

#WWDC18

# Introducing Dark Mode

Raymond Sepulveda, Human Interface Design

Rachel Goldeen, Cocoa Frameworks

Taylor Kelly, Cocoa Frameworks

Calendars +

Day Week Month Year

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# June 5, 2018

Tuesday

all-day

9 AM

9:41 AM **Coffee with Kate** 10250 Bandley Dr Cupertino, CA, United States

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Coffee with Kate Personal

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## Summer Trip

Scheduled

iCloud

Reminders

Home

- Submit vacation request
- Meet with Anna and James to plan tr...
- Borrow Rachel's binoculars
- Buy extra AA batteries
- Check sunscreen expiration date
- Buy new hiking boots
- Pack passport
- Find a good water filter

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Version 1.4

Pages 6

Resolution 612x792

Security None

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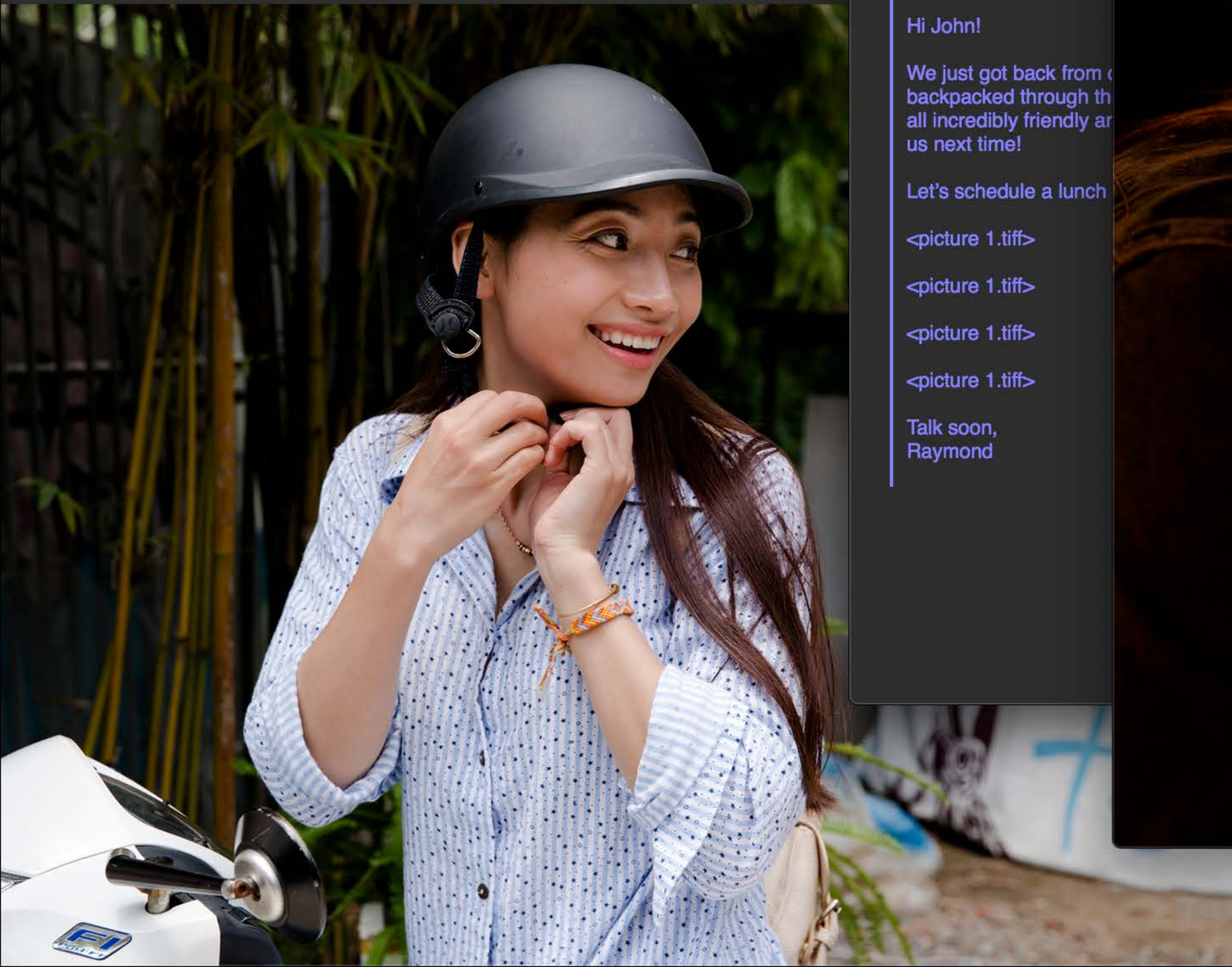
Inbox (16 messages, 6 unread)

★ Raymond Sepulveda  
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Let's schedule a lunch date soon so that we can catch up, I'll show you the rest of the trip photos.



To: Raymond Sepulveda

Cc:

Subject: Re: Vietnam Trip

Great photos!

I wish that I could have joined you on your trip. It sounds like you had a great time. Yes, let's do lunch soon! I'll be home in a few days. Let's schedule a lunch date soon so that we can catch up, I'll show you the rest of the trip photos.

- John

Move to...



On June 5, 2018 at 9:00 AM

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<picture 1.tiff>

<picture 1.tiff>

<picture 1.tiff>

<picture 1.tiff>

Talk soon,  
Raymond




Search

S

- Steve Lajos
- Sue Zeifman
- Synthia Wu

T

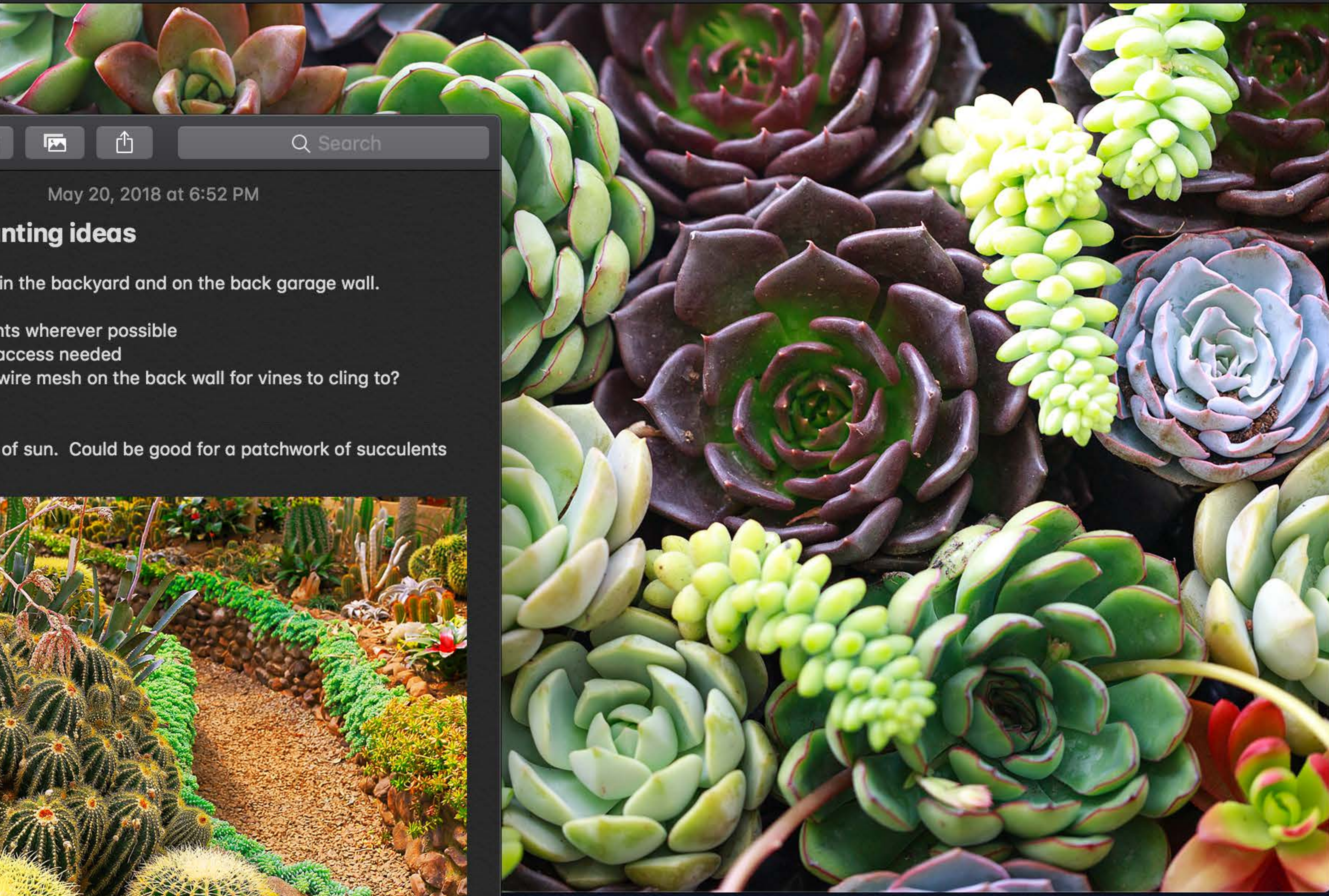
- Tammy Tien
- Tamsin Vantress
- Tasha Kelter
- Ted Paquin
- Teri Thomas**
- Thobeka Rigmaiden
- Ti Zhao
- Tiffany Frye
- Toby Bradbury

 Teri Thomas

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mobile (719) 555-9922

Succulent Collection



May 20, 2018 at 6:52 PM

**Kitchen remodel ideas**  
6:54 PM Modern kitchen desig...

**House design and ideas**  
6:53 PM 50's style but with open areas...

**Beach party location**  
6:53 PM Meet at the railroad tracks on...

**Birthday gift ideas**  
6:53 PM For Zoe

**June trip to Safari West**  
6:53 PM June 18 and 19.

**Backyard planting ideas**  
6:52 PM Ideas for greenery in t...

**Notes from PTA meeting**  
Yesterday Summer school starts June 1...

**Cool Local Hikes**  
Yesterday Mora

**Healthy salmon recipe**  
Yesterday Becky made this for...

**Housewarming party**  
Yesterday We'll have the party on Sept...


**Waterski Weekend - To bring**  
Yesterday Camanche lake - Aug 8th an...

**Backyard planting ideas**


Ideas for greenery in the backyard and on the back garage wall.

- Use native plants wherever possible
- Drip irrigation access needed
- Can we install wire mesh on the back wall for vines to cling to?

Notes:  
Side yard gets lots of sun. Could be good for a patchwork of succulents like this.





Hanging vine on top of door w' star jasmine on the right. Star jasmine might be good for our location.








General

Appearance:  

Accent color: 

Highlight color: Blue

Sidebar icon size: Medium

Automatically hide and show the menu bar

Show scroll bars:  Automatically based on mouse or trackpad  
 When scrolling  
 Always

Click in the scroll bar to:  Jump to the next page  
 Jump to the spot that's clicked

Default web browser: Safari

Ask to keep changes when closing documents  
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When selected, open documents and windows will not be restored when you re-open an app.



Recent items: 10 Documents, Apps, and Servers


Allow Handoff between this Mac and your iCloud devices

Use LCD font smoothing when available



### General

Appearance:  

Accent color: 

Highlight color: Blue ▾

Sidebar icon size: Medium ▾

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Use LCD font smoothing when available ?





### General

Appearance:  

Accent color: 

Highlight color: Orange ▾

Sidebar icon size: Medium ▾

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Use LCD font smoothing when available ?




General

Appearance:  

Accent color: 

Highlight color:  Yellow

Sidebar icon size:  Medium


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 When scrolling  
 Always


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Default web browser:  Safari

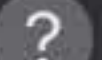
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Use LCD font smoothing when available 




General Search

Appearance:  

Accent color: ● ● ● ● ● ● ● ● ●

Highlight color: Green 

Sidebar icon size: Medium 


Automatically hide and show the menu bar

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Use LCD font smoothing when available ?





# Design Principles





Dark interfaces are cool

Dark interfaces are not just inverted

Dark Mode is content-focused

Dark interfaces are cool

Dark interfaces are cool

Dark interfaces are slick

Dark interfaces are professional

Dark interfaces are futuristic

Dark interfaces are beautiful





Dark interfaces are cool

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**Dark interfaces are not just inverted**

Dark Mode is content-focused

Opposite visual cues

**Light**

**Light**

**Light**

**Light**

Dark

Dark

Dark

Dark



**Light**

**Light**

Dark

Dark

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Coffee with Kate

Personal

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Summer Trip + Search

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The Art of Tea

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Pages

1 The Art of Tea

2 Japanese Tea Ceremony

3 Dōgu: Tea Tools

4 Tea: Ceremony

Calm



# Japanese Tea Ceremony

**和**

**礼**

**清**

**寂**

**Wa (Harmony)**  
*"Experiencing harmony with other people and with nature."*  
 The host should try to bring harmony into the ceremony – for instance, the utensils used must work harmoniously together.

**Kei (Respect)**  
*"Respecting all things, whatever our status."*  
 Guests show respect during the ceremony by carefully handling the utensils that the host has chosen.

**Sei (Purity)**  
*"Leaving behind the trappings of day-to-day life."*  
 Guests should leave other thoughts behind and focus on the ceremony itself.

**Jaku (Tranquility)**  
*"Creating a sense of calm, even amid chaos."*  
 Once the guests at the ceremony have experienced harmony, respect, and purity, they can achieve tranquility.

**The Japanese tea ceremony is called *chanoyu*, *sado*, or *ocha*. It is a ritual that was developed hundreds of years ago and involves the preparation and serving of a green tea called *matcha*.**

Over the centuries, the tea ceremony has been politically significant. In the sixteenth century, it was used by powerful leaders who fought to unify different parts of Japan. Oda Nobunaga, a powerful samurai warrior, used the tea ceremony to win over wealthy merchants. And later, Toyotomi Hideyoshi (famed as one of Japan's great unifiers) used the ceremony as a political tool to entertain allies.

However, the ceremony is not just about drinking tea. It's about building bonds of friendship in a pleasant, relaxing environment. And creating a balance between the material things in life and our inner selves. The ultimate aim of the tea ceremony is to attain deep spiritual satisfaction through ritual and contemplation.

The tea ceremony is popular with rich and poor alike. In this way, it has played an important part in unifying the Japanese people.

Style Text Arrange

Sidebar Heading

Style Layout More

Font

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Bold 12 pt

B I U

Character Styles None

Alignment

Spacing 1.0 - Single

Bullets & Lists None



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- Ailish Kimber Yesterday  
Baby Jessica  
Hello Everyone, We wanted to say thank you for all your

☆ Raymond Sepulveda  
Vietnam Trip  
To: John Appleseed

Hi John!

We just got back from our trip to Vietnam and I wanted to share some of our photos with you. We backpacked through the country for two weeks and had an experience we'll never forget. The people were all incredibly friendly and we made a lot of new friends as we traveled around the country. You should join us next time!



Let's schedule a lunch date soon so that we can catch up, I'll show you the rest of the trip photos then!








### General

Appearance:  

Accent color: 

Highlight color: Blue ▾

Sidebar icon size: Medium ▾

Automatically hide and show the menu bar

---

Show scroll bars:  Automatically based on mouse or trackpad  
 When scrolling  
 Always

Click in the scroll bar to:  Jump to the next page  
 Jump to the spot that's clicked

---

Default web browser: Safari ▾

---

Ask to keep changes when closing documents  
 Close windows when quitting an app  
When selected, open documents and windows will not be restored when you re-open an app.

Recent items: 10 ▾ Documents, Apps, and Servers

Allow Handoff between this Mac and your iCloud devices

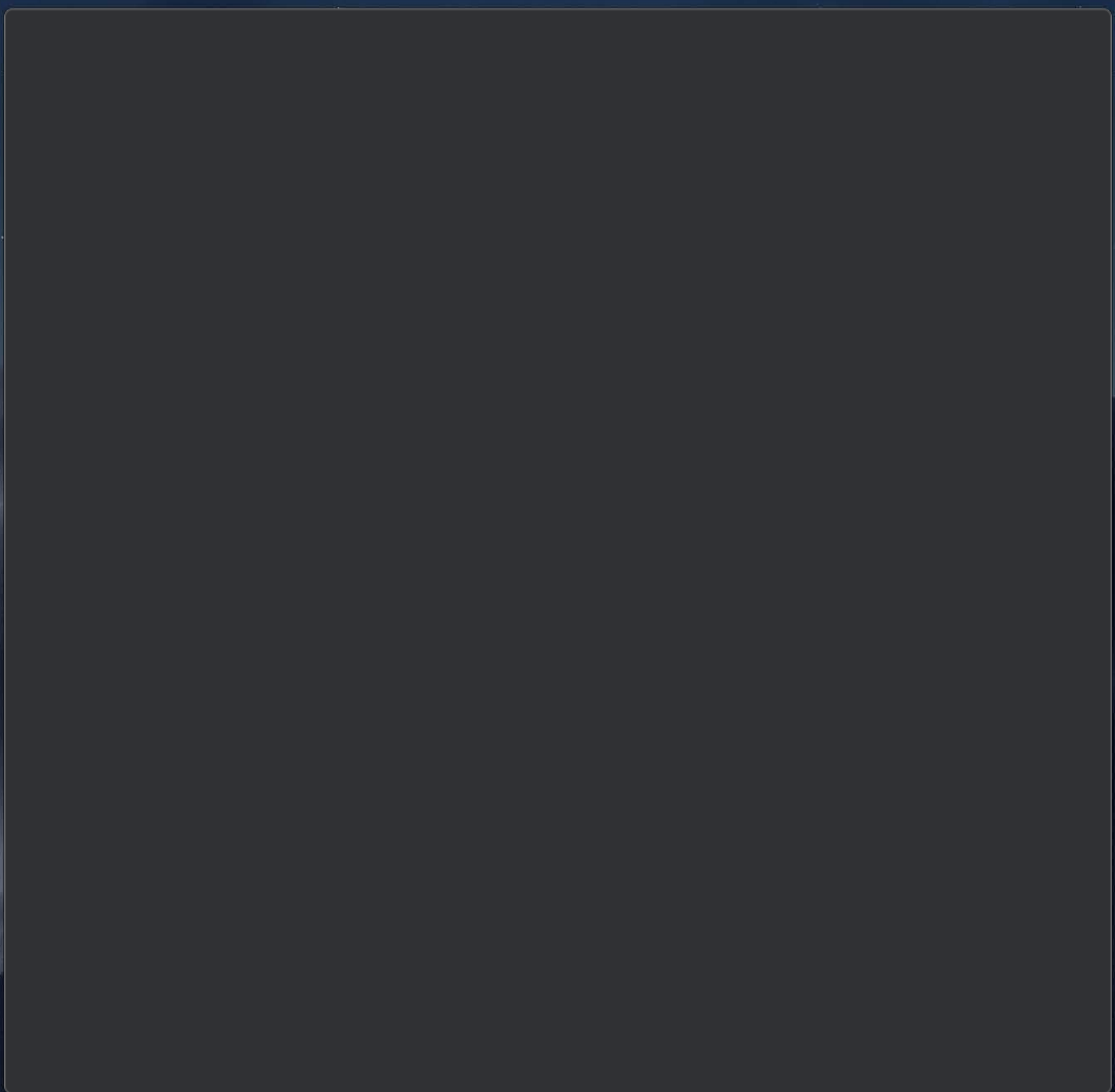
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Use LCD font smoothing when available ?












General

Appearance:  

Accent color: 

Highlight color: Blue ▾

Sidebar icon size: Medium ▾

Automatically hide and show the menu bar

Show scroll bars:  Automatically based on mouse or trackpad  
 When scrolling  
 Always

Click in the scroll bar to:  Jump to the next page  
 Jump to the spot that's clicked

Default web browser: Safari ▾

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Allow Handoff between this Mac and your iCloud devices

Use LCD font smoothing when available ?





General Search

Appearance:  

Accent color: ● ● ● ● ● ● ● ● ● ● ●

Highlight color: Blue ▾

Sidebar icon size: Medium ▾

Automatically hide and show the menu bar

---

Show scroll bars:  Automatically based on mouse or trackpad  
 When scrolling  
 Always

Click in the scroll bar to:  Jump to the next page  
 Jump to the spot that's clicked

---

Default web browser: Safari ▾

---

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Recent items: 10 ▾ Documents, Apps, and Servers



Allow Handoff between this Mac and your iCloud devices


Use LCD font smoothing when available ?




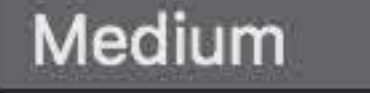


### General

Appearance:  

Accent color: 


Highlight color:  Blue

Sidebar icon size:  Medium


Automatically hide and show the menu bar

Show scroll bars:  Automatically based on mouse or trackpad  
 When scrolling  
 Always

Click in the scroll bar to:  Jump to the next page  
 Jump to the spot that's clicked

Default web browser:  Safari

Ask to keep changes when closing documents  
 Close windows when quitting an app  
When selected, open documents and windows will not be restored when you re-open an app.



Recent items:  10 Documents, Apps, and Servers


Allow Handoff between this Mac and your iCloud devices


Use LCD font smoothing when available




General Search

Appearance:  

Accent color: 

Highlight color: Blue 

Sidebar icon size: Medium 


Automatically hide and show the menu bar

---

Show scroll bars:  Automatically based on mouse or trackpad  
 When scrolling  
 Always


Click in the scroll bar to:  Jump to the next page  
 Jump to the spot that's clicked

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Default web browser: Safari 

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Ask to keep changes when closing documents  
 Close windows when quitting an app  
When selected, open documents and windows will not be restored when you re-open an app.

Recent items: 10  Documents, Apps, and Servers



Allow Handoff between this Mac and your iCloud devices

Use LCD font smoothing when available ?





General Search

Appearance:  

Accent color:

Highlight color:  Blue

Sidebar icon size: Medium

Automatically hide and show the menu bar

Show scroll bars:  Automatically based on mouse or trackpad  
 When scrolling  
 Always

Click in the scroll bar to:  Jump to the next page  
 Jump to the spot that's clicked

Default web browser: Safari

Ask to keep changes when closing documents  
 Close windows when quitting an app  
 When selected, open documents and windows will not be restored when you re-open an app.

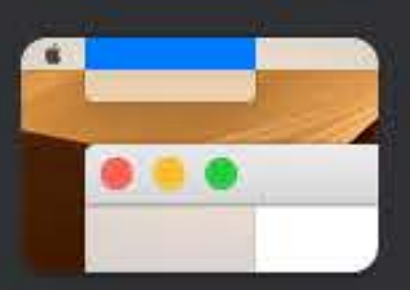

Recent items: 10 Documents, Apps, and Servers


Allow Handoff between this Mac and your iCloud devices


Use LCD font smoothing when available




General

Appearance:  

Accent color: 


Highlight color:  Blue

Sidebar icon size:  Medium


Automatically hide and show the menu bar

Show scroll bars:  Automatically based on mouse or trackpad  
 When scrolling  
 Always

Click in the scroll bar to:  Jump to the next page  
 Jump to the spot that's clicked

Default web browser:  Safari

Ask to keep changes when closing documents  
 Close windows when quitting an app  
When selected, open documents and windows will not be restored when you re-open an app.

Recent items:  10 Documents, Apps, and Servers

Allow Handoff between this Mac and your iCloud devices


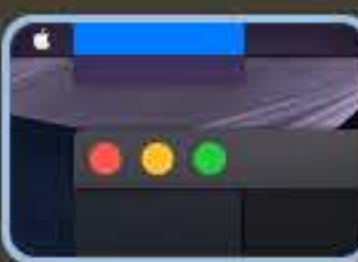
Use LCD font smoothing when available





### General

Search

Appearance:  

Accent color:

Highlight color:  Blue ▾

Sidebar icon size:  Medium ▾

Automatically hide and show the menu bar

---

Show scroll bars:  Automatically based on mouse or trackpad  
 When scrolling  
 Always

Click in the scroll bar to:  Jump to the next page  
 Jump to the spot that's clicked

---

Default web browser:  Safari ▾

---

Ask to keep changes when closing documents

Close windows when quitting an app  
When selected, open documents and windows will not be restored when you re-open an app.



Recent items:  10 ▾ Documents, Apps, and Servers


Allow Handoff between this Mac and your iCloud devices


Use LCD font smoothing when available ?



General

Appearance:  

Accent color: 

Highlight color:  Graphite

Sidebar icon size: Medium

Automatically hide and show the menu bar

Show scroll bars:  Automatically based on mouse or trackpad  
 When scrolling  
 Always

Click in the scroll bar to:  Jump to the next page  
 Jump to the spot that's clicked

Default web browser: Safari

Ask to keep changes when closing documents  
 Close windows when quitting an app  
When selected, open documents and windows will not be restored when you re-open an app.

Recent items: 10 Documents, Apps, and Servers

Allow Handoff between this Mac and your iCloud devices

Use LCD font smoothing when available



**windowBackground**

Light Appearance, All Accent Colors

**underPageBackground**

Light Appearance, All Accent Colors

**contentBackground**

Light Appearance, All Accent Colors

**windowBackground**

Dark Appearance, Desktop-Tinted

**underPageBackground**

Dark Appearance, Desktop-Tinted

**contentBackground**

Dark Appearance, Desktop-Tinted

**windowBackground**

Dark Appearance, Graphite Accent Color

**underPageBackground**

Dark Appearance, Graphite Accent Color

**contentBackground**

Dark Appearance, Graphite Accent Color

**windowBackground**

Light Appearance, All Accent Colors

**underPageBackground**

Light Appearance, All Accent Colors

**contentBackground**

Light Appearance, All Accent Colors

**windowBackground**

Dark Appearance, Desktop-Tinted

**underPageBackground**

Dark Appearance, Desktop-Tinted

**contentBackground**

Dark Appearance, Desktop-Tinted

**windowBackground**

Dark Appearance, Graphite Accent Color

**underPageBackground**

Dark Appearance, Graphite Accent Color

**contentBackground**

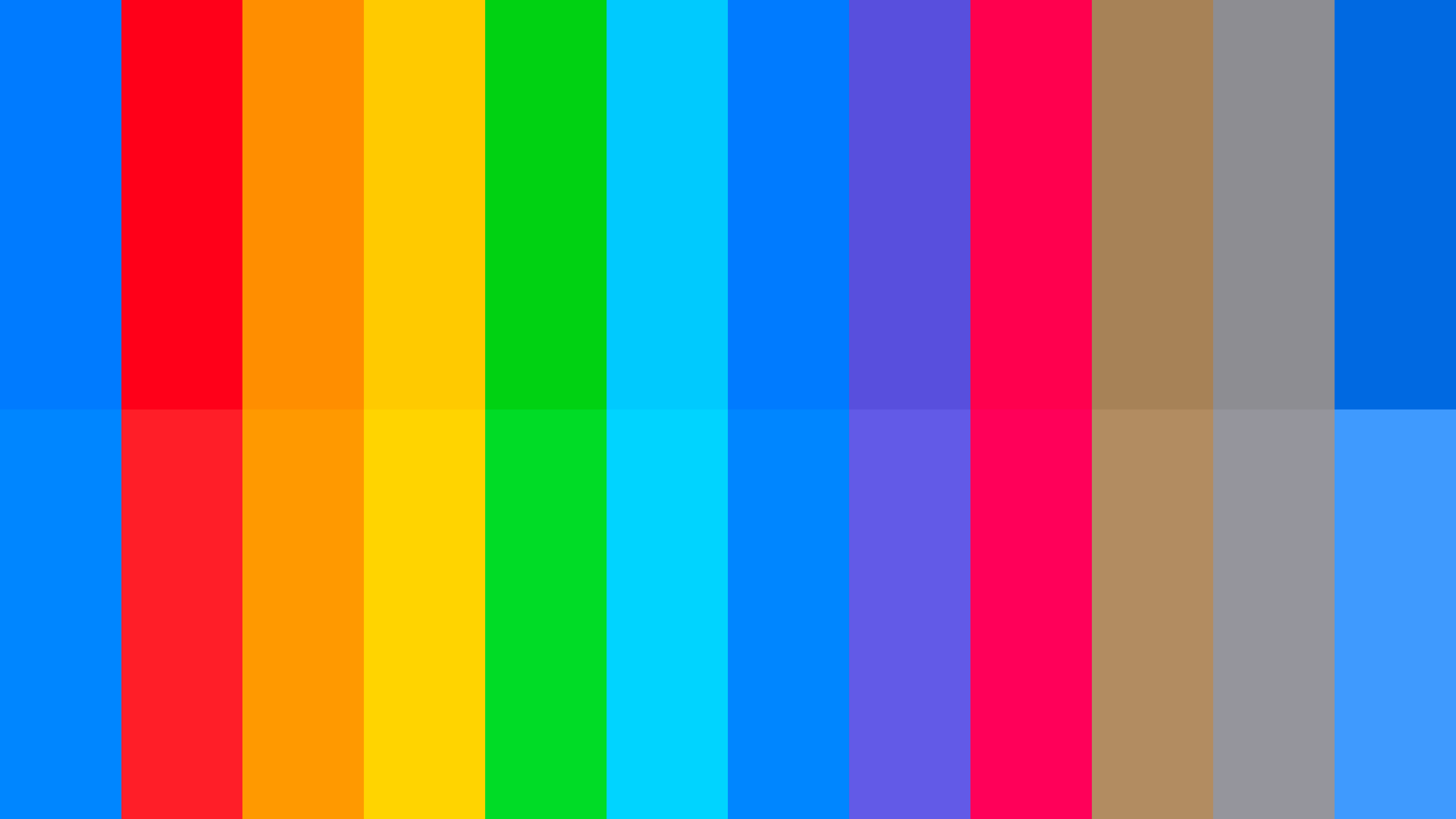
Dark Appearance, Graphite Accent Color

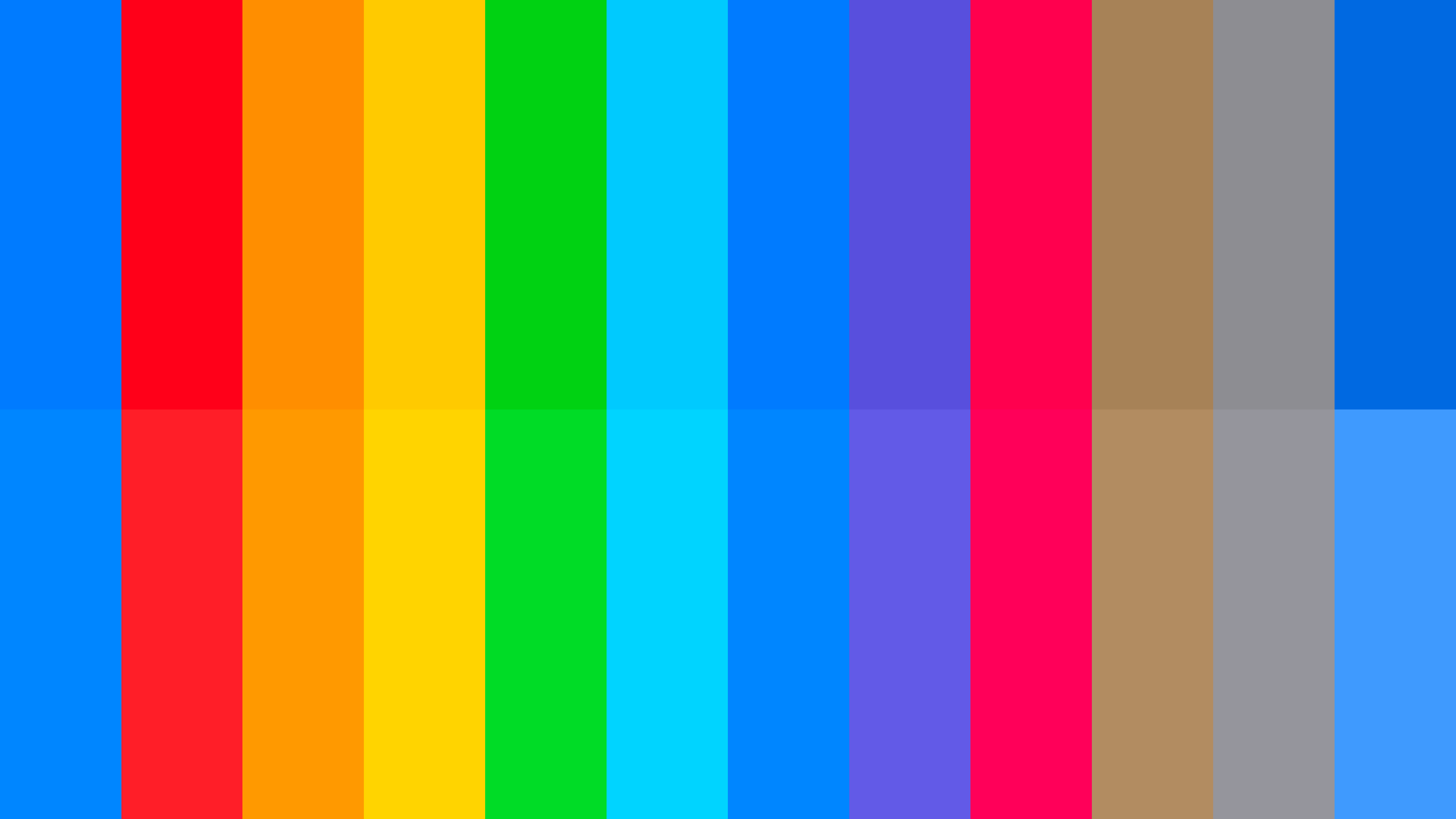


# Design Considerations



# Working with Colors





**controlAccentColor** Light Appearance

**systemBlueColor** Light Appearance

**linkColor** Light Appearance

**controlAccentColor** Dark Appearance

**systemBlueColor** Dark Appearance

**linkColor** Dark Appearance

**controlAccentColor** Light Appearance

**systemBlueColor** Light Appearance

**linkColor** Light Appearance

**controlAccentColor** Dark Appearance

**systemBlueColor** Dark Appearance

**linkColor** Dark Appearance



# Designing with Vibrancy

Documents — Local

Search

**Favorites**

- AirDrop
- Recents
- Applications
- Desktop
- Documents**
- Downloads

**iCloud**

- iCloud Drive

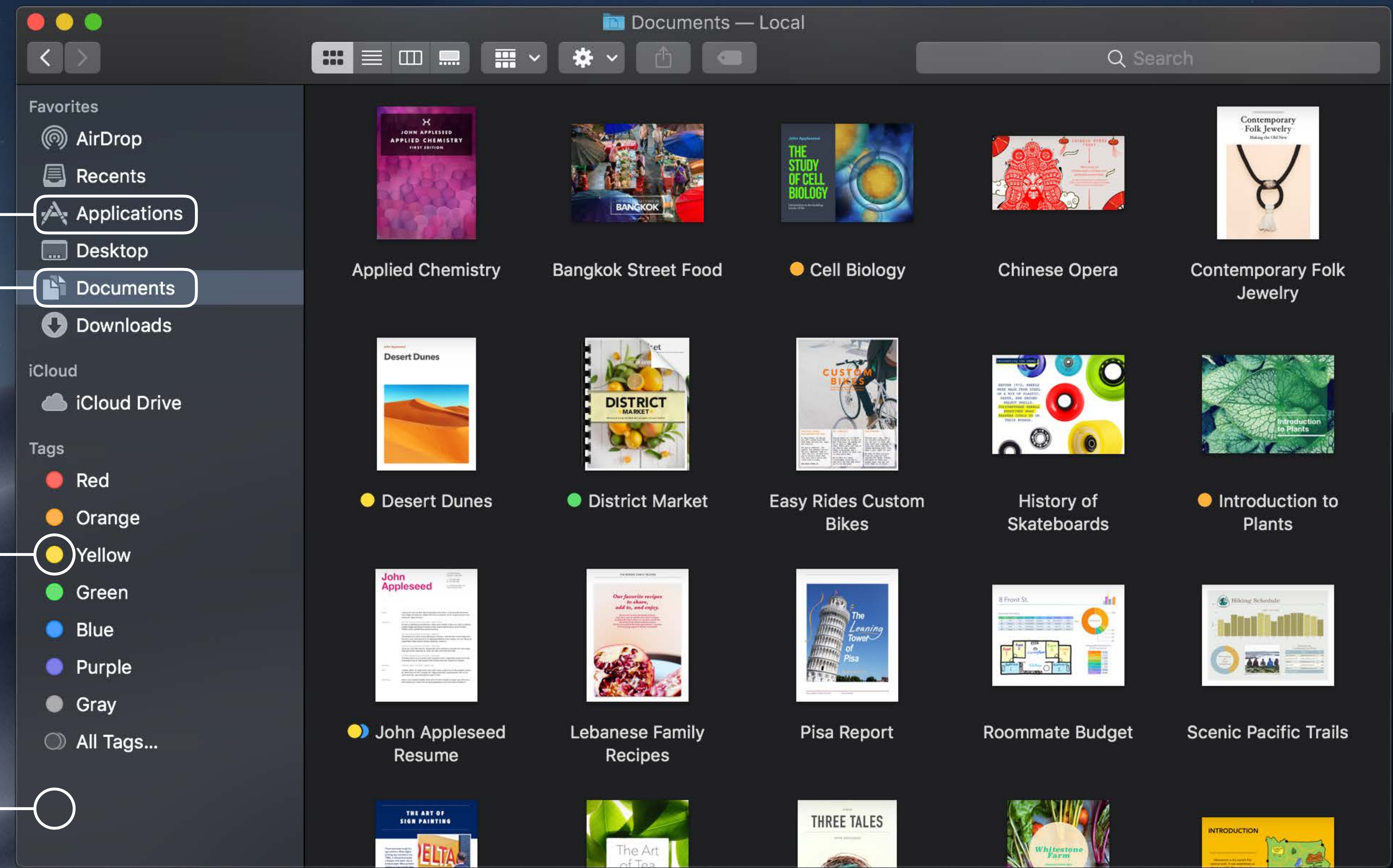
**Tags**

- Red
- Orange
- Yellow
- Green
- Blue
- Purple
- Gray
- All Tags...

Applied Chemistry	Bangkok Street Food	Cell Biology	Chinese Opera	Contemporary Folk Jewelry
Desert Dunes	District Market	Easy Rides Custom Bikes	History of Skateboards	Introduction to Plants
John Appleseed Resume	Lebanese Family Recipes	Pisa Report	Roommate Budget	Scenic Pacific Trails
The Art of Sign Painting	The Art of Tea	Three Tales	Whitstone Farm	Introduction





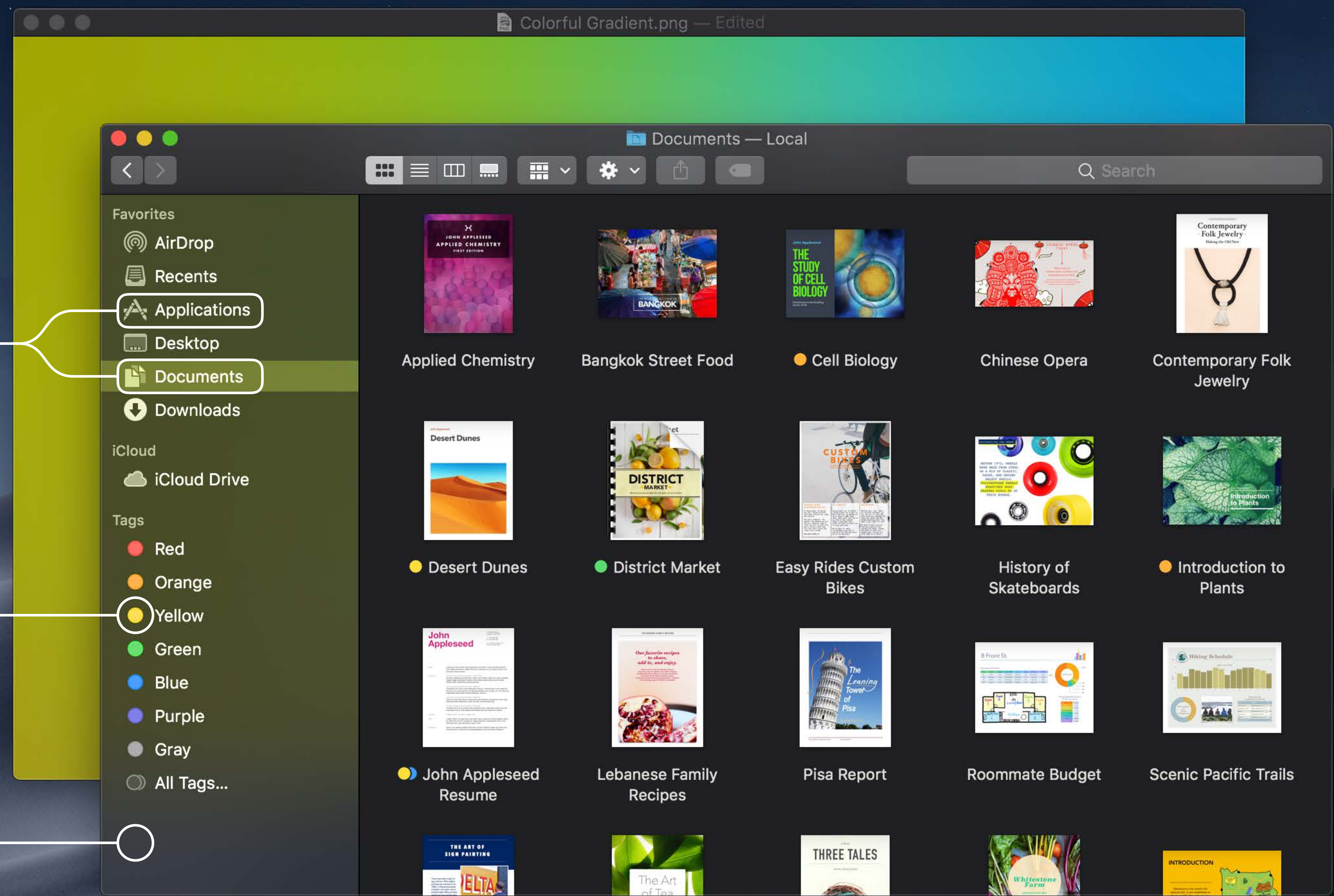


Vibrantly blended content

Non-vibrant content

Translucent material





Vibrantly blended content

Non-vibrant content

Translucent material



## Opacity Construction

Example Custom Button

90% OPACITY WHITE

80% OPACITY WHITE

70% OPACITY WHITE

60% OPACITY WHITE

50% OPACITY WHITE

40% OPACITY WHITE

30% OPACITY WHITE

20% OPACITY WHITE

10% OPACITY WHITE

**Primary Label Color**

Secondary Label Color

Tertiary Label Color

Quaternary Label Color

## Grayscale Construction

Example Custom Button

RGB 230, 230, 230

RGB 204, 204, 204

RGB 179, 179, 179

RGB 153, 153, 153

RGB 128, 128, 128

RGB 102, 102, 102

RGB 77, 77, 77

RGB 51, 51, 51

RGB 26, 26, 26

Primary Label Color

Secondary Label Color

Tertiary Label Color

Quaternary Label Color

## Grayscale Construction

Example Custom Button

RGB 230, 230, 230

RGB 204, 204, 204

RGB 179, 179, 179

RGB 153, 153, 153

RGB 128, 128, 128

RGB 102, 102, 102

RGB 77, 77, 77

RGB 51, 51, 51

RGB 26, 26, 26

**Primary Label Color**

Secondary Label Color

Tertiary Label Color

Quaternary Label Color

## Grayscale Construction

Example Custom Button

RGB 230, 230, 230

RGB 204, 204, 204

RGB 179, 179, 179

RGB 153, 153, 153

RGB 128, 128, 128

RGB 102, 102, 102

RGB 77, 77, 77

RGB 51, 51, 51

RGB 26, 26, 26

**Primary Label Color**

Secondary Label Color

Tertiary Label Color

Quaternary Label Color

## Opacity Construction

Example Custom Button

90% OPACITY WHITE

80% OPACITY WHITE

70% OPACITY WHITE

60% OPACITY WHITE

50% OPACITY WHITE

40% OPACITY WHITE

30% OPACITY WHITE

20% OPACITY WHITE

10% OPACITY WHITE

Primary Label Color

Secondary Label Color

Tertiary Label Color

Quaternary Label Color

## Grayscale Construction

Example Custom Button

RGB 230,230,230

RGB 204,204,204

RGB 179,179,179

RGB 153,153,153

RGB 128,128,128

RGB 102,102,102

RGB 77,77,77

RGB 51,51,51

RGB 26,26,26

Primary Label Color

Secondary Label Color

Tertiary Label Color

Quaternary Label Color

## Opacity Construction

Example Custom Button

90% OPACITY WHITE

80% OPACITY WHITE

70% OPACITY WHITE

60% OPACITY WHITE

50% OPACITY WHITE

40% OPACITY WHITE

30% OPACITY WHITE

20% OPACITY WHITE

10% OPACITY WHITE

Primary Label Color

Secondary Label Color

Tertiary Label Color

Quaternary Label Color

## Grayscale Construction

Example Custom Button

RGB 230,230,230

RGB 204,204,204

RGB 179,179,179

RGB 153,153,153

RGB 128,128,128

RGB 102,102,102

RGB 77,77,77

RGB 51,51,51

RGB 26,26,26

Primary Label Color

Secondary Label Color

Tertiary Label Color

Quaternary Label Color



## Opacity Construction

Example Custom Button

90% OPACITY WHITE

80% OPACITY WHITE

70% OPACITY WHITE

60% OPACITY WHITE

50% OPACITY WHITE

40% OPACITY WHITE

30% OPACITY WHITE

20% OPACITY WHITE

10% OPACITY WHITE

**Primary Label Color**

Secondary Label Color

Tertiary Label Color

Quaternary Label Color

## Grayscale Construction

Example Custom Button

RGB 230,230,230

RGB 204,204,204

RGB 179,179,179

RGB 153,153,153

RGB 128,128,128

RGB 102,102,102

RGB 77,77,77

RGB 51,51,51

RGB 26,26,26

**Primary Label Color**

Secondary Label Color

Tertiary Label Color

Quaternary Label Color

## Opacity Construction

Example Custom Button

90% OPACITY WHITE

80% OPACITY WHITE

70% OPACITY WHITE

60% OPACITY WHITE

50% OPACITY WHITE

40% OPACITY WHITE

30% OPACITY WHITE

20% OPACITY WHITE

10% OPACITY WHITE

Primary Label Color

Secondary Label Color

Tertiary Label Color

Quaternary Label Color

## Grayscale Construction

Example Custom Button

RGB 230,230,230

RGB 204,204,204

RGB 179,179,179

RGB 153,153,153

RGB 128,128,128

RGB 102,102,102

RGB 77,77,77

RGB 51,51,51

RGB 26,26,26

Primary Label Color

Secondary Label Color

Tertiary Label Color

Quaternary Label Color

## Opacity Construction

Example Custom Button

90% OPACITY WHITE

80% OPACITY WHITE

70% OPACITY WHITE

60% OPACITY WHITE

50% OPACITY WHITE

40% OPACITY WHITE

30% OPACITY WHITE

20% OPACITY WHITE

10% OPACITY WHITE

Primary Label Color

Secondary Label Color

Tertiary Label Color

Quaternary Label Color

## Grayscale Construction

Example Custom Button

RGB 230,230,230

RGB 204,204,204

RGB 179,179,179

RGB 153,153,153

RGB 128,128,128

RGB 102,102,102

RGB 77,77,77

RGB 51,51,51

RGB 26,26,26

Primary Label Color

Secondary Label Color

Tertiary Label Color

Quaternary Label Color

## Opacity Construction

Example Custom Button

90% OPACITY WHITE

80% OPACITY WHITE

70% OPACITY WHITE

60% OPACITY WHITE

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40% OPACITY WHITE

30% OPACITY WHITE

20% OPACITY WHITE

10% OPACITY WHITE

Primary Label Color

Secondary Label Color

Tertiary Label Color

Quaternary Label Color

## Grayscale Construction

Example Custom Button

RGB 230,230,230

RGB 204,204,204

RGB 179,179,179

RGB 153,153,153

RGB 128,128,128

RGB 102,102,102

RGB 77,77,77

RGB 51,51,51

RGB 26,26,26

Primary Label Color

Secondary Label Color

Tertiary Label Color

Quaternary Label Color

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30% OPACITY WHITE

20% OPACITY WHITE

10% OPACITY WHITE

Primary Label Color

Secondary Label Color

Tertiary Label Color

Quaternary Label Color

## Grayscale Construction

Example Custom Button

RGB 230,230,230

RGB 204,204,204

RGB 179,179,179

RGB 153,153,153

RGB 128,128,128

RGB 102,102,102

RGB 77,77,77

RGB 51,51,51

RGB 26,26,26

Primary Label Color

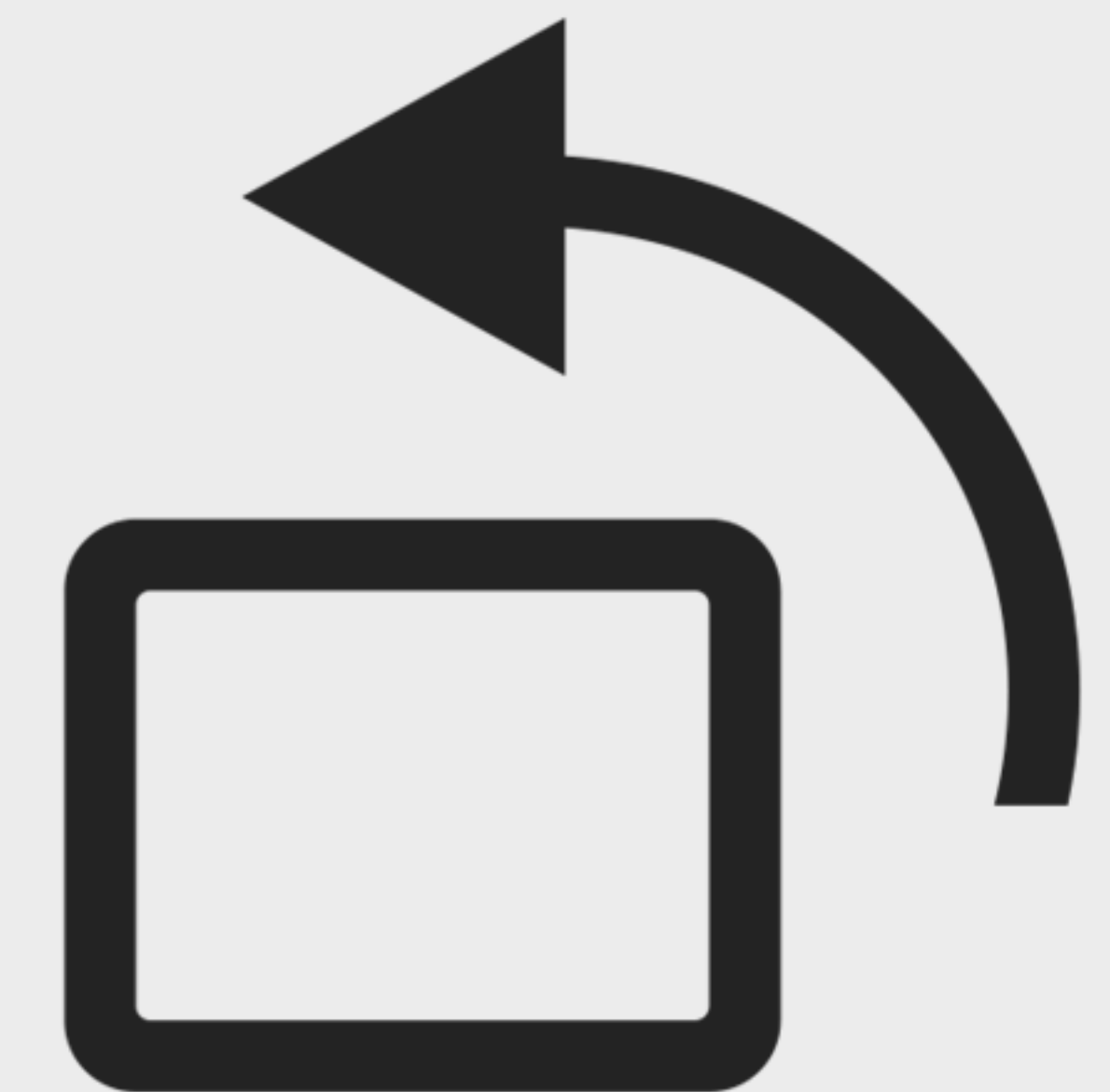
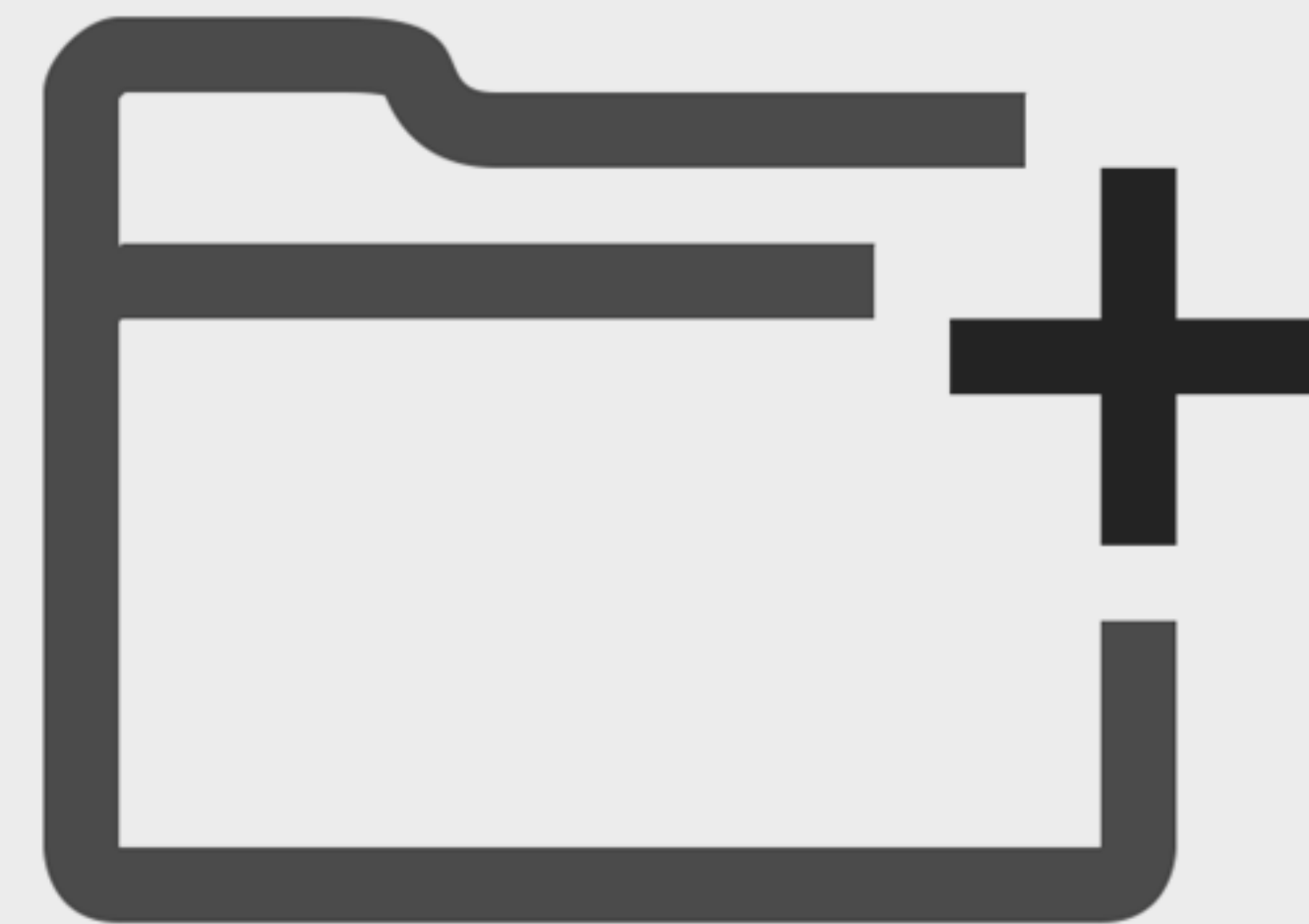
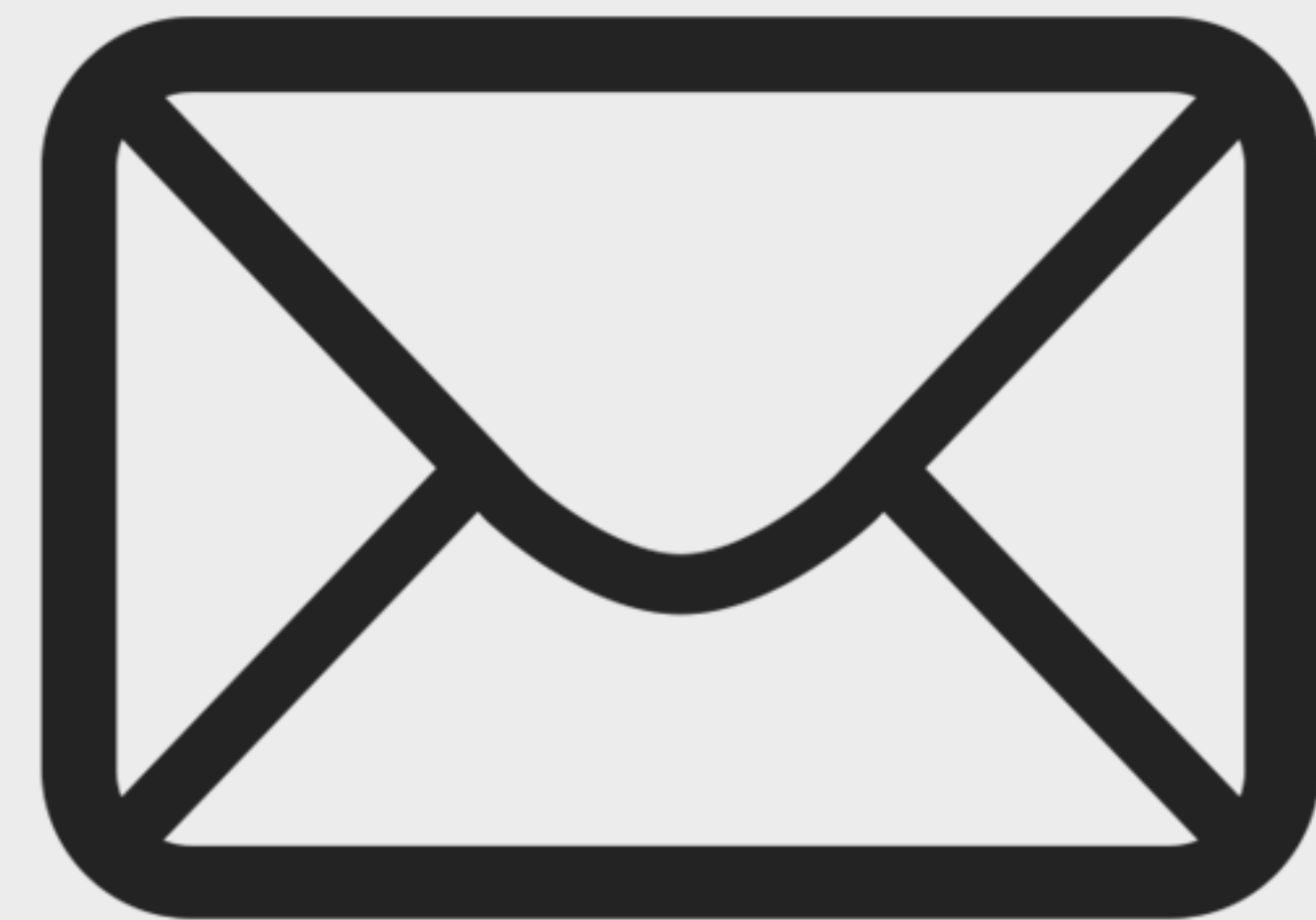
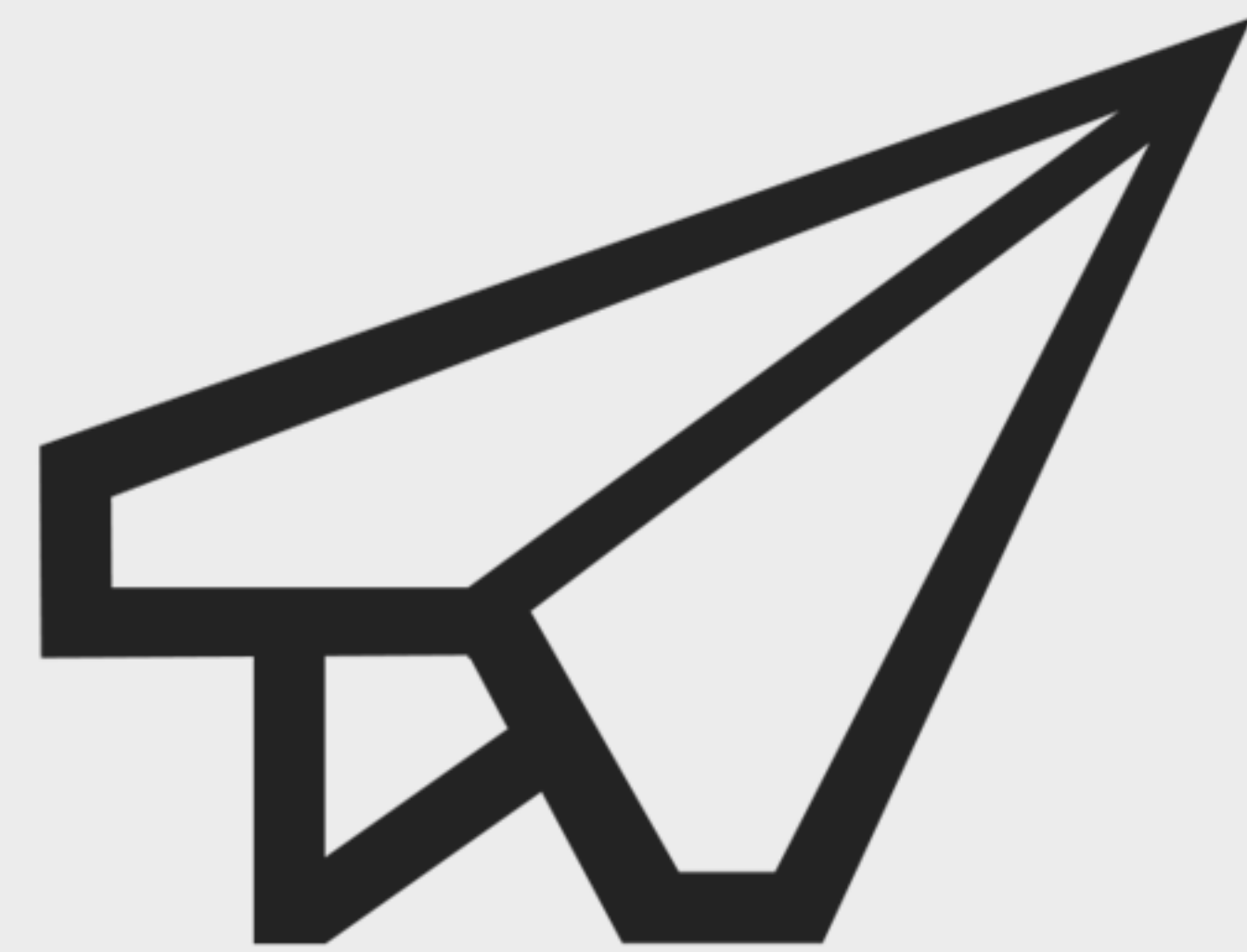
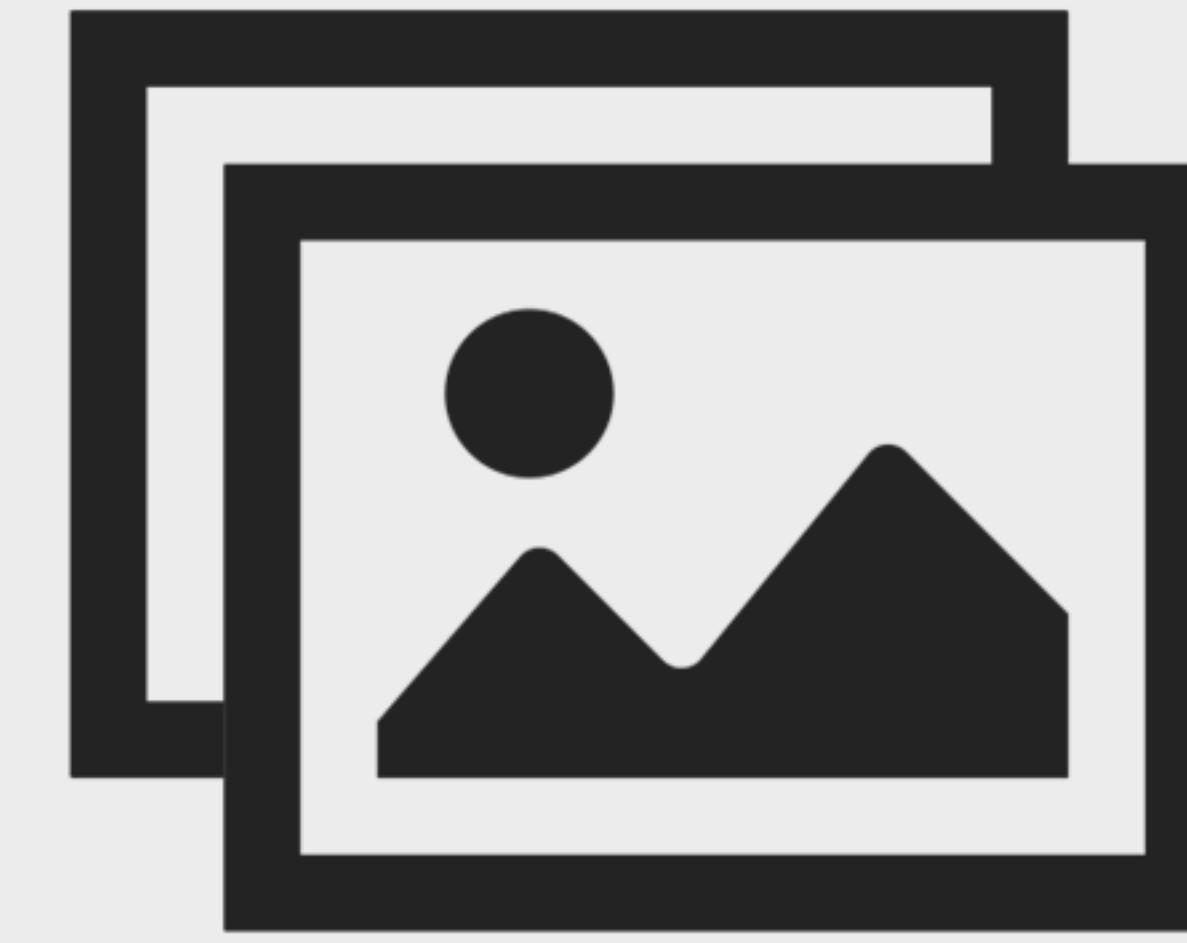
Secondary Label Color

