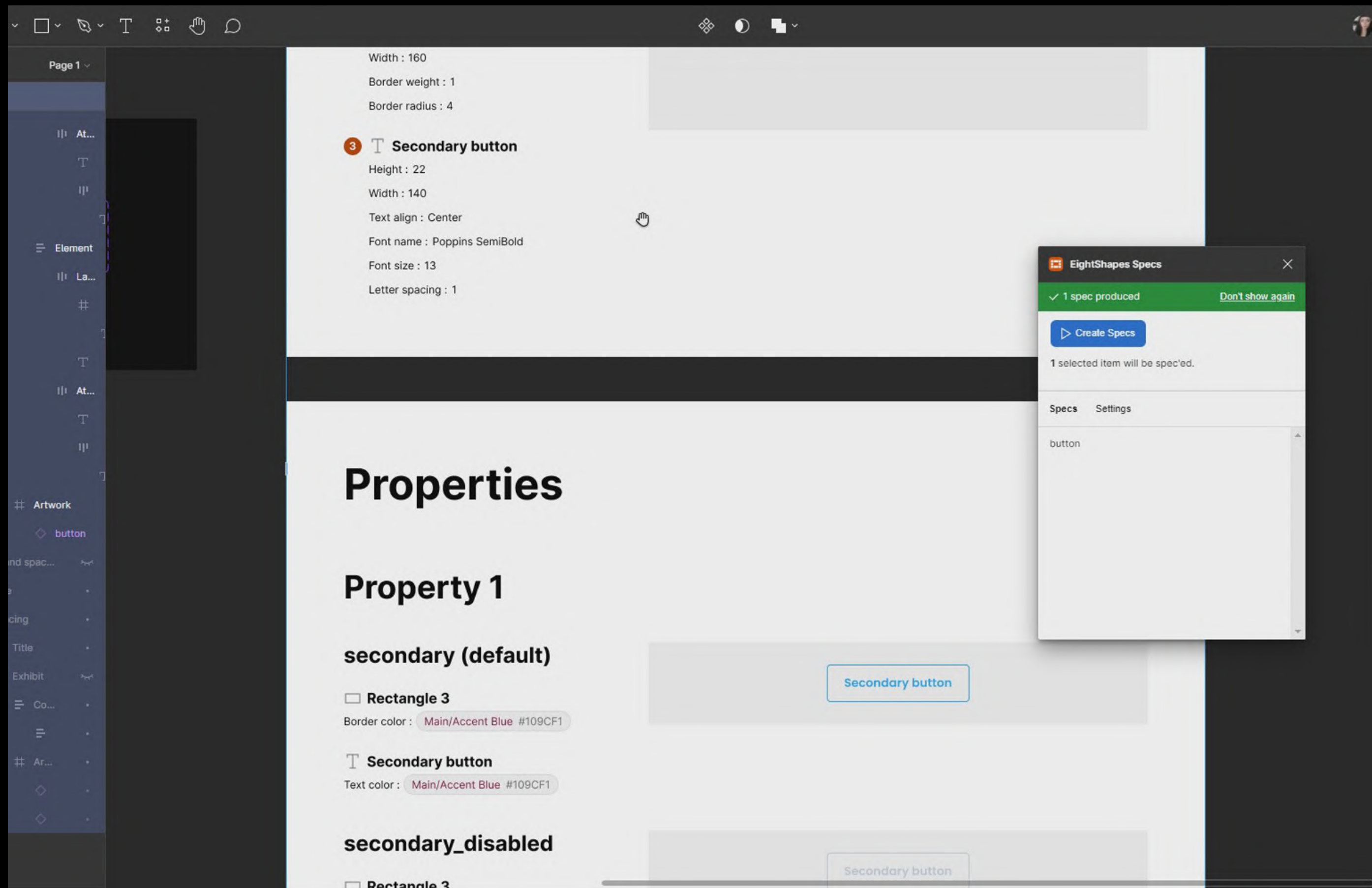
<https://www.figma.com/community/plugin/991866272578143756/Figma-Docs>