Tertiary Label Color

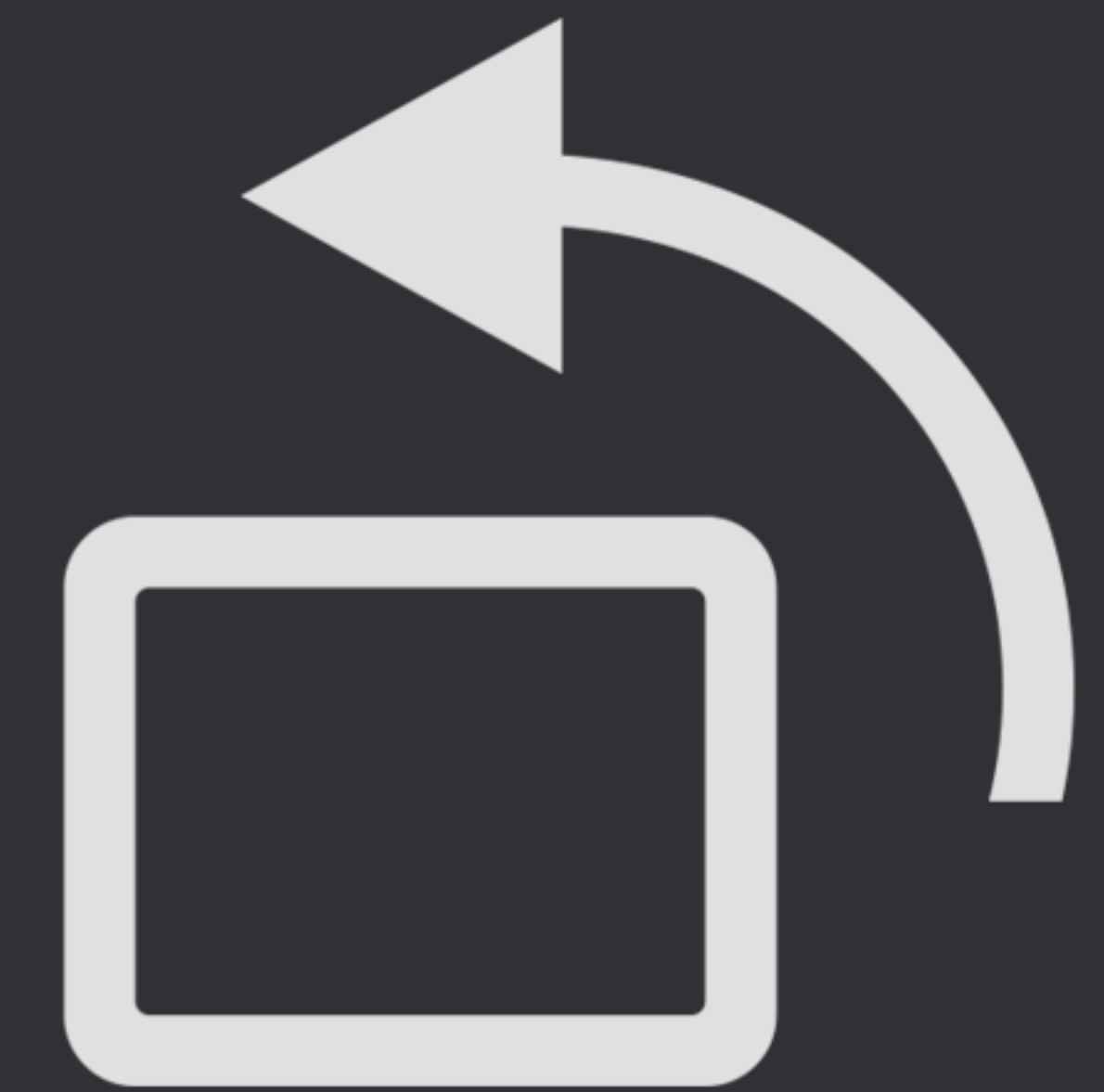
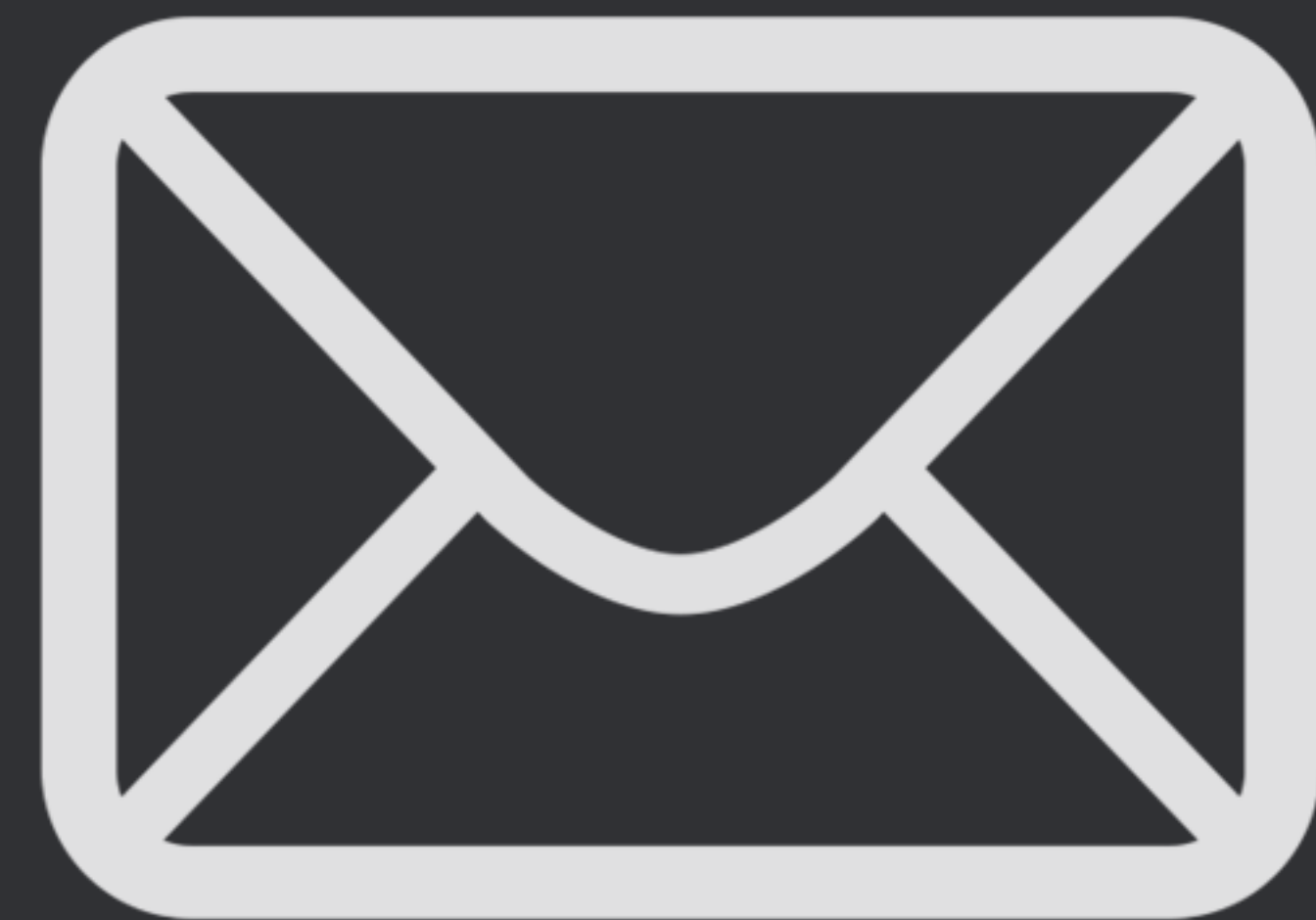
Quaternary Label Color

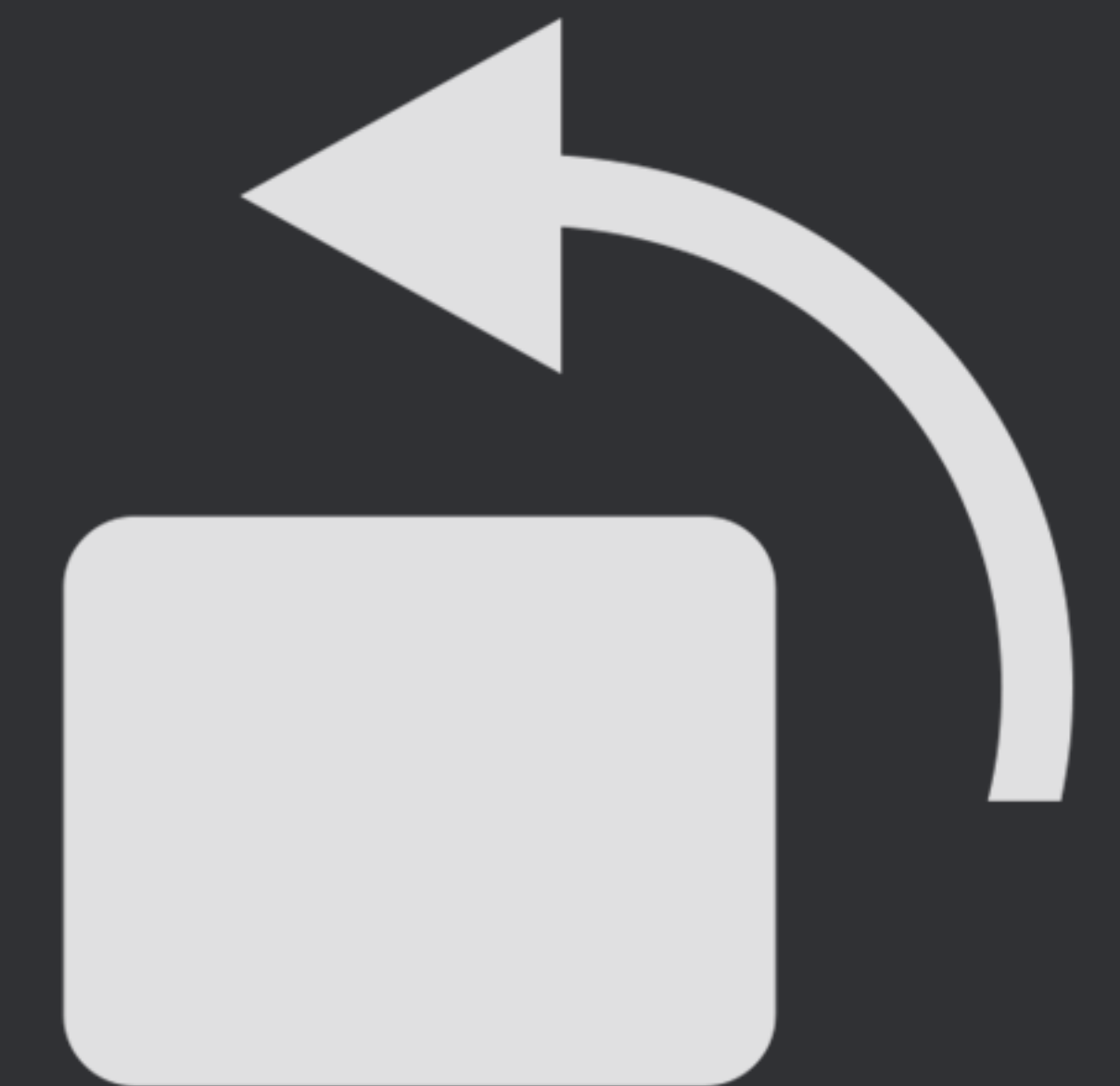
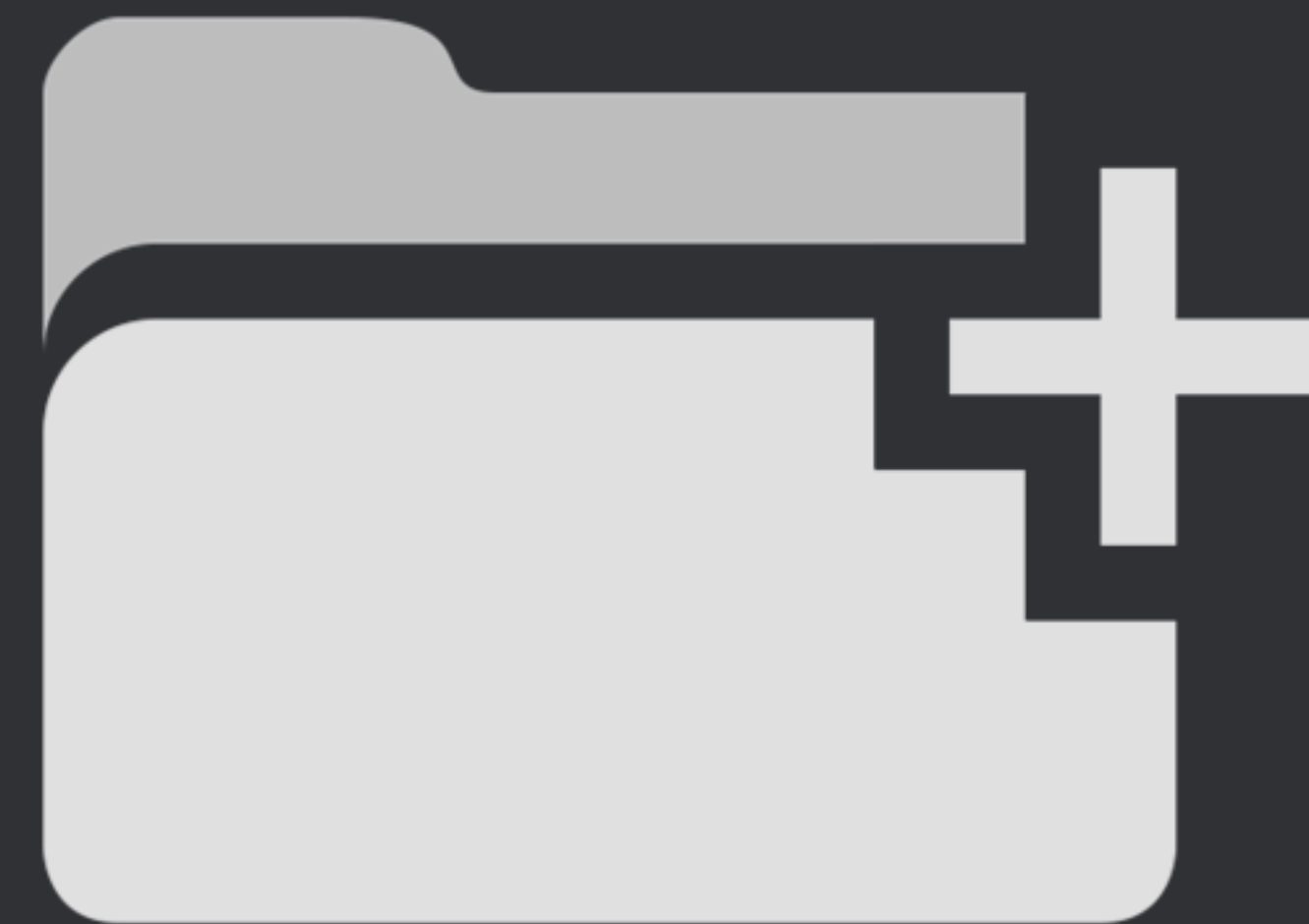
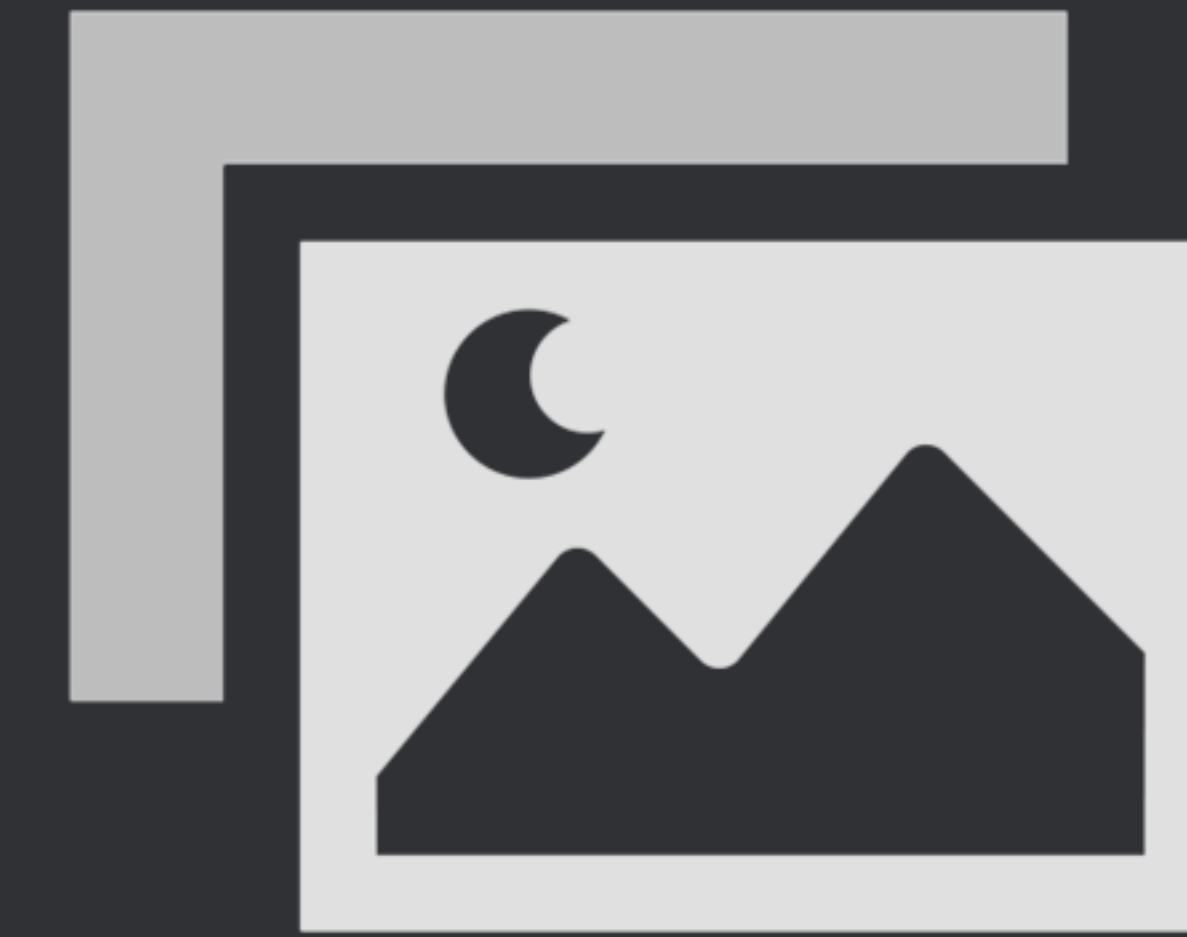


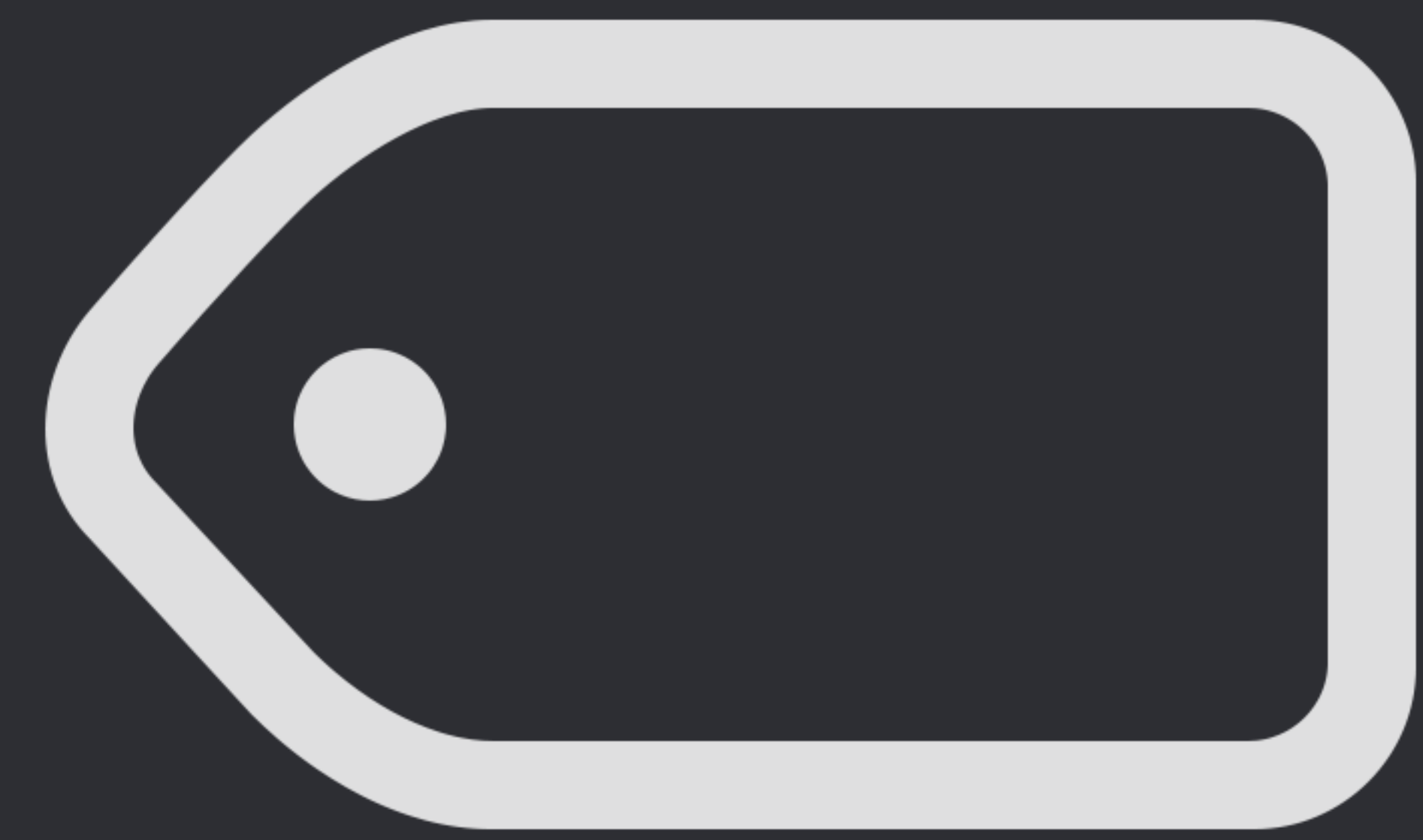
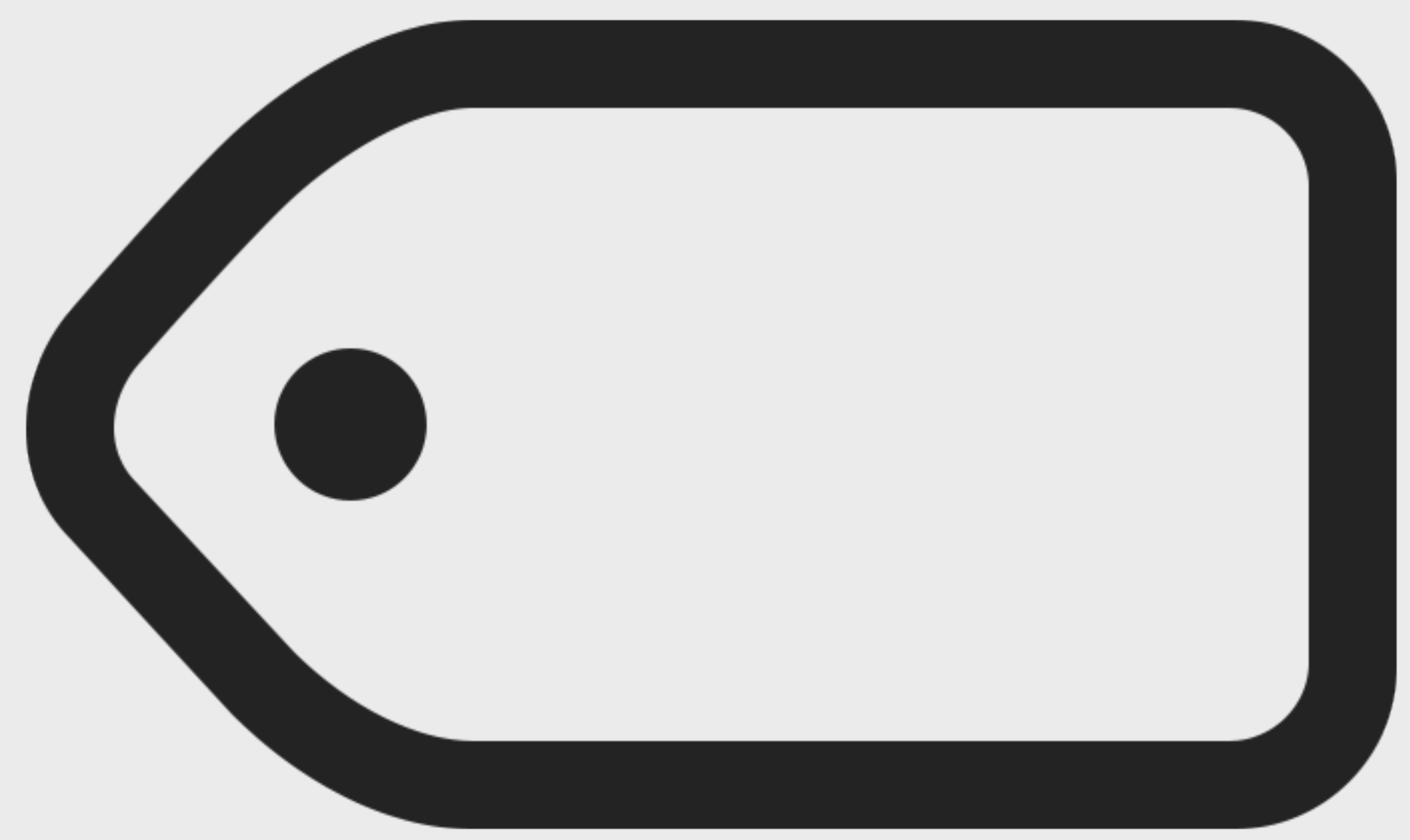
# Artistically Inverting Glyphs

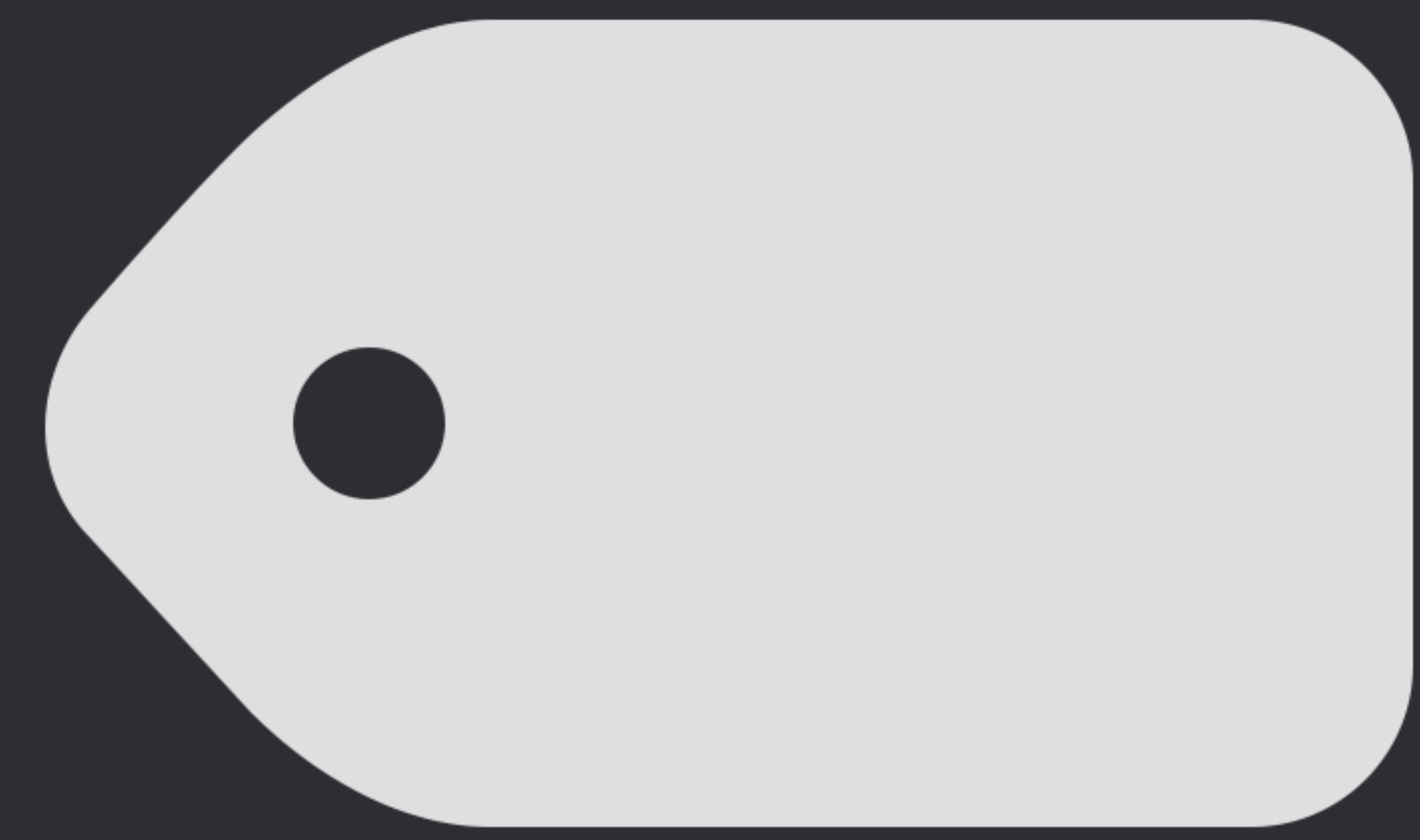
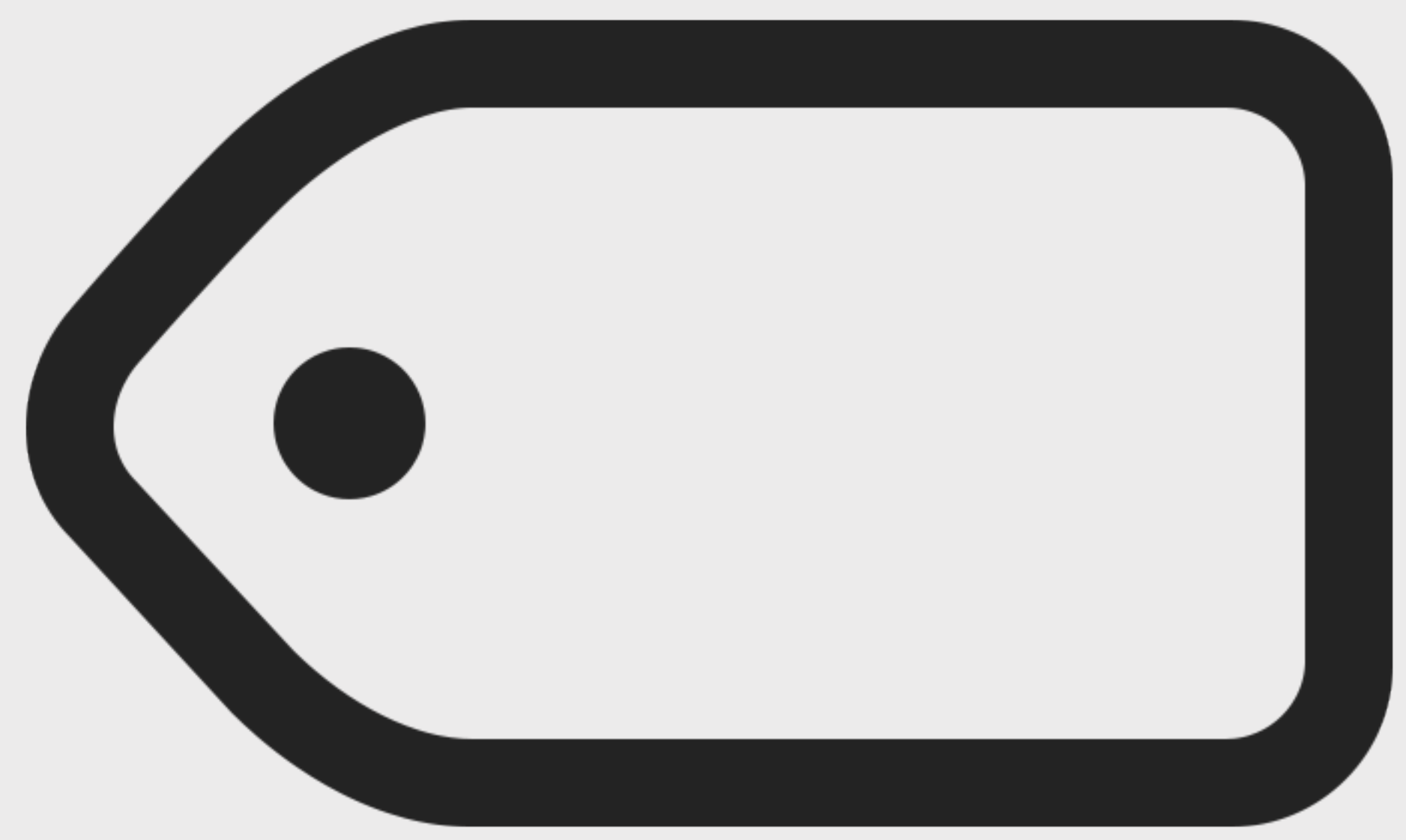


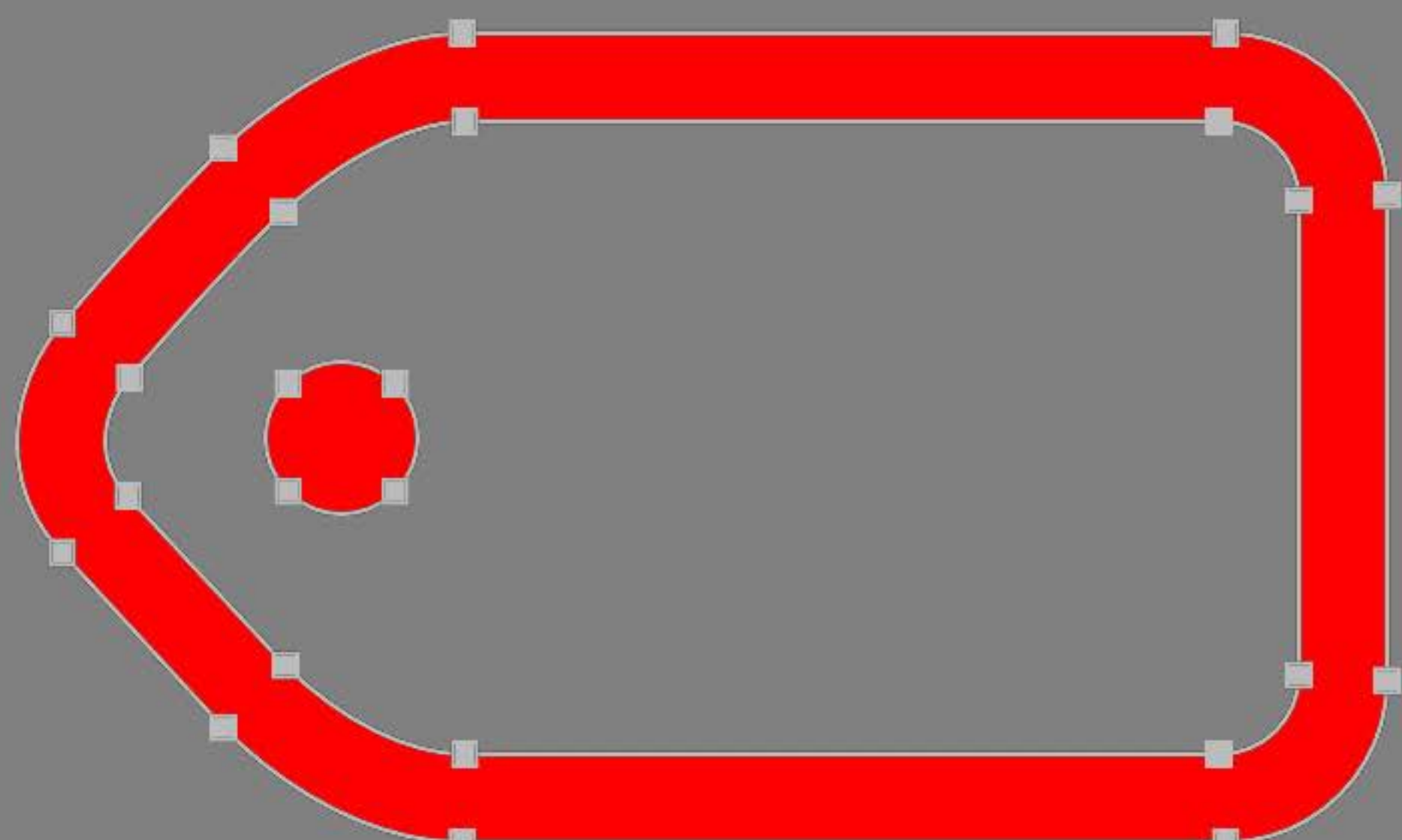
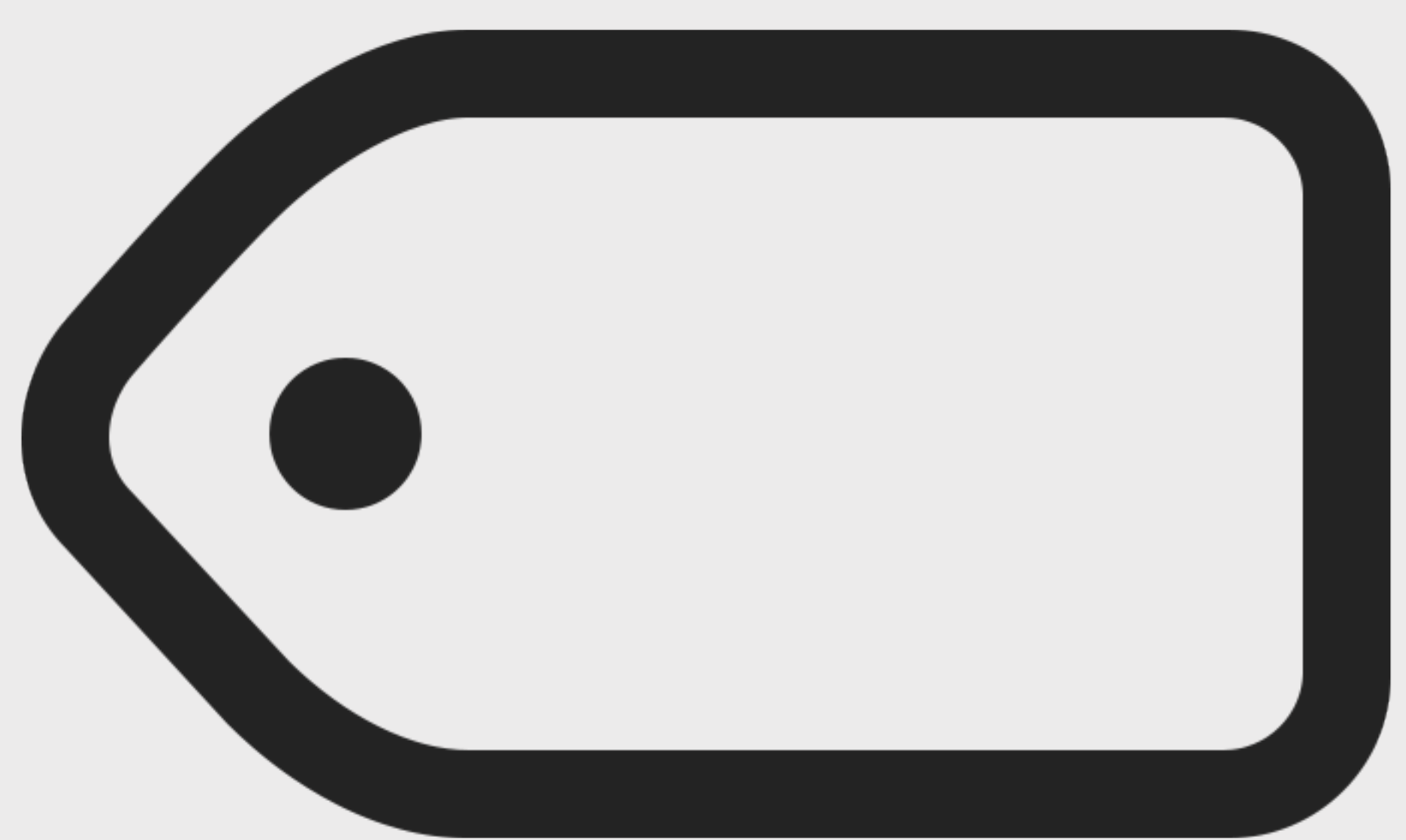


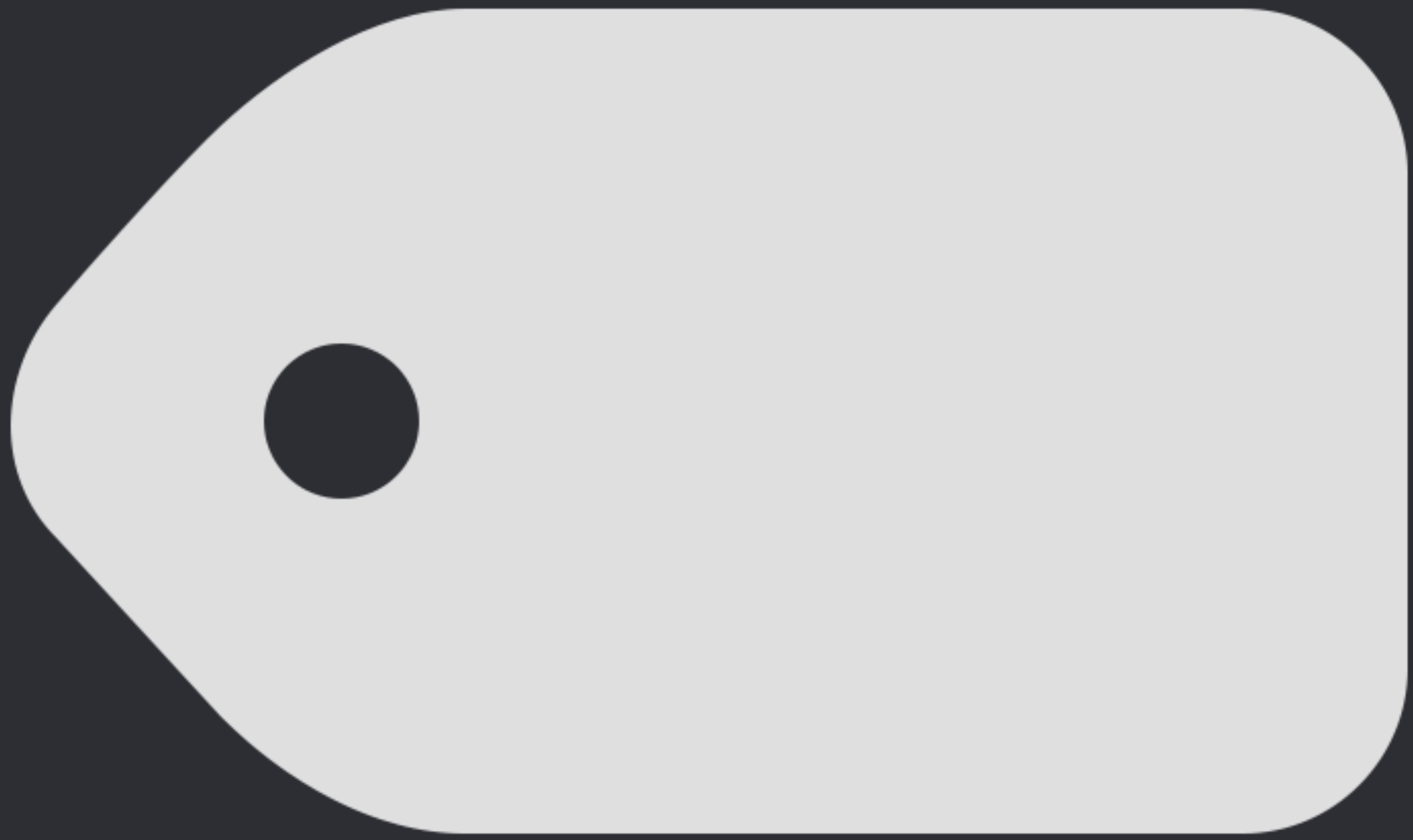
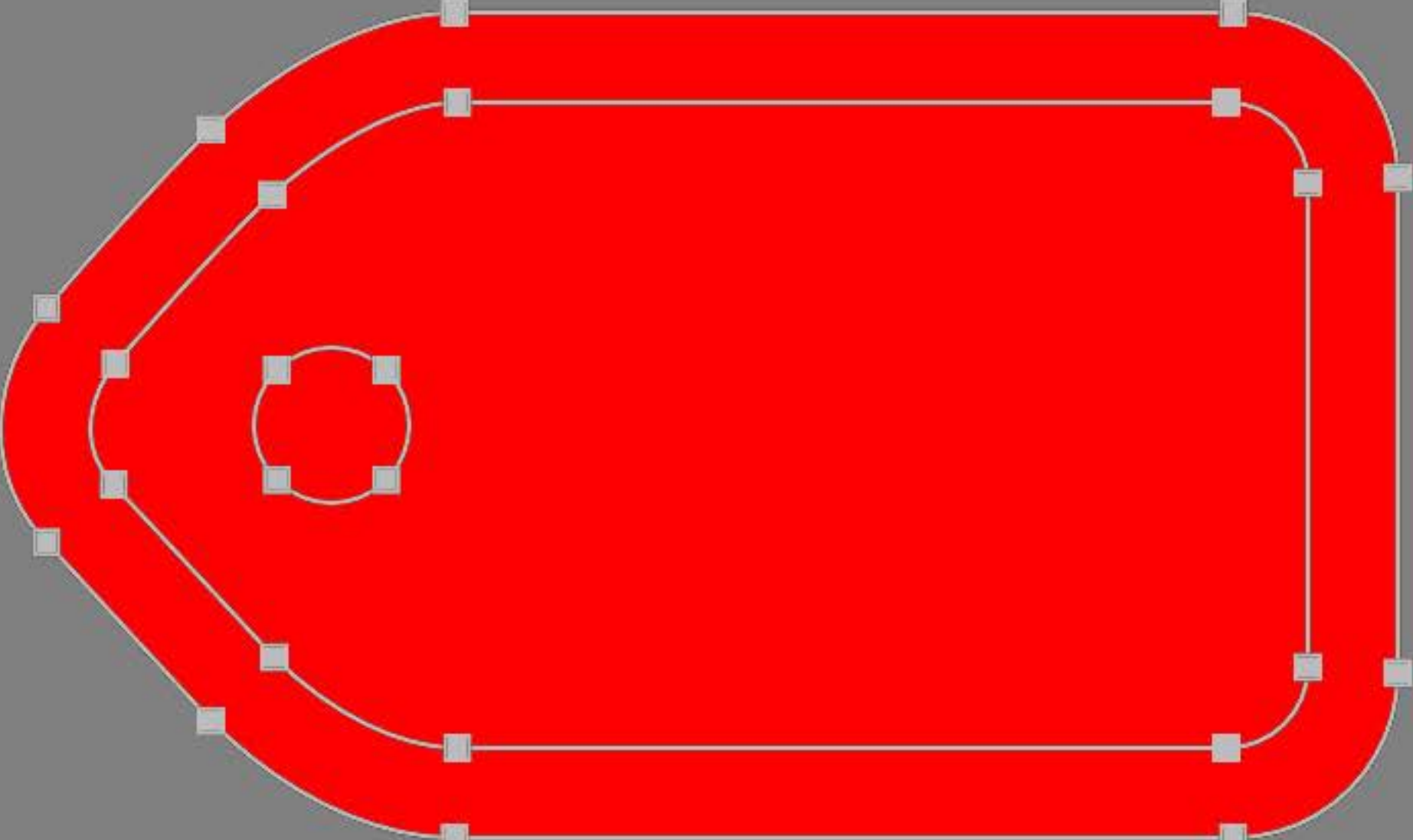
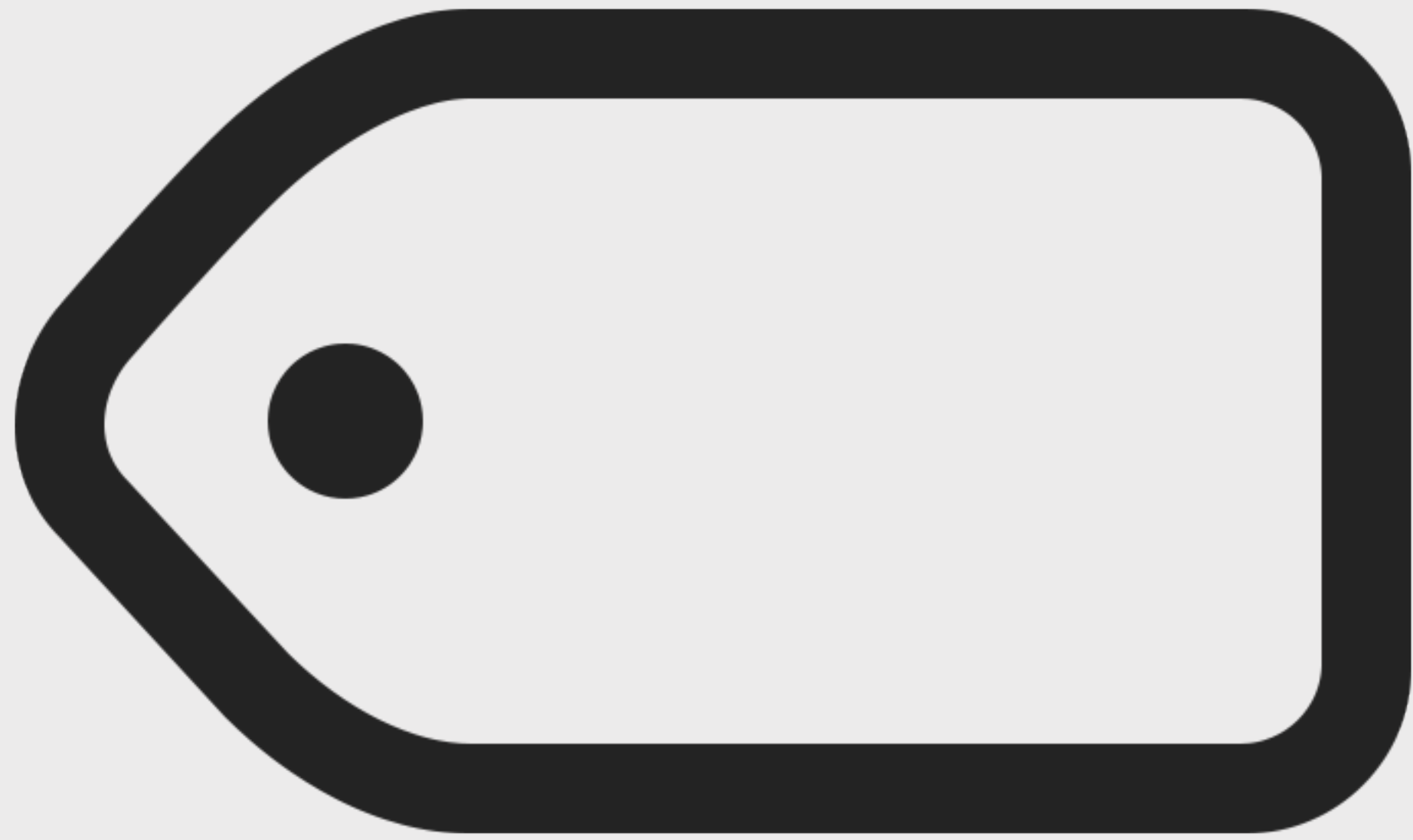


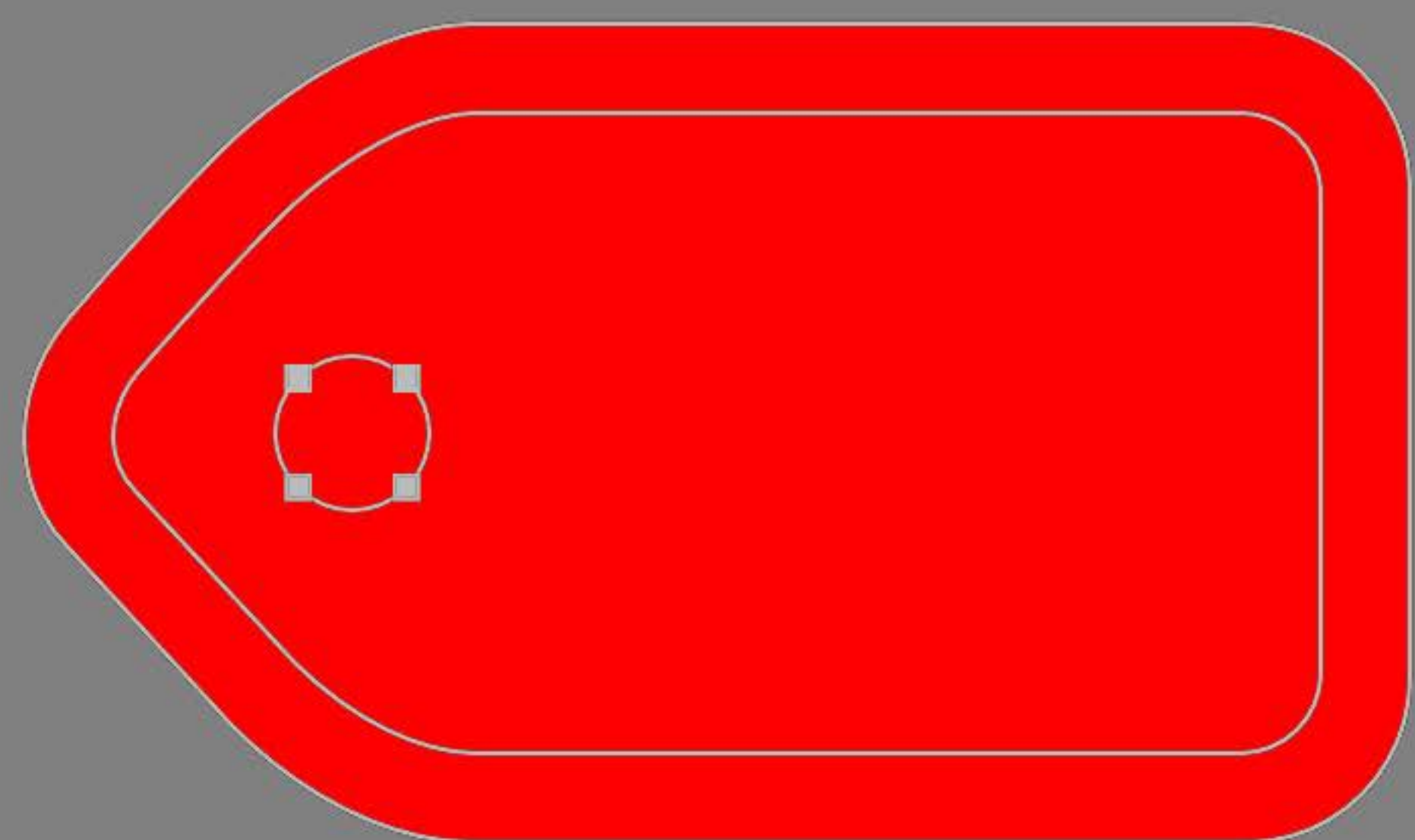
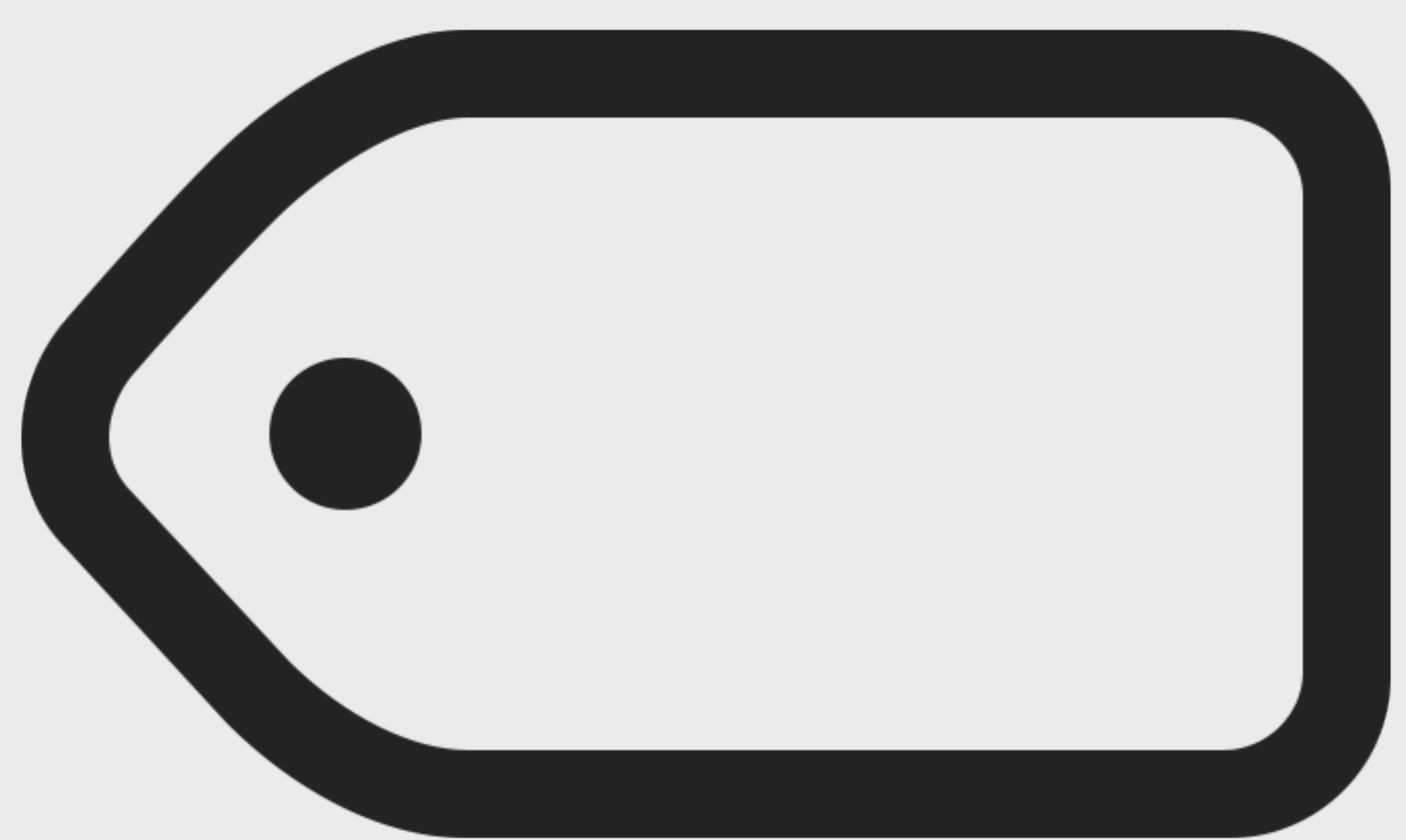


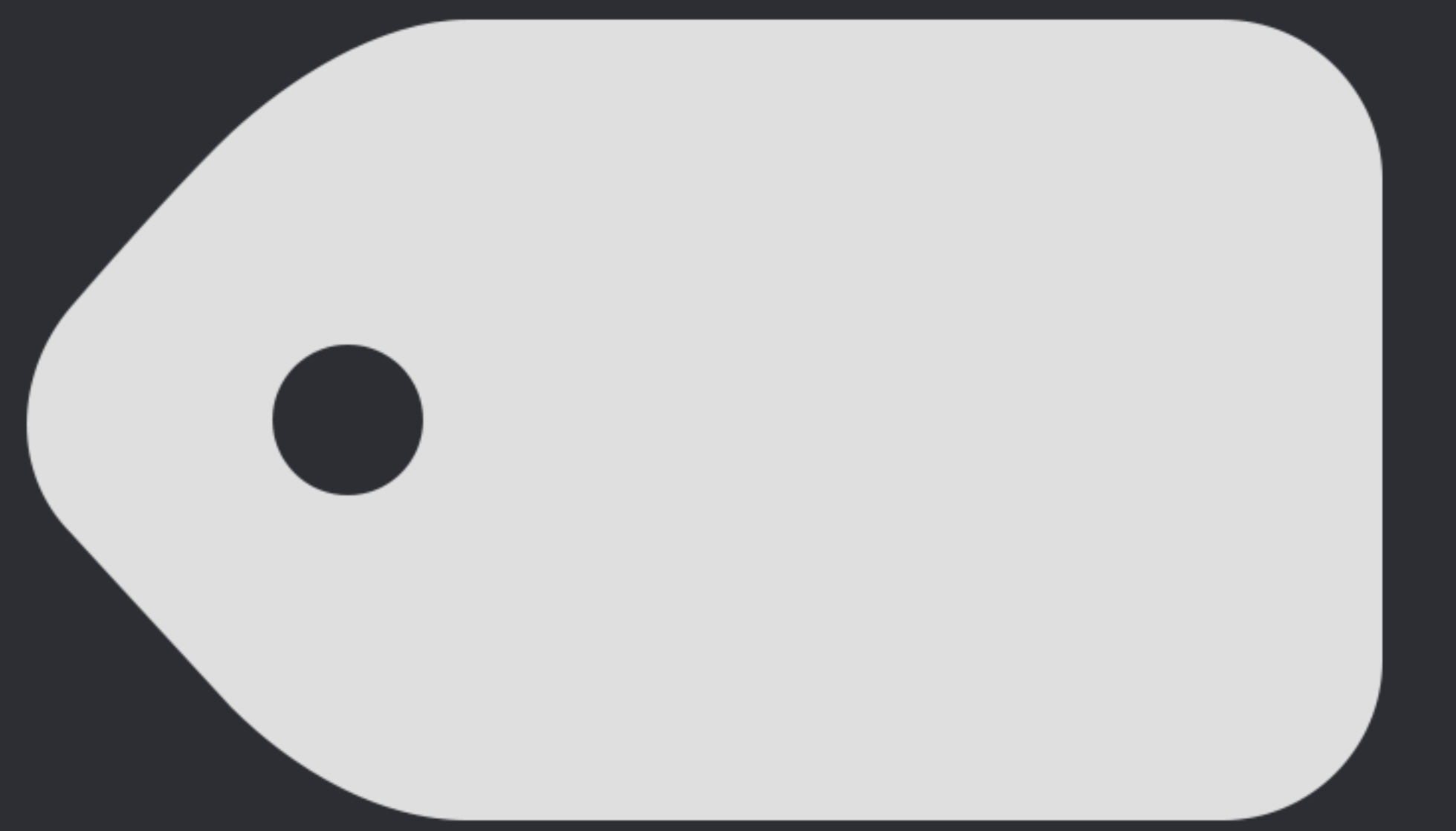
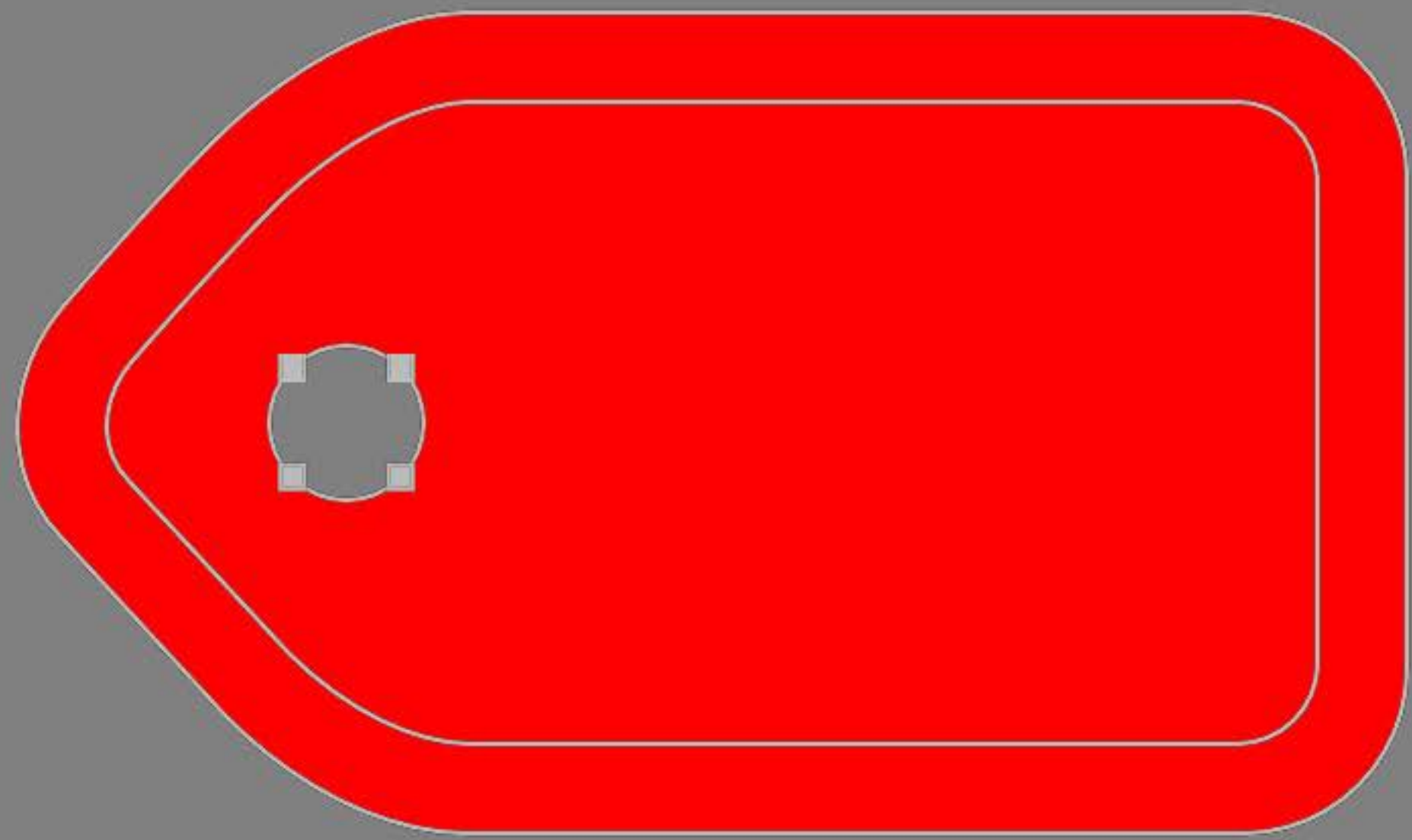
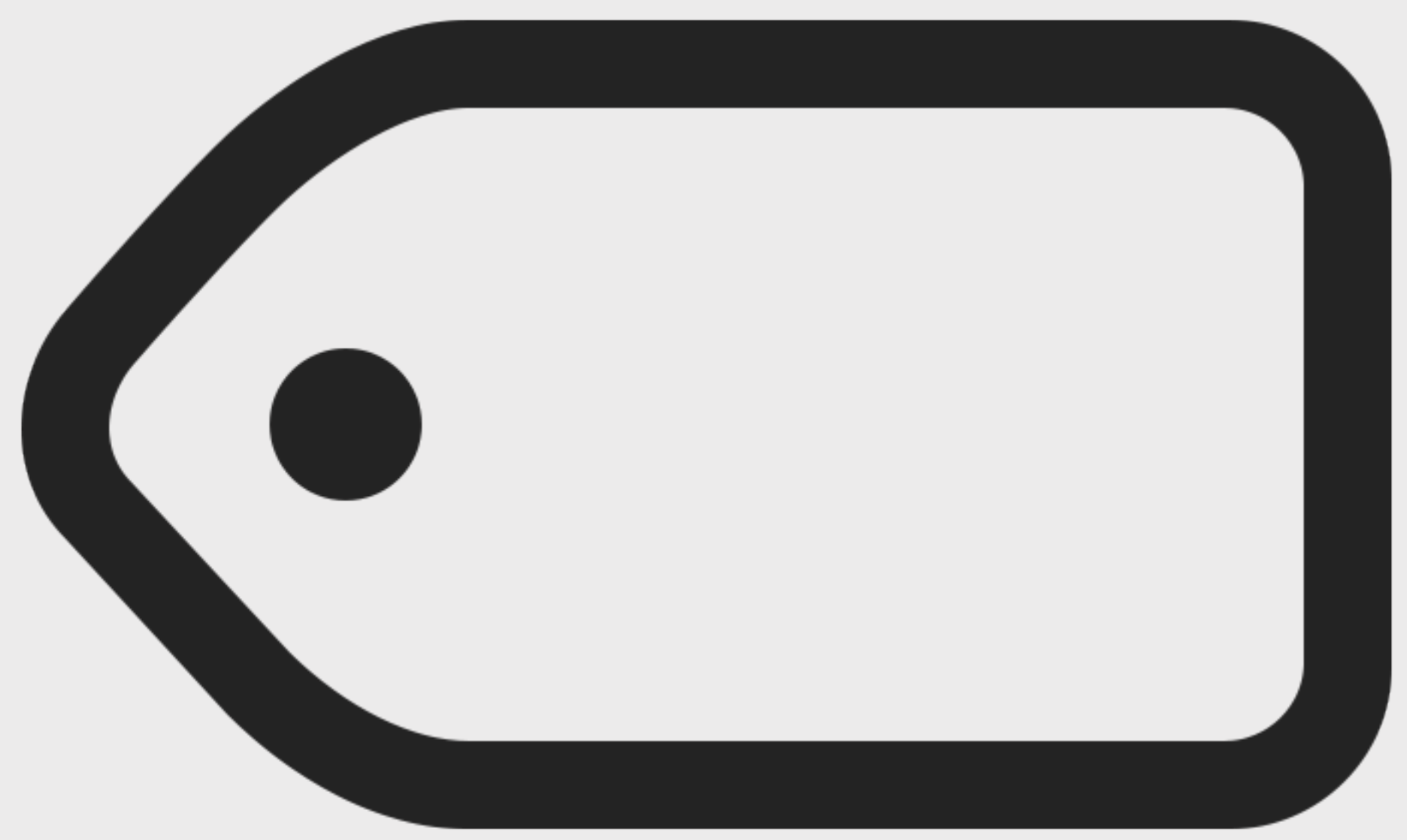




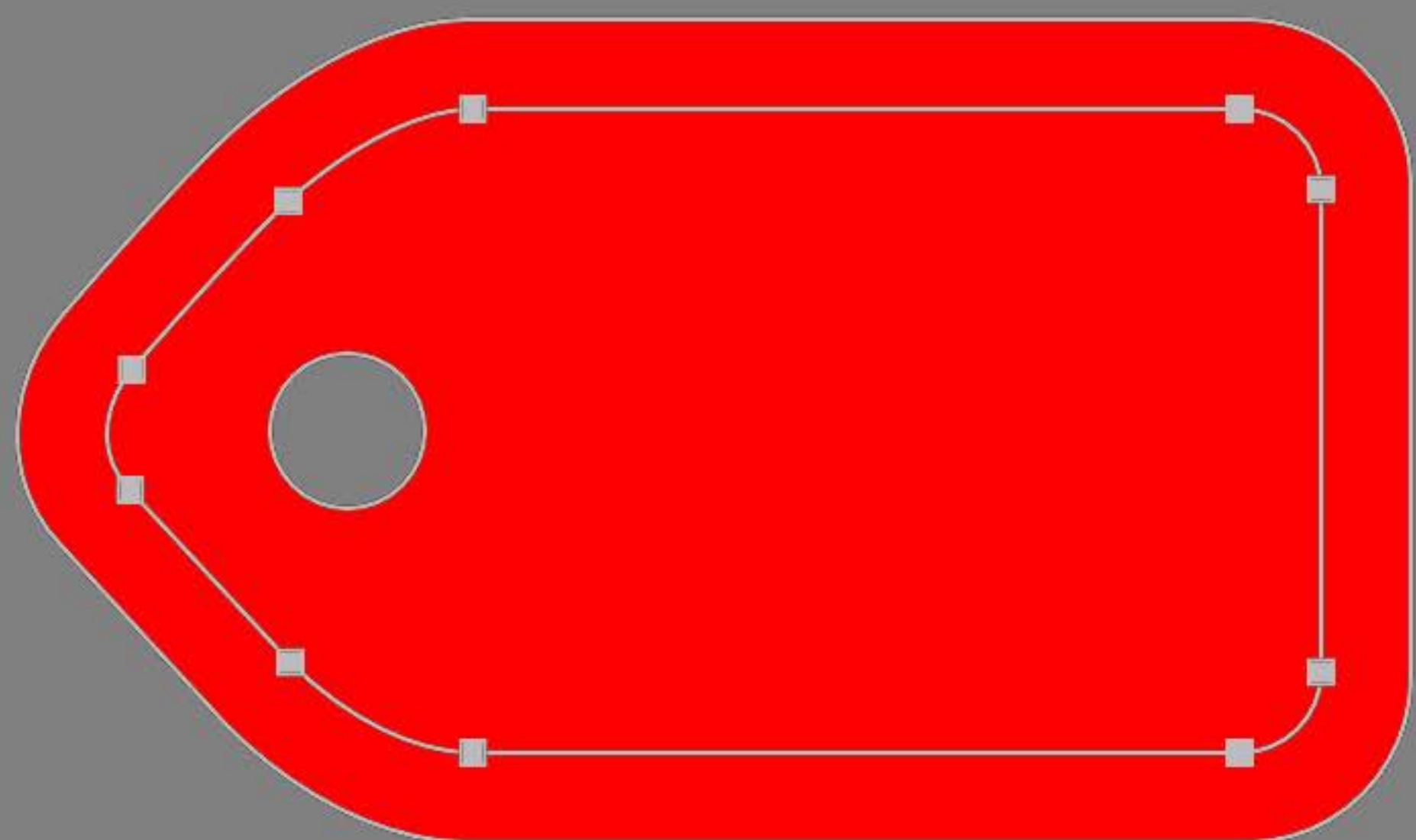
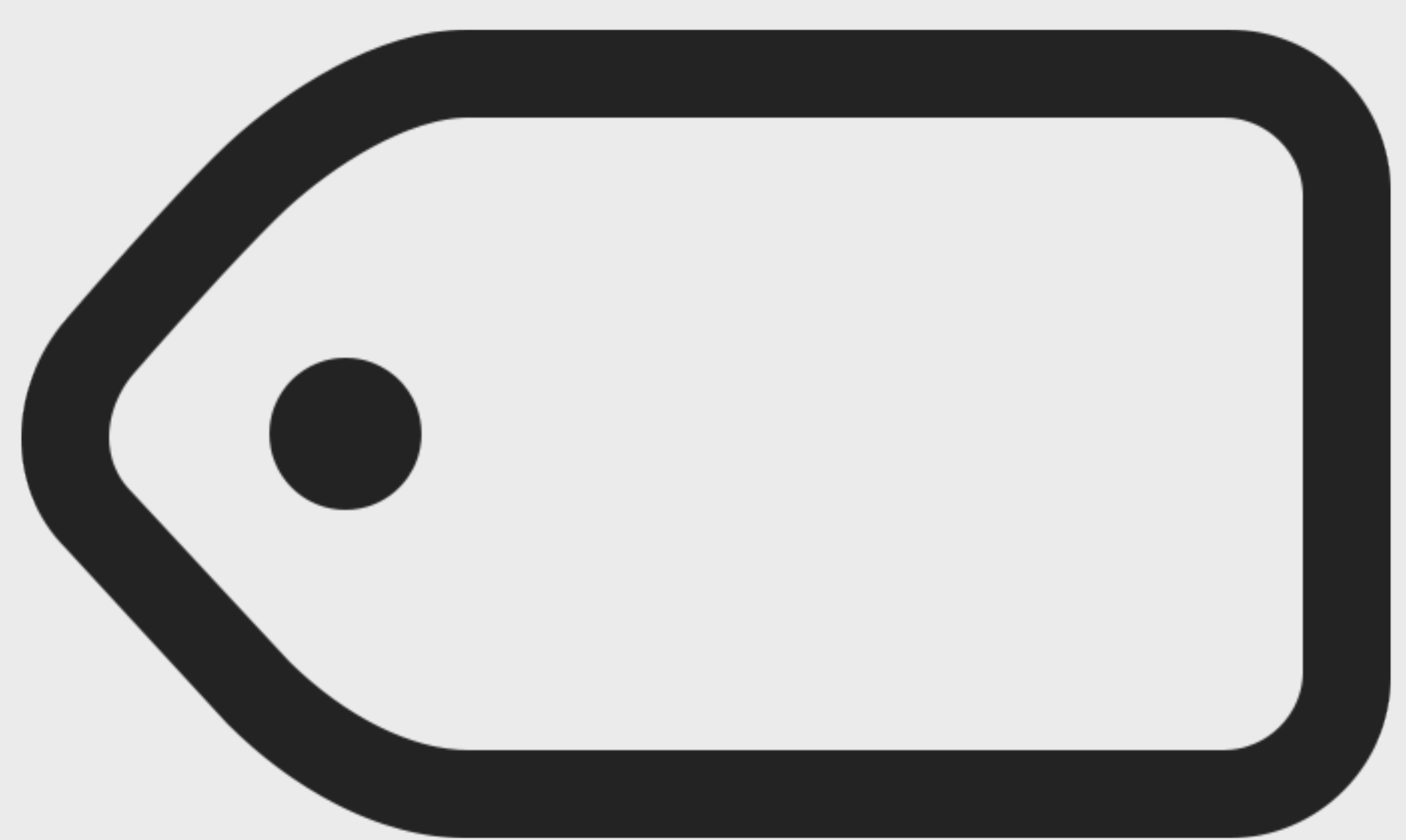


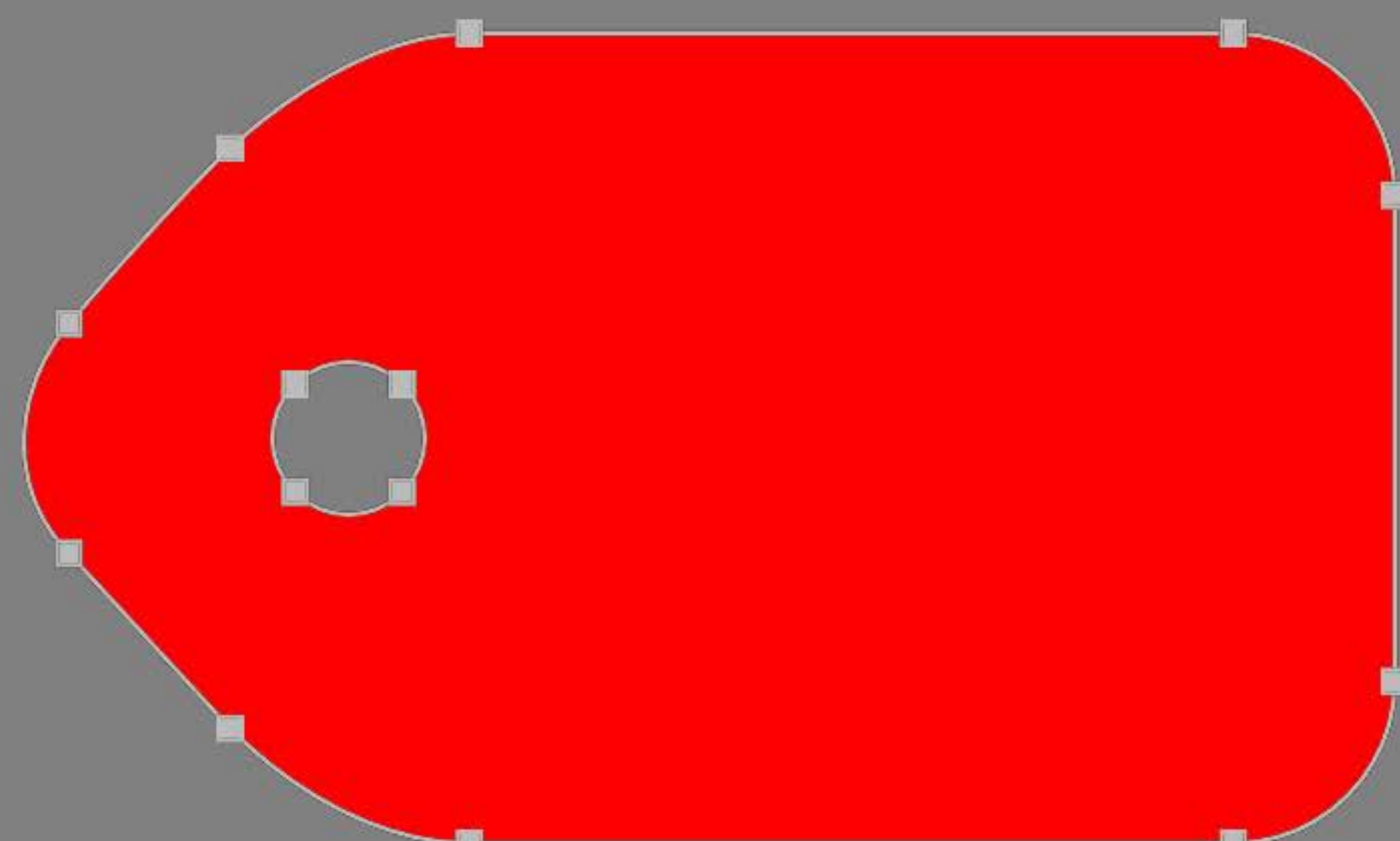
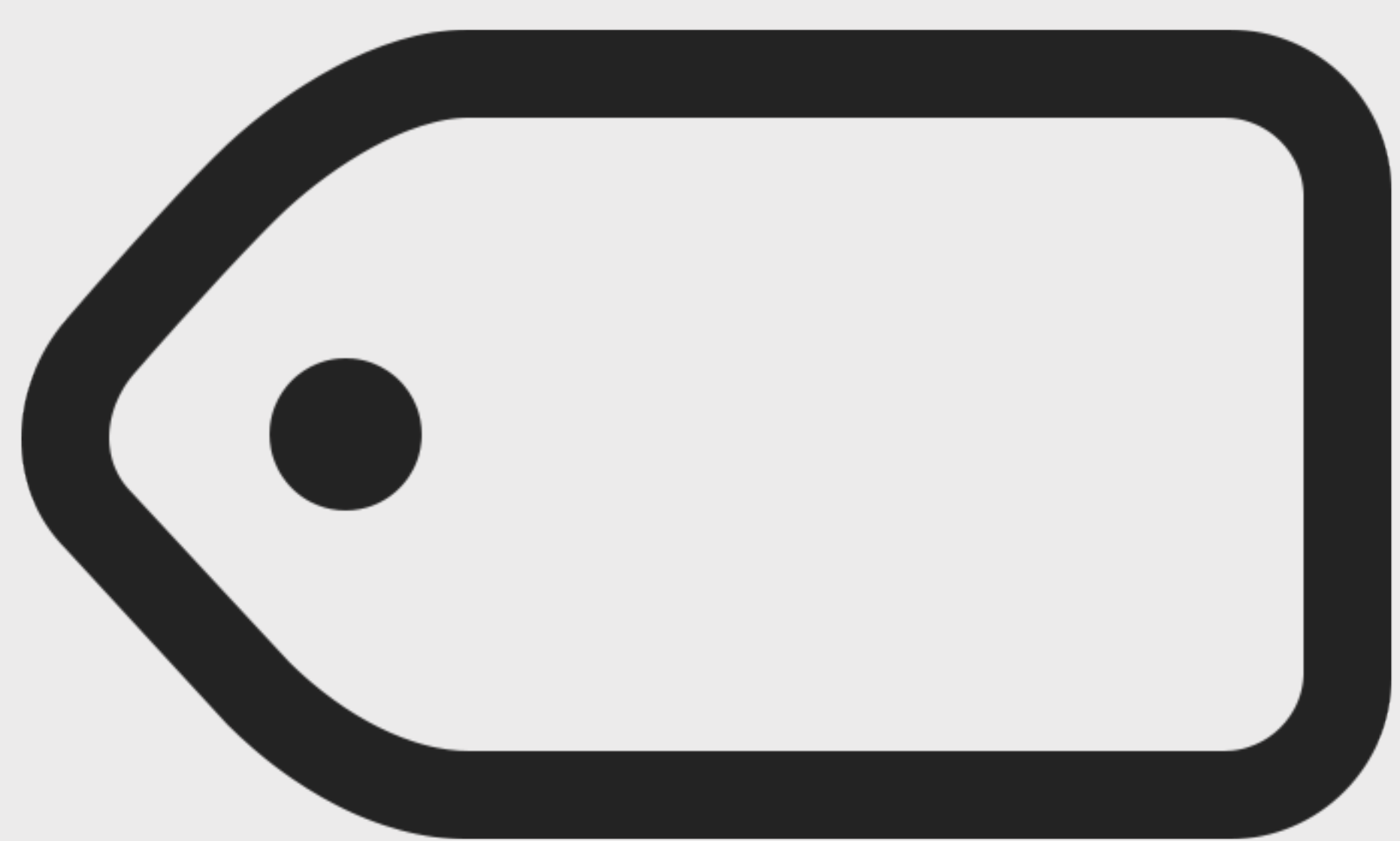