Examples

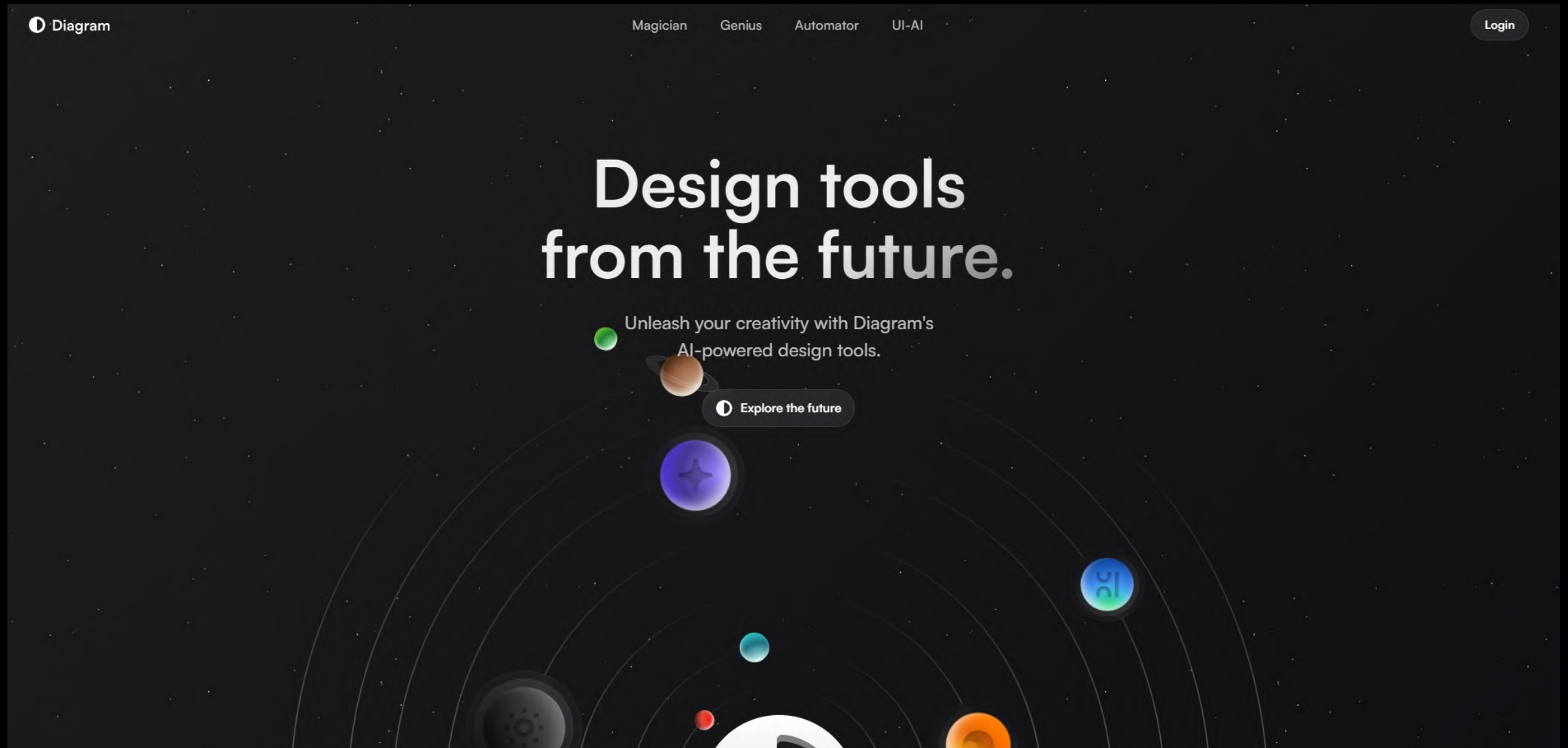


EightShapes Specs

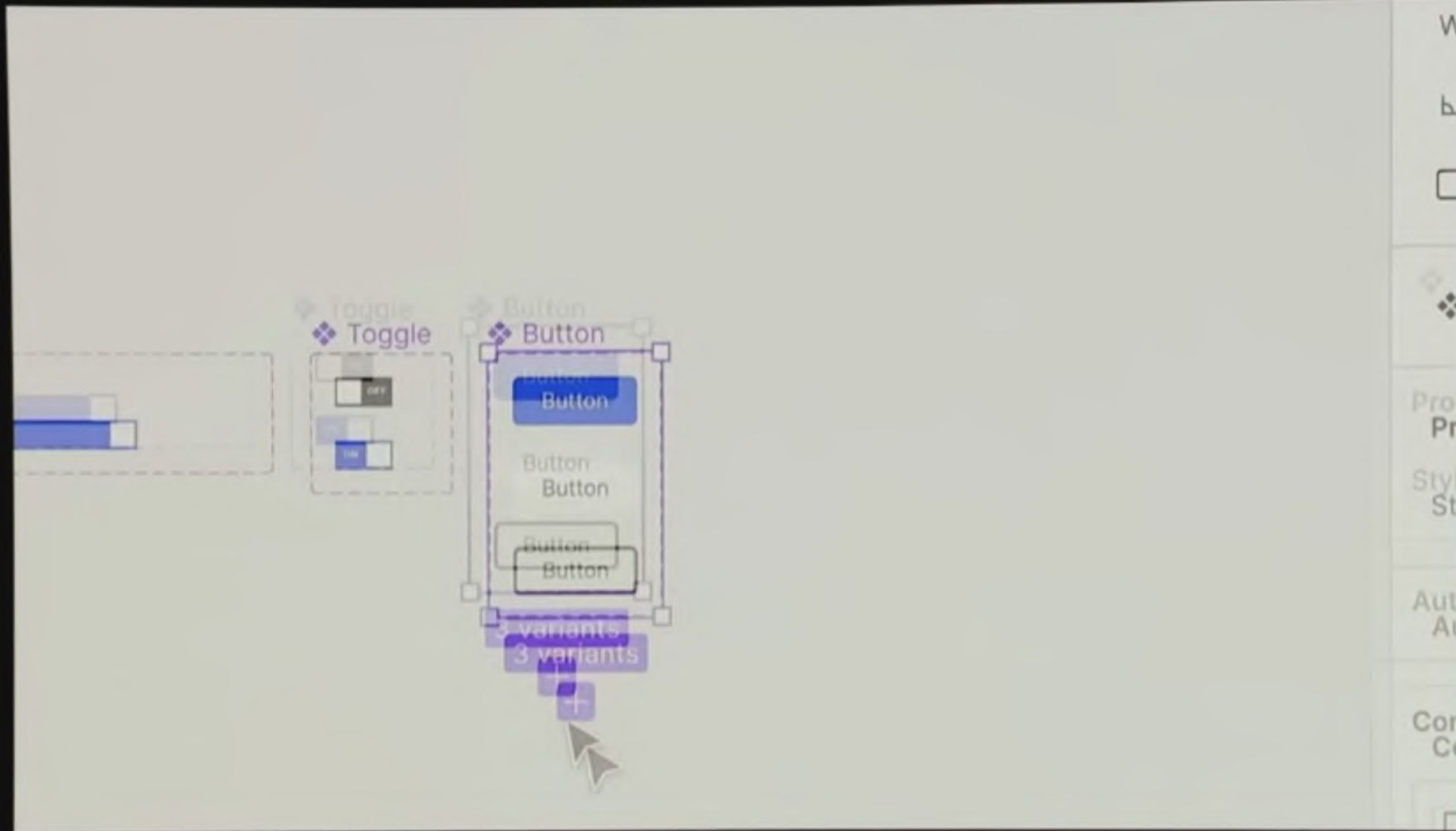
<https://www.figma.com/community/plugin/1205622541257680763/EightShapes-Specs>