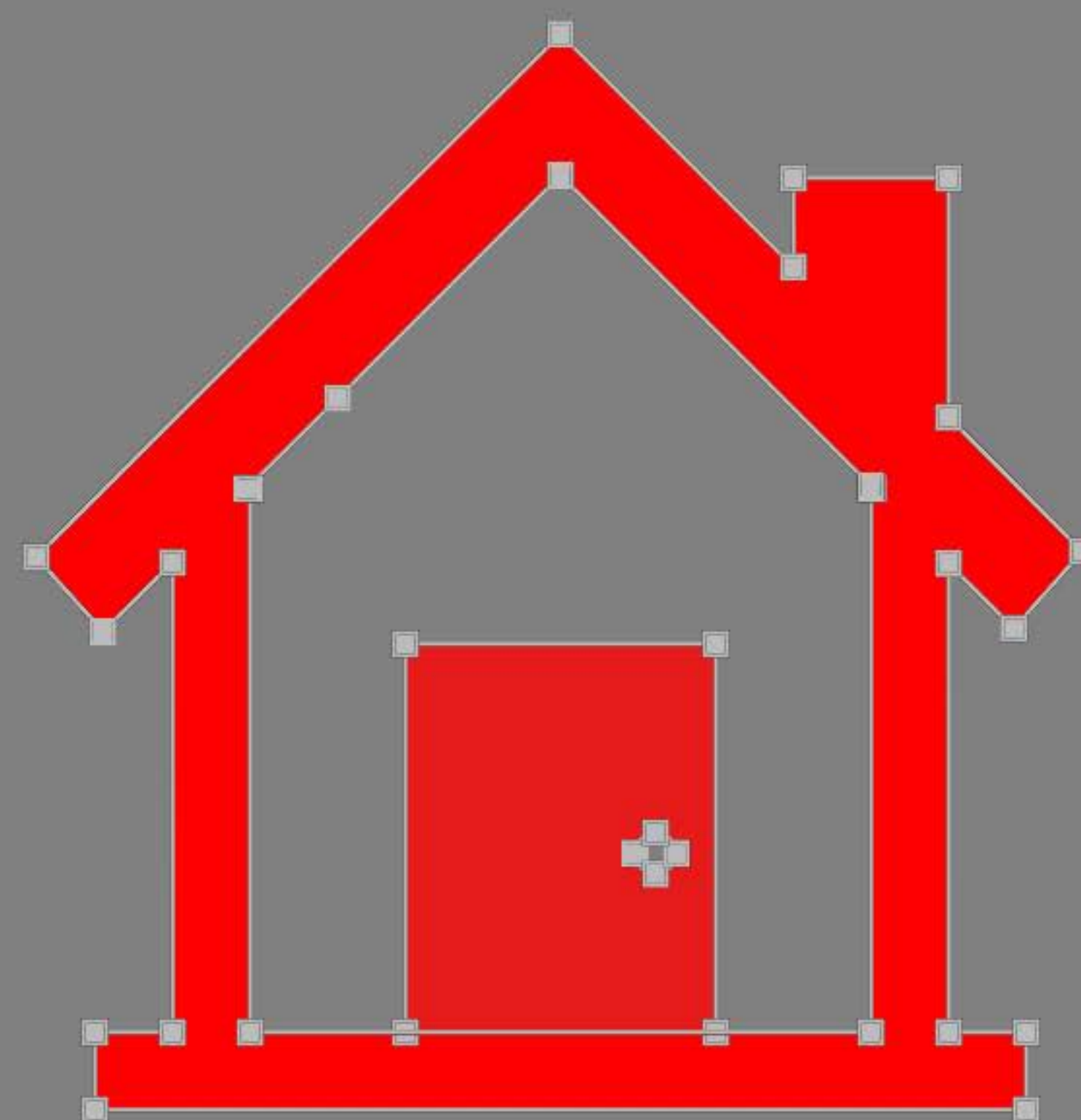


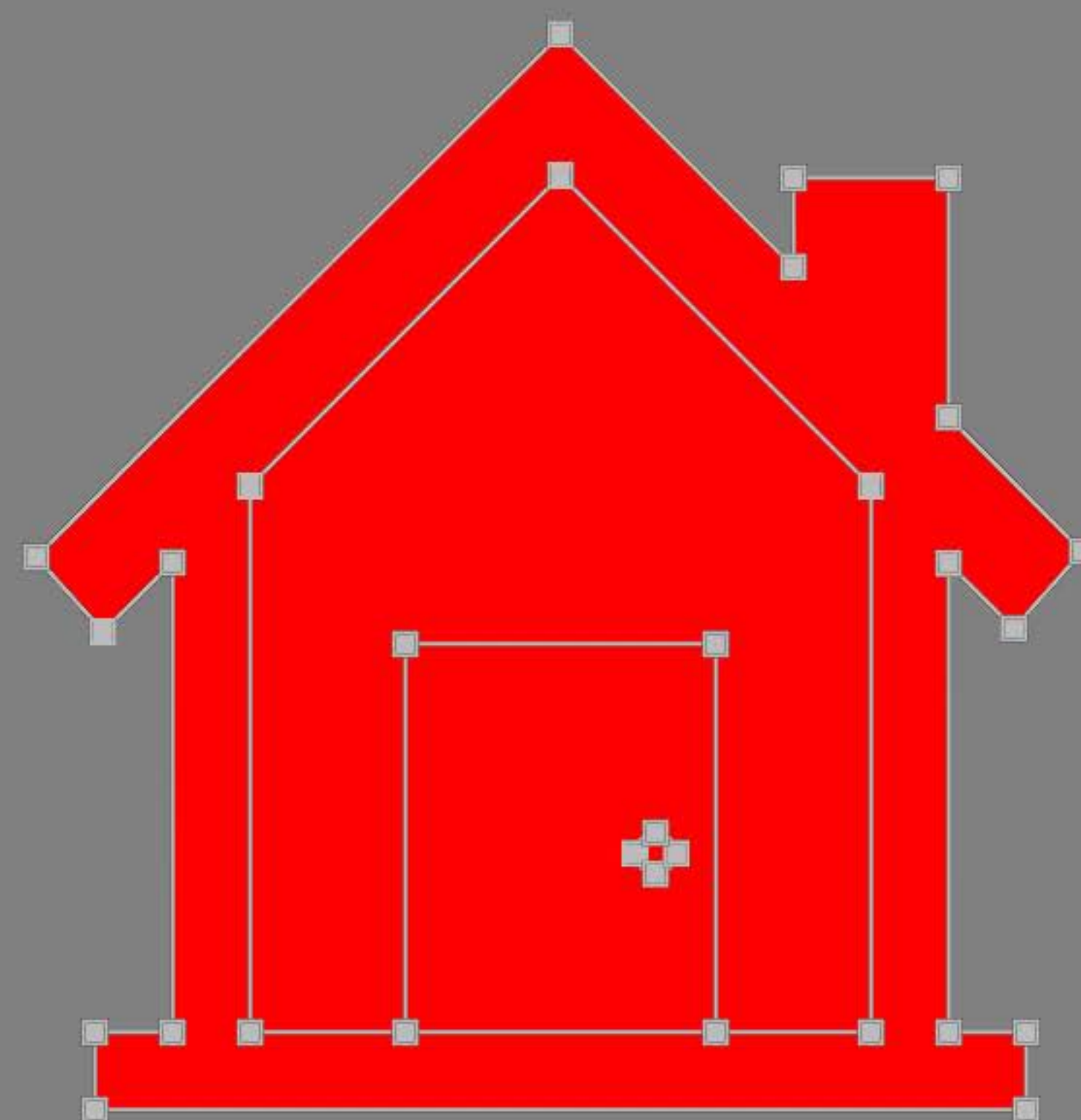


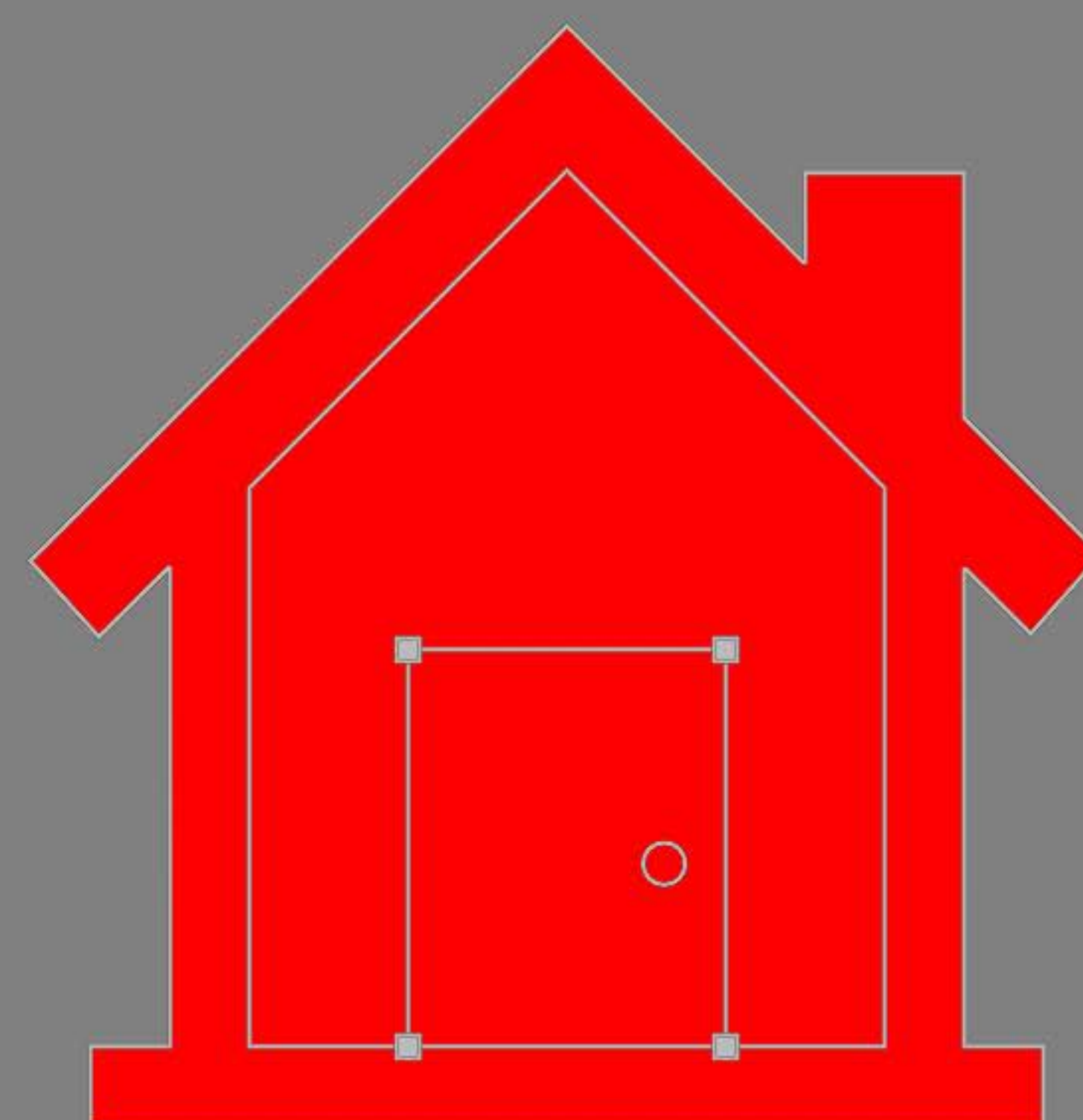




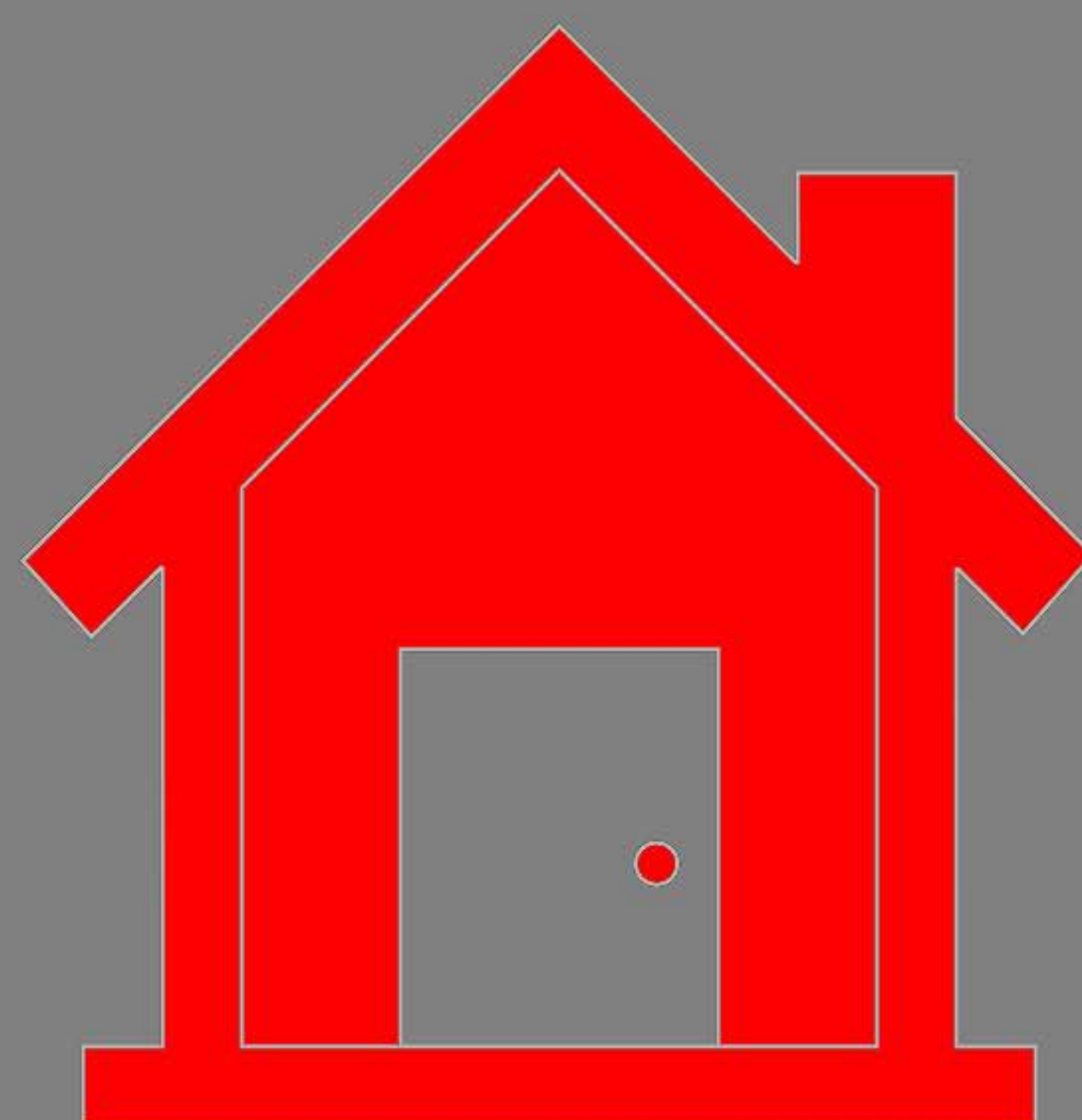


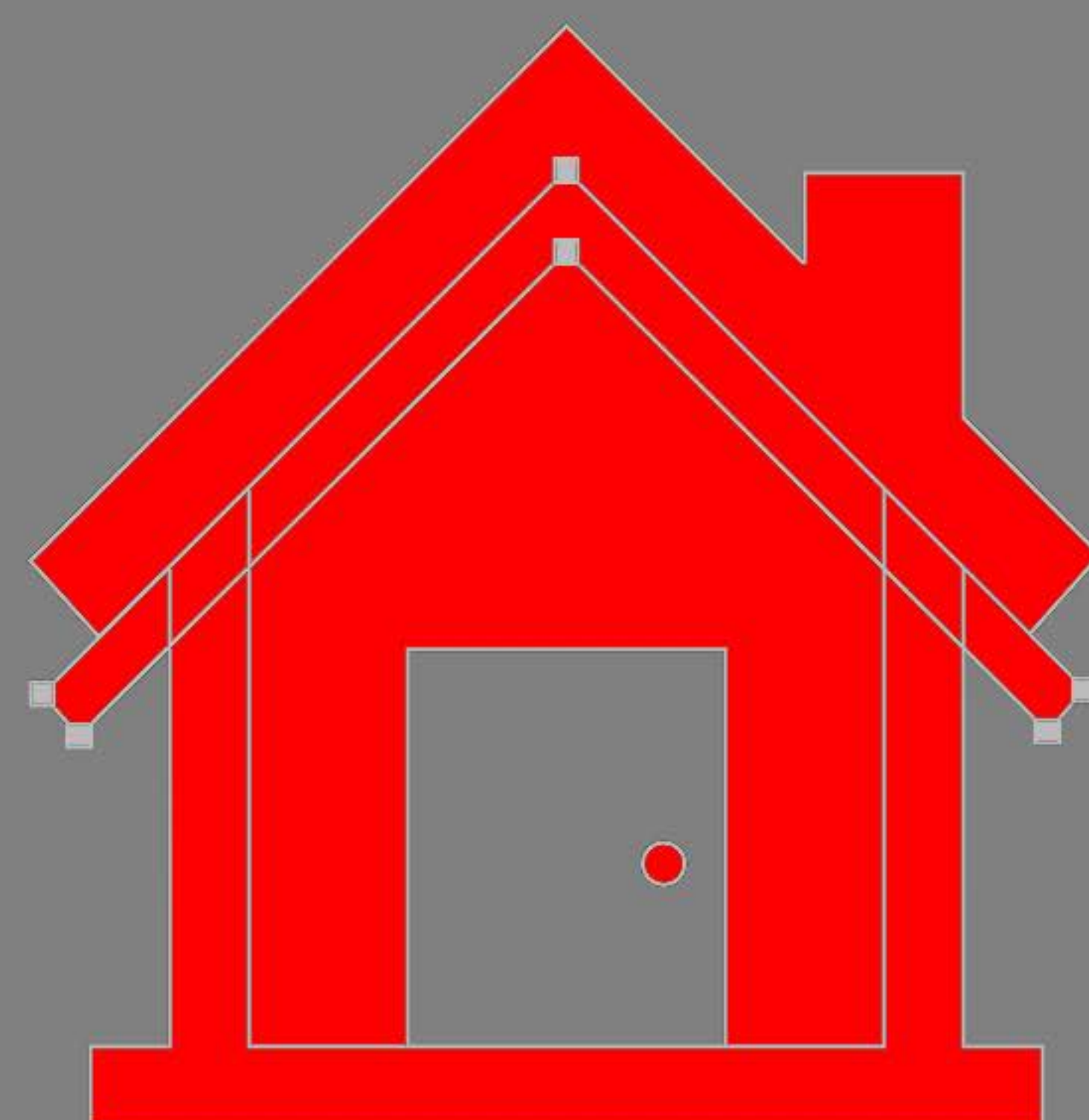


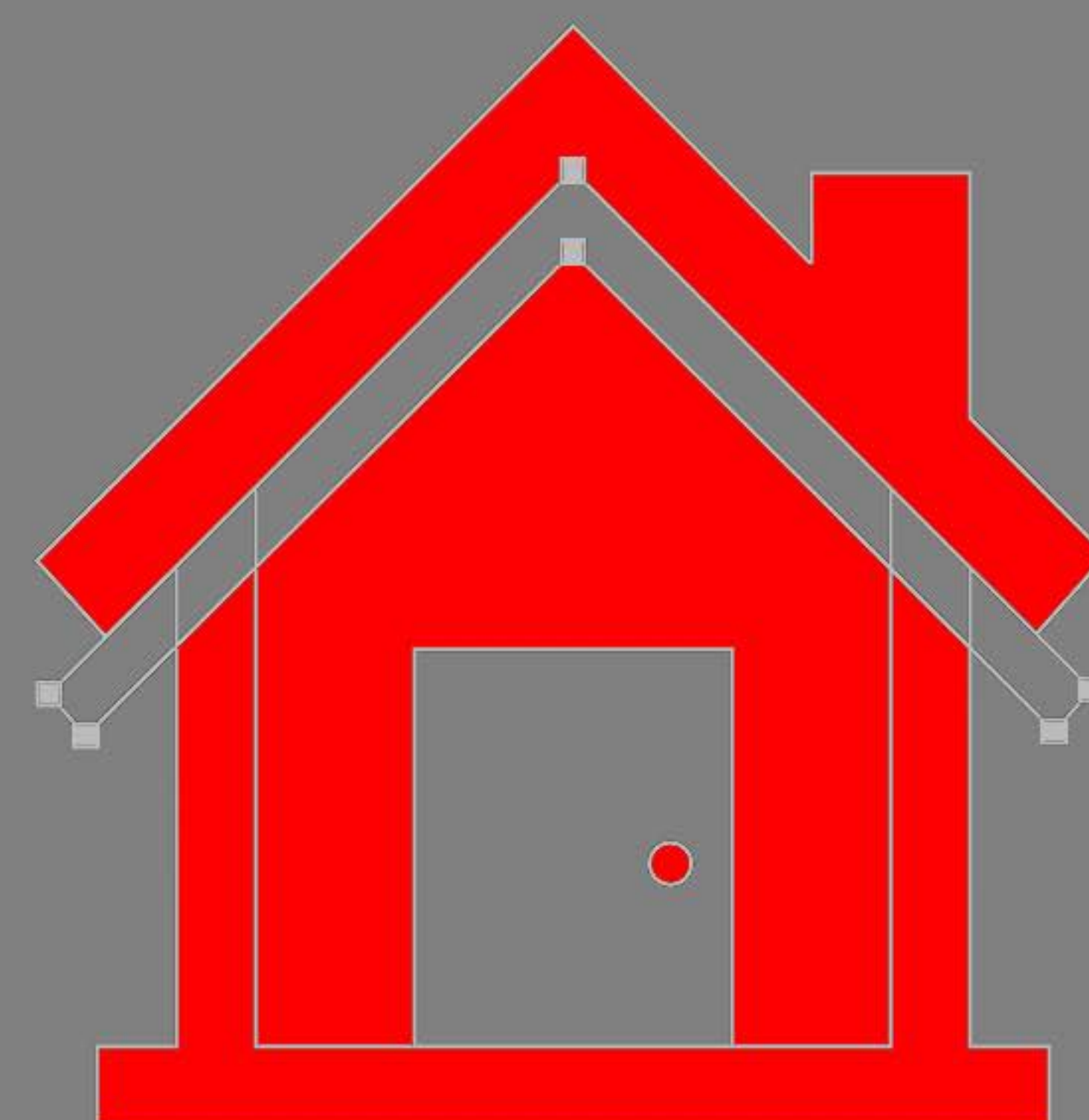


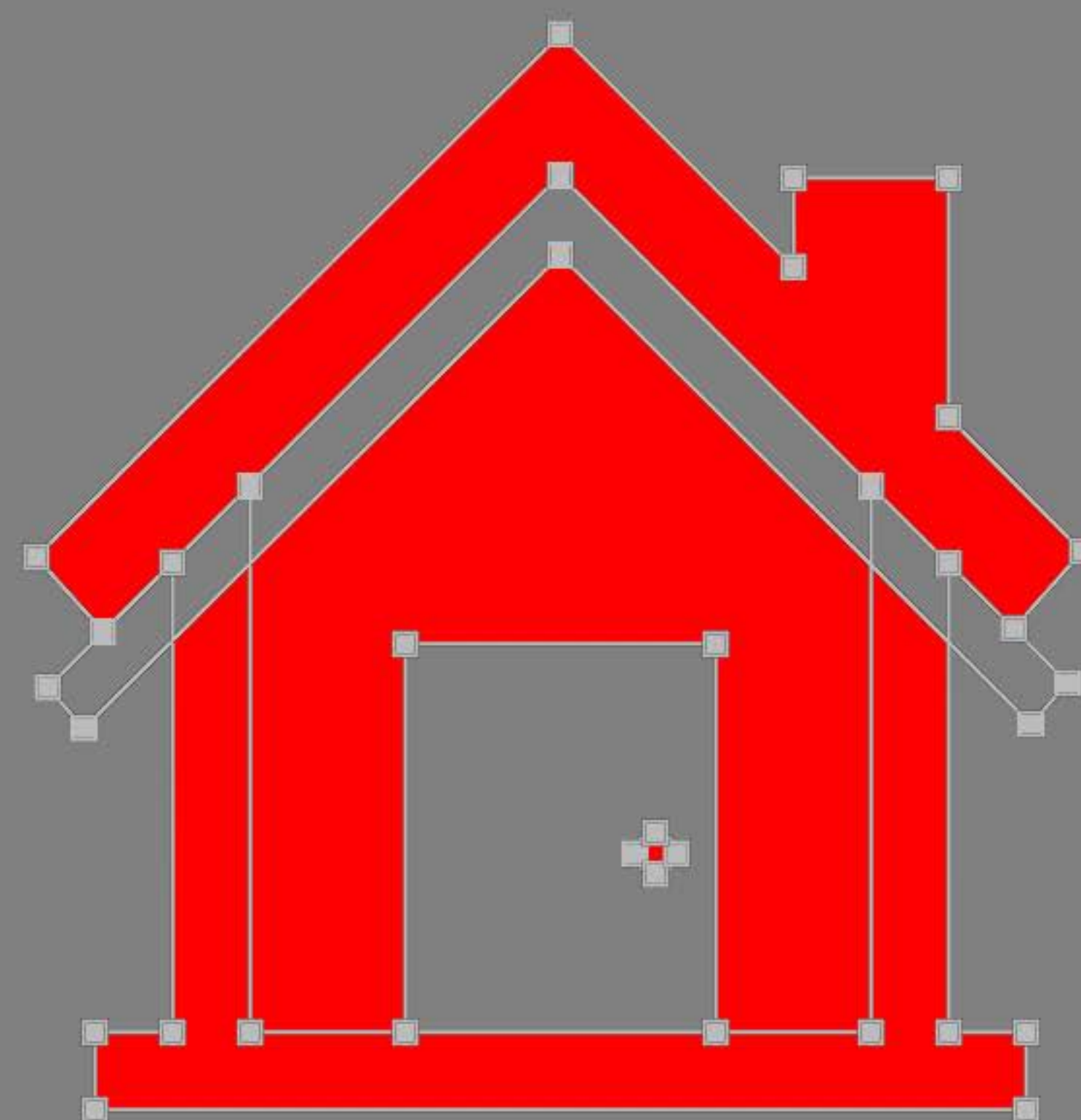


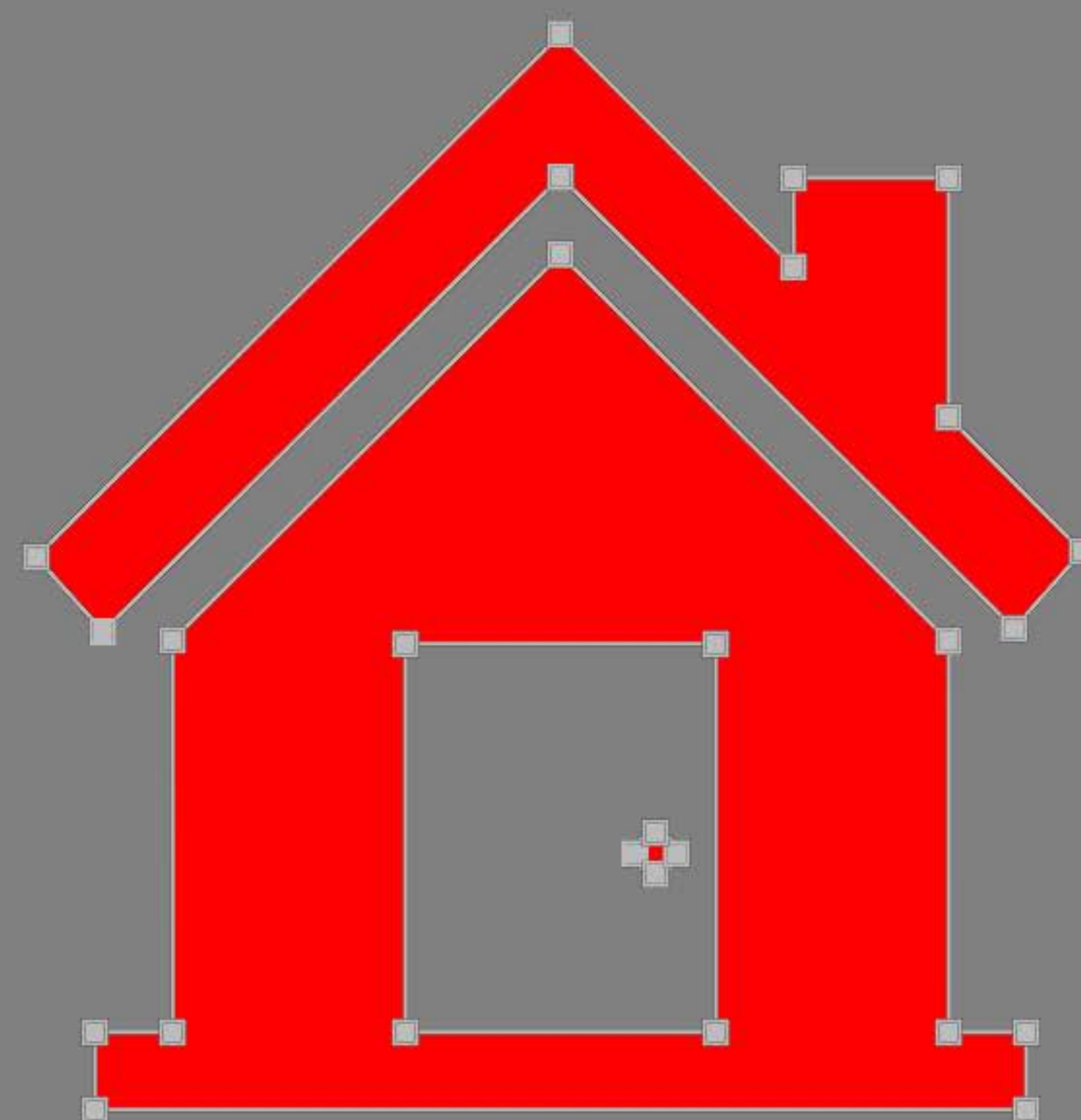










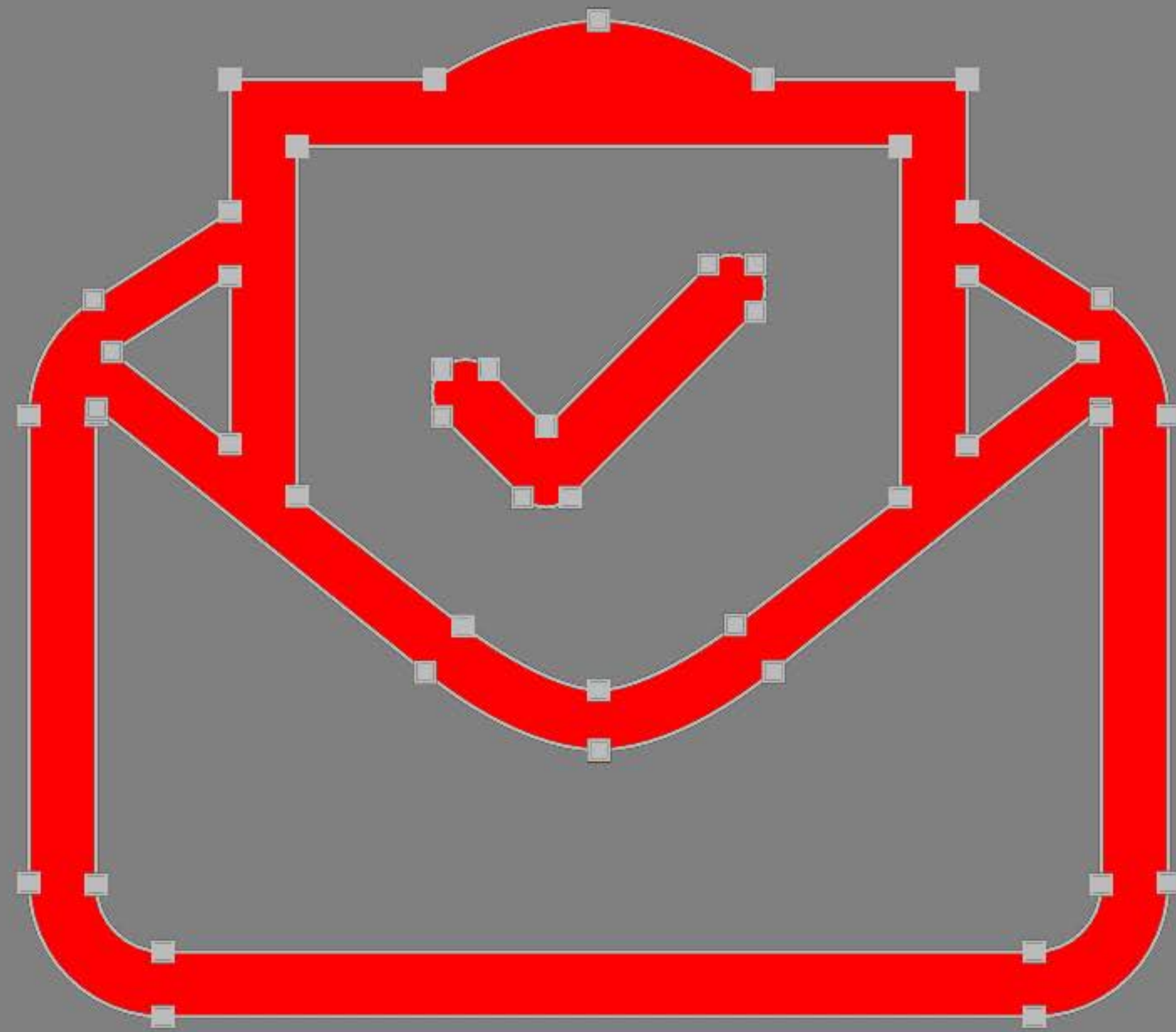


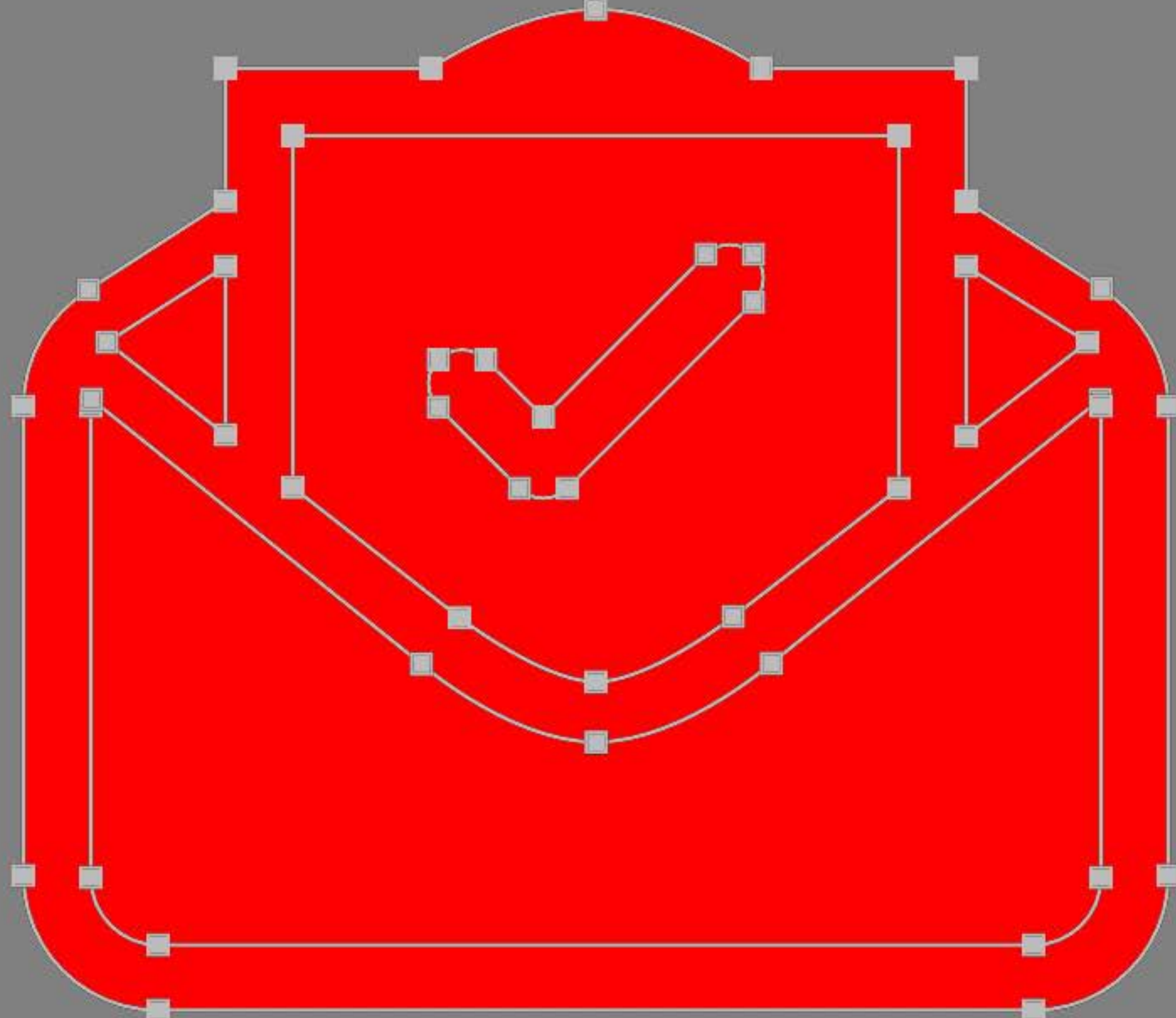


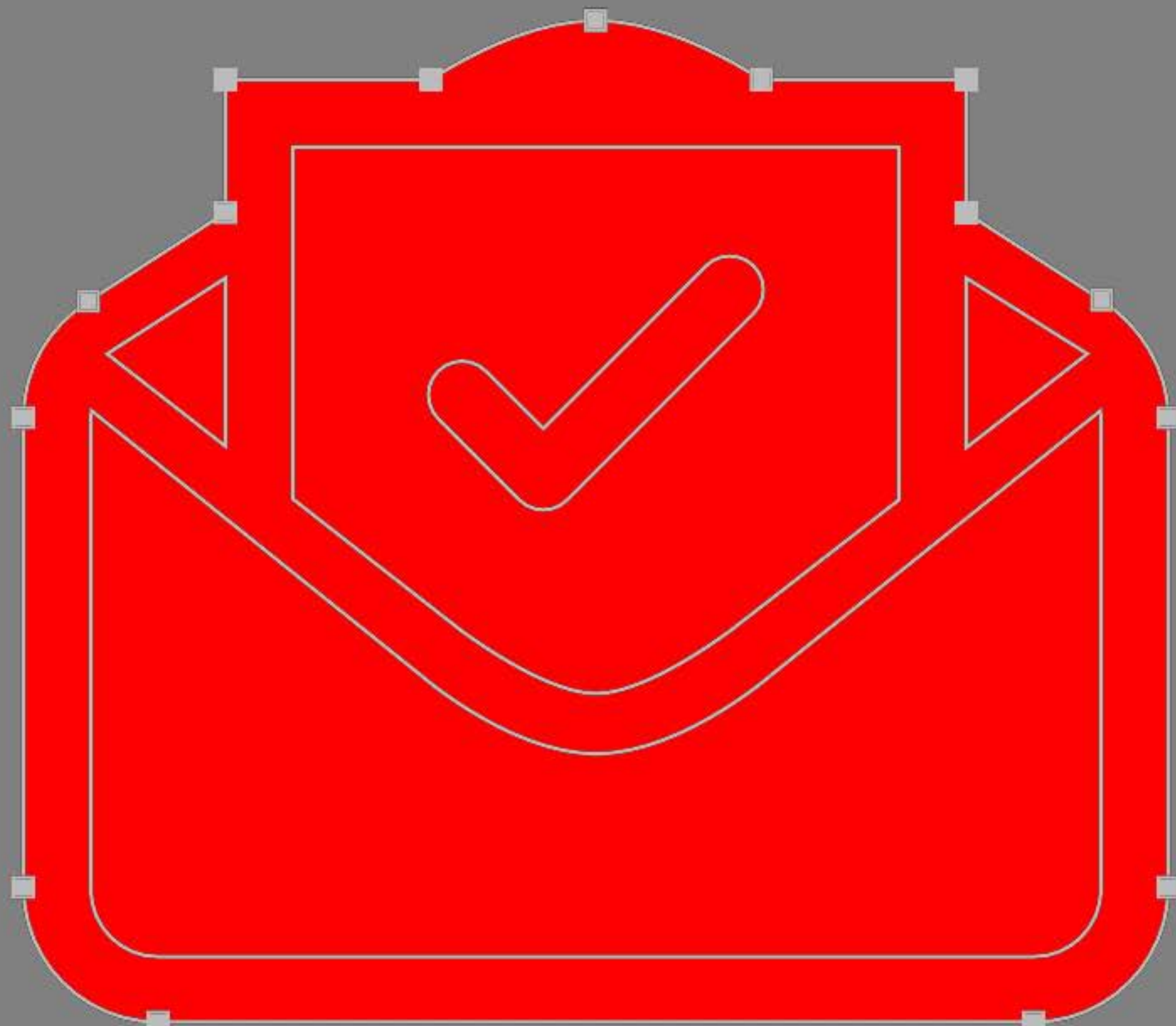




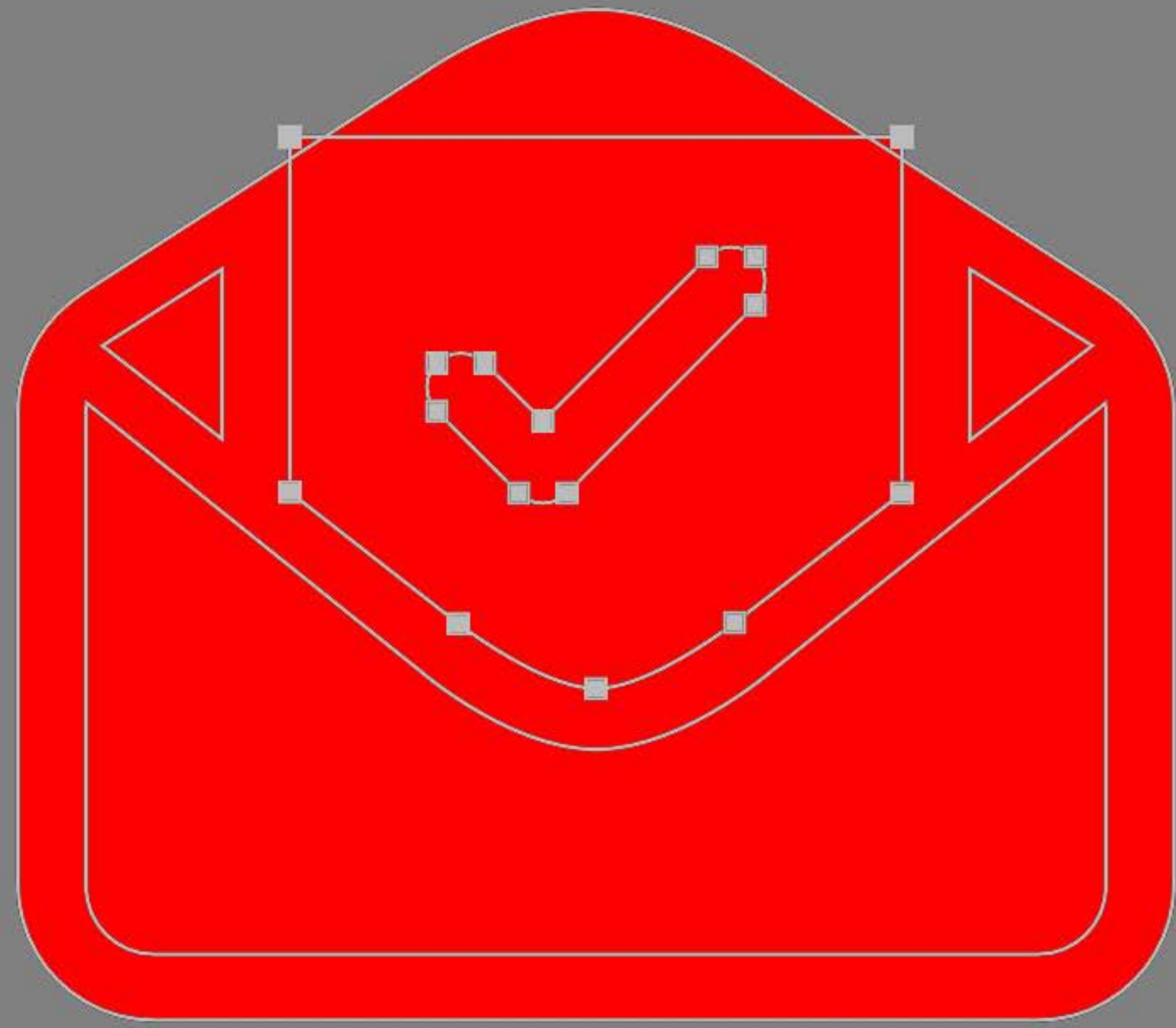


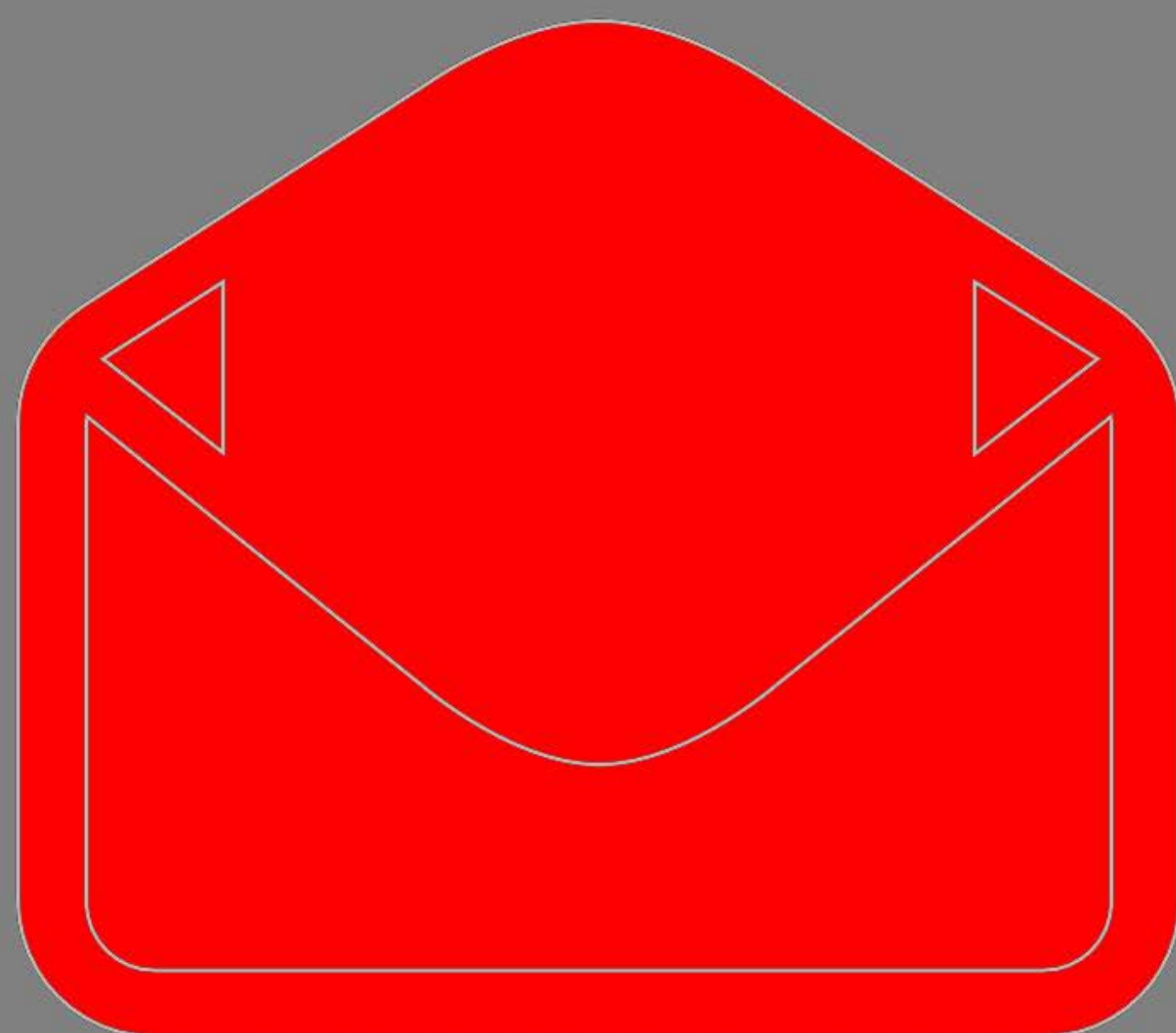


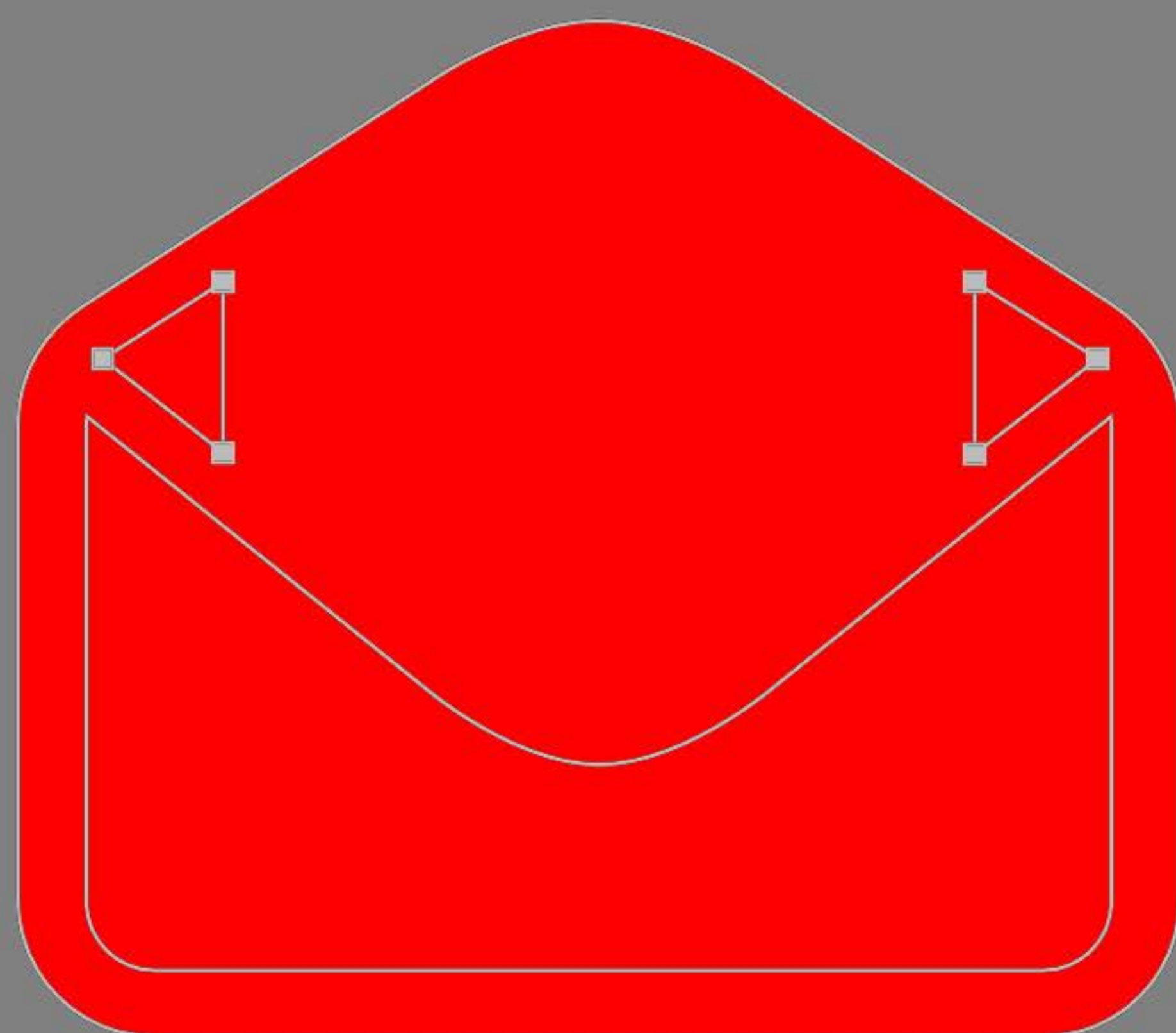


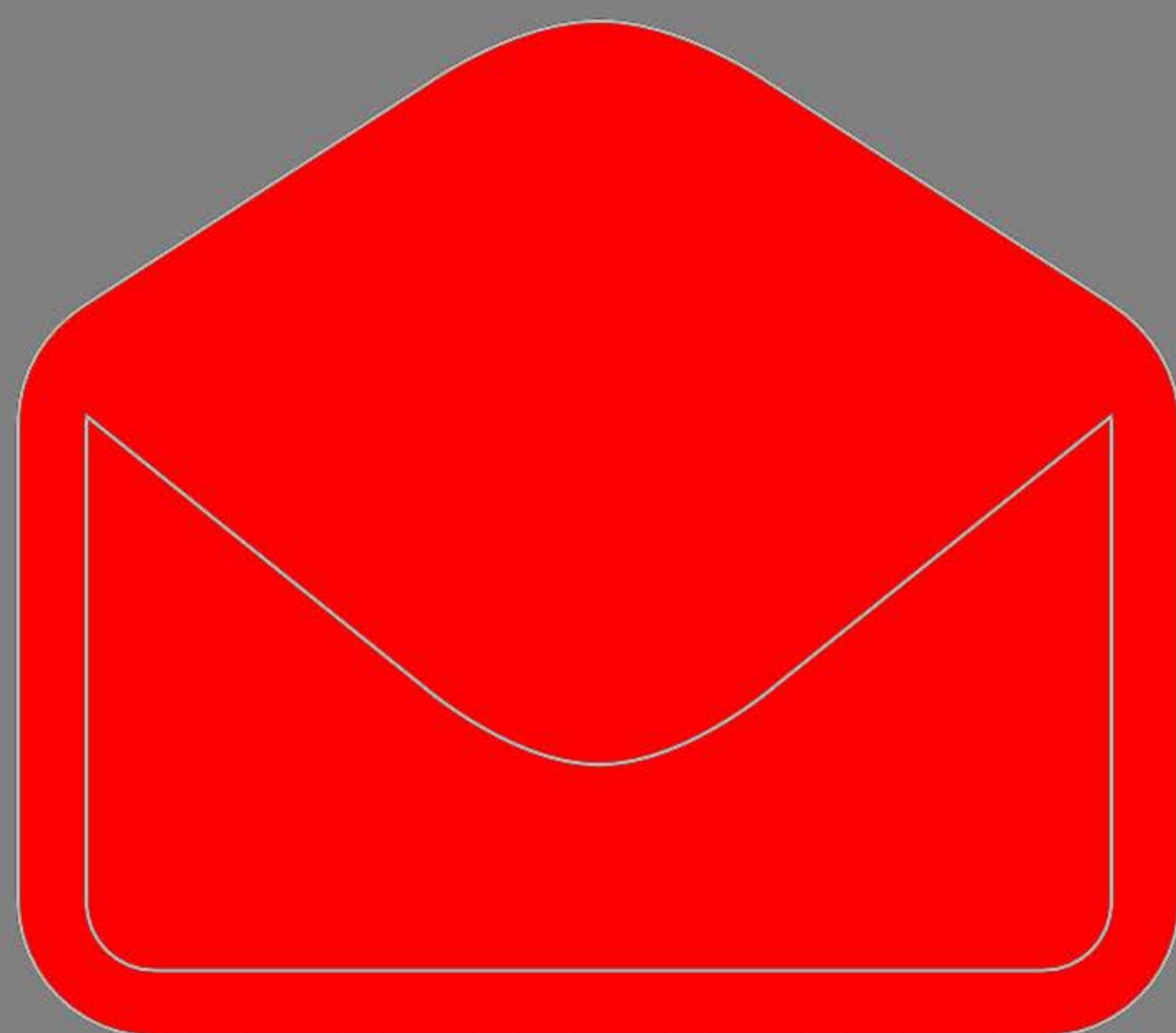




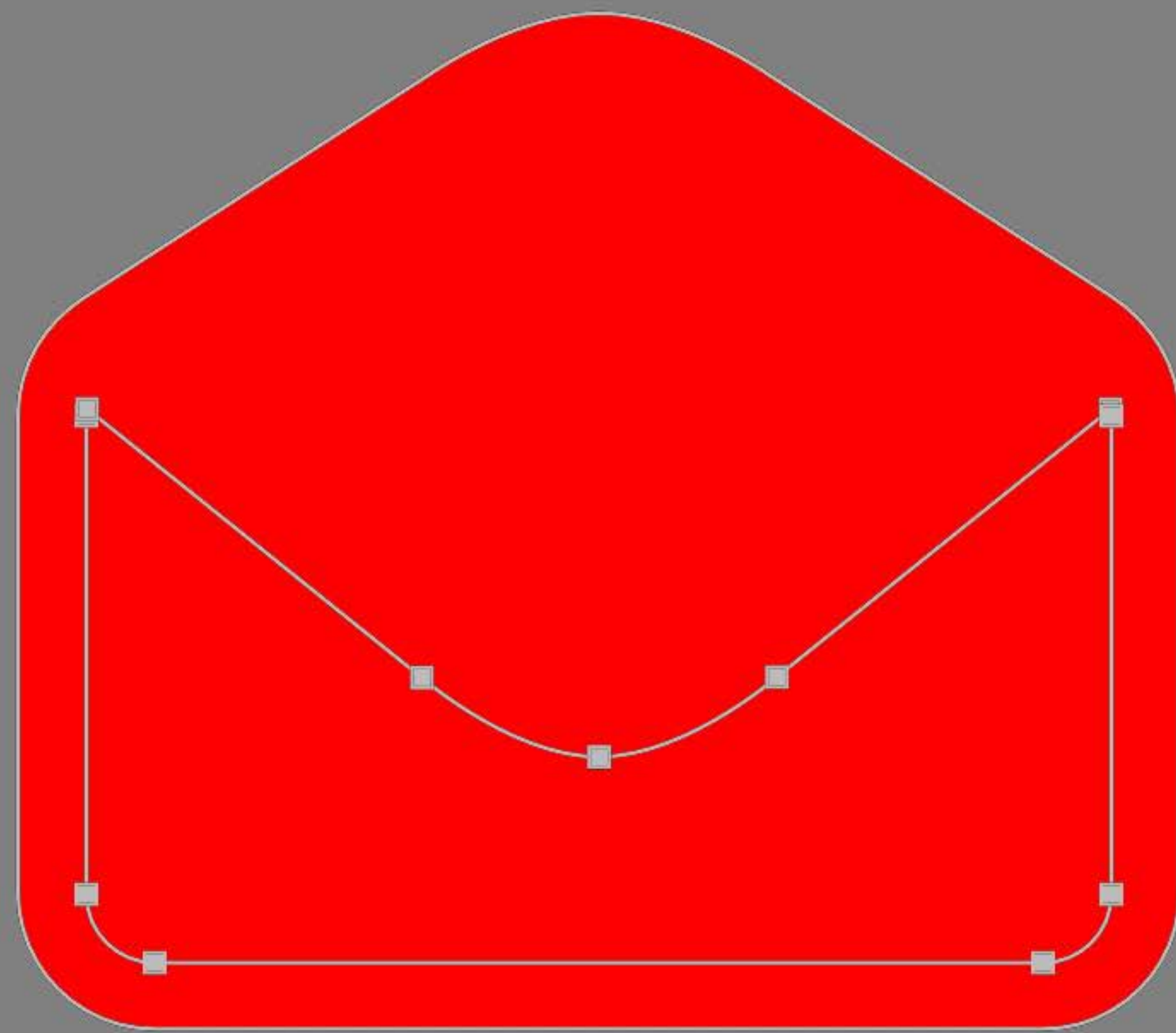


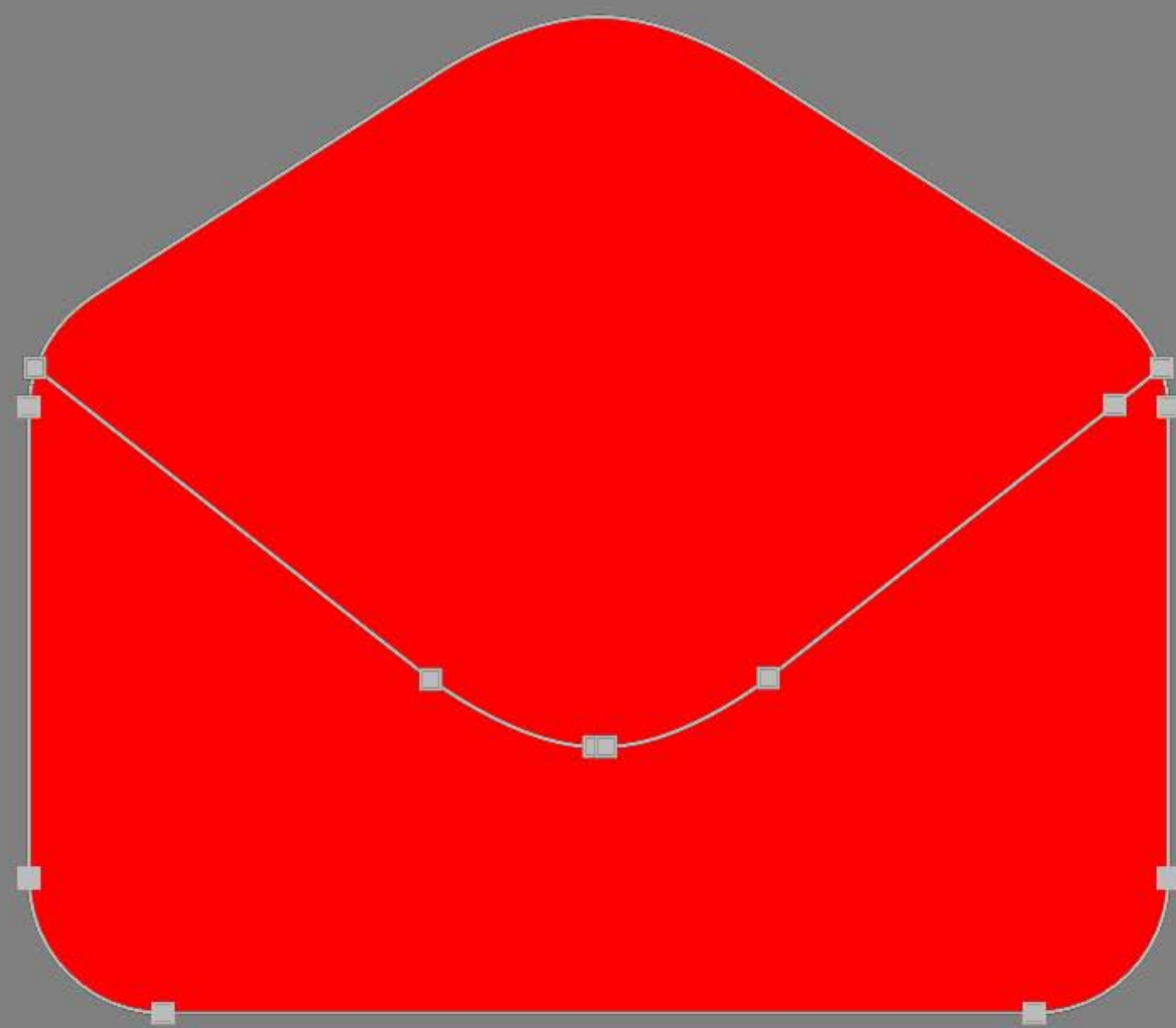


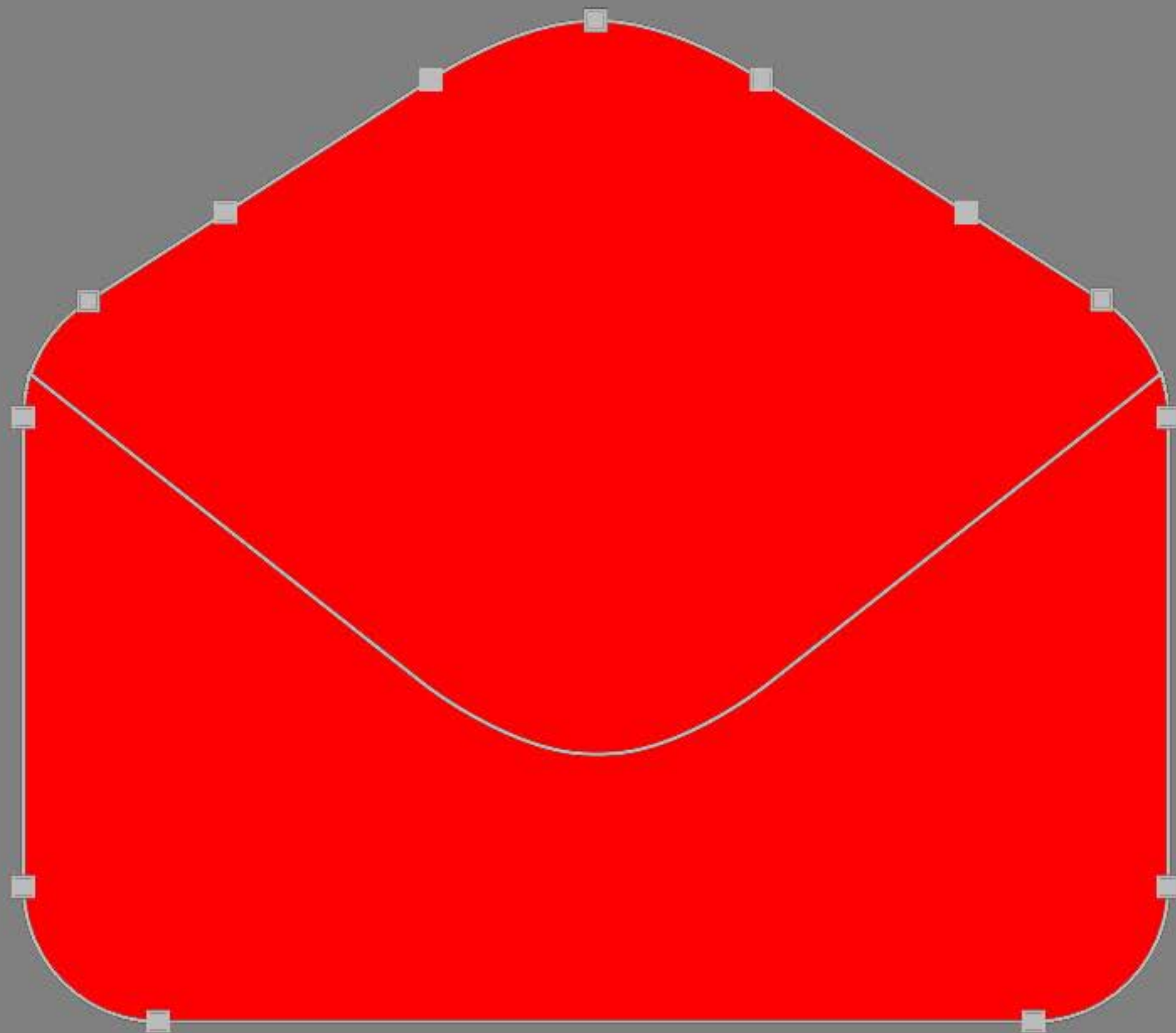


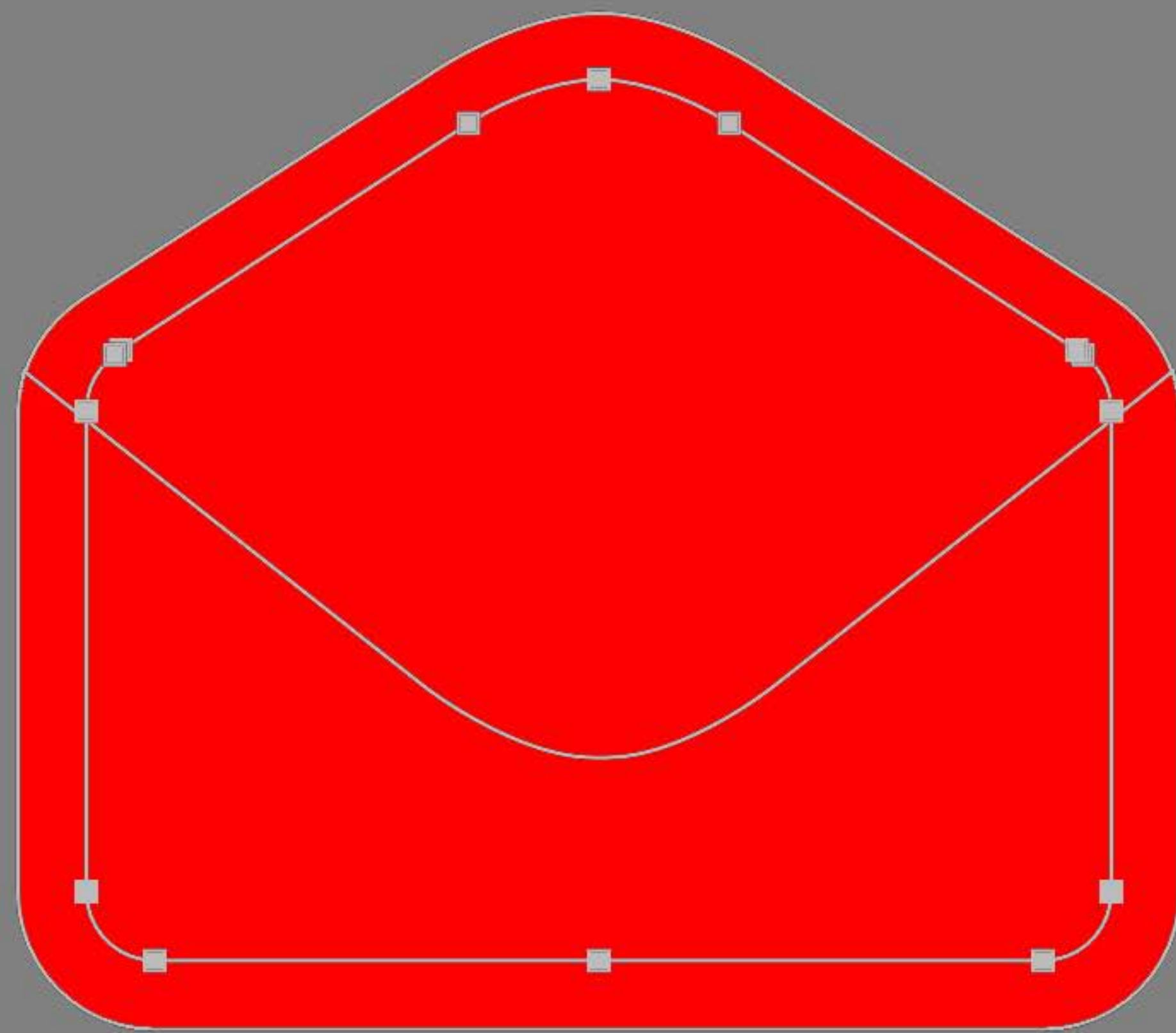


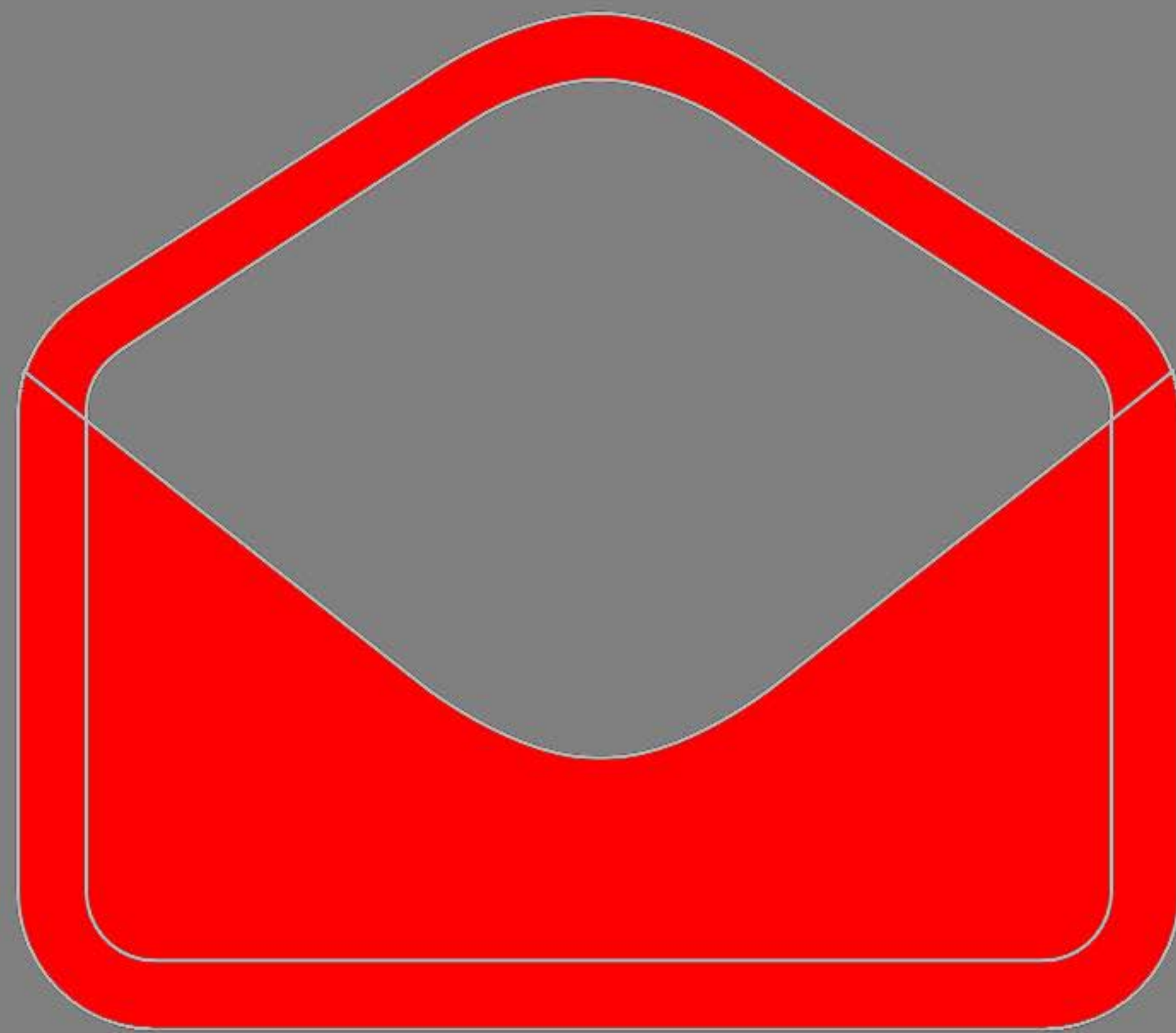


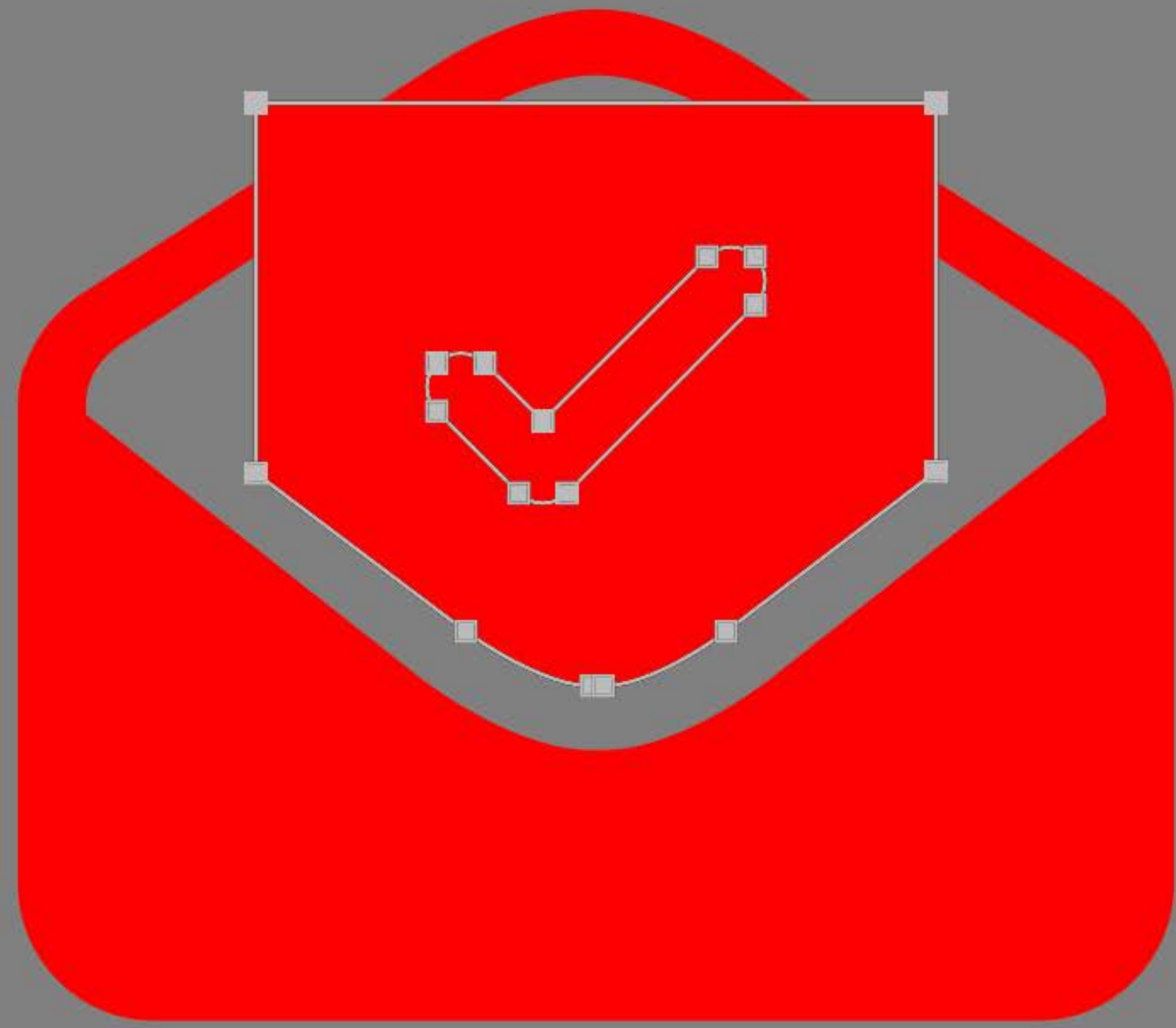


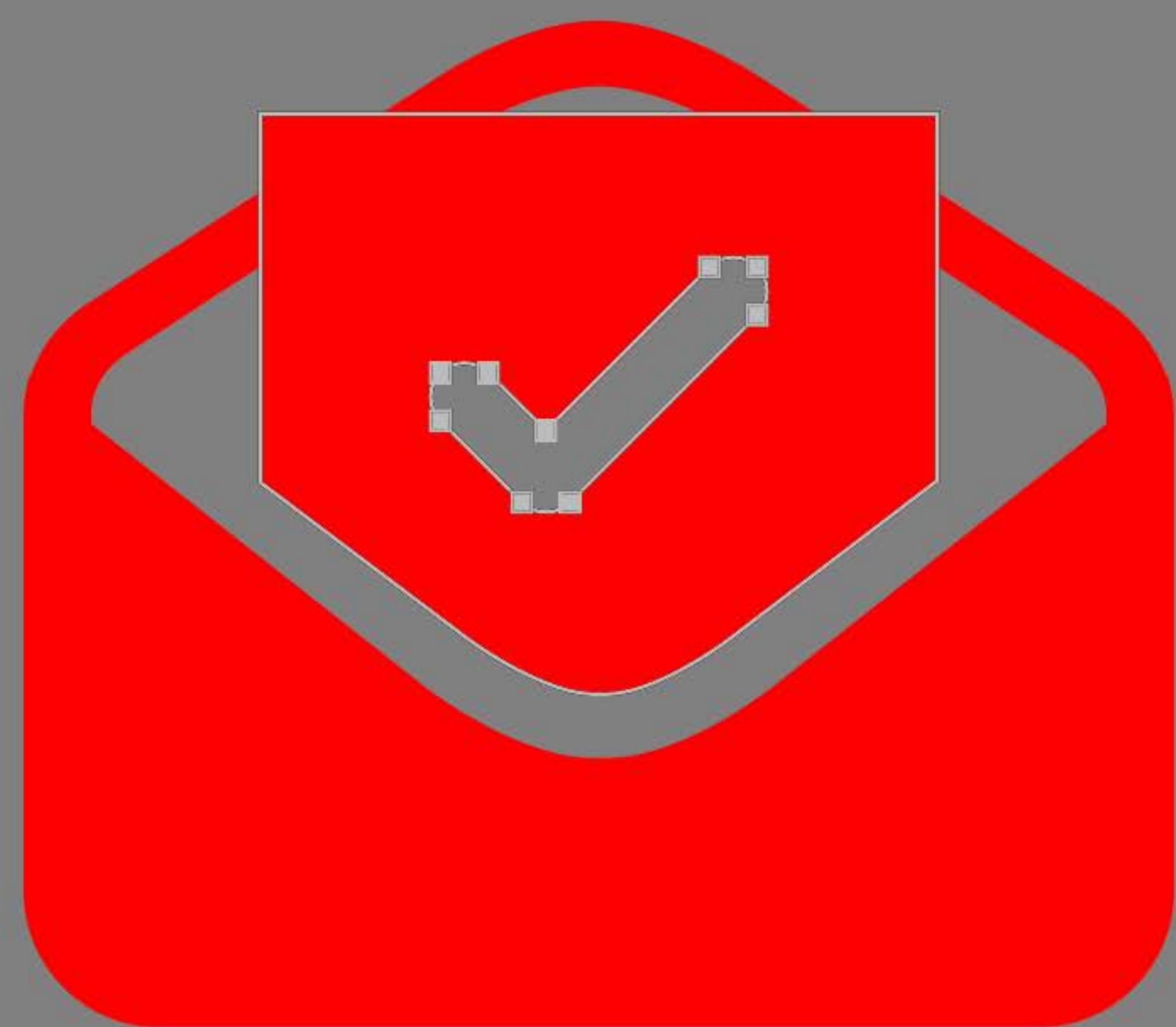






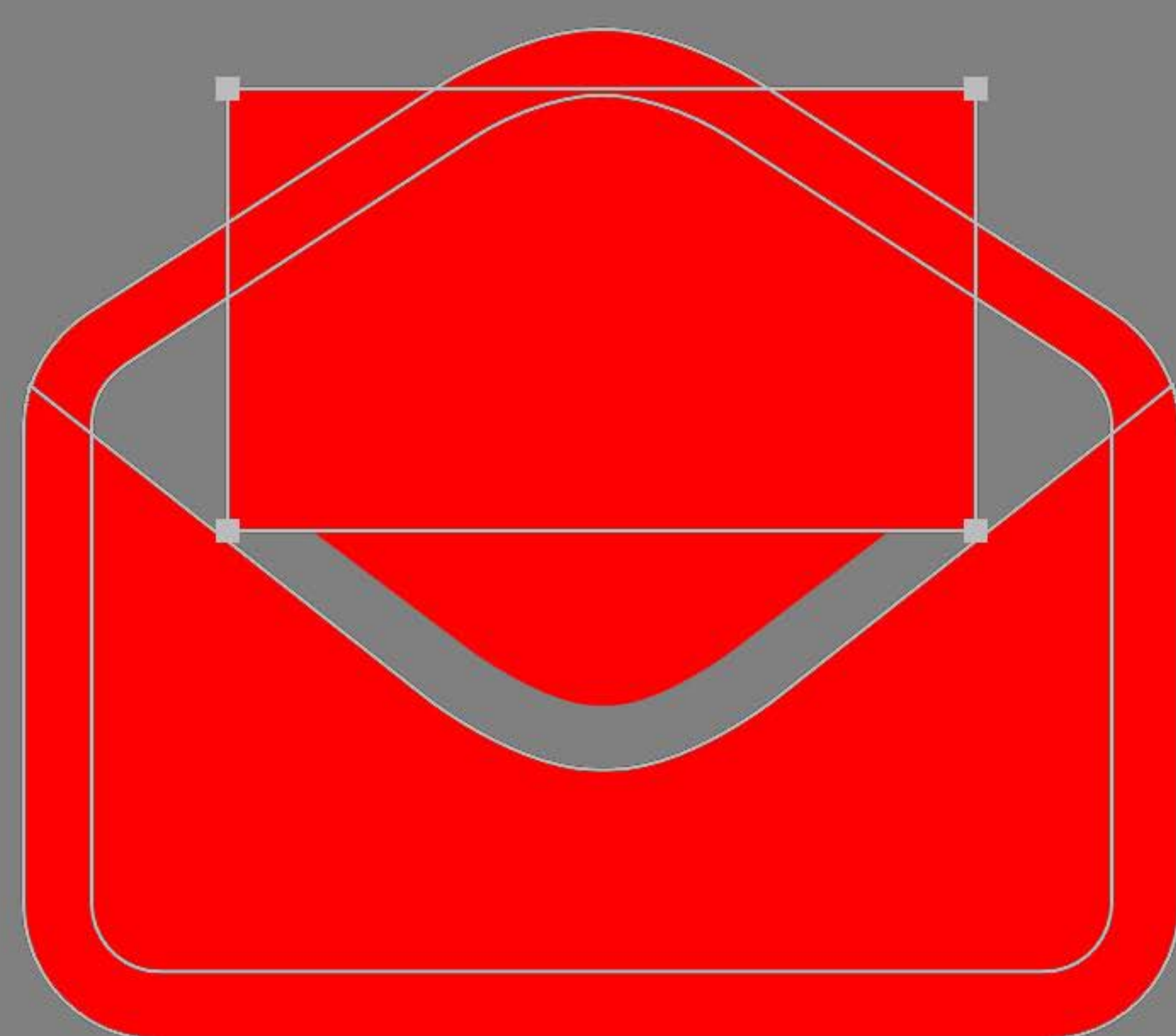




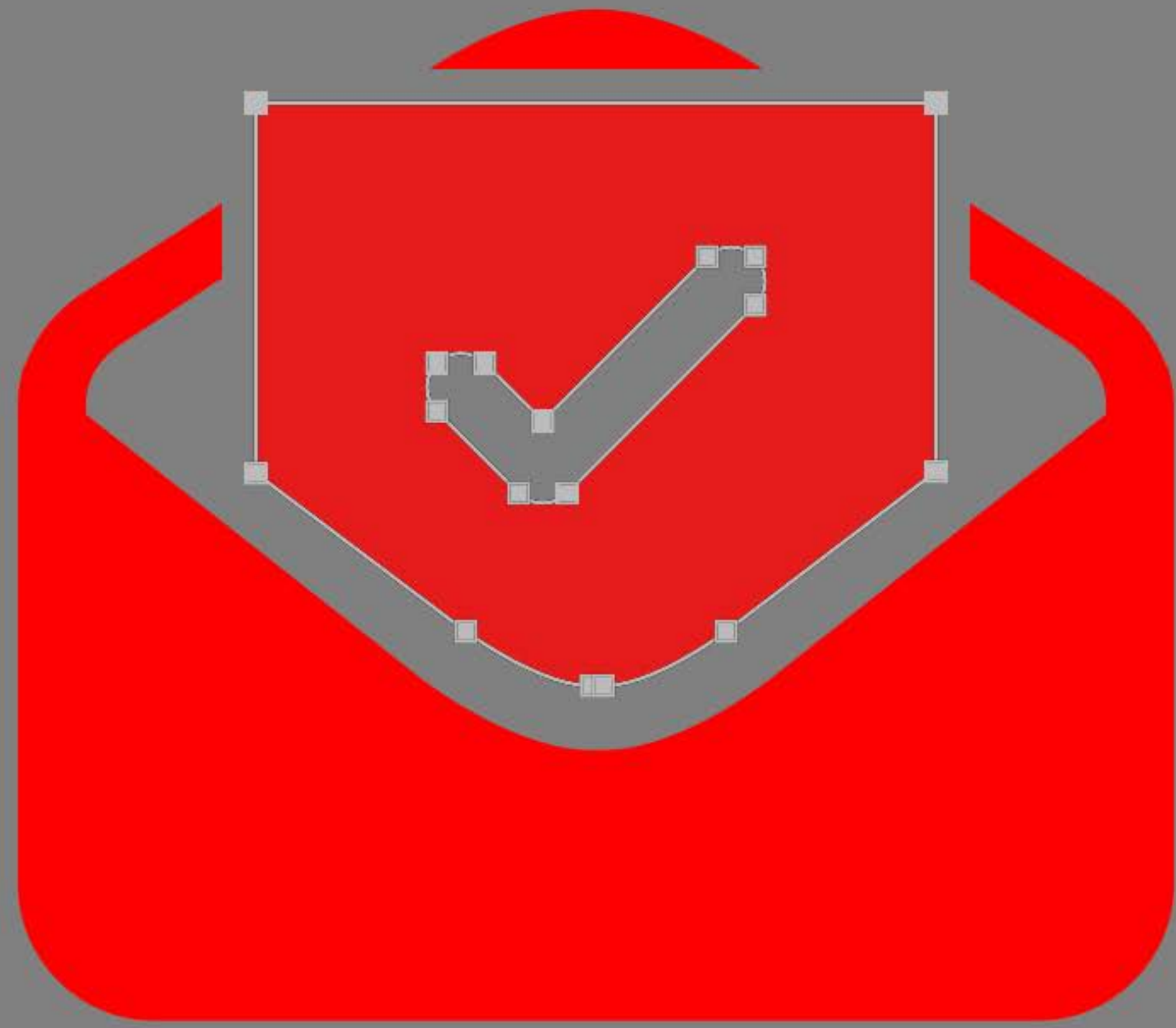














Recap

Dark interfaces are cool

Dark interfaces are not just inverted

Dark Mode is content-focused

Dark interfaces are cool

**Dark interfaces are not just inverted**

Dark Mode is content-focused

Dark interfaces are cool

Dark interfaces are not just inverted

**Dark Mode is content-focused**



Colors

Vibrancy

Glyphs

Colors

Vibrancy

Glyphs

Colors

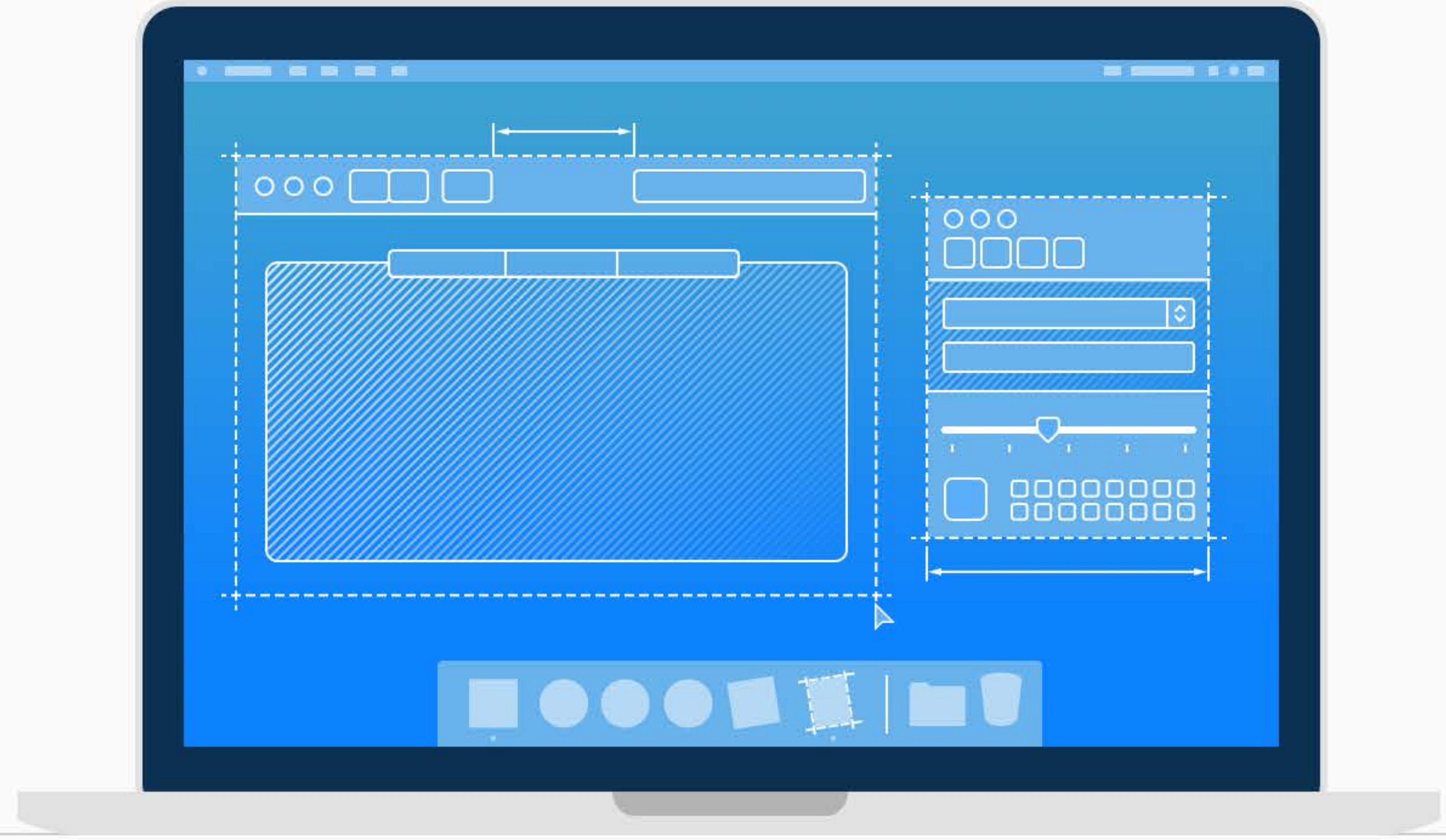
Vibrancy

Glyphs

# Human Interface Guidelines

macOS

- > Overview
  - Themes**
  - Visual Index
- > App Architecture
- > User Interaction
- > System Capabilities
- > Visual Design
- > Icons and Images
- > Windows and Views
- > Menus
- > Buttons
- > Fields and Labels
- > Selectors
- > Indicators
- > Touch Bar
- > Extensions



## macOS Design Themes

Four primary themes differentiate macOS apps from iOS, tvOS, and watchOS apps. Keep these themes in mind as you imagine your app's identity.

### Flexible

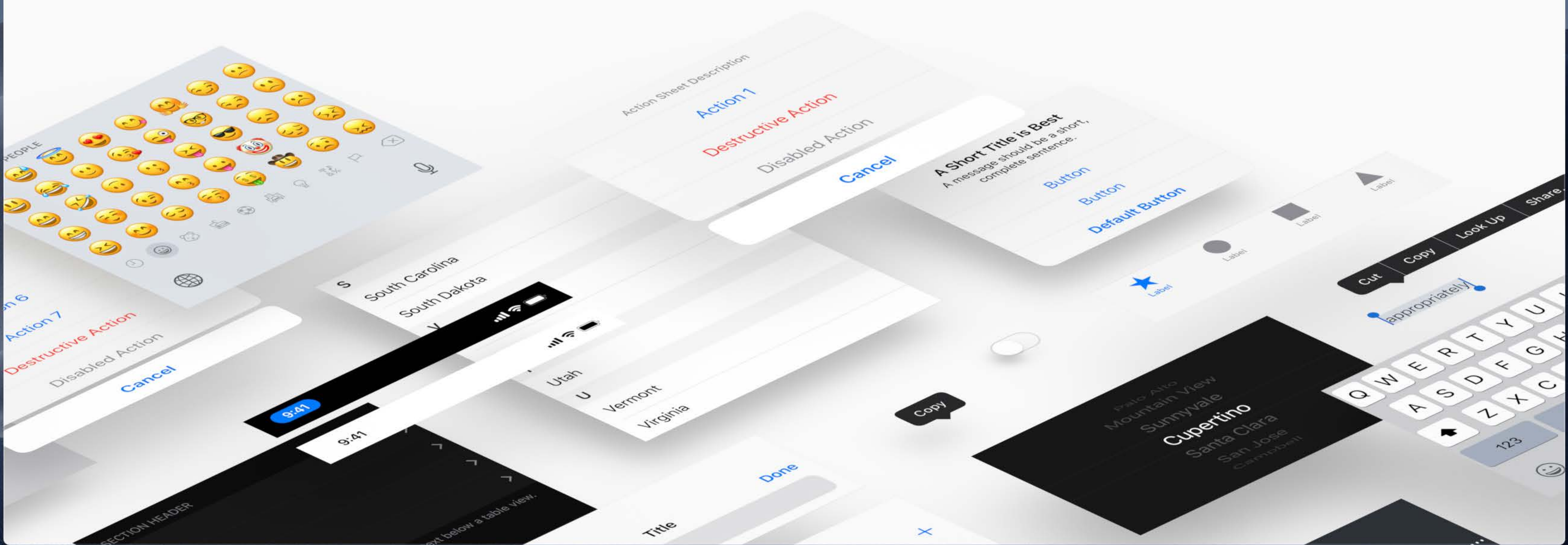
People expect macOS apps to be intuitive, while simultaneously adaptable to their

### Expansive

Large, high-resolution displays are typical for most Mac users, and people often

# Apple Design Resources

Design apps quickly and accurately by using Sketch, Photoshop and XD templates, guides and other resources.



# Human Interface Guidelines

[Overview](#) [Resources](#) [Videos](#) [What's New](#)

## macOS

Apple UI Design Resources for macOS include Sketch and Photoshop templates for Touch Bar glyphs.

[View the macOS design guidelines >](#)



[Download for Sketch](#) (576 KB)



[Download for Photoshop](#) (1.1 MB)

## watchOS

Apple UI Design Resources for watchOS include Sketch and Photoshop dynamic type guides, layout specifications, app templates, Apple Watch bezels, and other UI materials. An installer for SF Compact, the system typeface for watchOS, is also included.

[View the watchOS design guidelines >](#)



[Download for Sketch](#) watchOS 4 (1.5 MB)



[Download for Photoshop](#) watchOS 4 (18.1 MB)

To download watchOS device frames for use when marketing your app, see [App Store Marketing Guidelines](#).



# Human Interface Guidelines


Overview Resources Videos What's New

## macOS Available End of June

Apple UI Design Resources for macOS include Sketch and Photoshop templates for Touch Bar glyphs.

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 [Download for Sketch](#)   
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## watchOS

Apple UI Design Resources for watchOS include Sketch and Photoshop dynamic type guides, layout specifications, app templates, Apple Watch bezels, and other UI materials. An installer for SF Compact, the system typeface for watchOS, is also included.

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 [Download for Sketch](#)   
watchOS 4 (1.5 MB)

 [Download for Photoshop](#)   
watchOS 4 (18.1 MB)

To download watchOS device frames for use when marketing your app, see [App Store Marketing Guidelines](#).





# Adopting Dark Mode

Rachel Goldeen, Cocoa Frameworks

Taylor Kelly, Cocoa Frameworks




Chameleon Wrangler



Chameleons

- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chev
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte



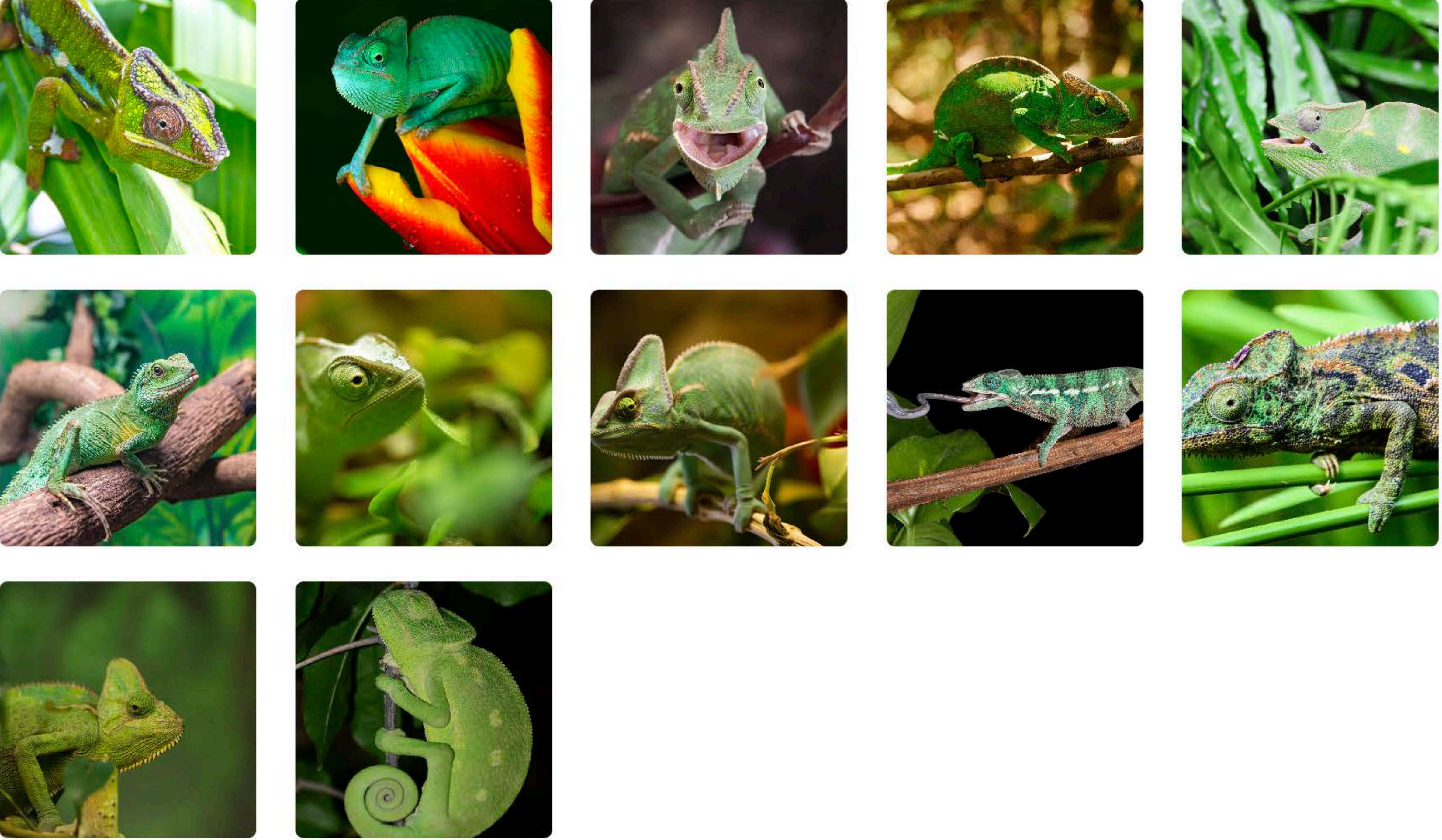
## Chloe

2 years old

Photos

Vitals

Notes



The application window displays a profile for a chameleon named **Chloe**, who is 2 years old. On the left, a sidebar lists other chameleons: Chadwick, Chloe, Chuy, Chelsey, Chevy, Chiwetel, Chester, Chubs, Cleopatra, and Charlotte. The main content area is split into three sections: 'Photos', 'Vitals', and 'Notes'. The 'Photos' section shows a grid of 11 images of Chloe in various poses and colors. The 'Vitals' and 'Notes' sections are currently empty.

Running Chameleon Wrangler : Chameleon Wrangler

Chameleon Wrangler

Chameleon Wrangler

General Capabilities Resource Tags Info Build Settings Build Phases Build Rules

**PROJECT**

- Chameleon Wrangler

**TARGETS**

- Chameleon Wrangler

**Identity**

- Application Category: None
- Bundle Identifier: com.apple.Chameleon-Wrangler
- Version: 1.0
- Build: 1

**Signing**

- Automatically manage signing  
Xcode will create and update profiles, app IDs, and certificates.
- Team: Add Account...
- Provisioning Profile: None Required
- Signing Certificate: Ad Hoc [Enable Development Signing](#)

**Deployment Info**

- Deployment Target: 10.14
- Main Interface: Main

**App Icons**

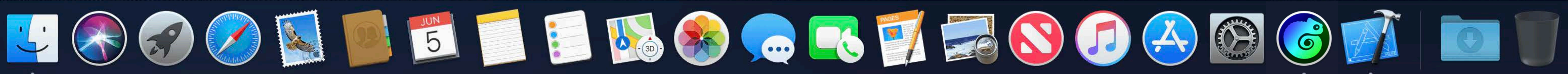
- Source: AppIcon

**Embedded Binaries**

Add embedded binaries here

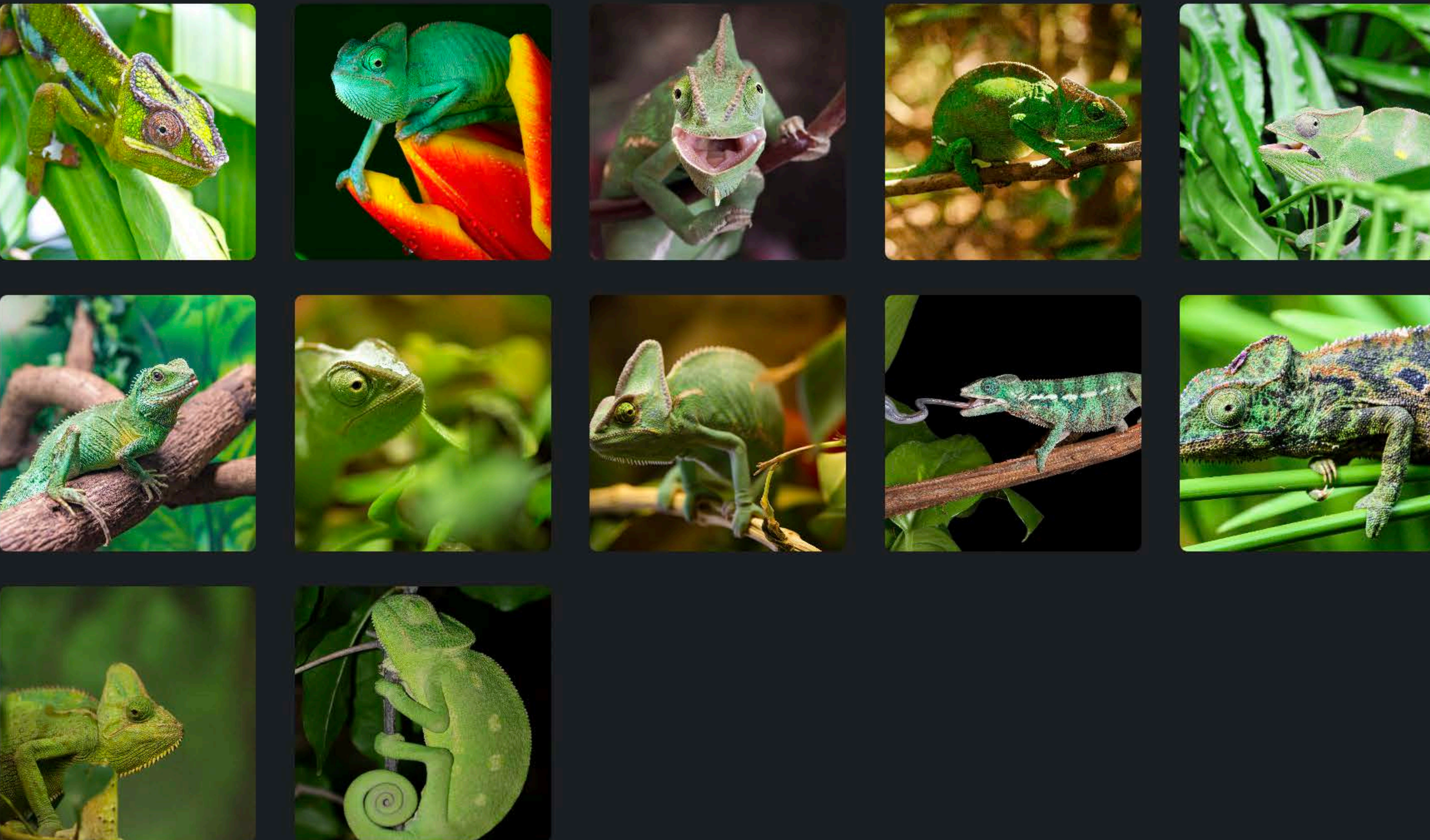
Filter

Chameleon Wrangler



**Chloe**  
2 years old

Photos Vitals Notes



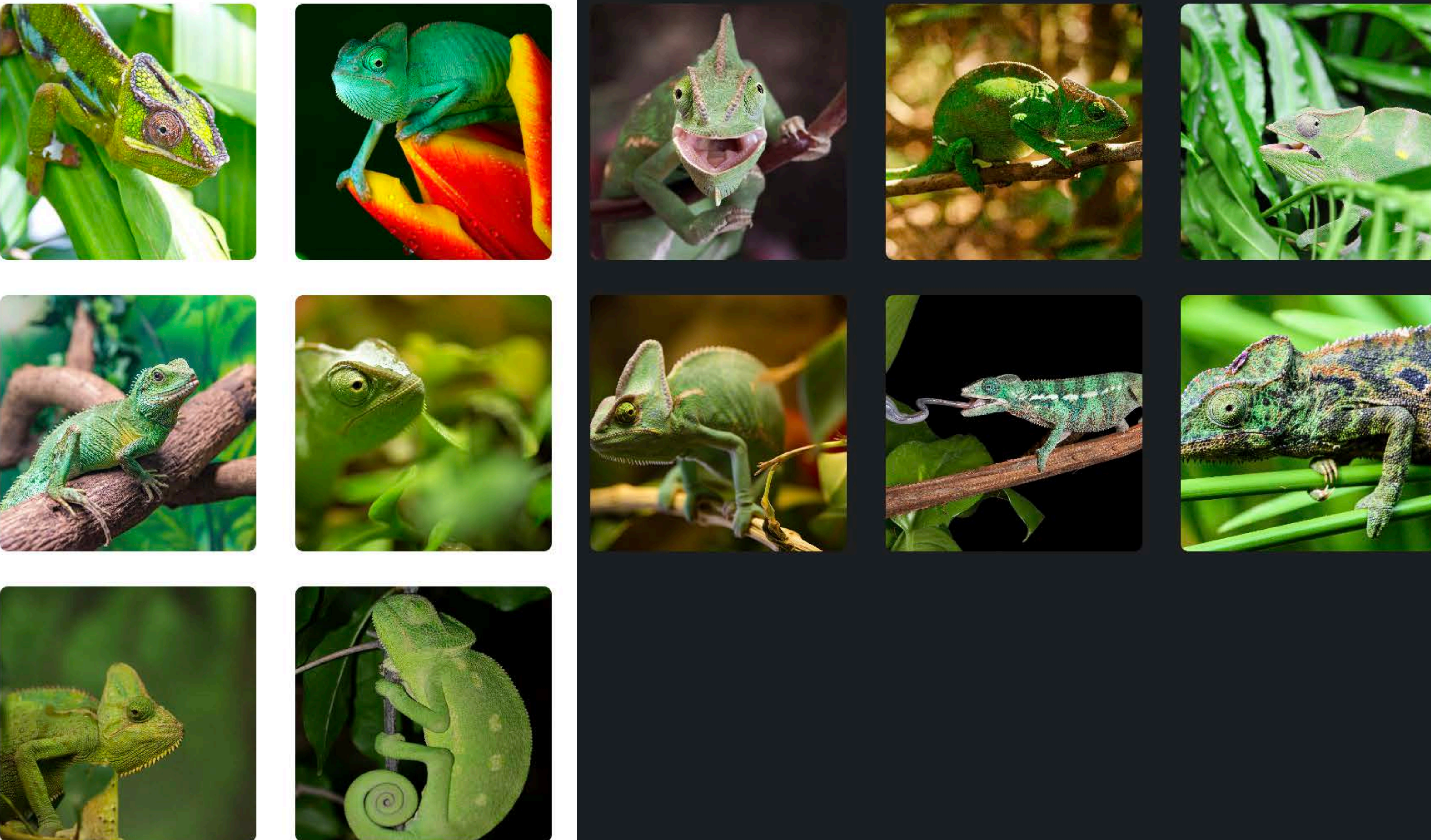
- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

Chameleons

- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

**Chloe**  
2 years old

Photos Vitals Notes



The application window displays a list of chameleons on the left, with 'Chloe' selected. The main area shows a profile for 'Chloe, 2 years old'. Below the profile are three tabs: 'Photos', 'Vitals', and 'Notes'. The 'Photos' tab is active, showing a 3x5 grid of 15 photographs of Chloe. The 'Vitals' and 'Notes' tabs are currently empty.





**Colors**

Colors

● ● ●

📄

🌀 😊 💬

Chameleons
 

- 🌀 Chadwick
- 🌀 **Chloe**
- 🌀 Chuy
- 🌀 Chelsey
- 🌀 Chevy
- 🌀 Chiwetel
- 🌀 Chester
- 🌀 Chubs
- 🌀 Cleopatra
- 🌀 Charlotte













Chloe

2 years old

Photos

Vitals

Notes

Chameleons

- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

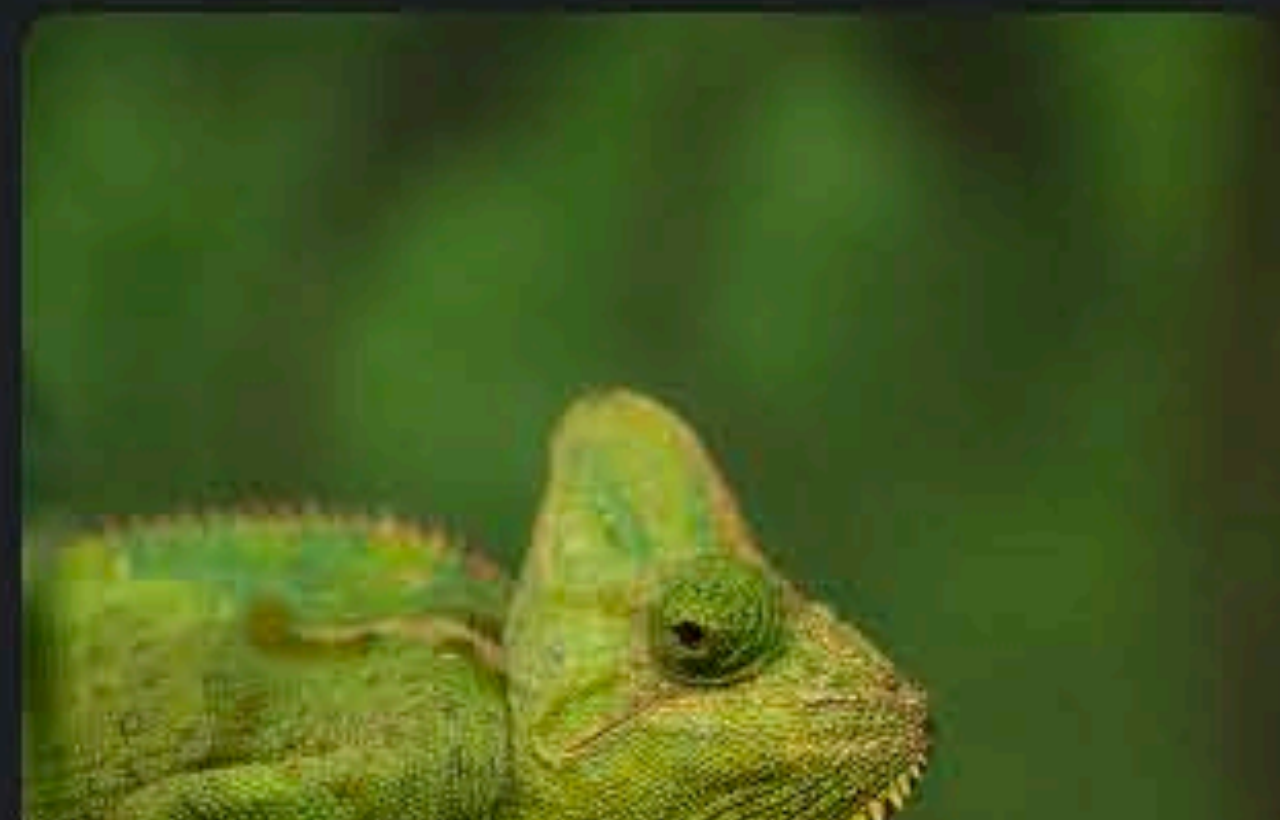
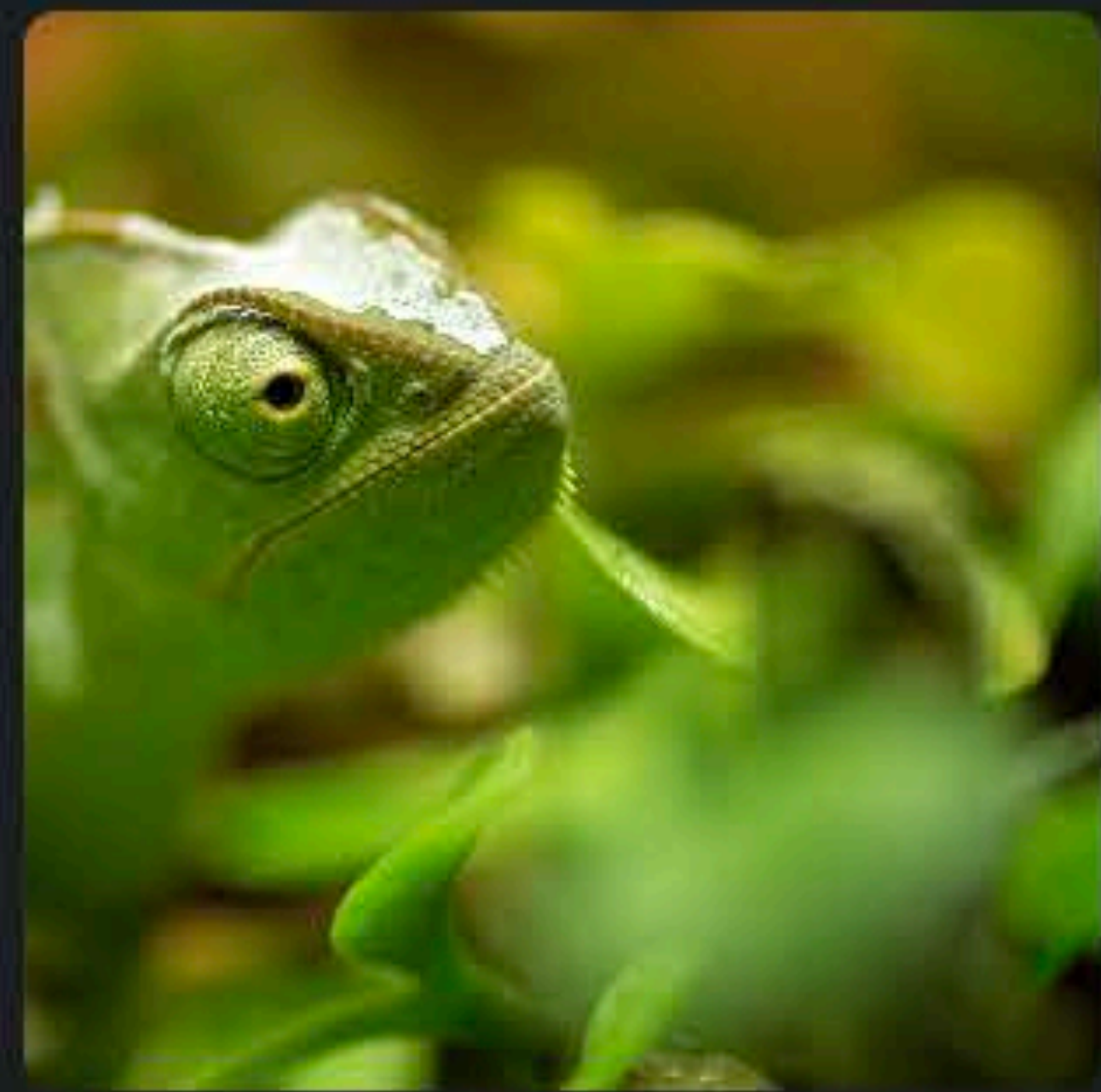


**Chloe**  
2 years old

Photos

Vitals

Notes



Chameleons

- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

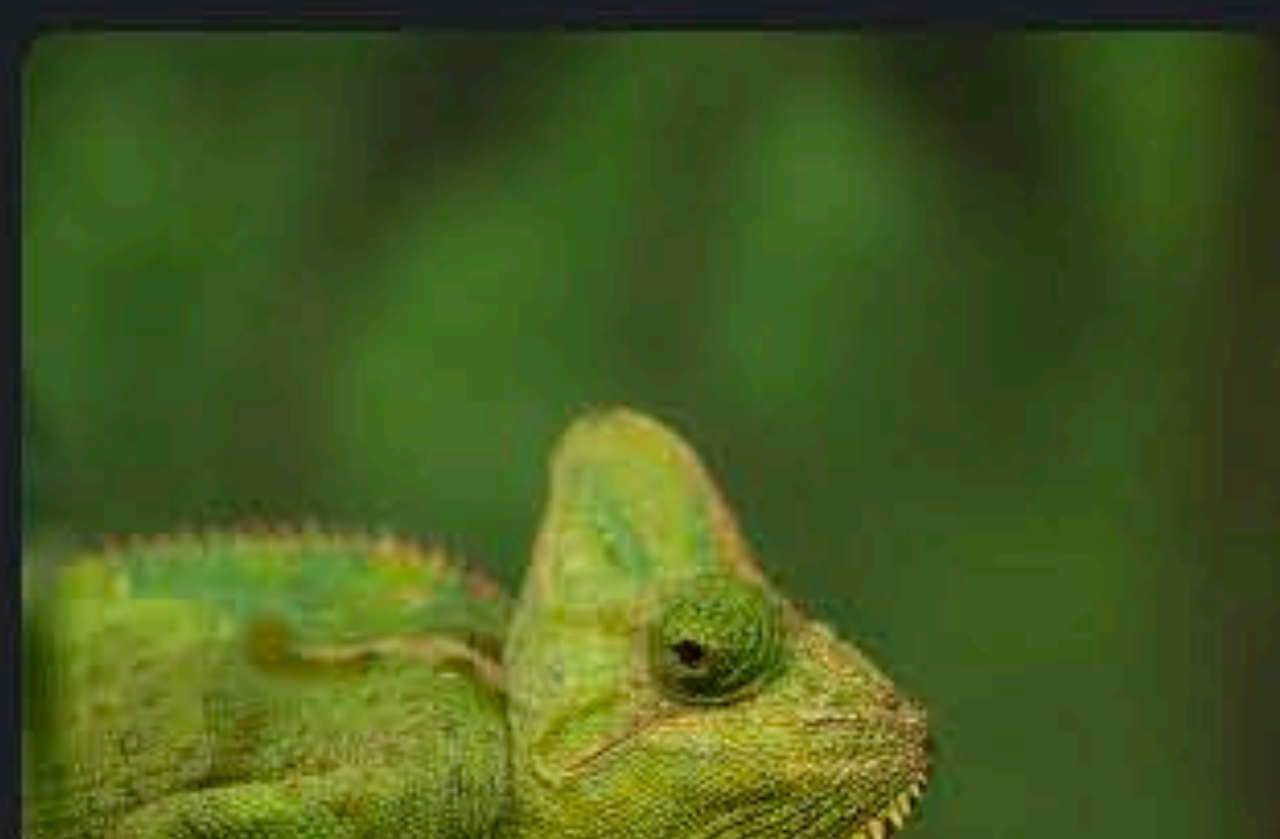
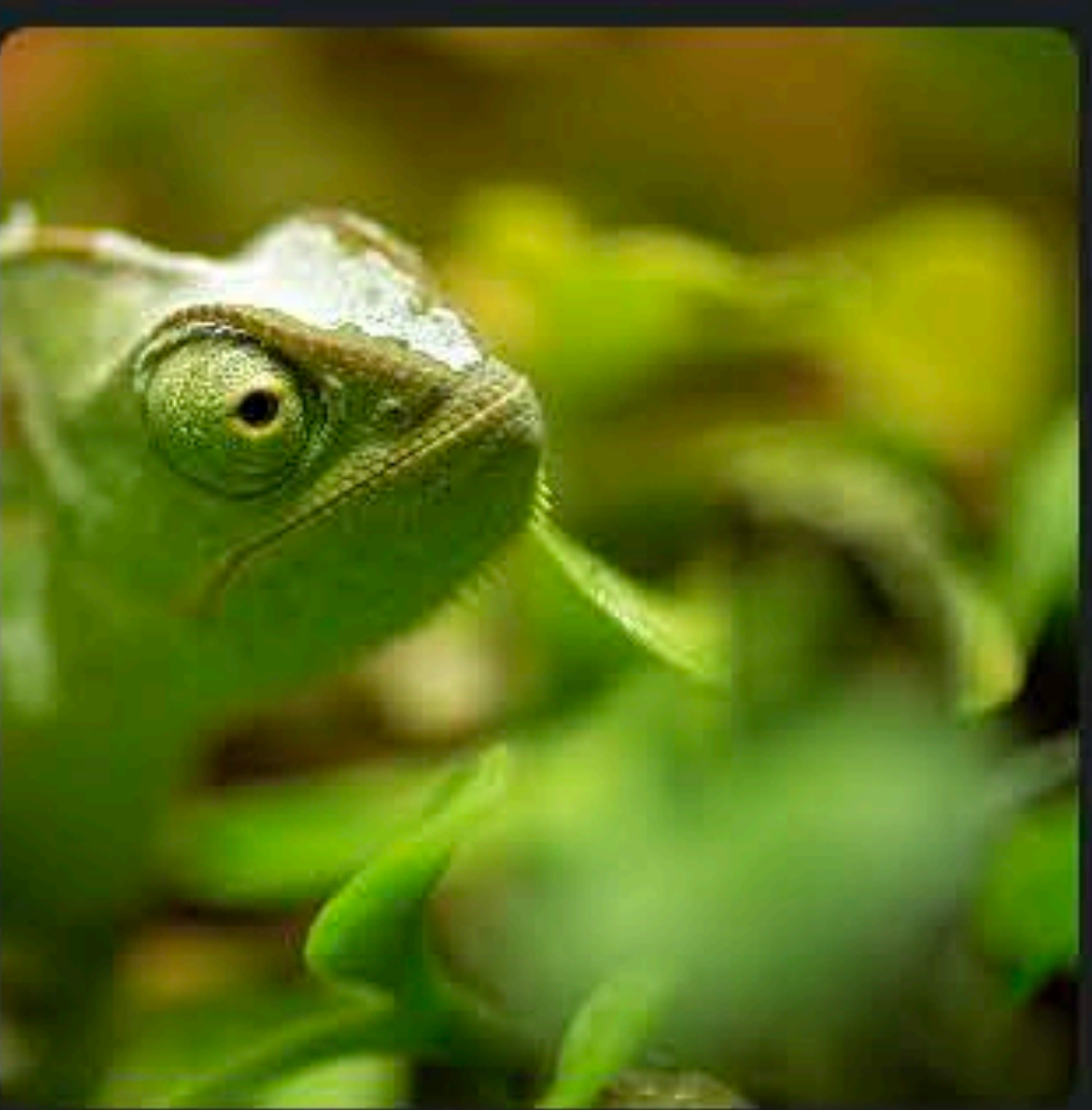
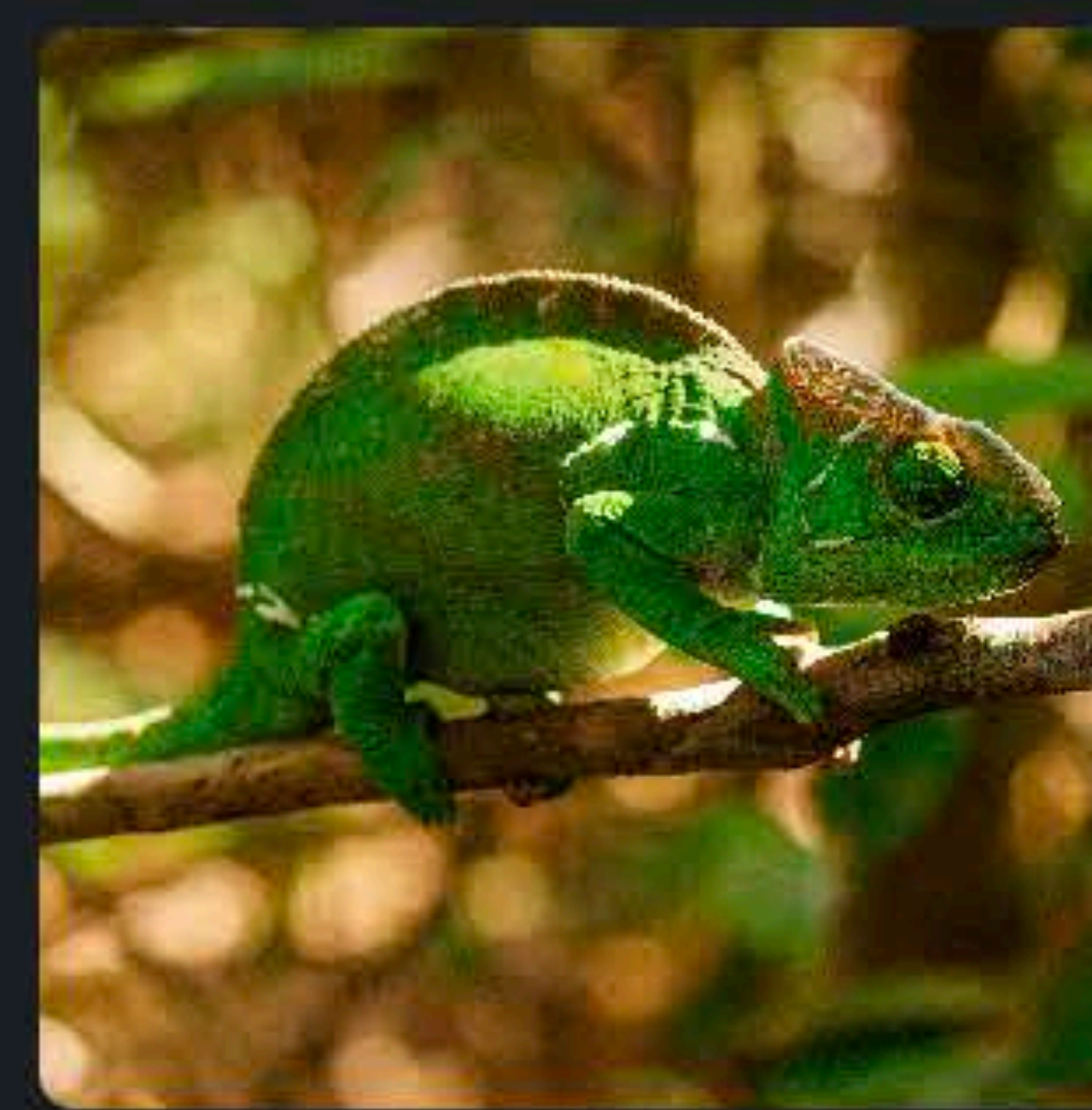


**Chloe**  
2 years old

Photos


Vitals

Notes

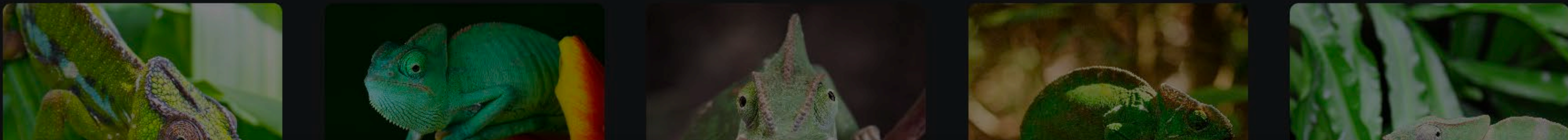


Chameleons

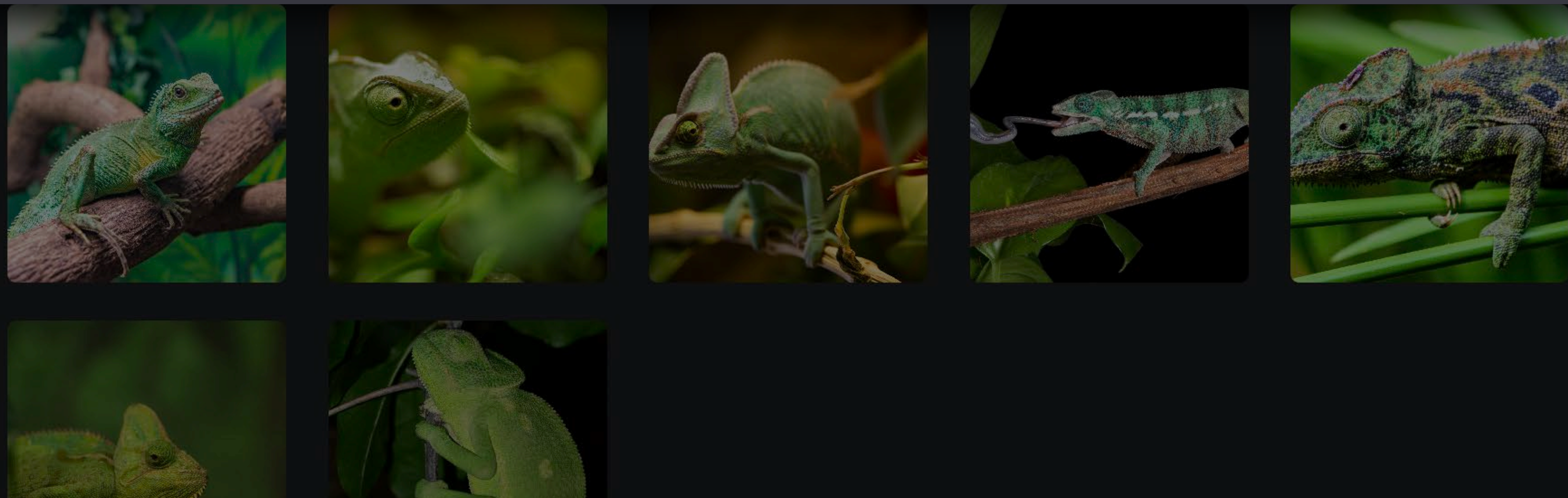
- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester

 **Chloe**  
2 years old

Photos Vitals Notes




```
box.fillColor = NSColor(srgbRed:0.58 green:0.97 blue:0.76 alpha:1.0)
```




Chameleons

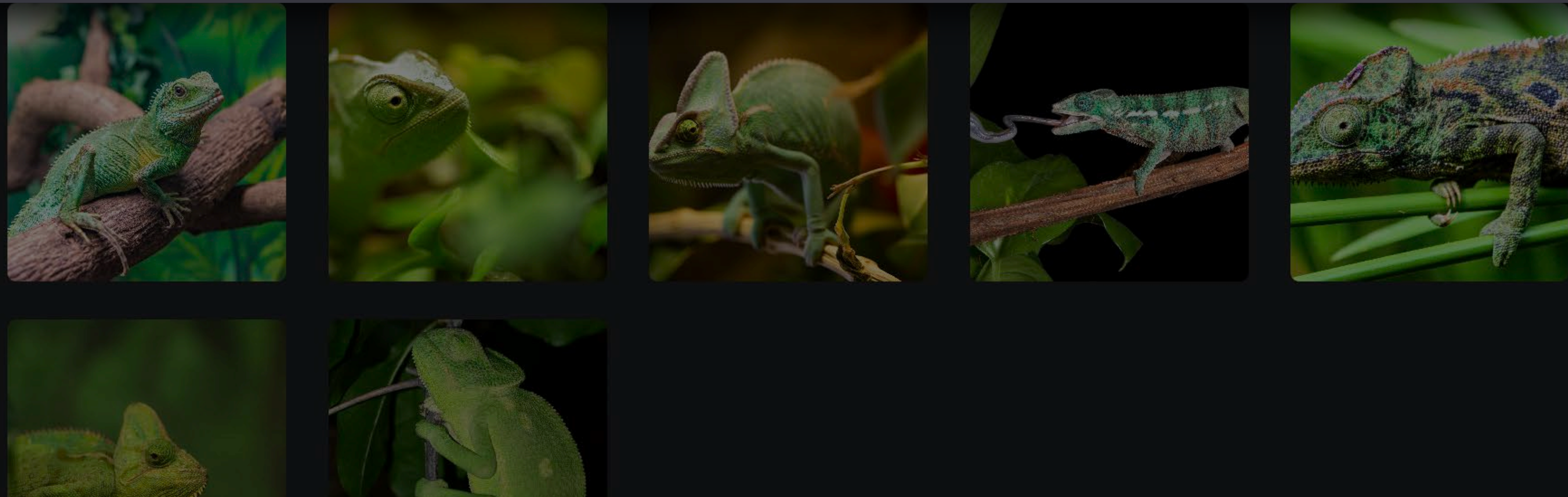
- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester