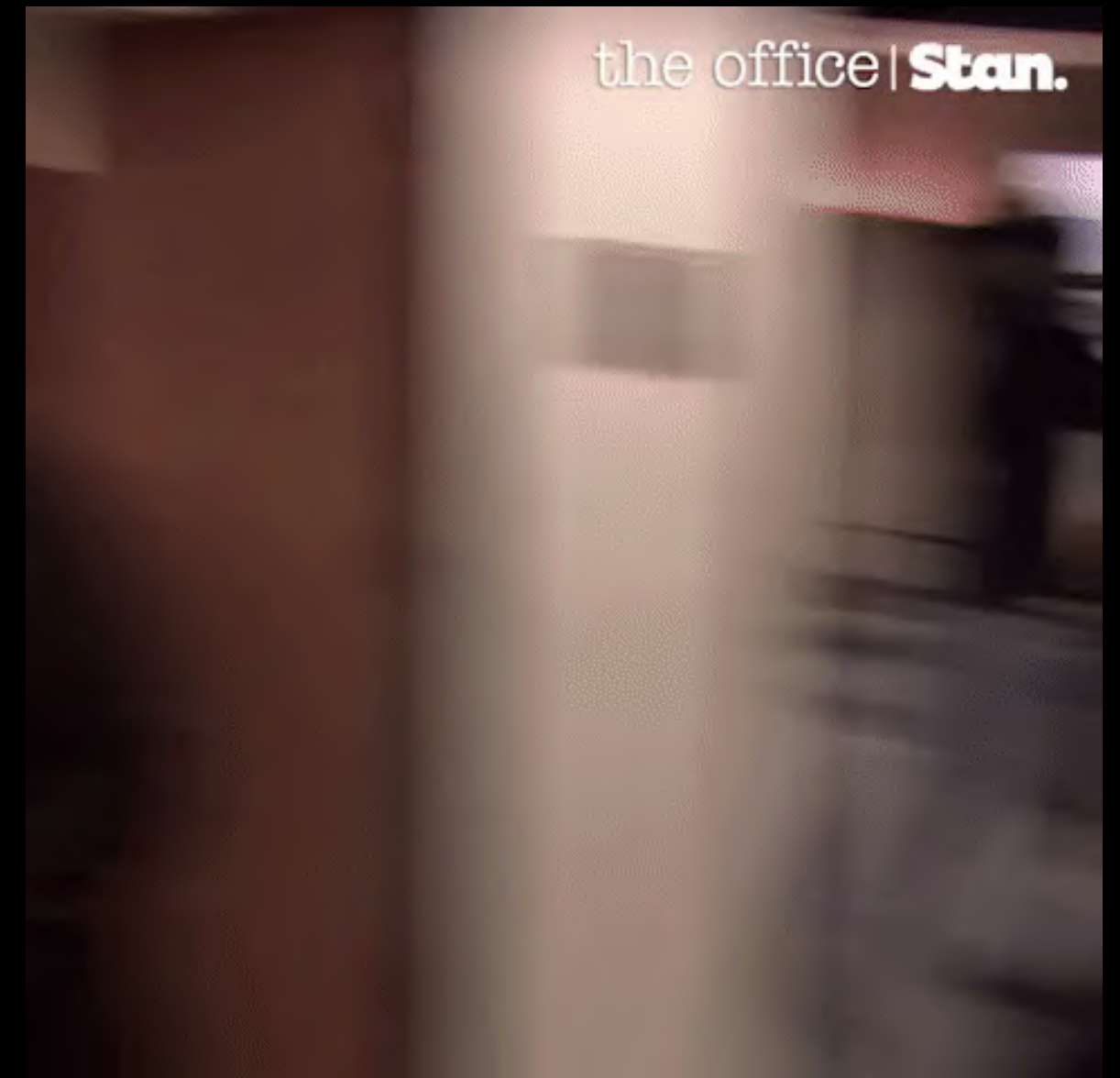
Config 2023*: Figma acquired Diagram



<https://diagram.com/>



Design is dead?



I don't think so:

#1

Speeding up repetitive tasks gives you more time to experiment

#2

It also gives you more time for UX, such as user testing, prototype iteration and so on

#3

Helps up developers too in speeding up certain tasks

Thank you!