 **Chloe**  
2 years old

Photos Vitals Notes



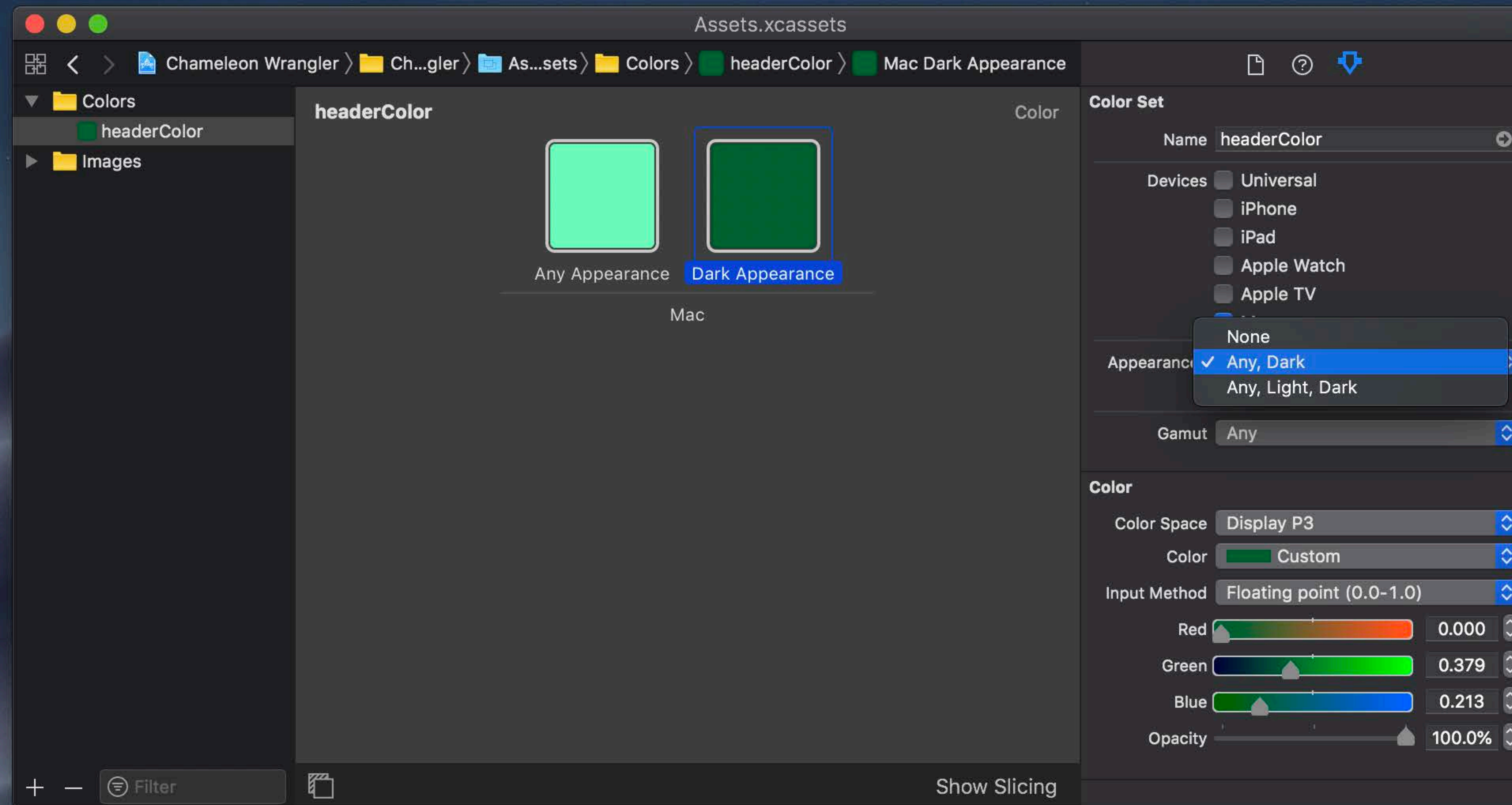
```
box.fillColor = NSColor(srgbRed:0.58 green:0.97 blue:0.76 alpha:1.0)
```





# Asset Catalog Editor in Xcode

Assets.xcassets



# Asset Catalog Editor in Xcode

Assets.xcassets

Color



Any Appearance



Dark Appearance

Mac

## Color Set

Name headerColor

- Devices
- Universal
  - iPhone
  - iPad
  - Apple Watch
  - Apple TV

- Appearance
- None
  - Any, Dark
  - Any, Light, Dark

Gamut Any

## Color

Color Space Display P3

Color Custom

Input Method Floating point (0.0-1.0)

# Asset Catalog Editor in Xcode

Assets.xcassets

Color



Any Appearance



Dark Appearance

Mac

## Color Set

Name headerColor

- Devices
- Universal
  - iPhone
  - iPad
  - Apple Watch
  - Apple TV

Appearance

None

✓ Any, Dark

Any, Light, Dark

Gamut Any

## Color

Color Space Display P3

Color Custom

Input Method Floating point (0.0-1.0)

# Asset Catalog Benefits

Meaningful names

# Asset Catalog Benefits

Meaningful names

Multiple definitions

# Asset Catalog Benefits

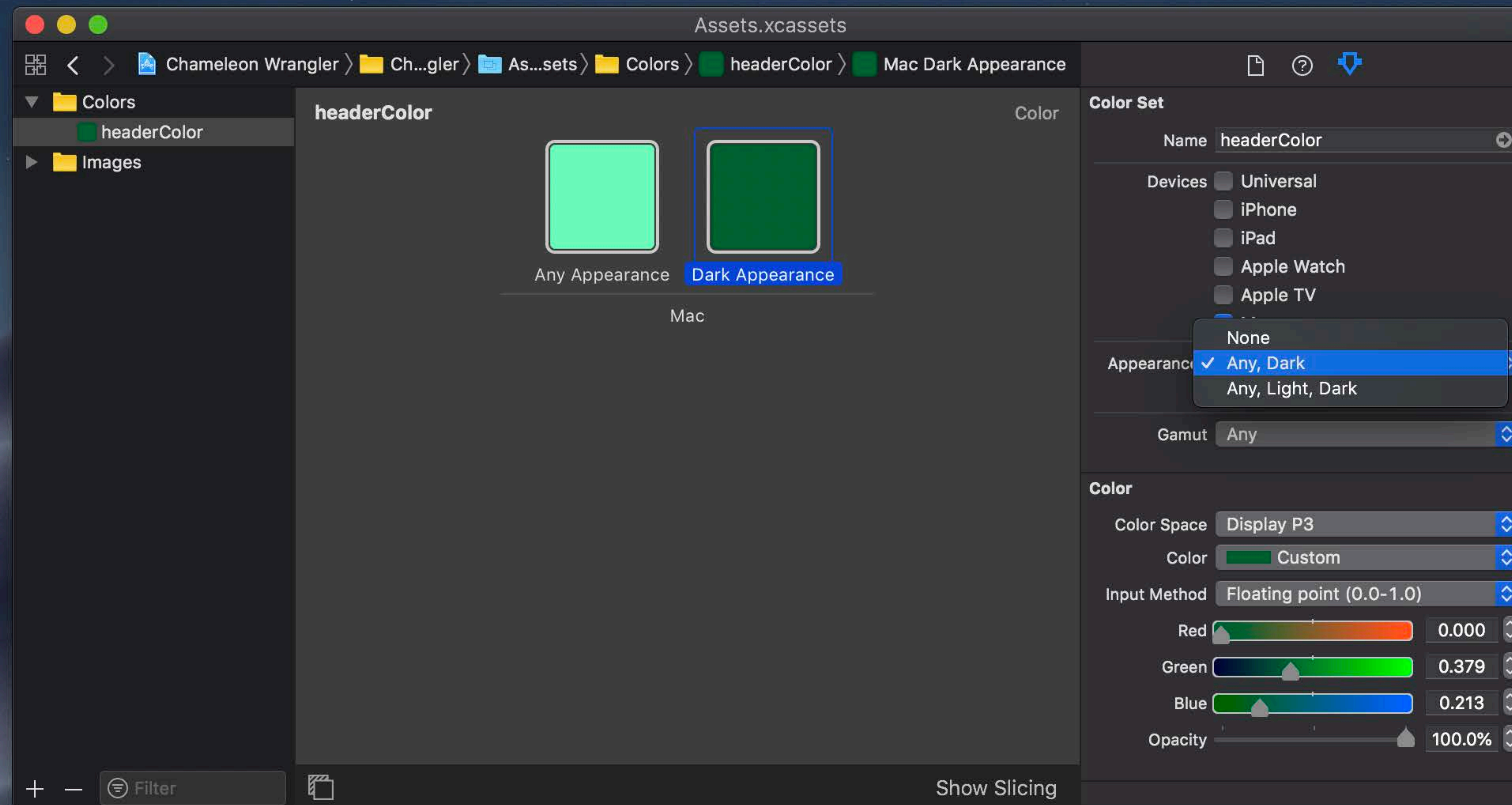
Meaningful names

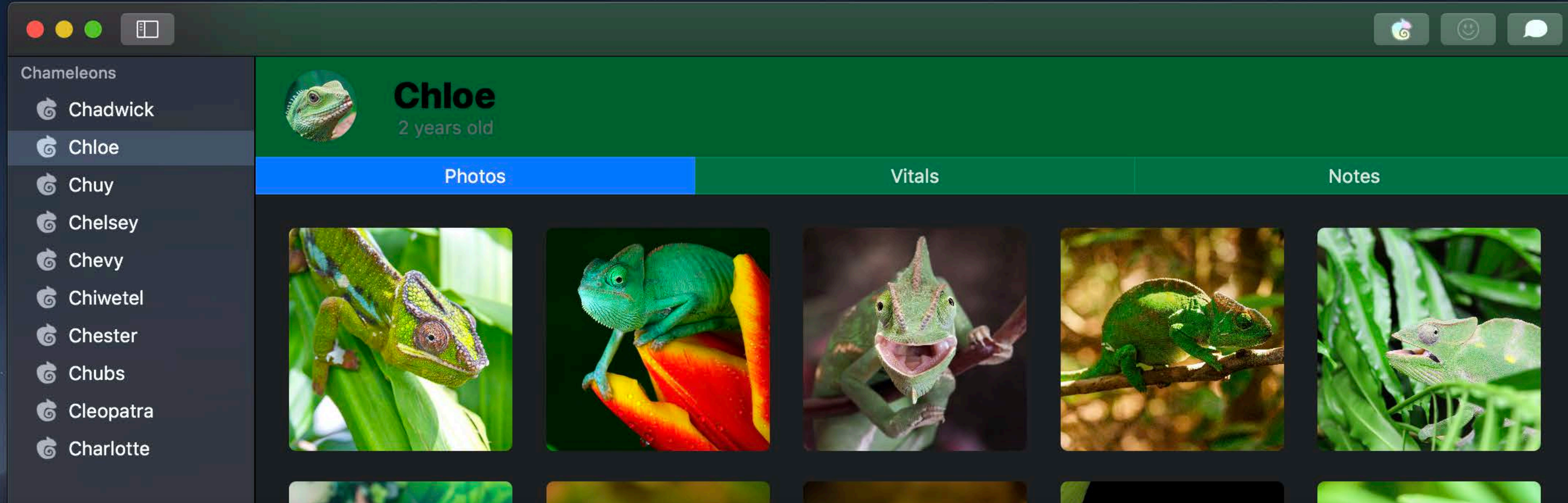
Multiple definitions

Central location

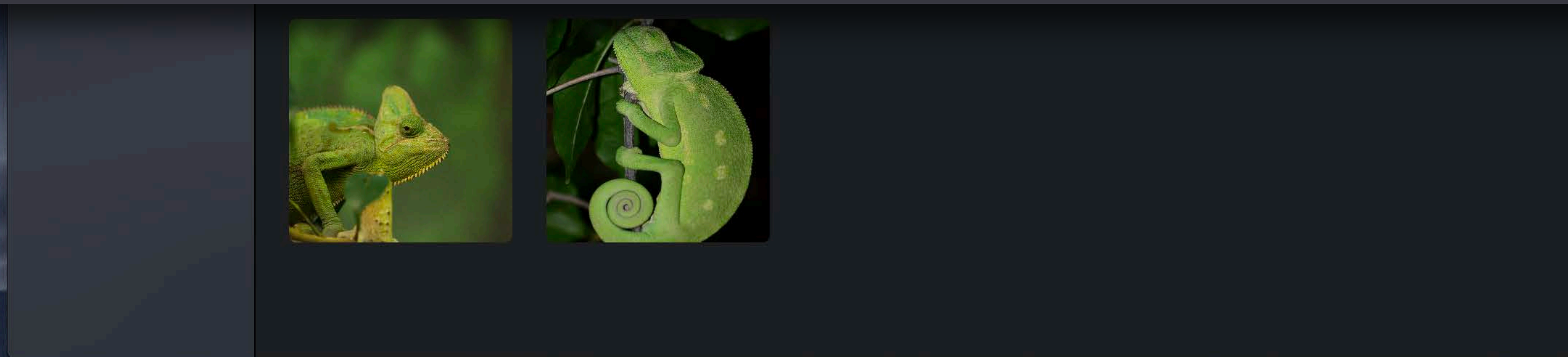
# Asset Catalog Editor in Xcode

Assets.xcassets





```
box.fillColor = NSColor(named: "headerColor")
```









Chameleons

 Chadwick


 Chloe


 Chuy


 Chelsey

 Chevy

 Chiwetel

 Chester

 Chubs

 Cleopatra

 Charlotte

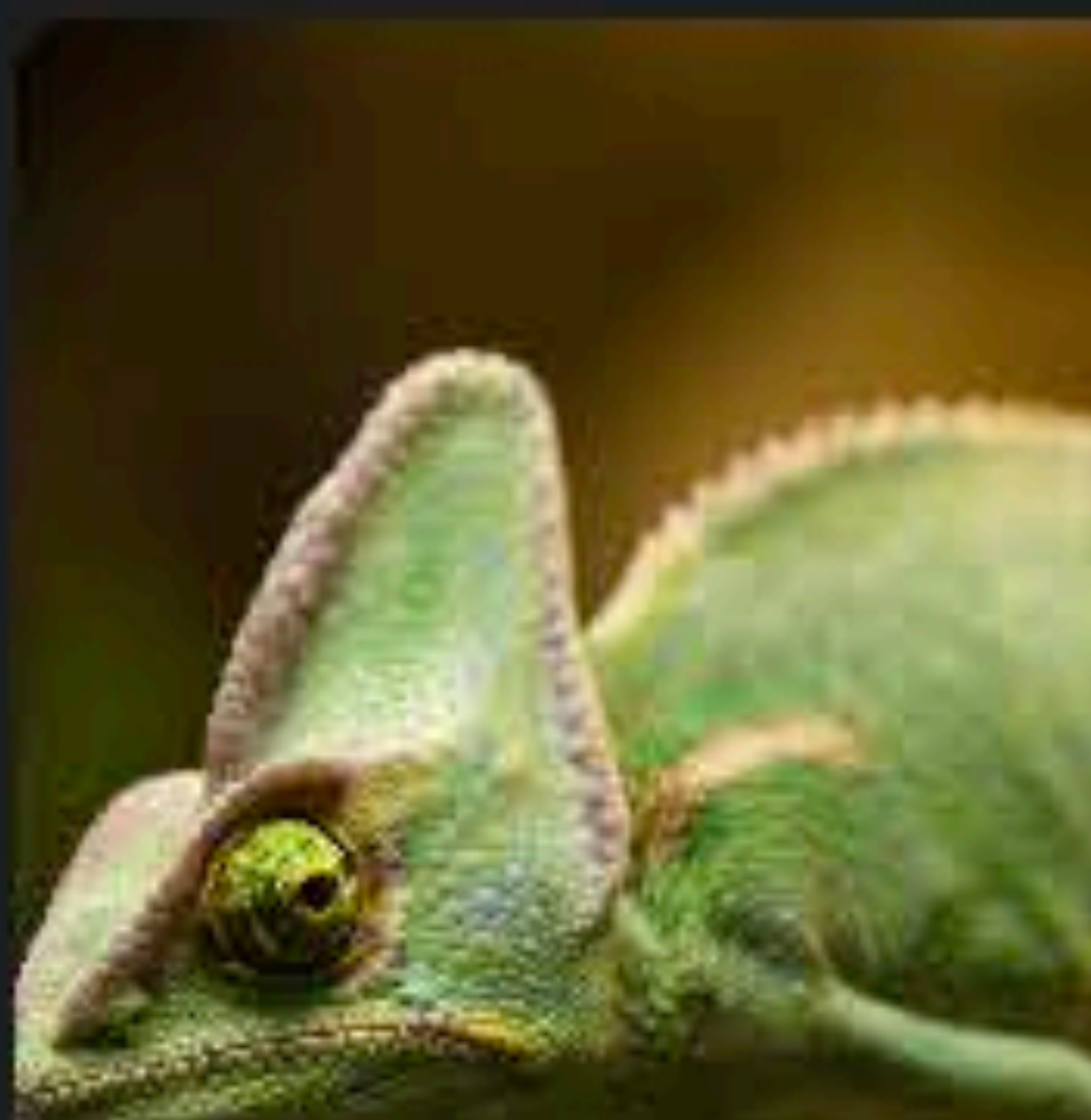
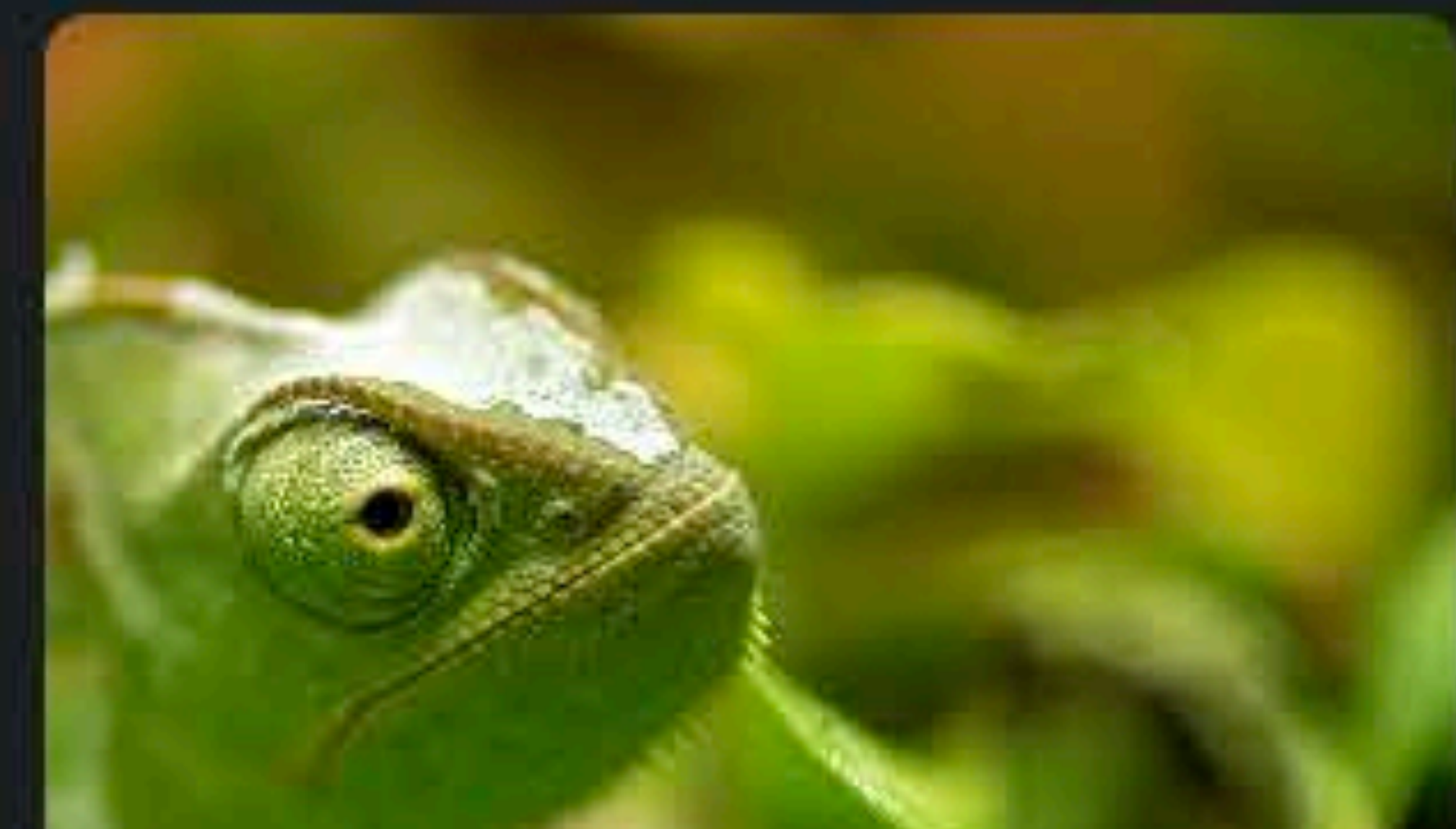
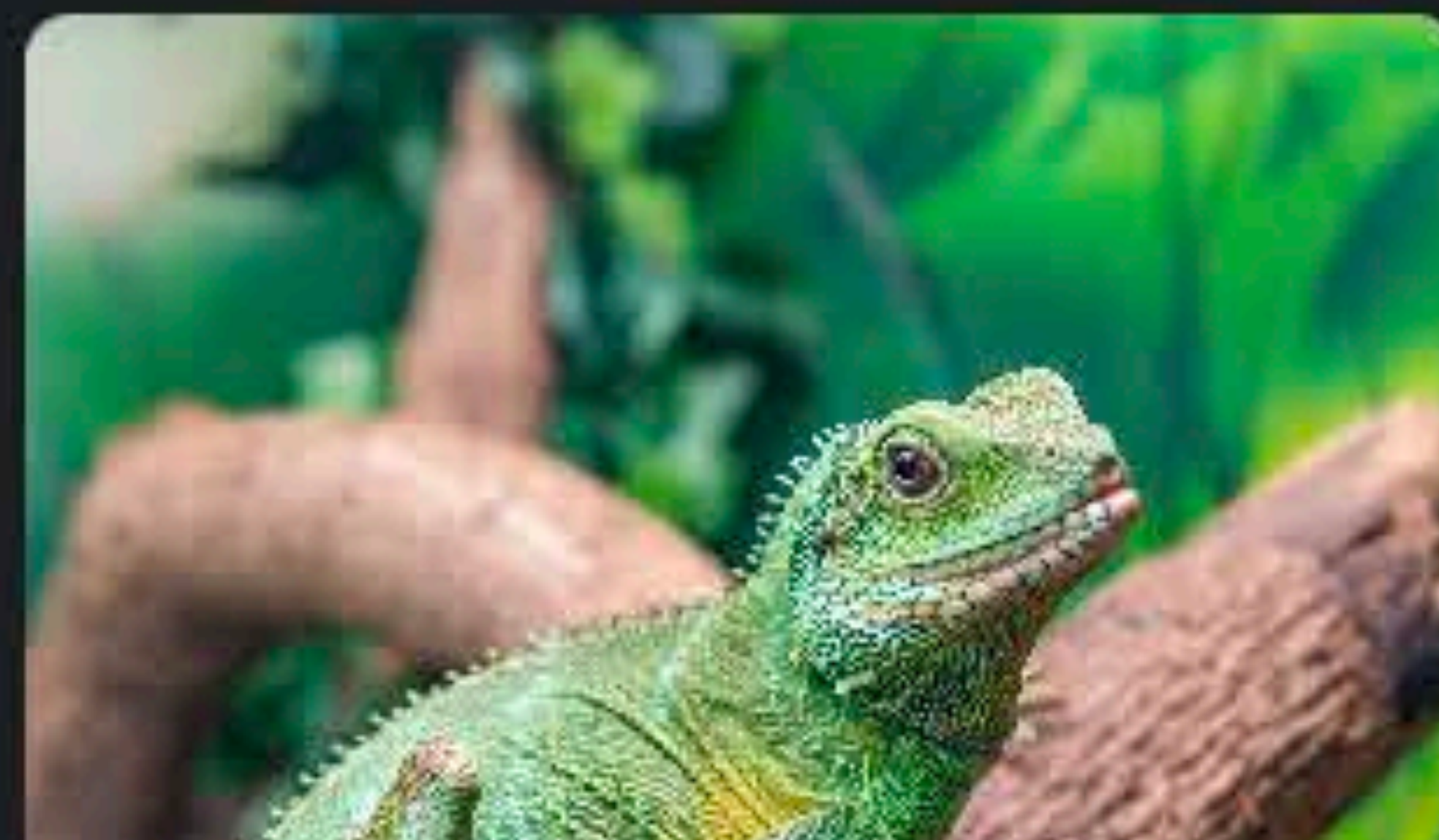


**Chloe**

2 years old

Photos

Vital






Chameleons

 Chadwick


 Chloe


 Chuy


 Chelsey

 Chevy

 Chiwetel

 Chester

 Chubs

 Cleopatra

 Charlotte

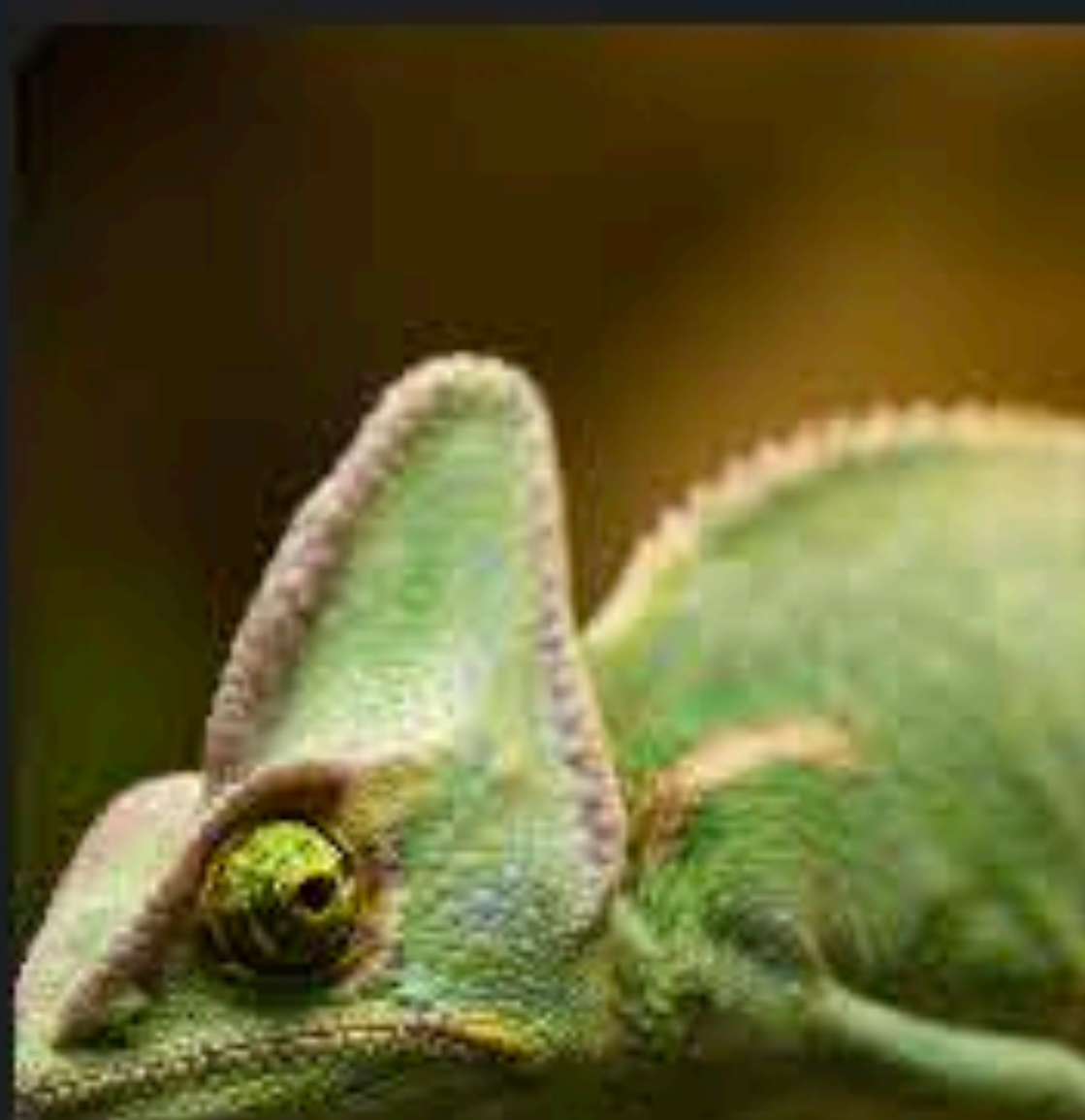
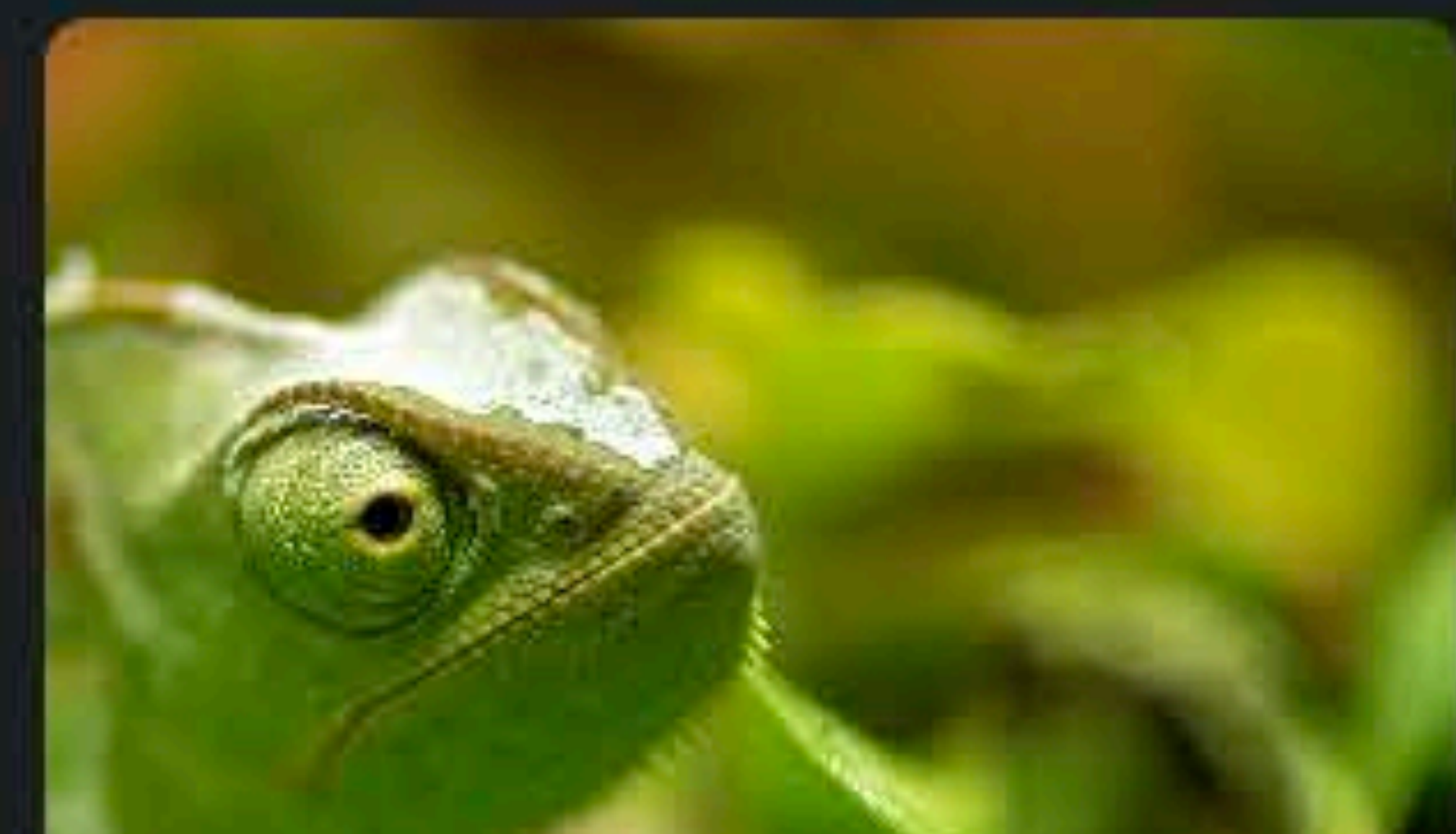
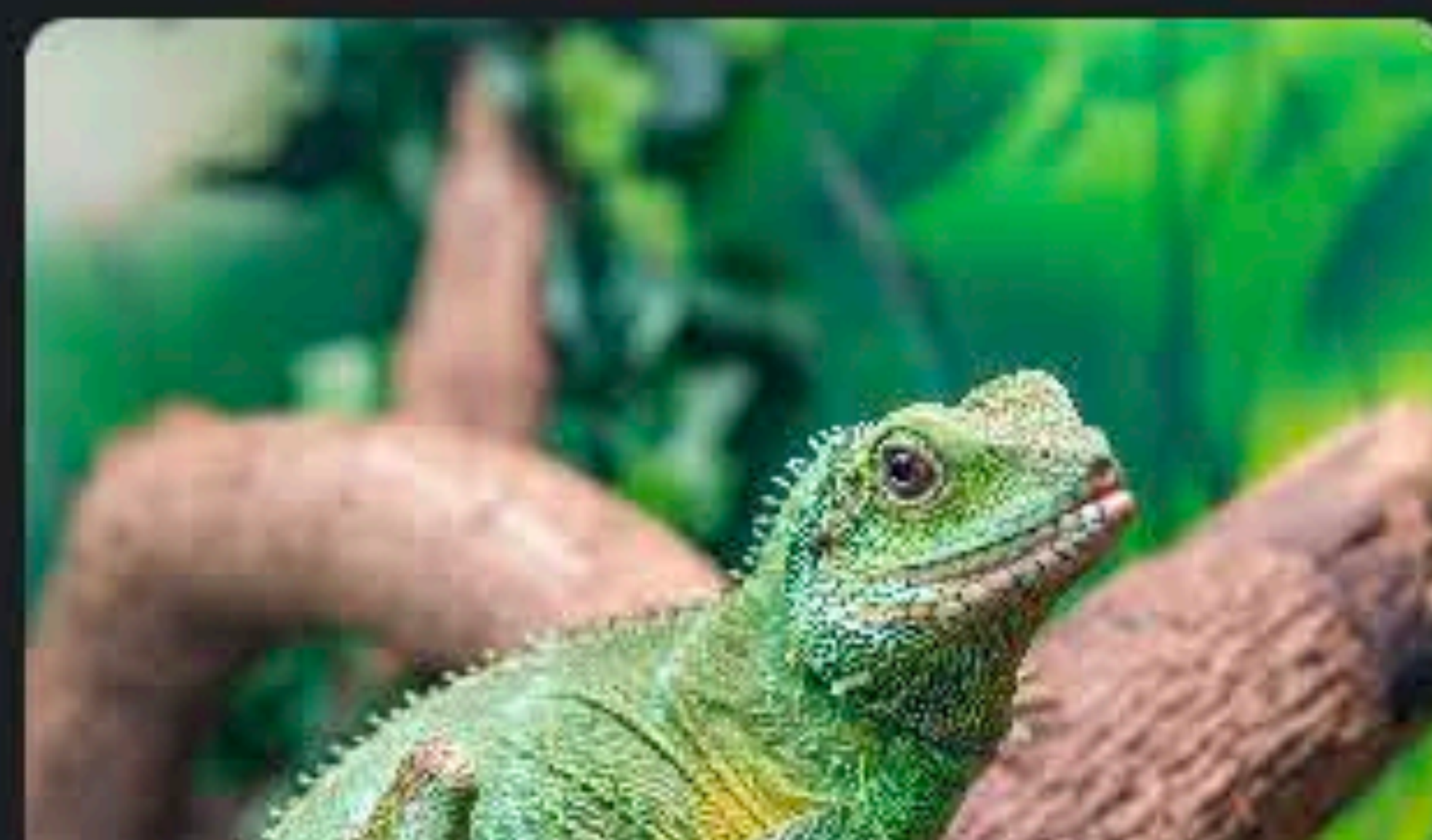


**Chloe**

2 years old

Photos

Vital





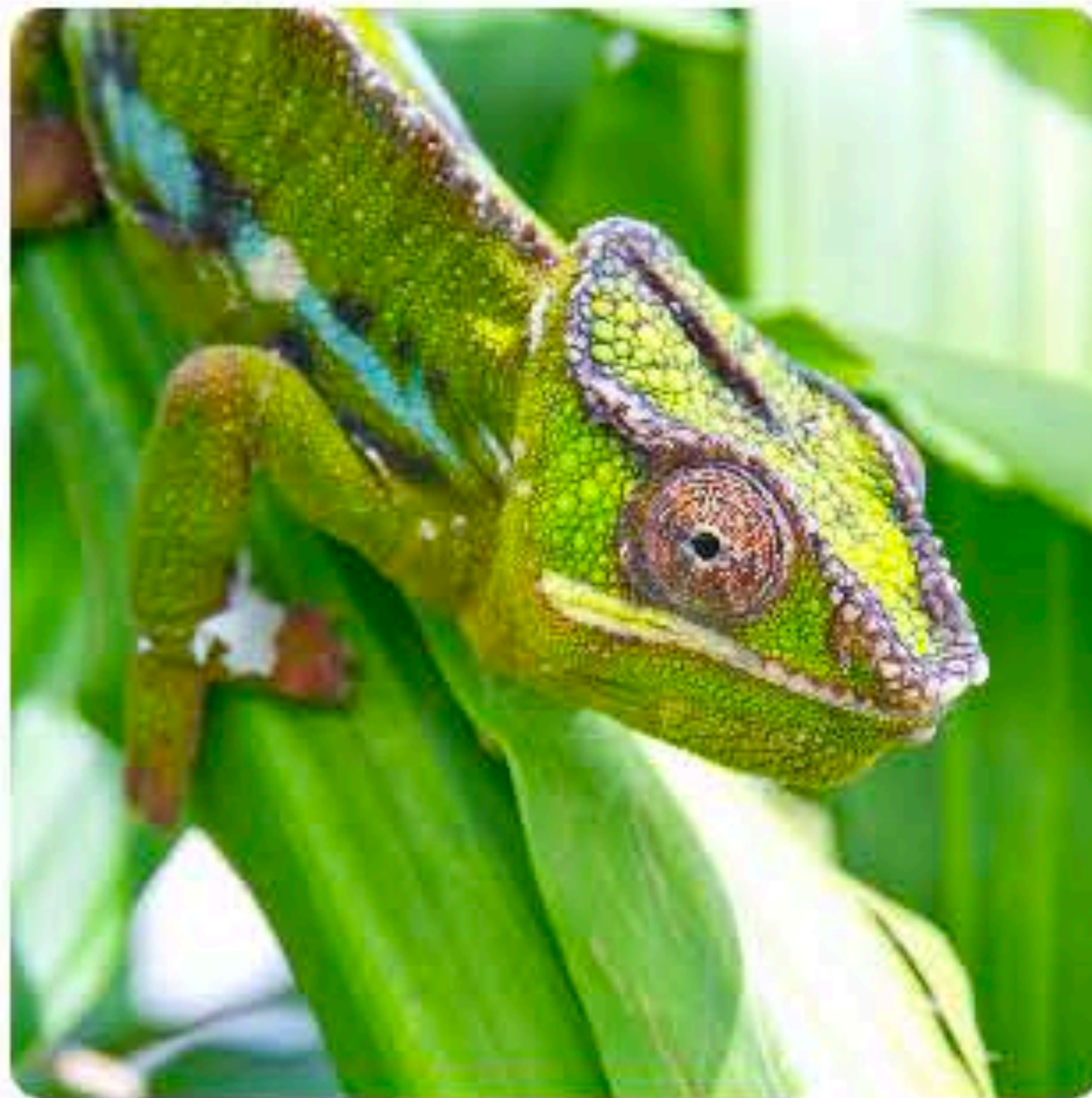
ns  
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y  
lsey  
vy  
vetel  
ster  
bs  
opatra  
rlotte



**Chloe**

2 years old

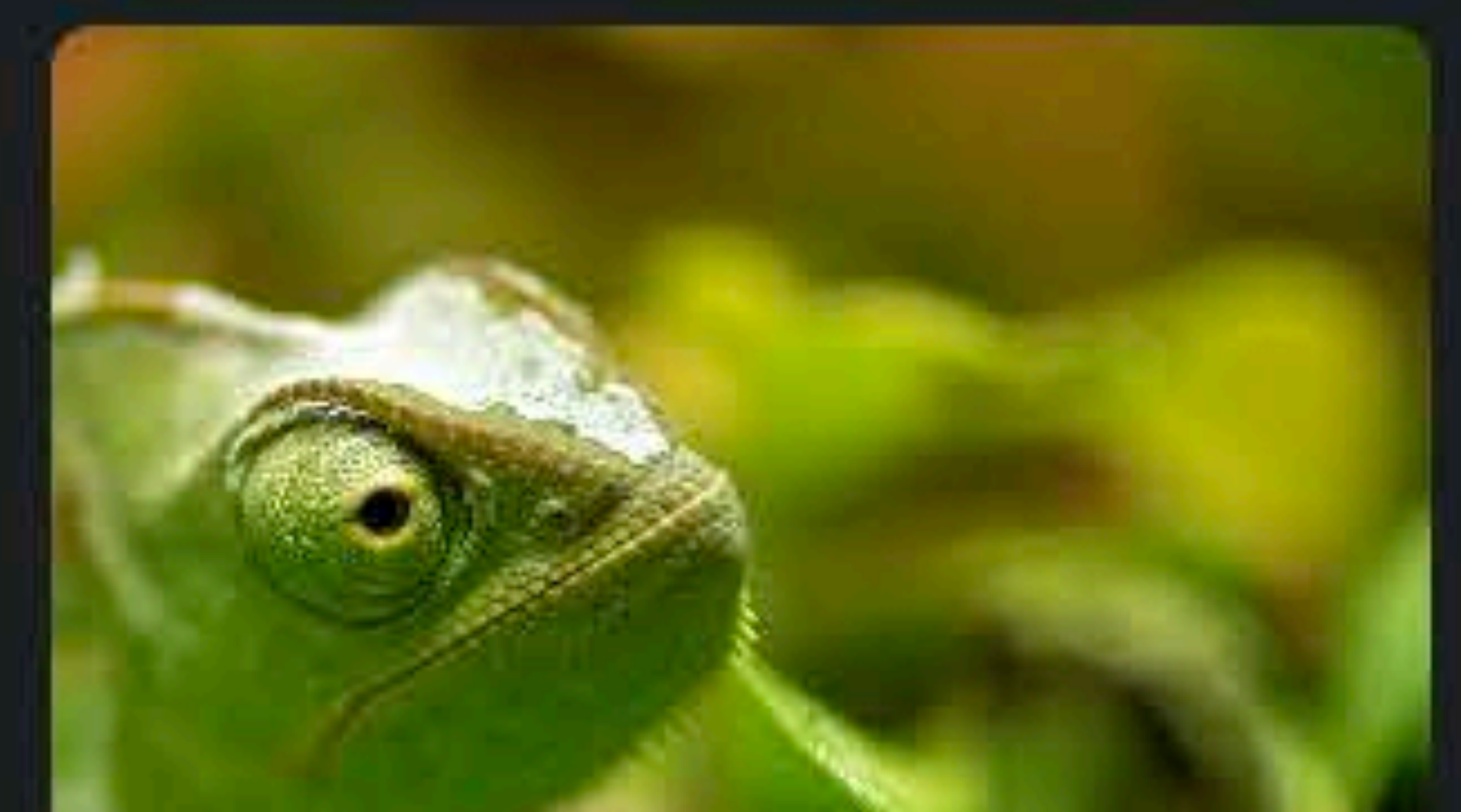
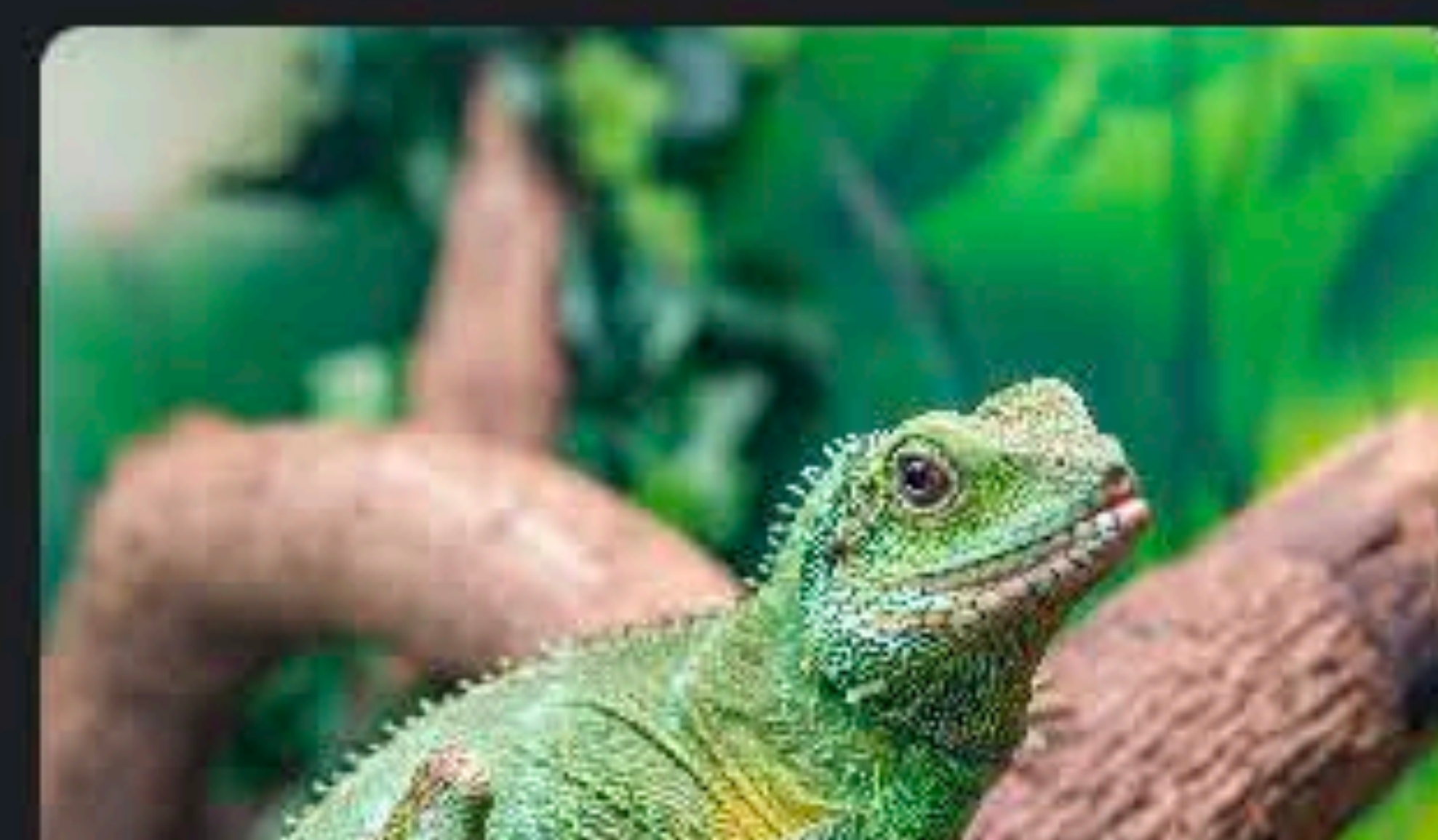
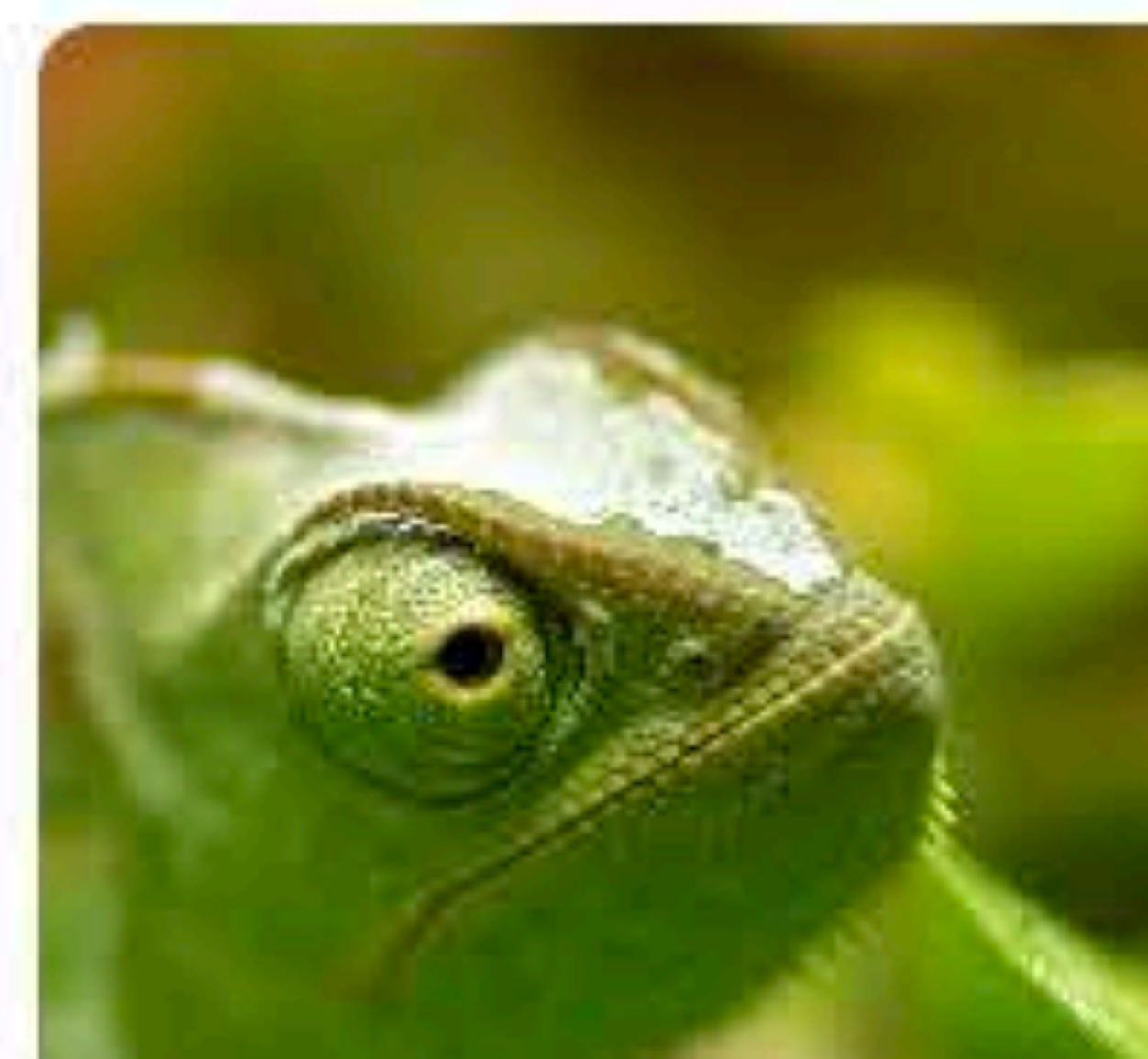
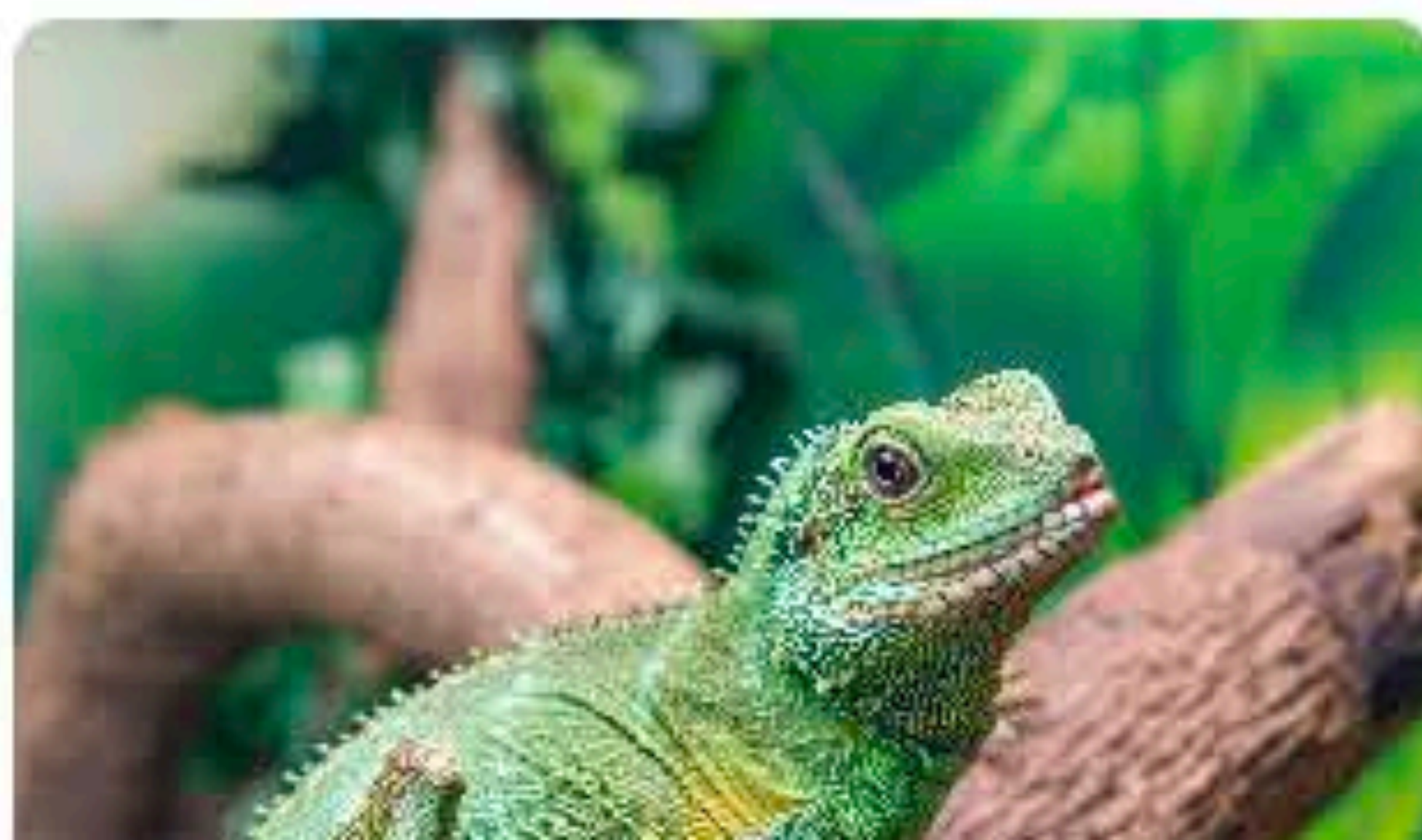
Photos



**Chloe**

2 years old

Photos





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dwick  
oe  
y  
lsey  
vy  
vetel  
ster  
bs  
opatra  
rlotte



**Chloe**

2 years old



**Chloe**

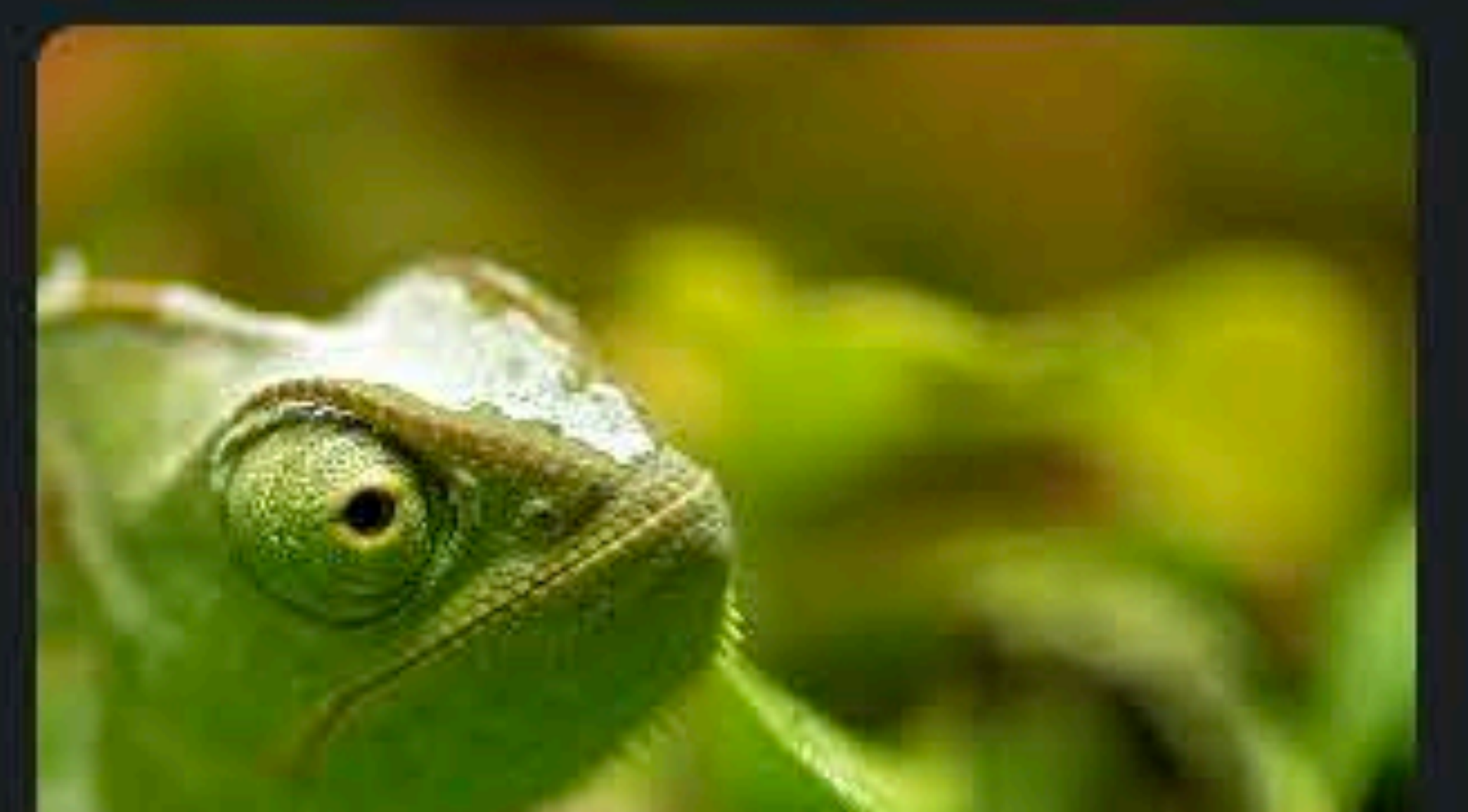
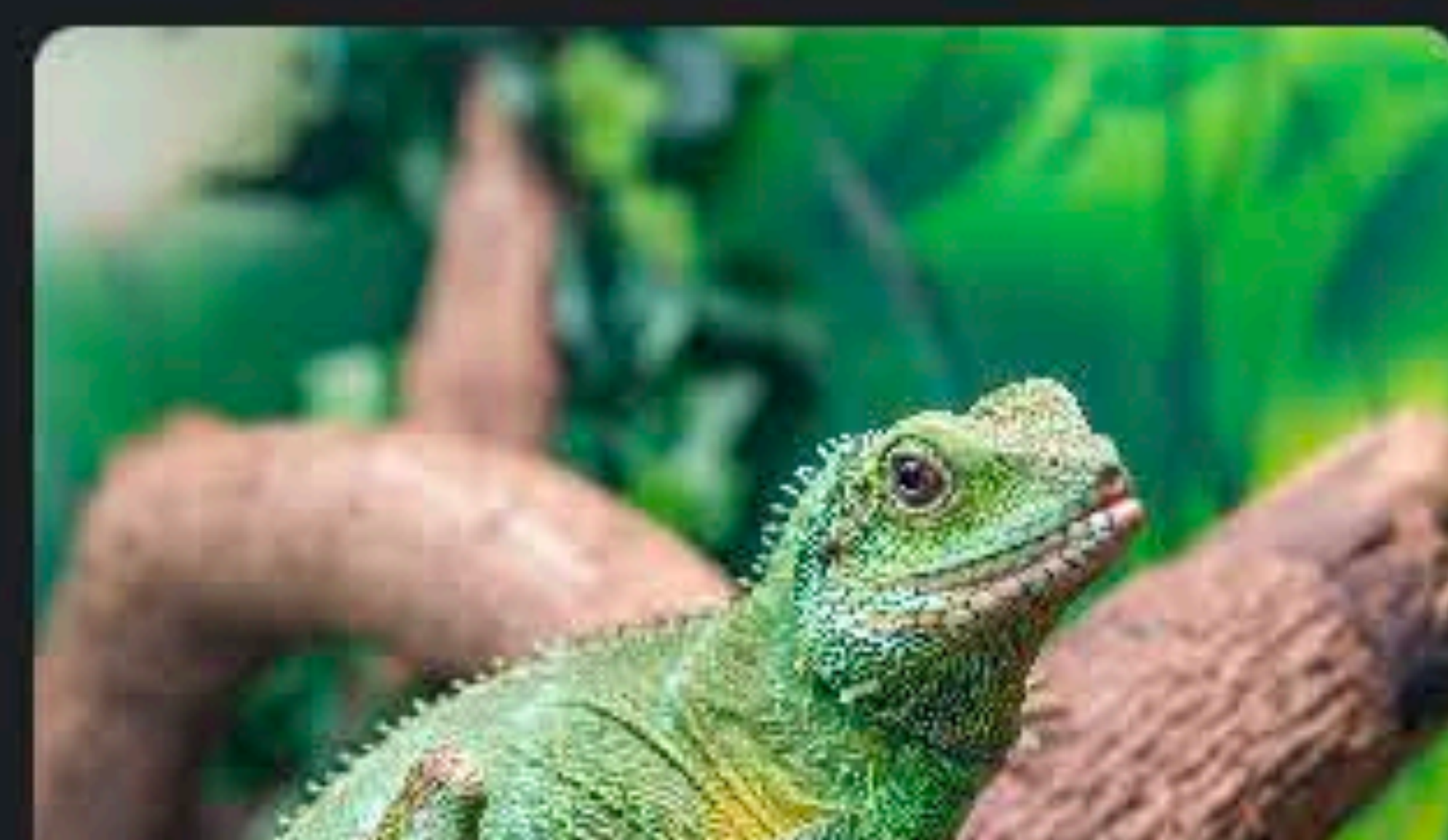
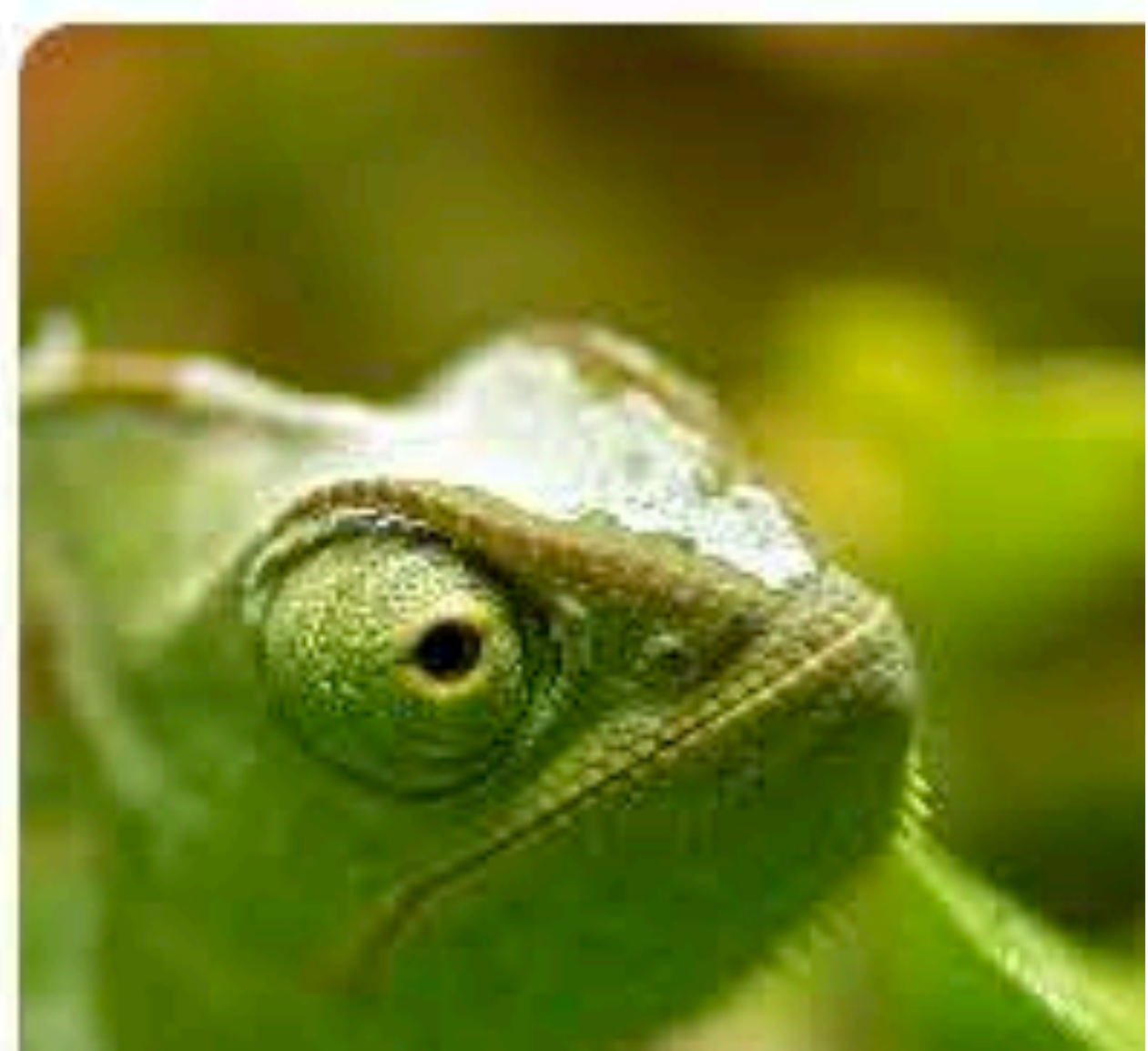
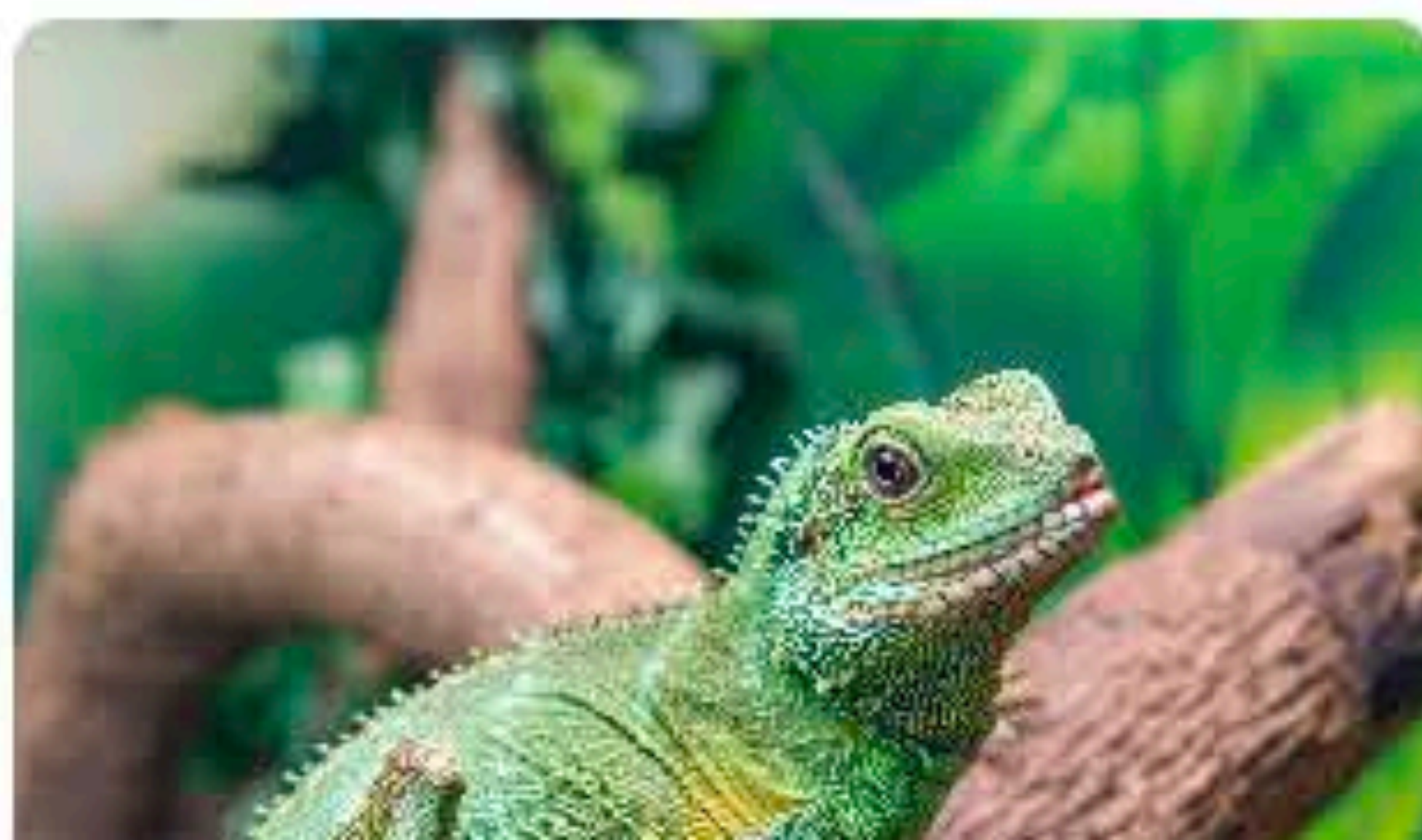
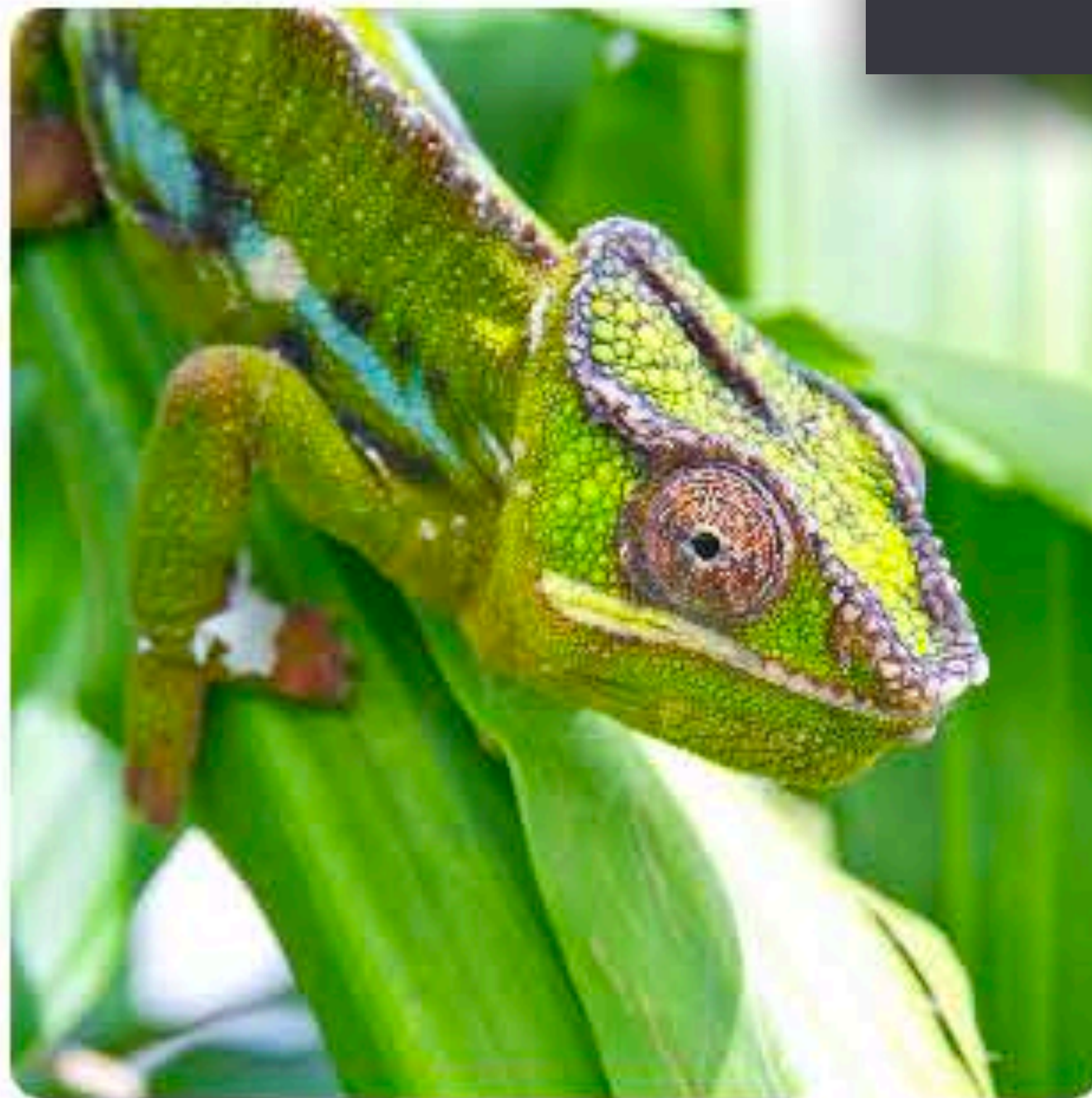
2 years old

Ph

`.black`  
`.darkGray`



tos



# Dynamic System Colors

Many NSColors are dynamic

# Dynamic System Colors

Many NSColors are dynamic

Color resolved at draw time

Label Colors

## Dynamic

- labelColor
- secondaryLabelColor
- tertiaryLabelColor
- quaternaryLabelColor

## Static

- black
- black @55%
- black @25%
- black @10%

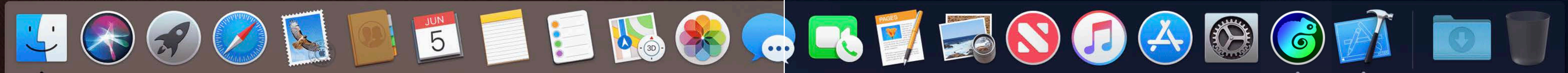
Label Colors

## Dynamic

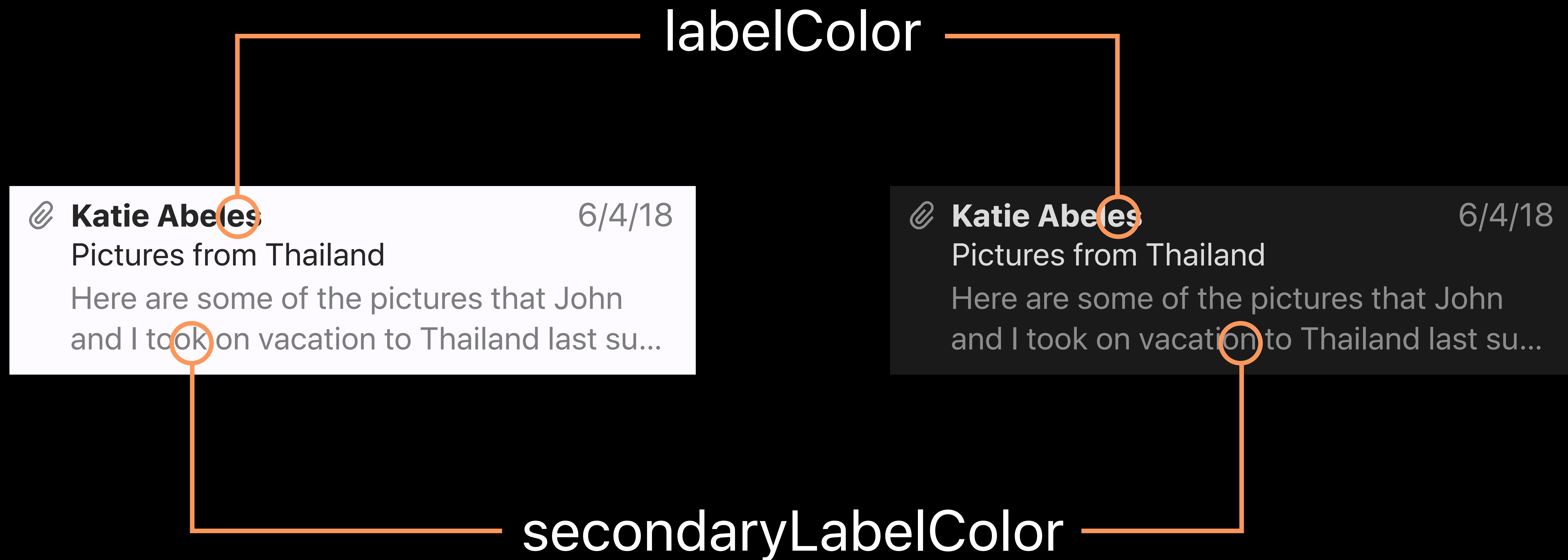
- labelColor
- secondaryLabelColor
- tertiaryLabelColor
- quaternaryLabelColor

## Static

- black
- black @55%
- black @25%
- black @10%



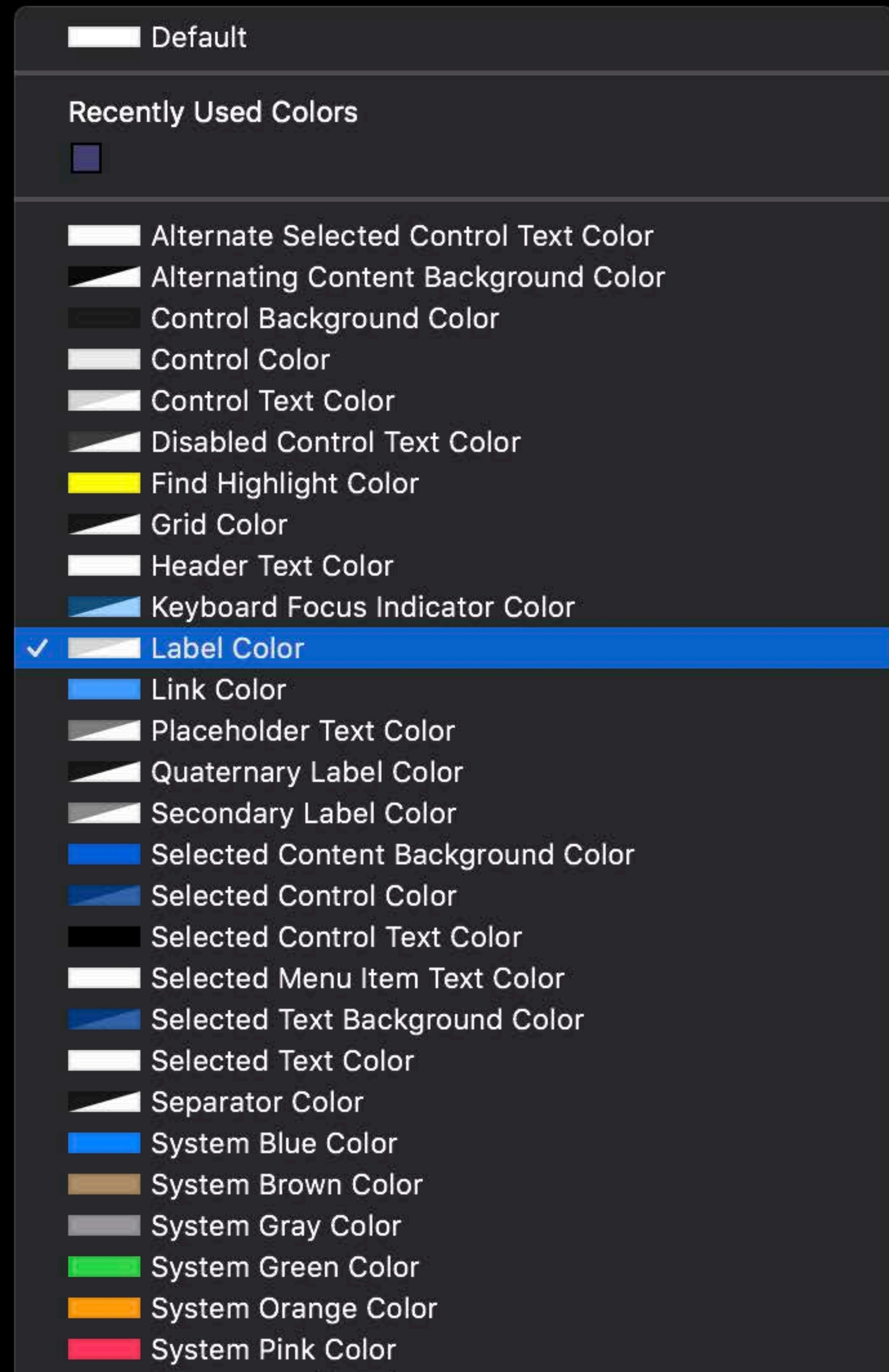
# Dynamic System Colors





# Dynamic System Colors

## Interface Builder





ns  
 dwick  
 oe  
 y  
 lsey  
 vy  
 vetel  
 ster  
 bs  
 opatra  
 rlotte



# Chloe

2 years old



# Chloe

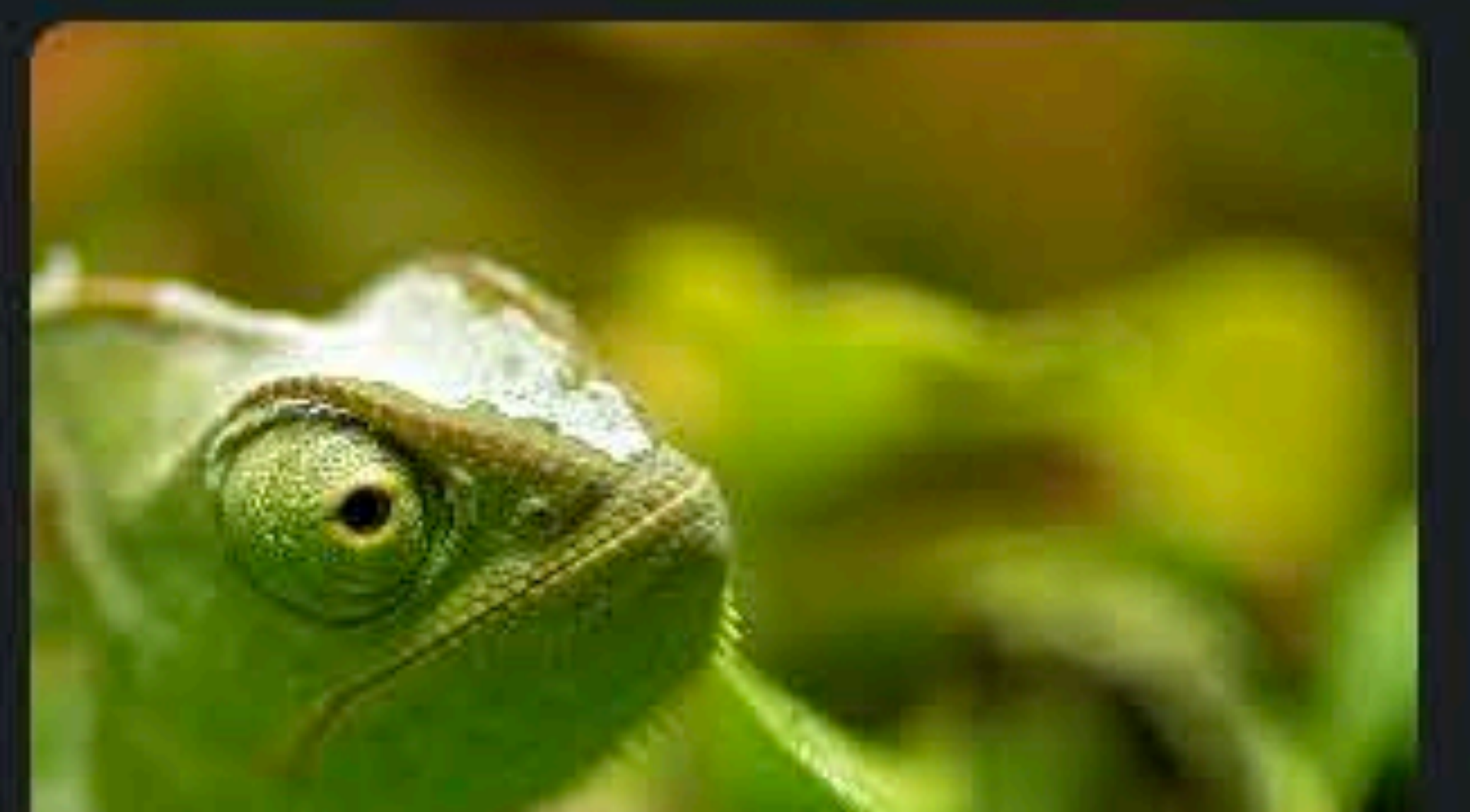
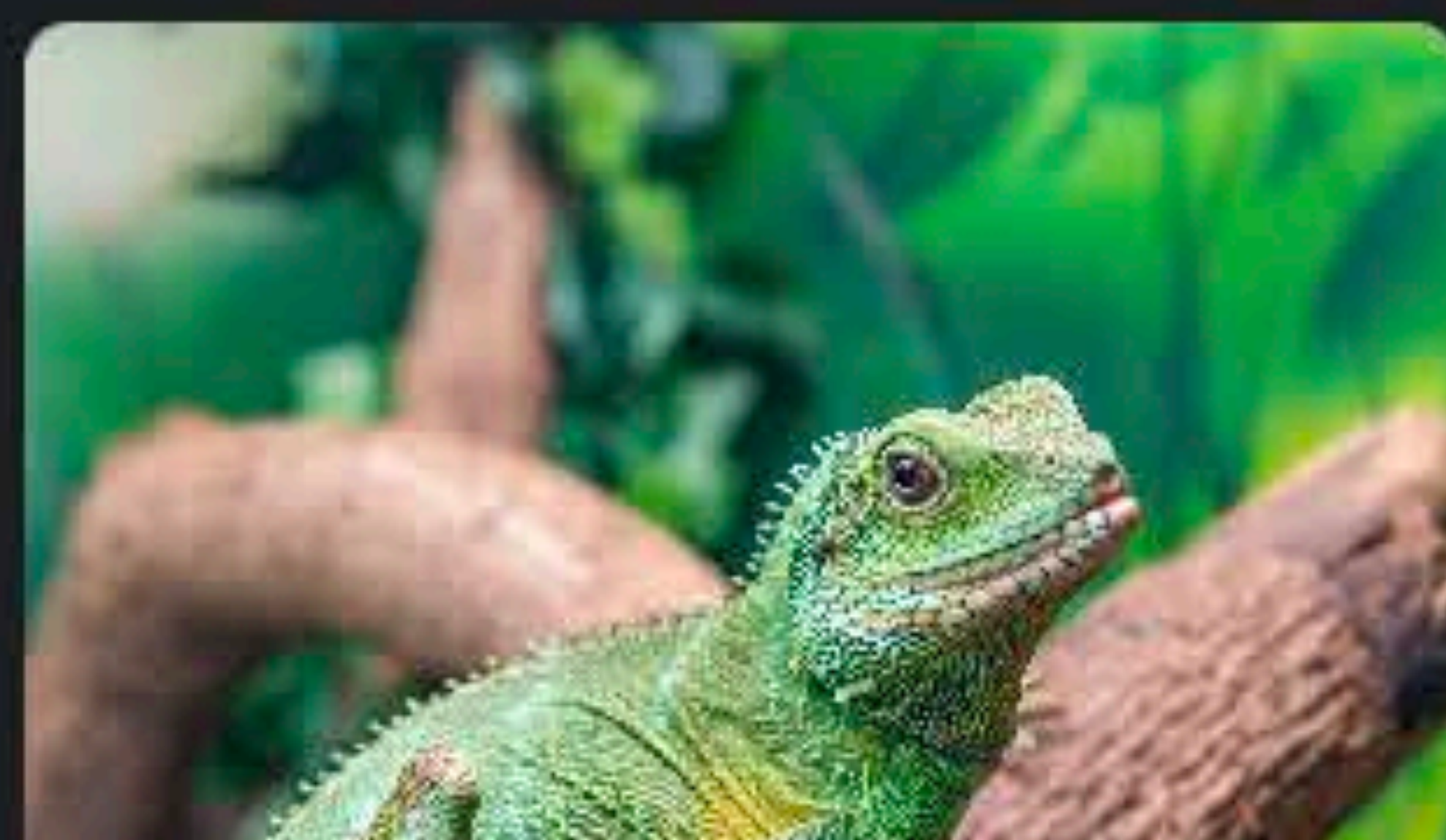
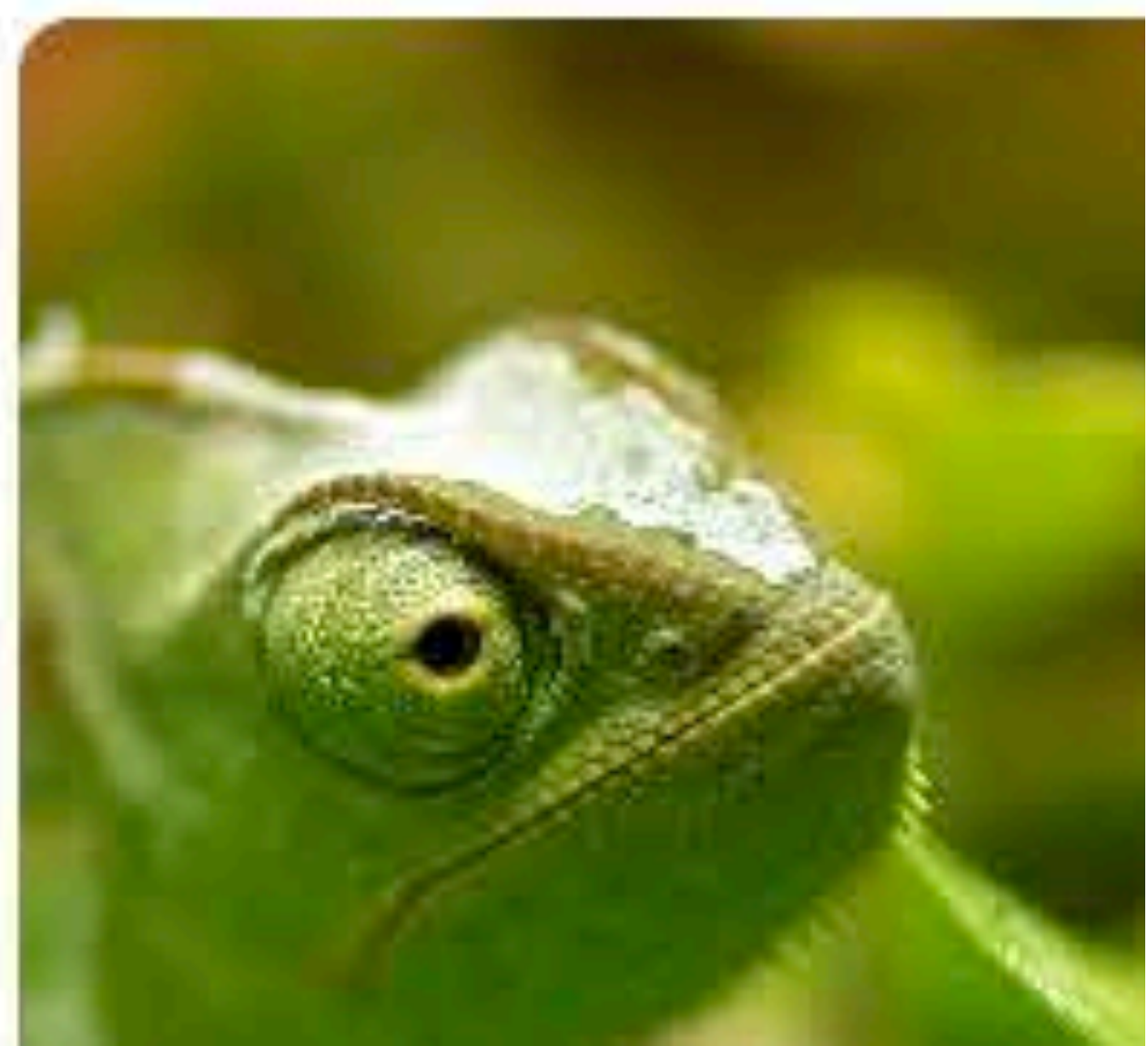
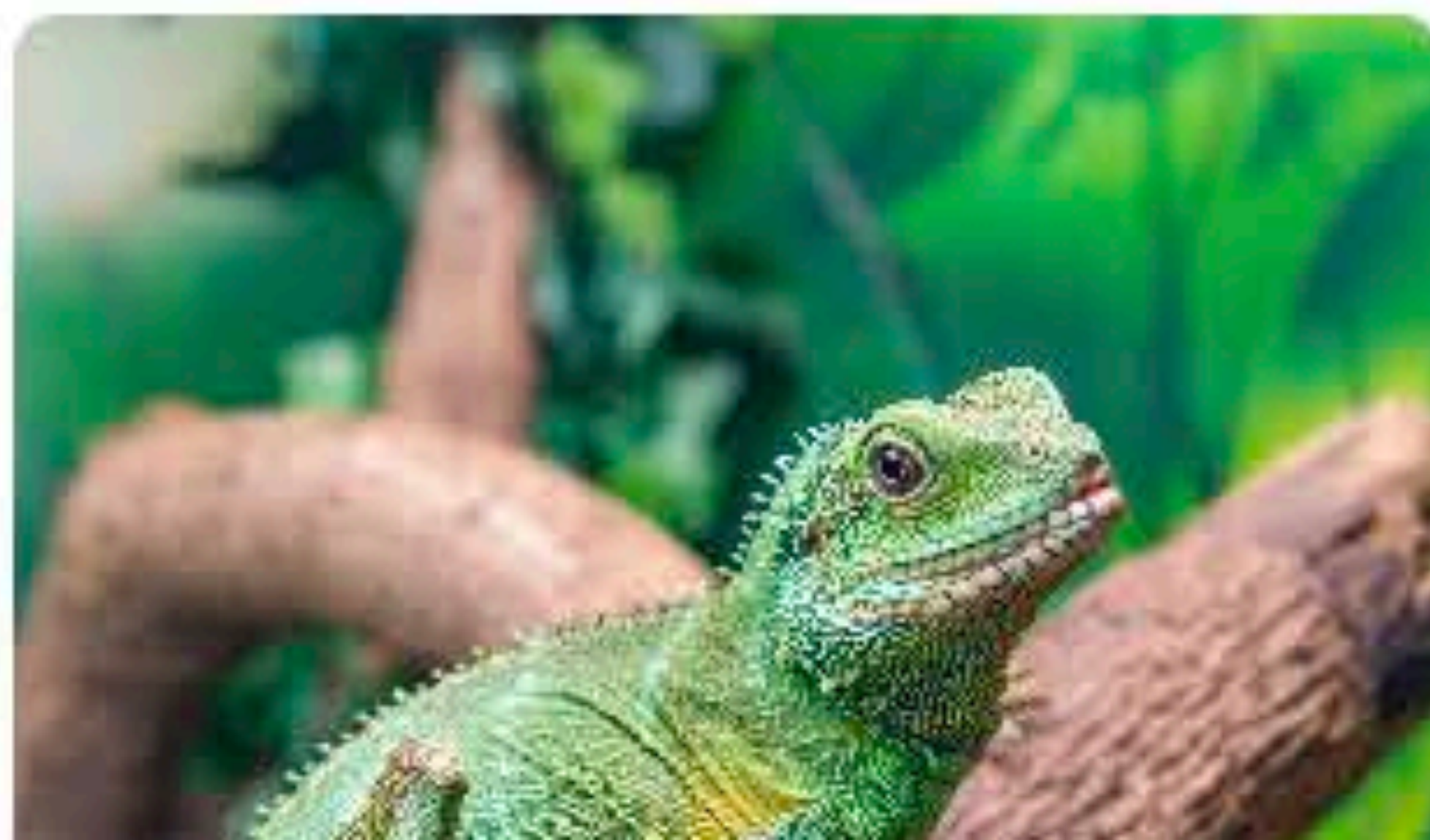
2 years old

Ph

`.black`  
`.darkGray`



tos





ns  
dwick  
oe  
y  
lsey  
vy  
vetel  
ster  
bs  
opatra  
rlotte



**Chloe**

2 years old



**Chloe**

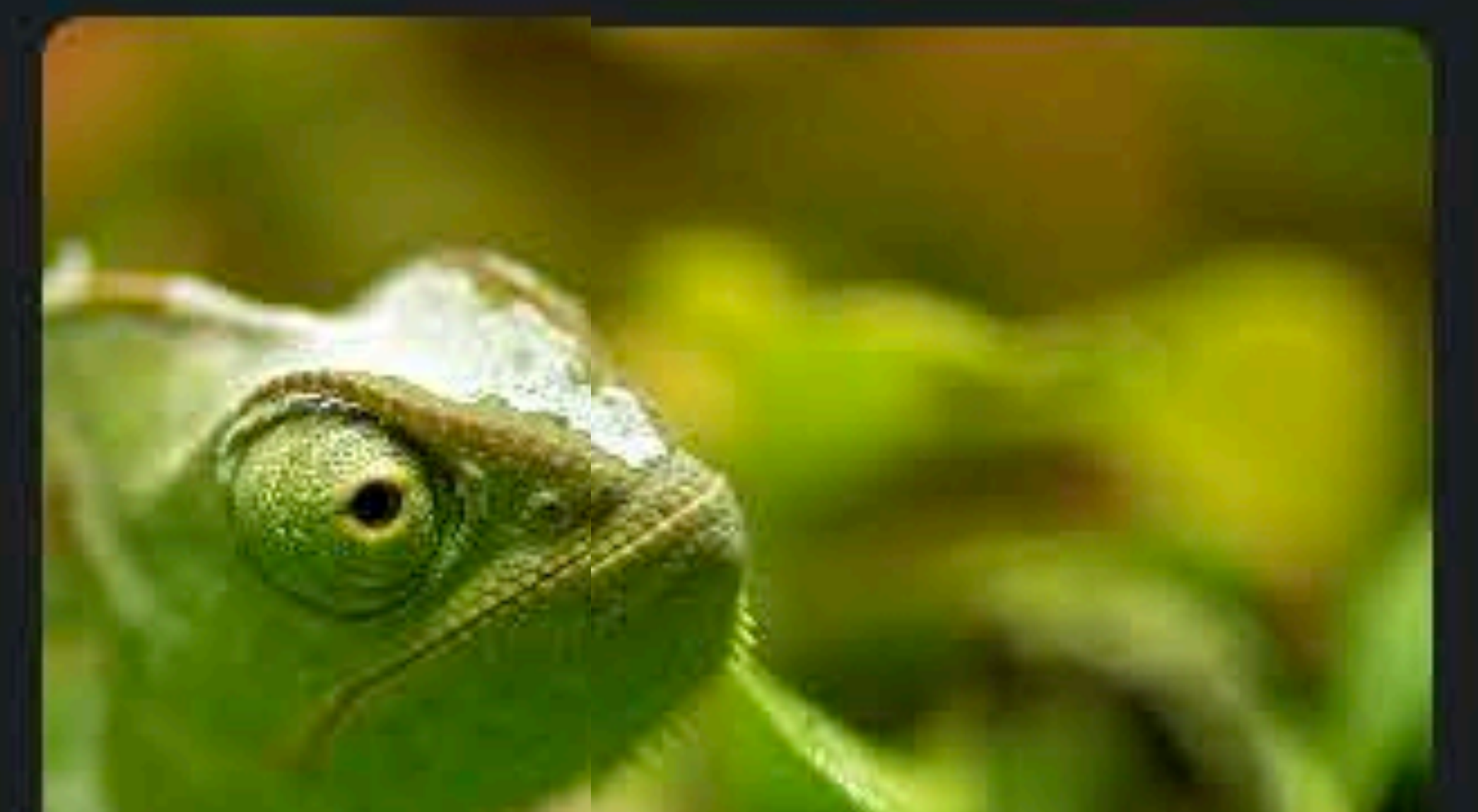
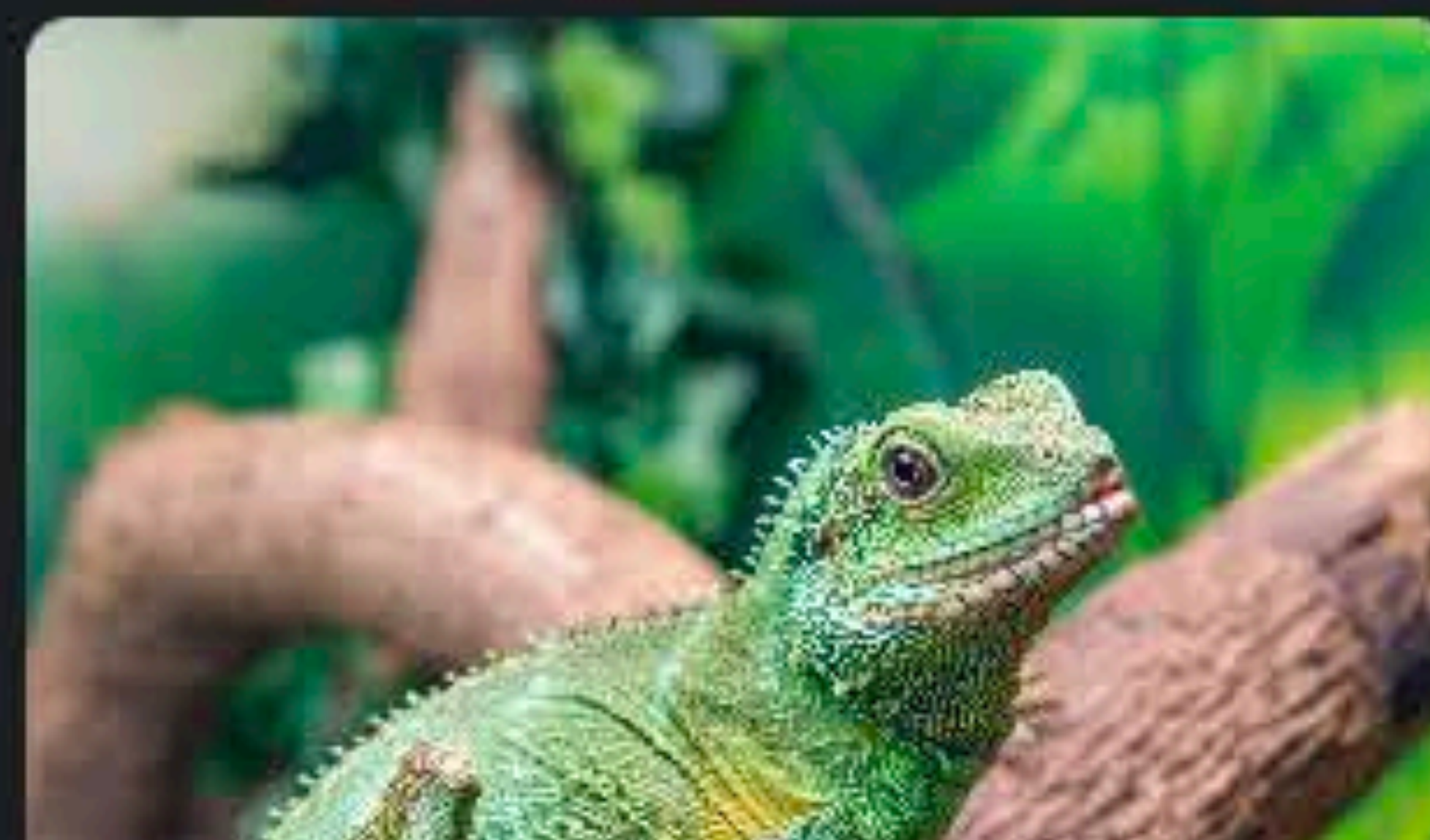
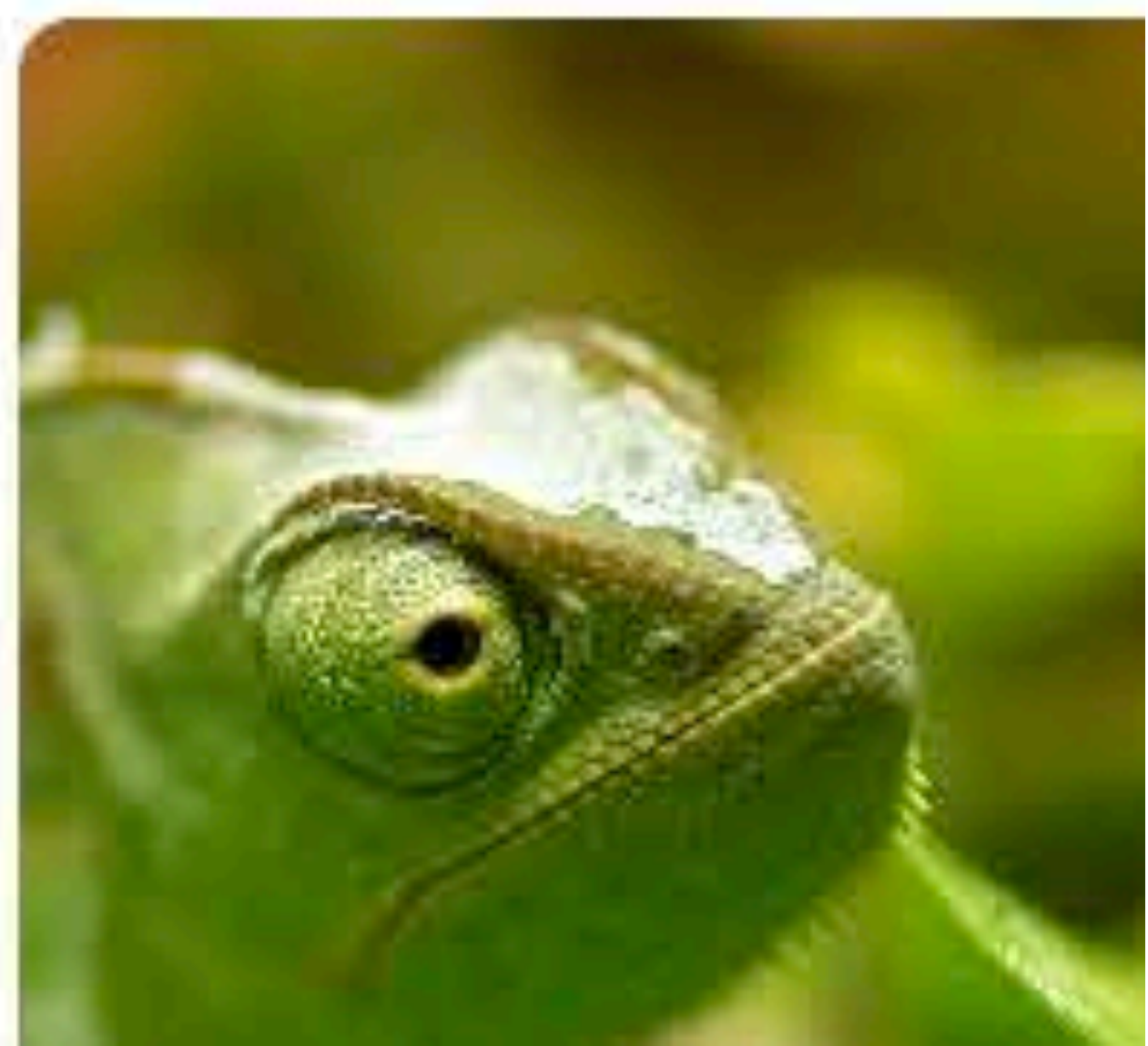
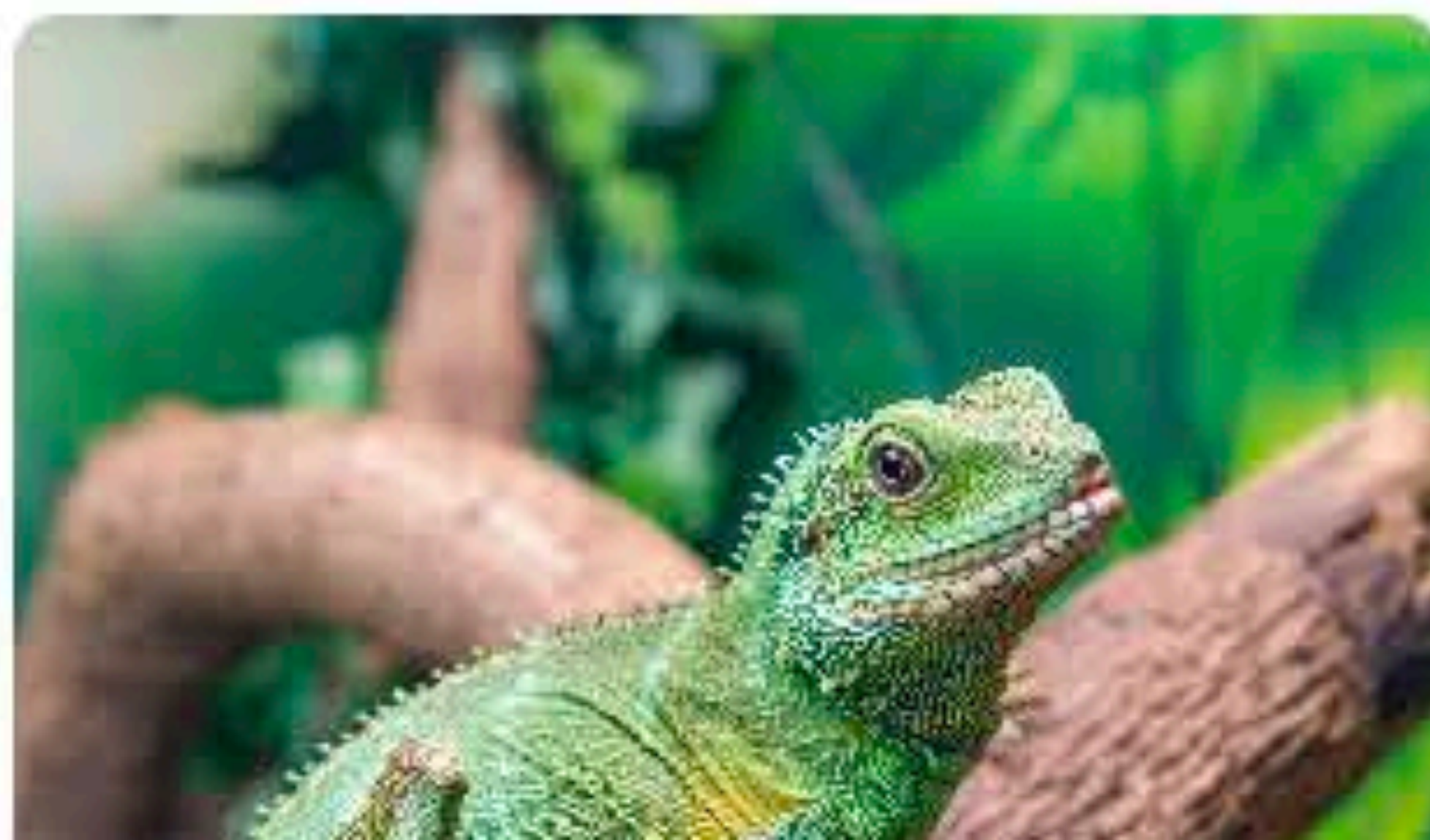
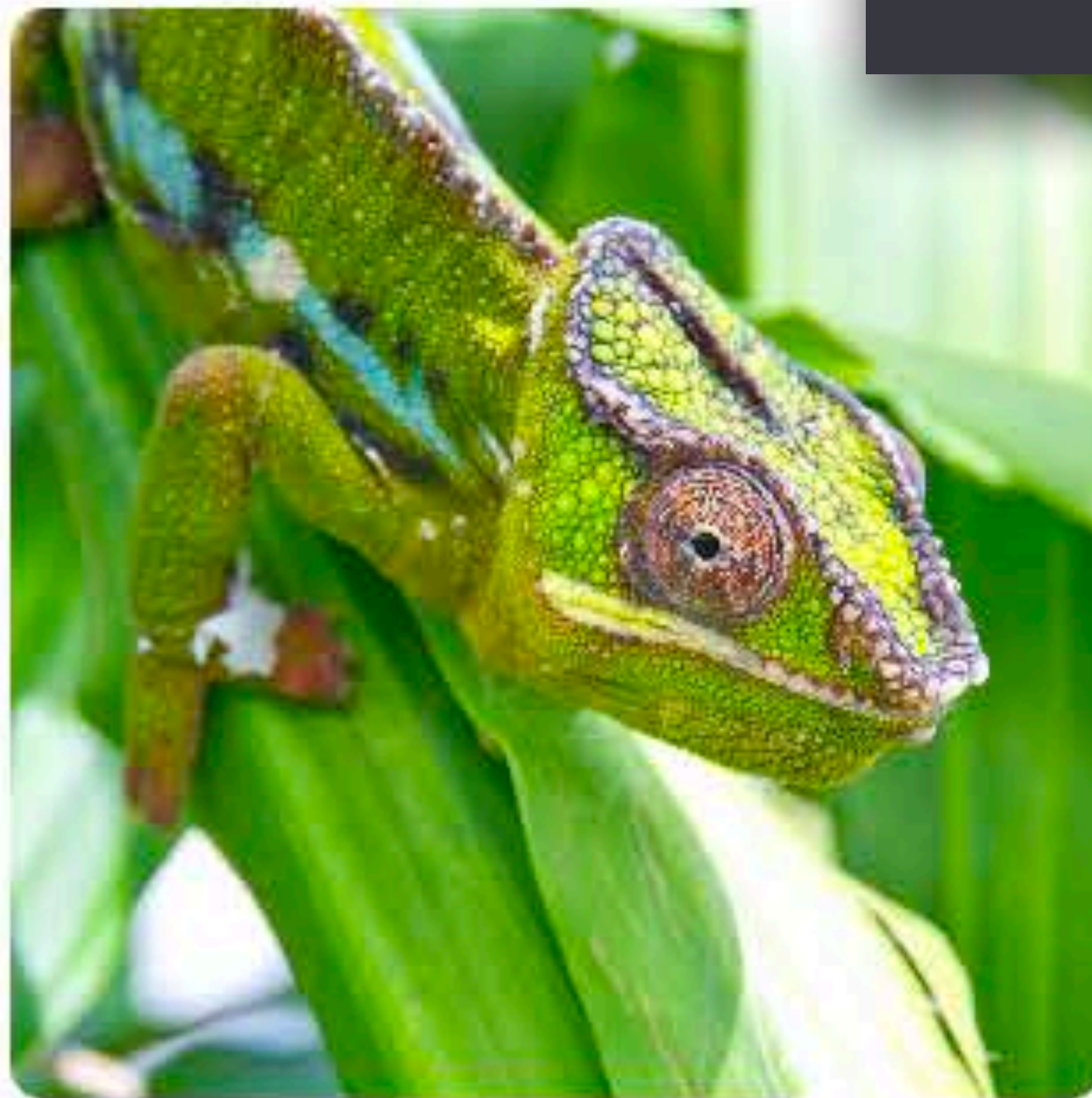
2 years old

Ph

`.labelColor`  
`.secondaryLabelColor`






tos






Colorful Colors

# Dynamic

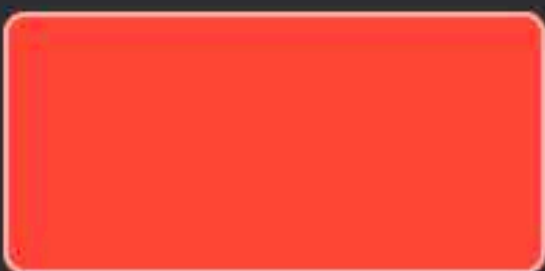


-  systemRed
-  systemYellow
-  systemGreen

# Static




-  red
-  yellow
-  green

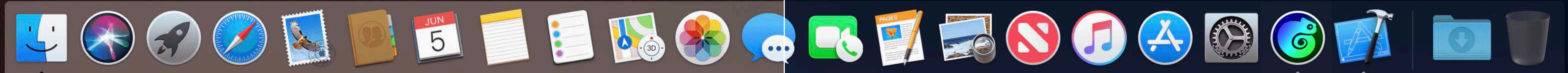
Colorful Colors

# Dynamic

-  systemRed
-  systemYellow
-  systemGreen

# Static

-  red
-  yellow
-  green



systemBlue and linkColor

linkColor

[www.apple.com](http://www.apple.com)

go someplace

systemBlue

perform action

controlAccentColor

match system controls

systemBlue and linkColor

linkColor

[www.apple.com](http://www.apple.com)

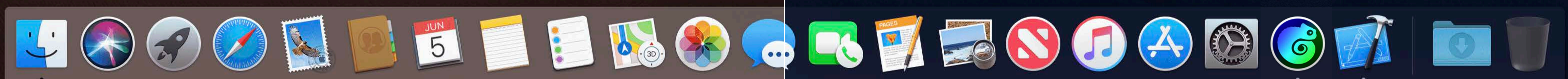
go someplace

systemBlue

perform action

controlAccentColor

match system controls

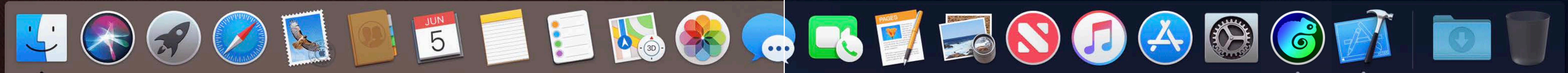


BackgroundColors

Lorem ipsum dolor sit amet,  
consectetur adipiscing elit,  
sed do eiusmod tempor  
incididunt ut labore et dolore  
magna aliqua. Ut enim ad  
minim veniam, quis nostrud  
exercitation ullamco laboris

BackgroundColors

Lorem ipsum dolor sit amet,  
consectetur adipiscing elit,  
sed do eiusmod tempor  
incididunt ut labore et dolore  
magna aliqua. Ut enim ad  
minim veniam, quis nostrud  
exercitation ullamco laboris



Running BackgroundColors : BackgroundColors

BackgroundColors PID 3517

- CPU 11%
- Memory 37.7 MB
- Energy Impact High
- Disk Zero KB/s
- Network Zero KB/s

NSWindow - BackgroundColors

- NSThemeFrame
  - NSVisualEffectView
  - NSView
    - NSScrollView
      - \_NSScrollViewContentBackgr...
        - Constraints
        - NSClipView
          - \_NSClipViewOverhangV...
            - Constraints
          - \_NSClipViewOverhangV...
            - Constraints
          - NSTextView
            - NSView
              - Constraints
            - Constraints
          - NSScroller
            - Constraints
          - Constraints
        - NSTitlebarContainerView
          - NSTitlebarView
            - \_NSThemeCloseWidget -...
              - Constraints

Object

Class Name `_NSScrollViewContentBackgr...`  
Address `0x600003504630`

View

Wants Layer No

Layer `<_NSViewBackingLayer: 0x600000c5c6f0>`

Focus Ring Default

Visibility Not Opaque  
Not Hidden

Alpha 1  
Flipped No

Drawing Can Draw Concurrently Off

Identifier `<null>`  
Tool Tip `<null>`

Appearance `<null>`  
Effective `NSAppearanceNameDarkAqua`

Accessibility

Descendant `<null>`  
Not Accessibility Element

Label `<null>`

Description `<_NSScrollViewContentBackgr  
oundView: 0x600003504630>`

Hierarchy

`_NSScrollViewContentBackgro  
undView  
NSView  
NSResponder  
NSObject`

Backtrace

Malloc stack logging is not enabled for this process.

Thread 1 > 0 mach\_msg\_trap



Running BackgroundColors : BackgroundColors

BackgroundColors PID 3517

- CPU 11%
- Memory 37.7 MB
- Energy Impact High
- Disk Zero KB/s
- Network Zero KB/s

NSWindow - BackgroundColors

- NSThemeFrame
  - NSVisualEffectView
  - NSView
    - NSScrollView
      - \_NSScrollViewContentBackgr...
        - Constraints
        - NSClipView
          - \_NSClipViewOverhangV...
            - Constraints
          - \_NSClipViewOverhangV...
            - Constraints
          - NSTextView
            - NSView
              - Constraints
            - Constraints
          - NSScroller
            - Constraints
          - Constraints
        - NSTitlebarContainerView
          - NSTitlebarView
            - \_NSThemeCloseWidget -...
              - Constraints

Object

Class Name `_NSScrollViewContentBackgr...`  
Address `0x600003504630`

View

Wants Layer No

Layer `<_NSViewBackingLayer: 0x600000c5c6f0>`

Focus Ring Default

Visibility Not Opaque  
Not Hidden

Alpha 1  
Flipped No

Drawing Can Draw Concurrently Off

Identifier `<null>`  
Tool Tip `<null>`

Appearance `<null>`  
Effective `NSAppearanceNameDarkAqua`

Accessibility

Descendant `<null>`  
Not Accessibility Element

Label `<null>`

Description `<_NSScrollViewContentBackgr  
oundView: 0x600003504630>`

Hierarchy

`_NSScrollViewContentBackgro  
undView  
NSView  
NSResponder  
NSObject`

Backtrace

Malloc stack logging is not enabled for this process.

Thread 1 > 0 mach\_msg\_trap





Running BackgroundColors : BackgroundColors

BackgroundColors PID 3517

- CPU 11%
- Memory 37.7 MB
- Energy Impact High
- Disk Zero KB/s
- Network Zero KB/s

NSWindow - BackgroundColors

- NSThemeFrame
  - NSVisualEffectView
  - NSView
    - NSScrollView
      - \_NSScrollViewContentBackgr...
        - Constraints
        - NSClipView
          - \_NSClipViewOverhangV...
            - Constraints
          - \_NSClipViewOverhangV...
            - Constraints
          - NSTextView
            - NSView
              - Constraints
              - Constraints
              - Constraints
            - NSScroller
              - Constraints
          - Constraints
        - NSTitlebarContainerView
          - NSTitlebarView
            - \_NSThemeCloseWidget -...
              - Constraints

Object

Class Name \_NSScrollViewContentBackgr...  
Address 0x600003504630

View

Wants Layer No

Layer <\_NSViewBackingLayer: 0x600000c5c6f0>

Focus Ring Default

Visibility Not Opaque  
Not Hidden

Alpha 1  
Flipped No

Drawing Can Draw Concurrently Off

Identifier <null>  
Tool Tip <null>

Appearance <null>  
Effective NSAppearanceNameDarkAqua

Accessibility

Descendant <null>  
Not Accessibility Element

Label <null>

Description <\_NSScrollViewContentBackgr  
oundView: 0x600003504630>

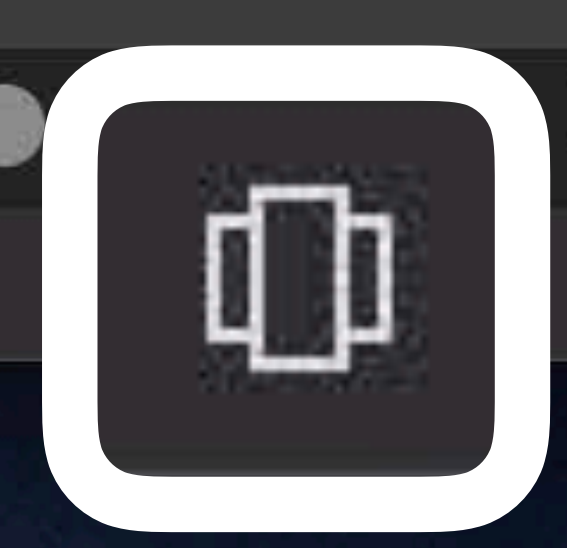
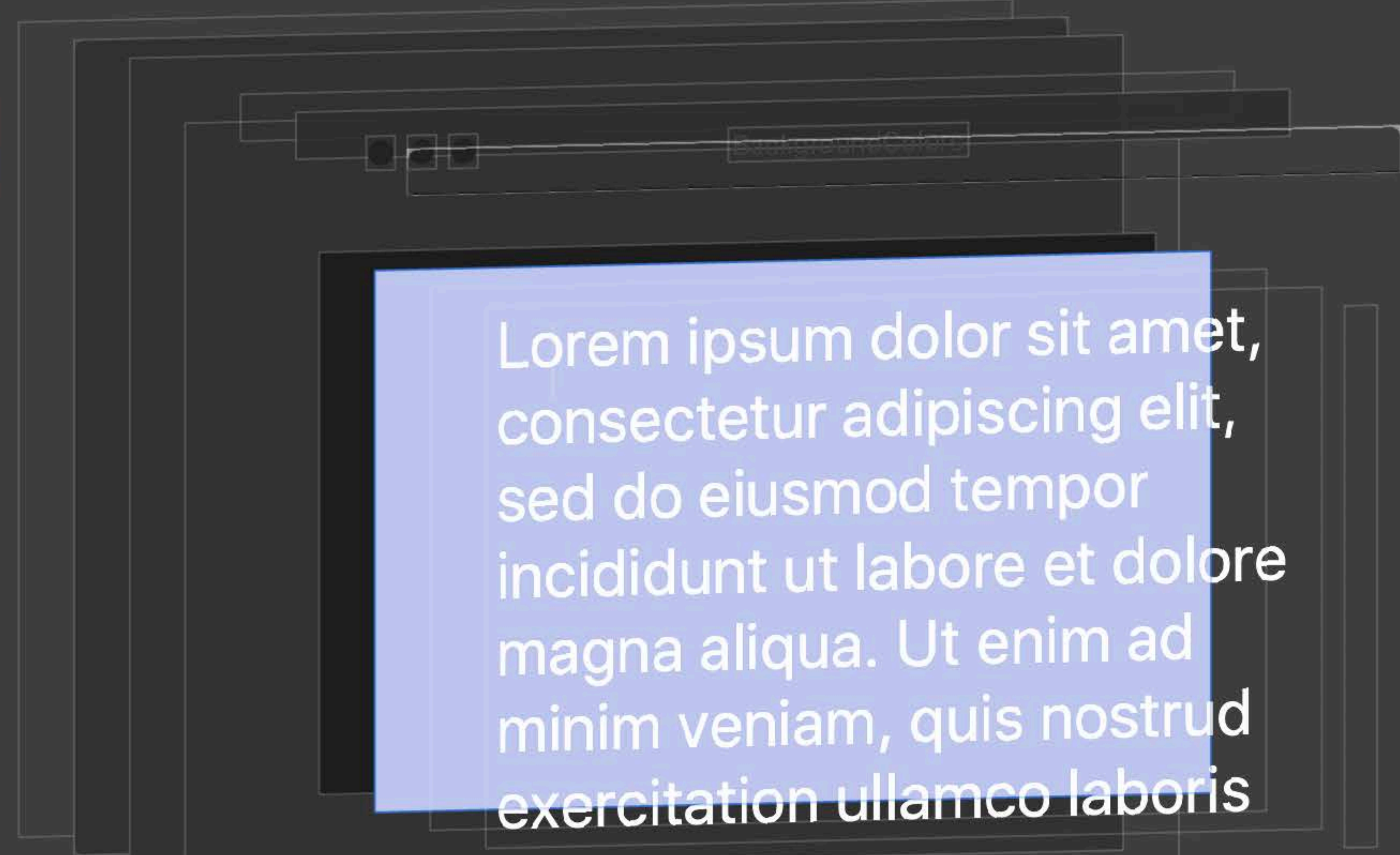
Hierarchy

\_NSScrollViewContentBackgro  
undView  
NSView  
NSResponder  
NSObject

Backtrace

Malloc stack logging is not enabled for this process.

Thread 1 > 0 mach\_msg\_trap



BackgroundColors > BackgroundColors > MainMenu.xib > MainMenu.xib (Base) > Window > View > Scroll View - Text View

**Placeholders**

- File's Owner
- First Responder
- Application

**Objects**

- Delegate
- Font Manager
- Main Menu

**Window**

- View
  - Scroll View - Text View
    - Clip View
    - Scroller

BackgroundColors File Edit Format View Window Help

BackgroundColors

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris

**Scroll View**

Border Type

Scroller Knobs Default Style

Find Bar Position Above Content

Background Custom

Draw Background

Horizontal Automatic Elasticity

Vertical Automatic Elasticity

Predominant Axis Scrolling

Line Scroll 10 10  
Horizontal Vertical

Page Scroll 10 10  
Horizontal Vertical

Behavior  Copy On Scroll  
 Show Horizontal Scroller  
 Show Vertical Scroller  
 Automatically Hide Scroller

Magnification  Allow  
0.25 4  
Minimum Maximum

**View**

Tag -1

Focus Ring Default

Drawing  Hidden  
 Can Draw Concurrently

Autosizing  Autosizes Subviews

Appearance Inherited (System, Dark A...)



BackgroundColors > BackgroundColors > MainMenu.xib > MainMenu.xib (Base) > Window > View > Scroll View - Text View

Placeholder: Application

Object: Main Menu

Window > View > Scroll View - Text View

BackgroundColors File Edit Format View Window Help

BackgroundColors

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris

View as: Dark Appearance

Scroll View

Border Type: [Default]

Scroller Knobs: Default Style

Find Bar: Position Above Content

Background: Control Background Color (Default)

Horizontal: [Color]

Vertical: [Color]

Line Scroller: [Color]

Page Scroller: [Color]

Behavior: [Color]

Magnification: [Color]

View: [Color]

Focus Ring: [Color]

Drawing: [Color]

Autosizing: [Color]

Appearance: [Color]

Recently Used Colors

- Alternate Selected Control Text Color
- Alternating Content Background Color
- Control Background Color
- Control Color
- Control Text Color
- Disabled Control Text Color
- Find Highlight Color
- Grid Color
- Header Text Color
- Keyboard Focus Indicator Color
- Label Color
- Link Color
- Placeholder Text Color
- Quaternary Label Color
- Secondary Label Color
- Selected Content Background Color
- Selected Control Color
- Selected Control Text Color
- Selected Menu Item Text Color
- Selected Text Background Color
- Selected Text Color
- Separator Color
- System Blue Color
- System Brown Color
- System Gray Color
- System Green Color
- System Orange Color
- System Pink Color
- System Purple Color
- System Red Color
- System Yellow Color
- Tertiary Label Color
- Text Background Color
- Text Color
- Under Page Background Color
- Unemphasized Selected Content Background Color
- Unemphasized Selected Text Background Color
- Unemphasized Selected Text Color
- Window Background Color
- Window Frame Text Color

Custom...

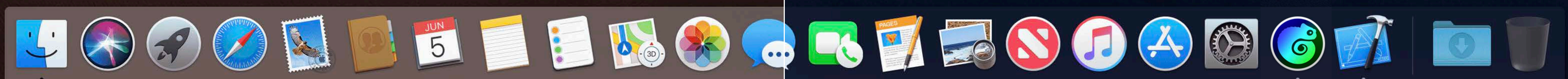


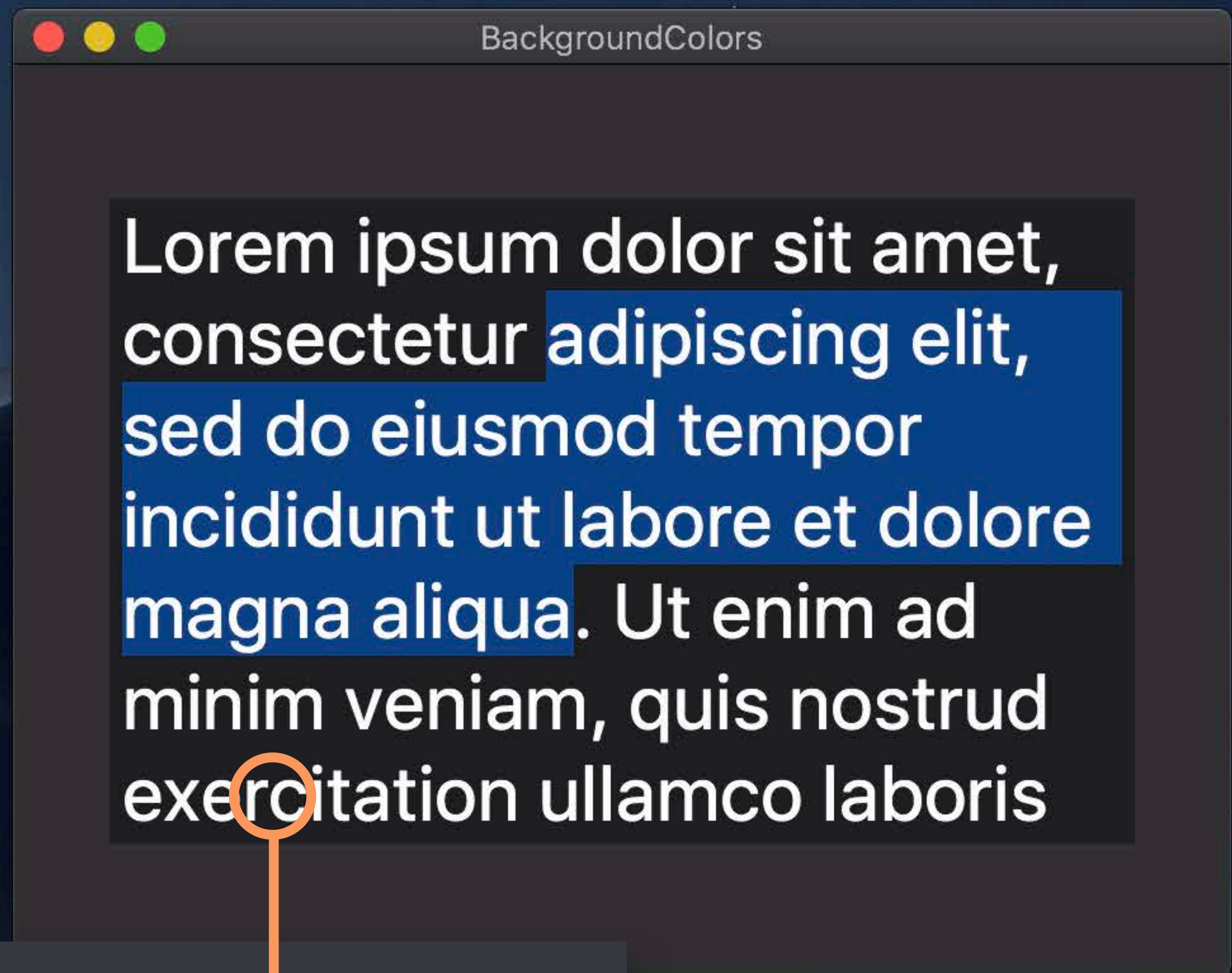
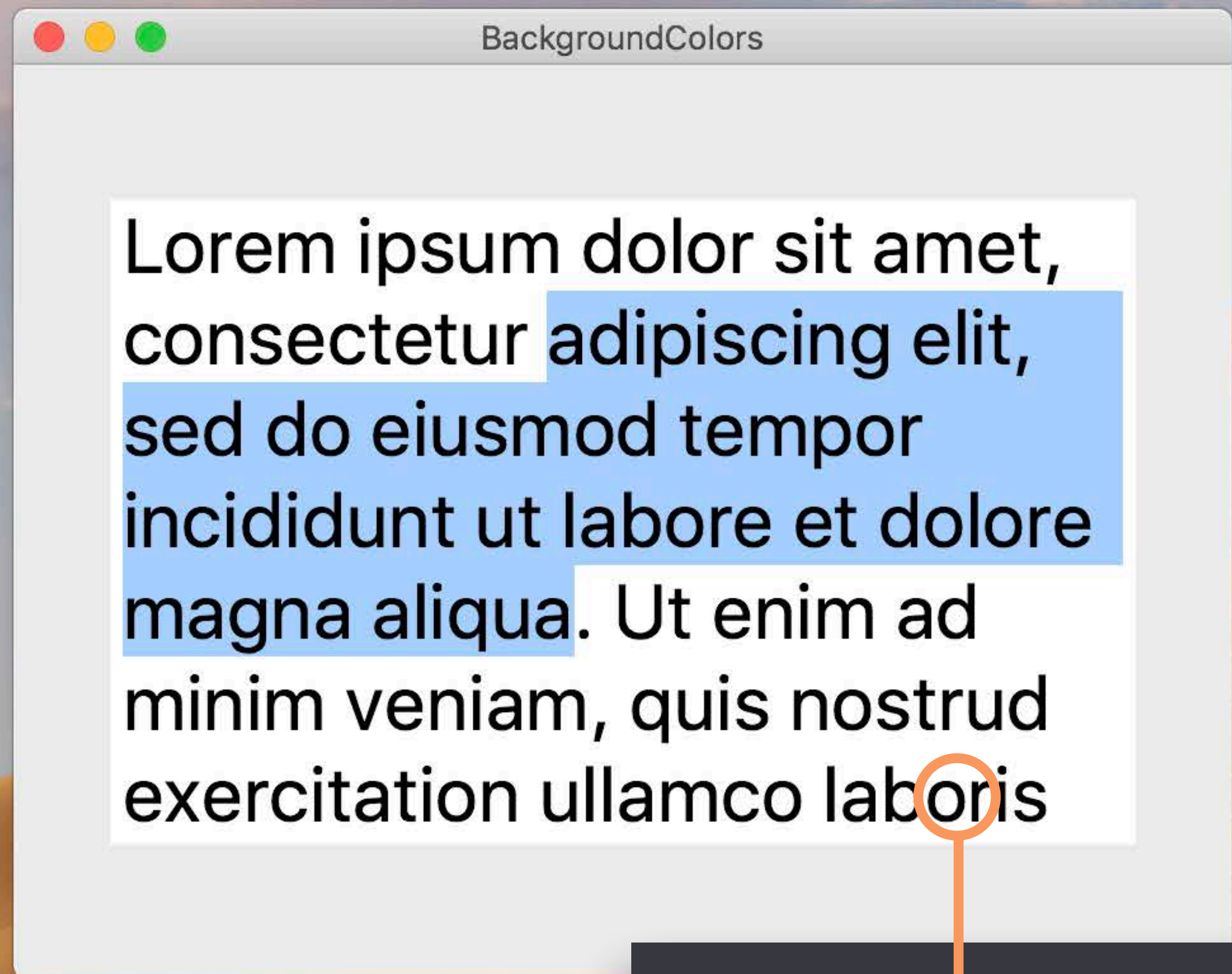
BackgroundColors

Lorem ipsum dolor sit amet,  
consectetur adipiscing elit,  
sed do eiusmod tempor  
incididunt ut labore et dolore  
magna aliqua. Ut enim ad  
minim veniam, quis nostrud  
exercitation ullamco laboris

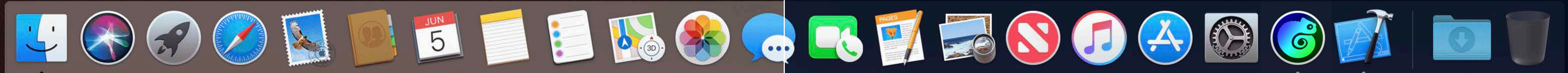
BackgroundColors

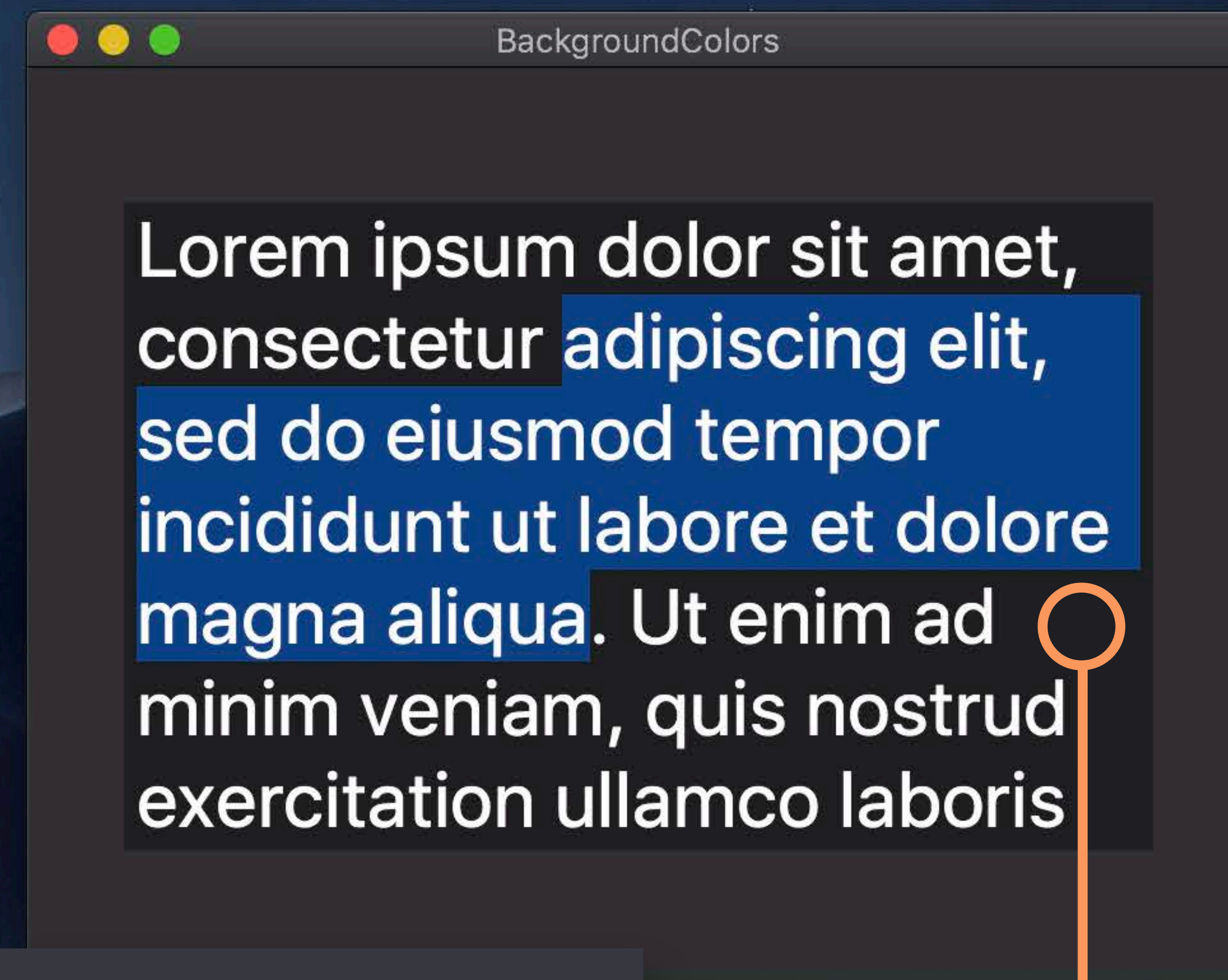
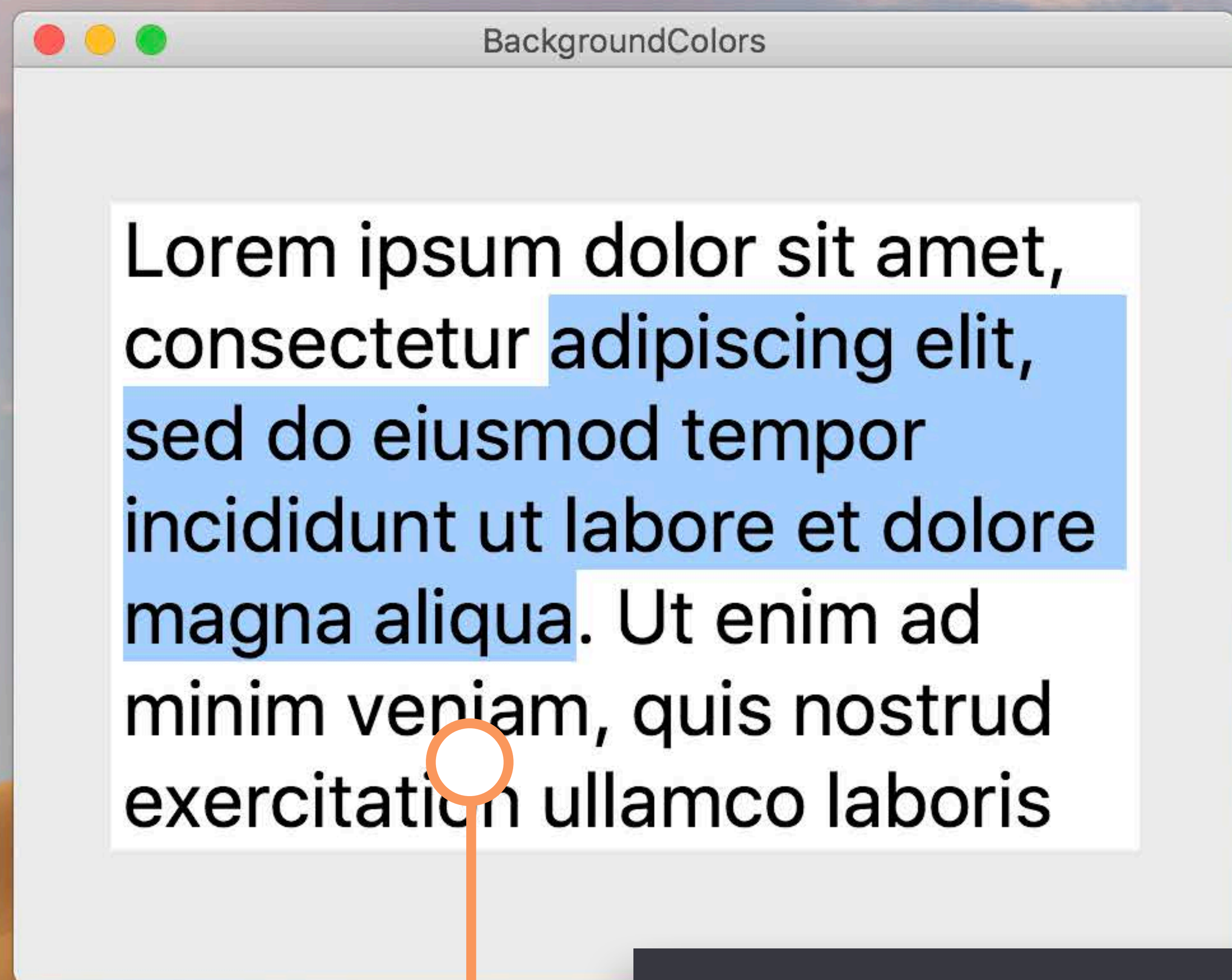
Lorem ipsum dolor sit amet,  
consectetur adipiscing elit,  
sed do eiusmod tempor  
incididunt ut labore et dolore  
magna aliqua. Ut enim ad  
minim veniam, quis nostrud  
exercitation ullamco laboris



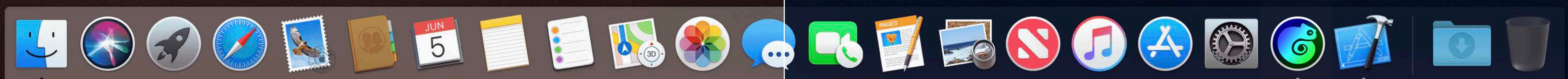


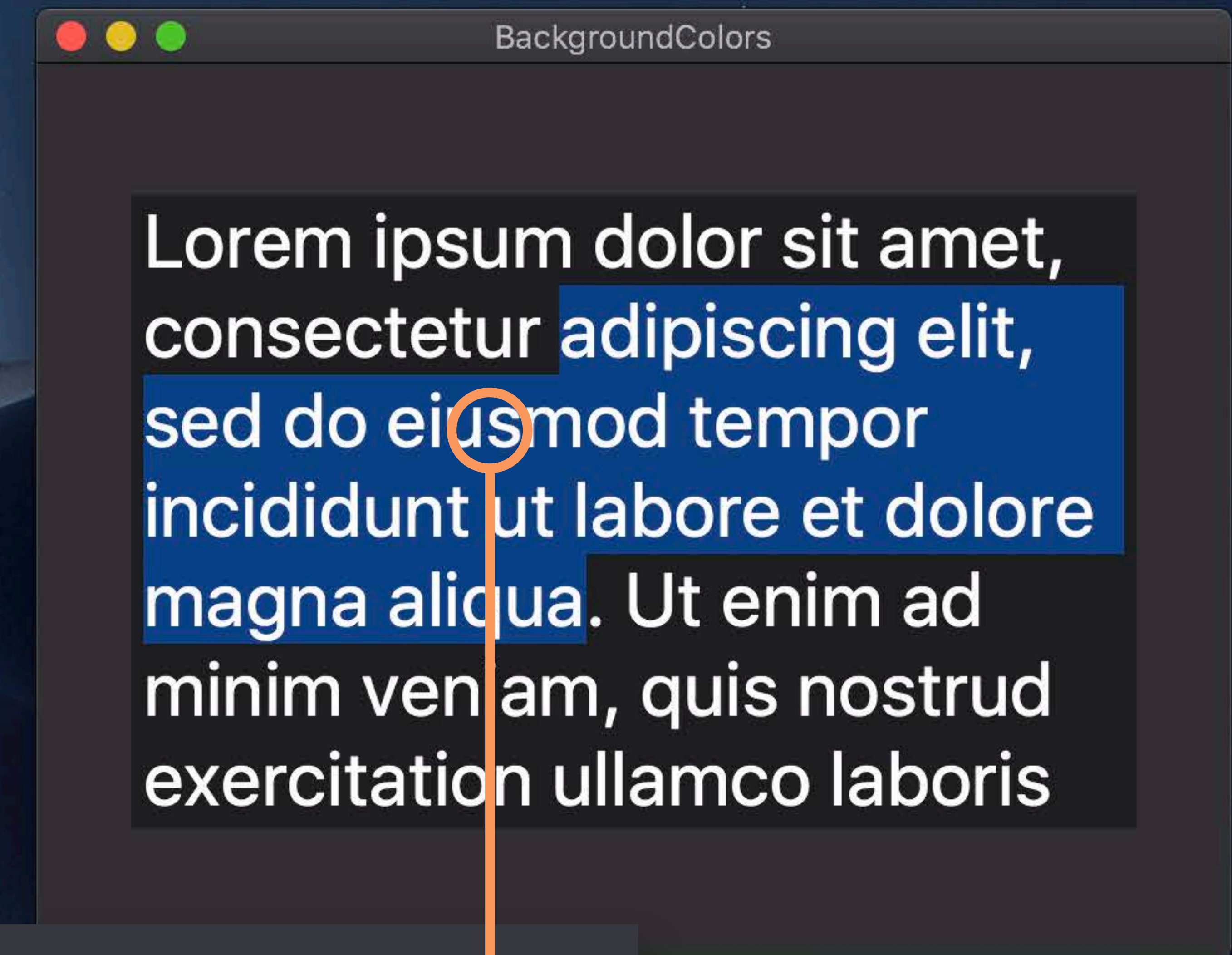
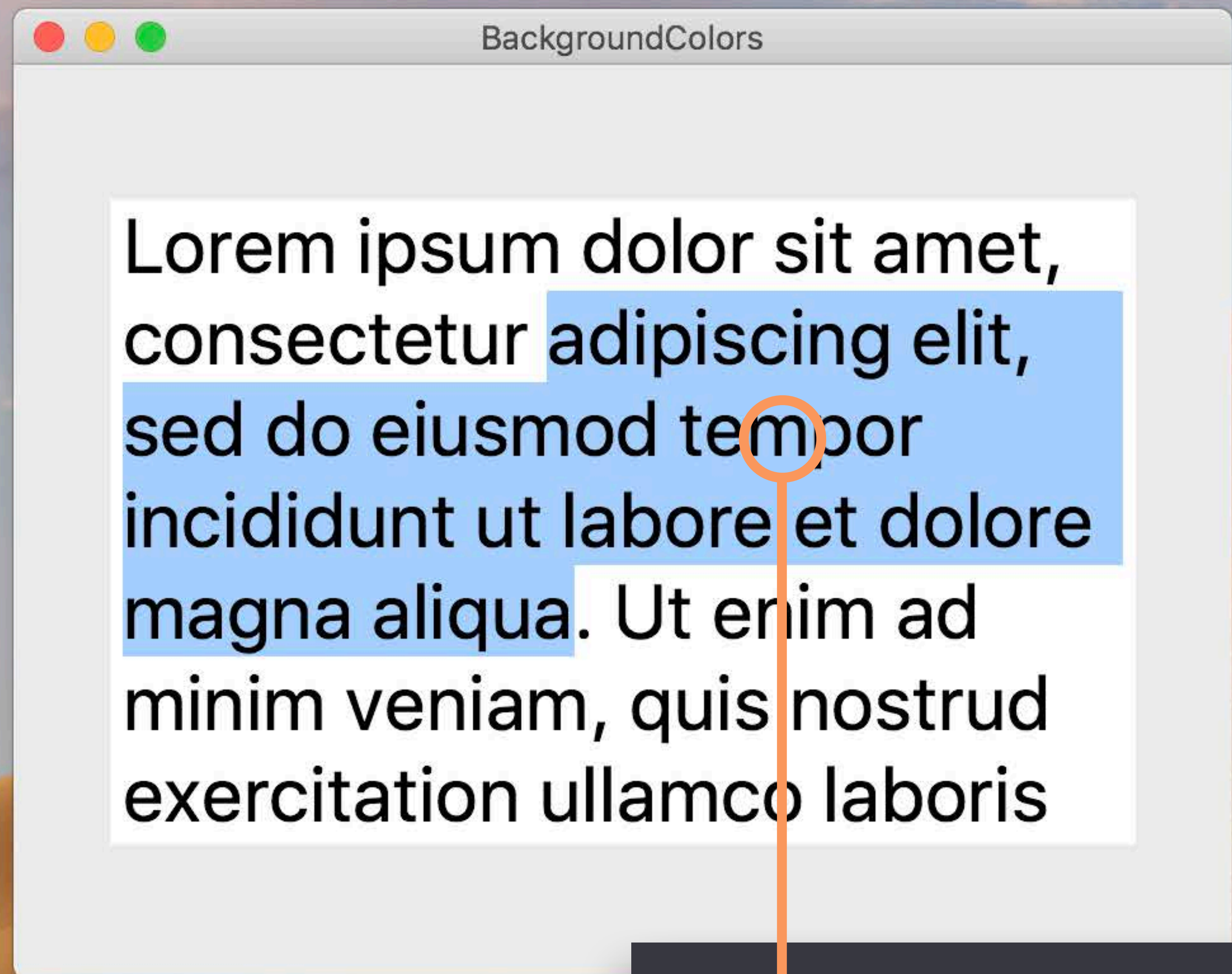
textColor  
textBackgroundColor  
selectedTextColor  
selectedTextBackgroundColor



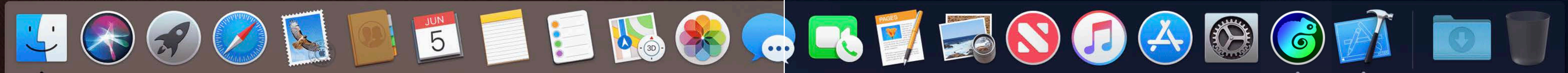


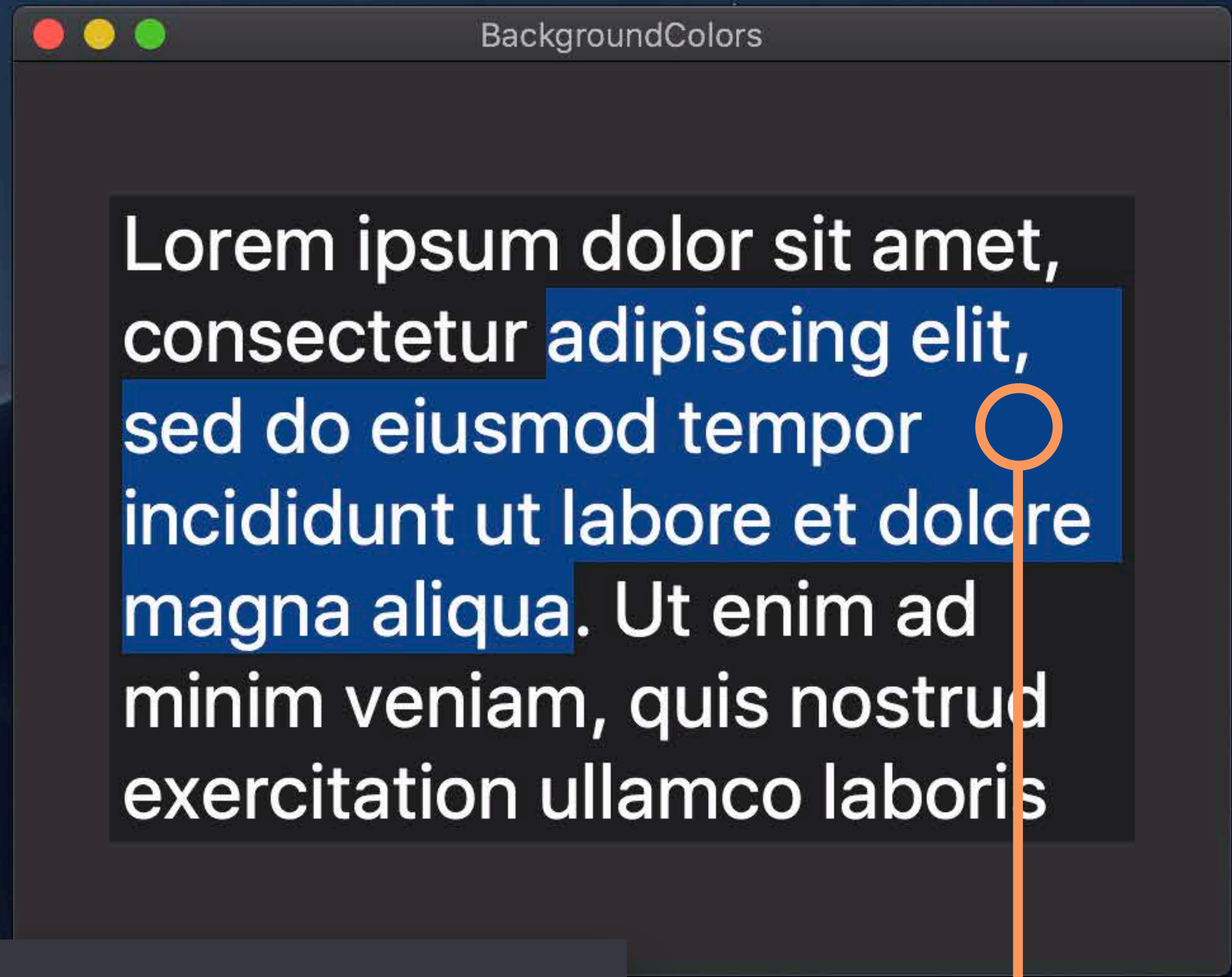
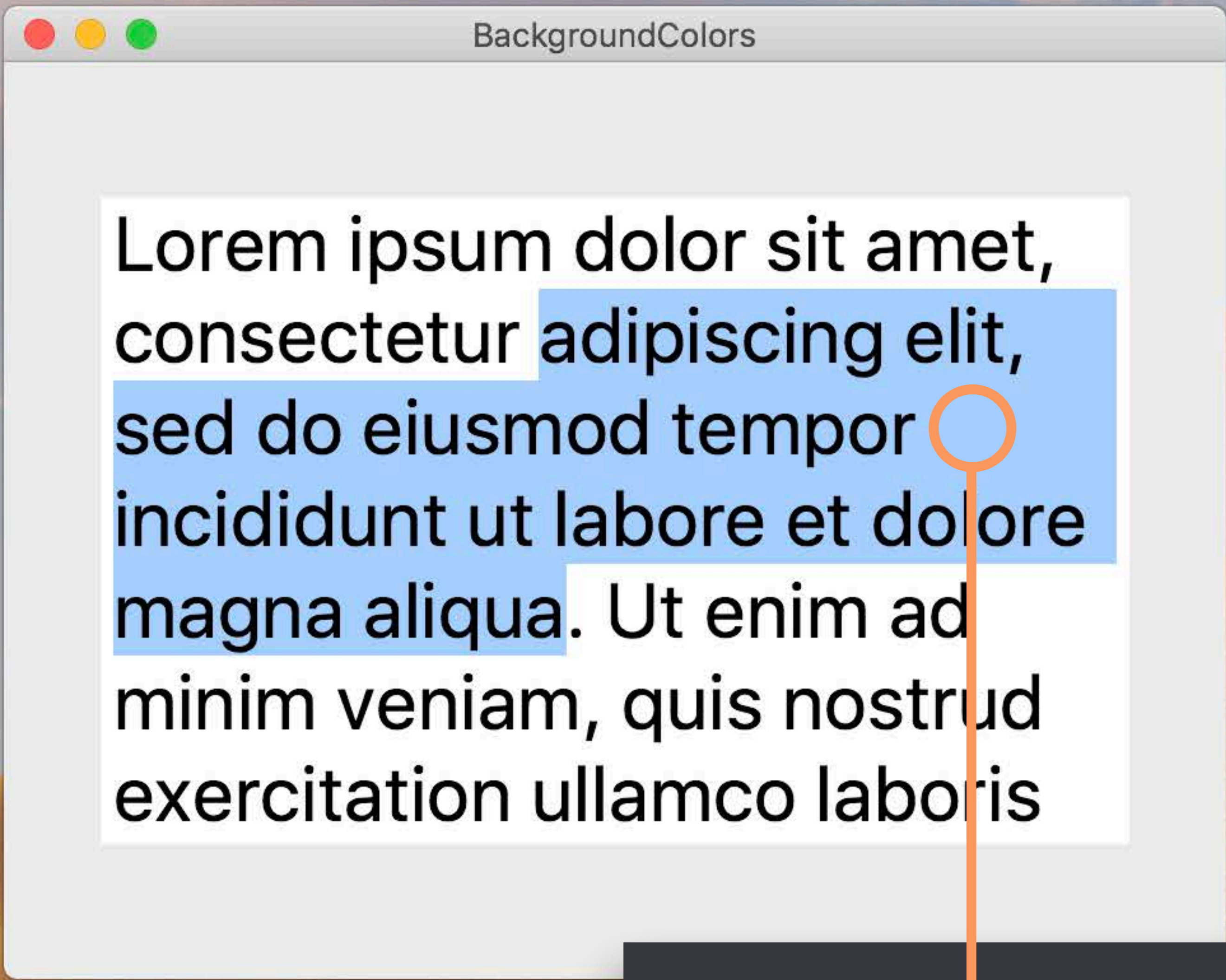
textColor  
textBackgroundColor  
selectedTextColor  
selectedTextBackgroundColor



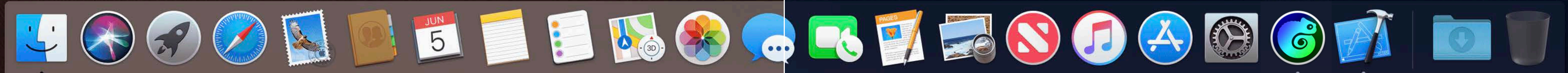


textColor  
textBackgroundColor  
selectedTextColor  
selectedTextBackgroundColor

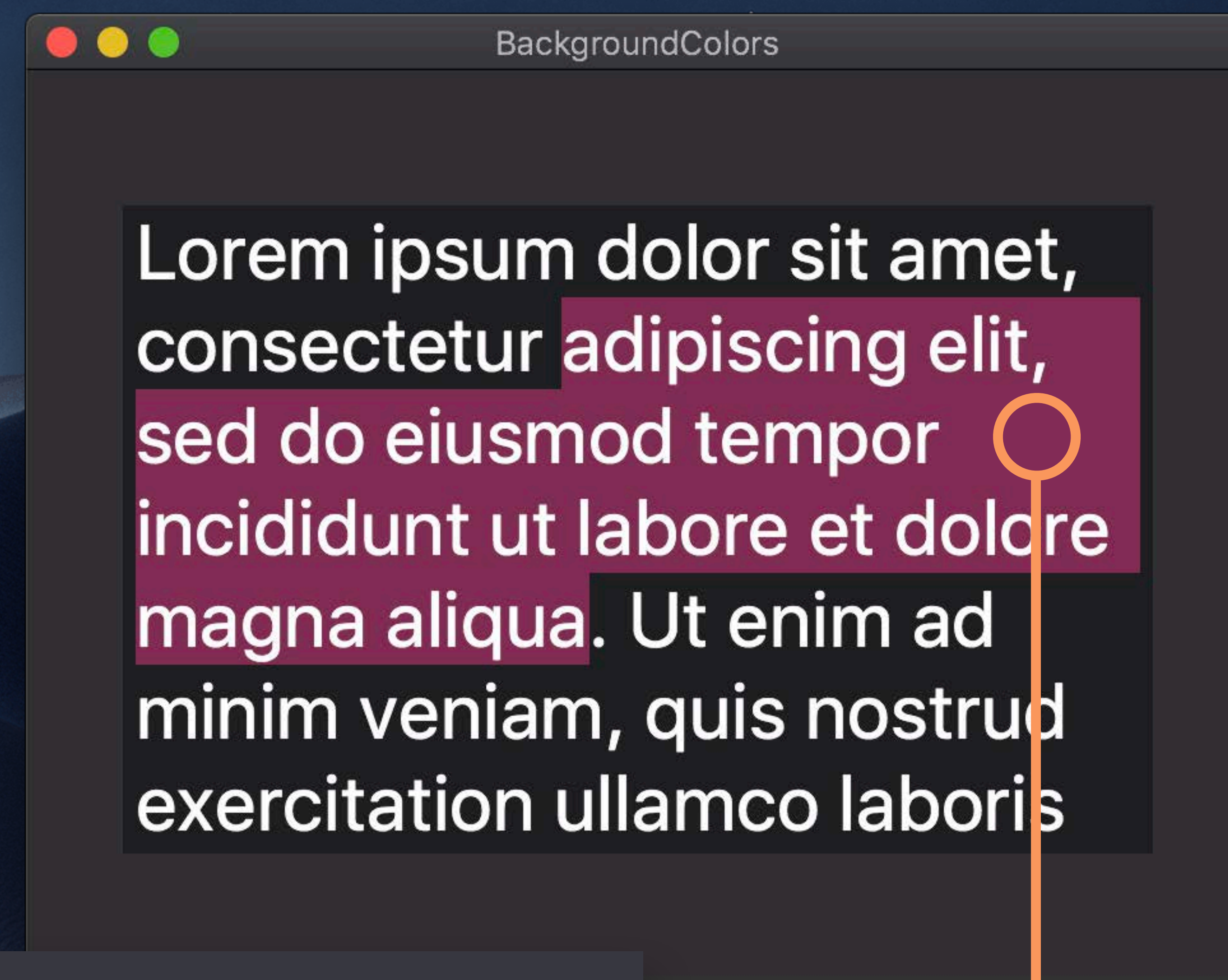
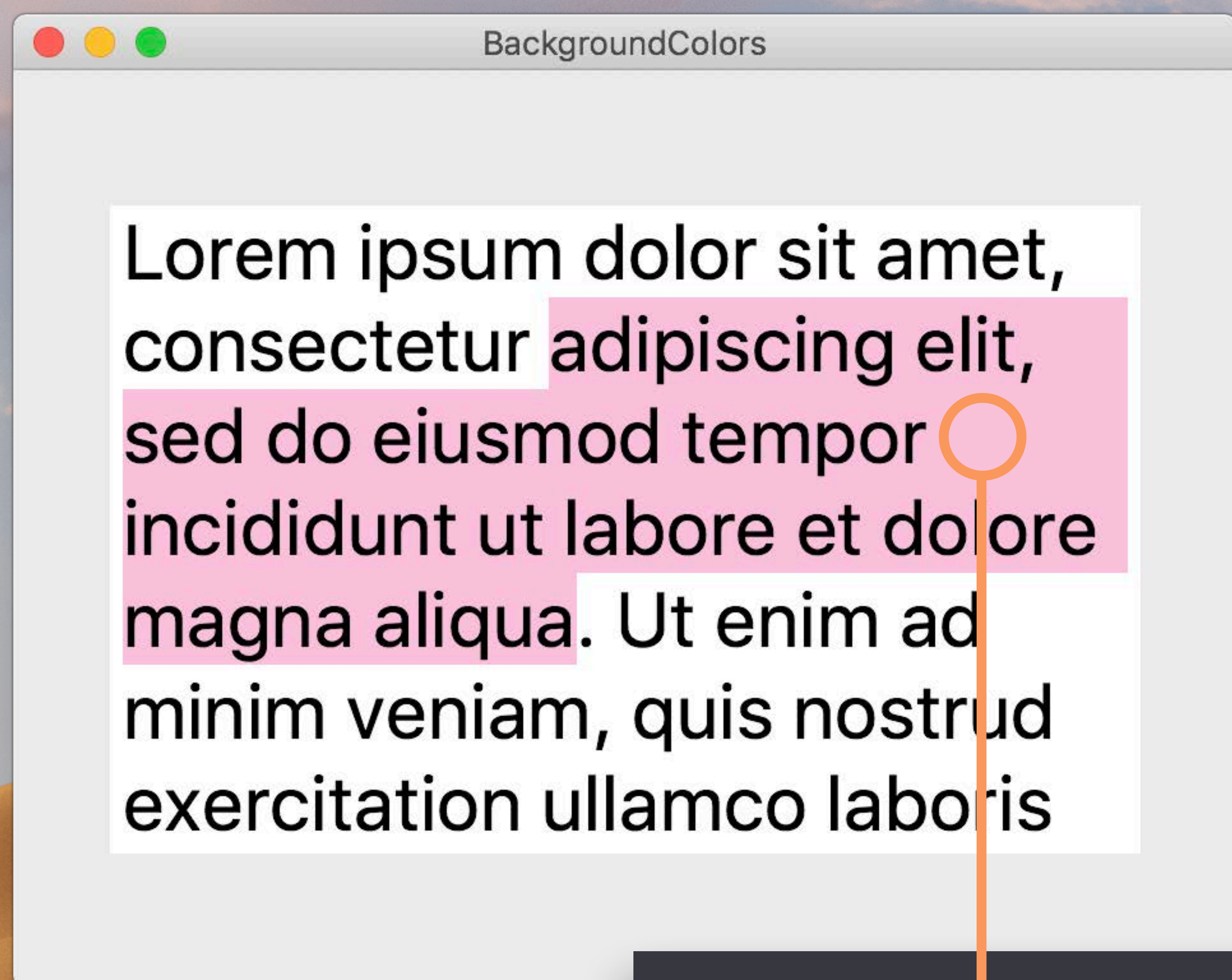




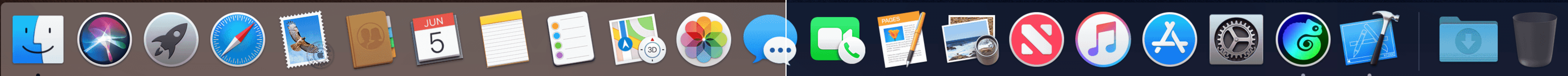
textColor  
textBackgroundColor  
selectedTextColor  
selectedTextBackgroundColor



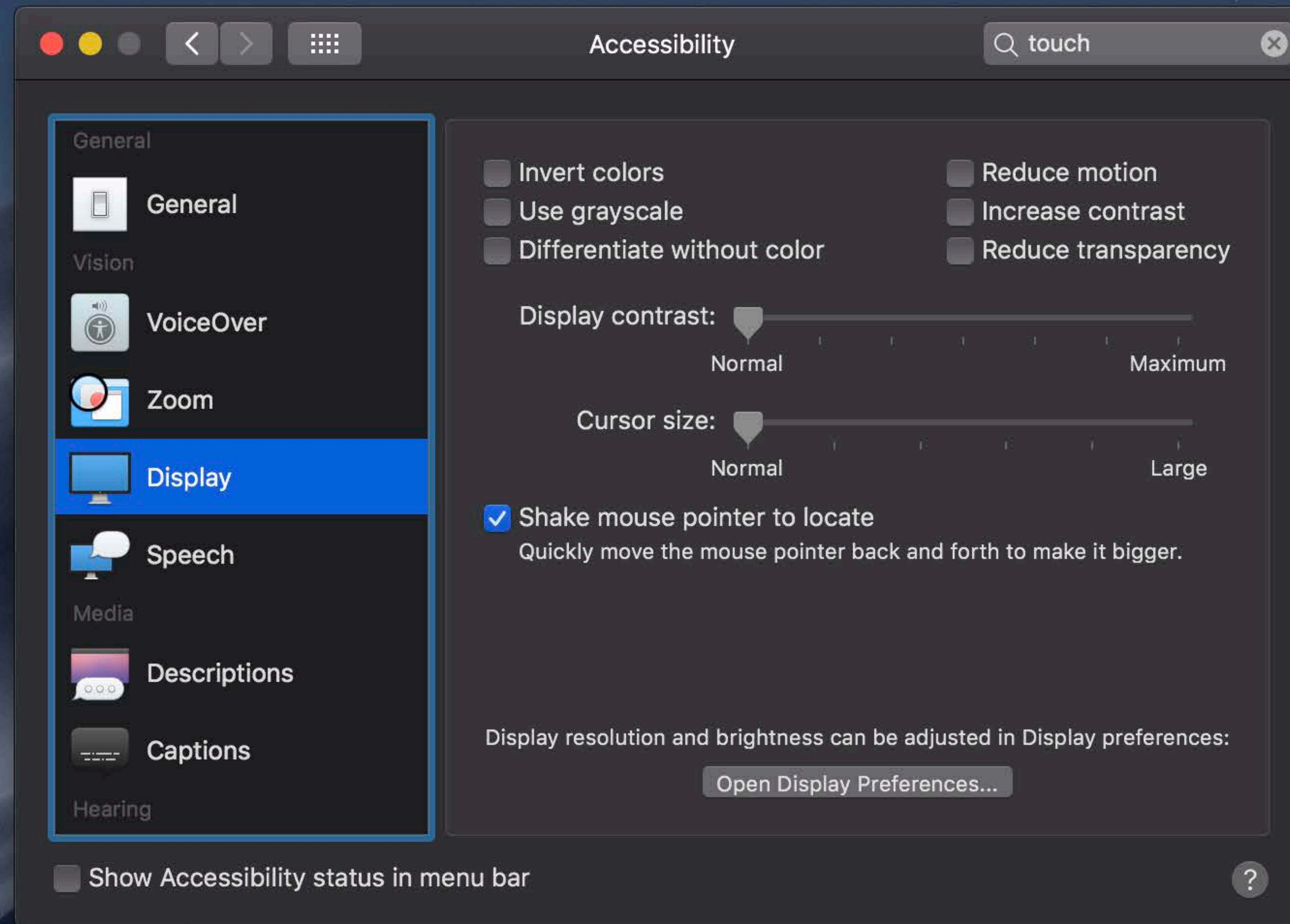




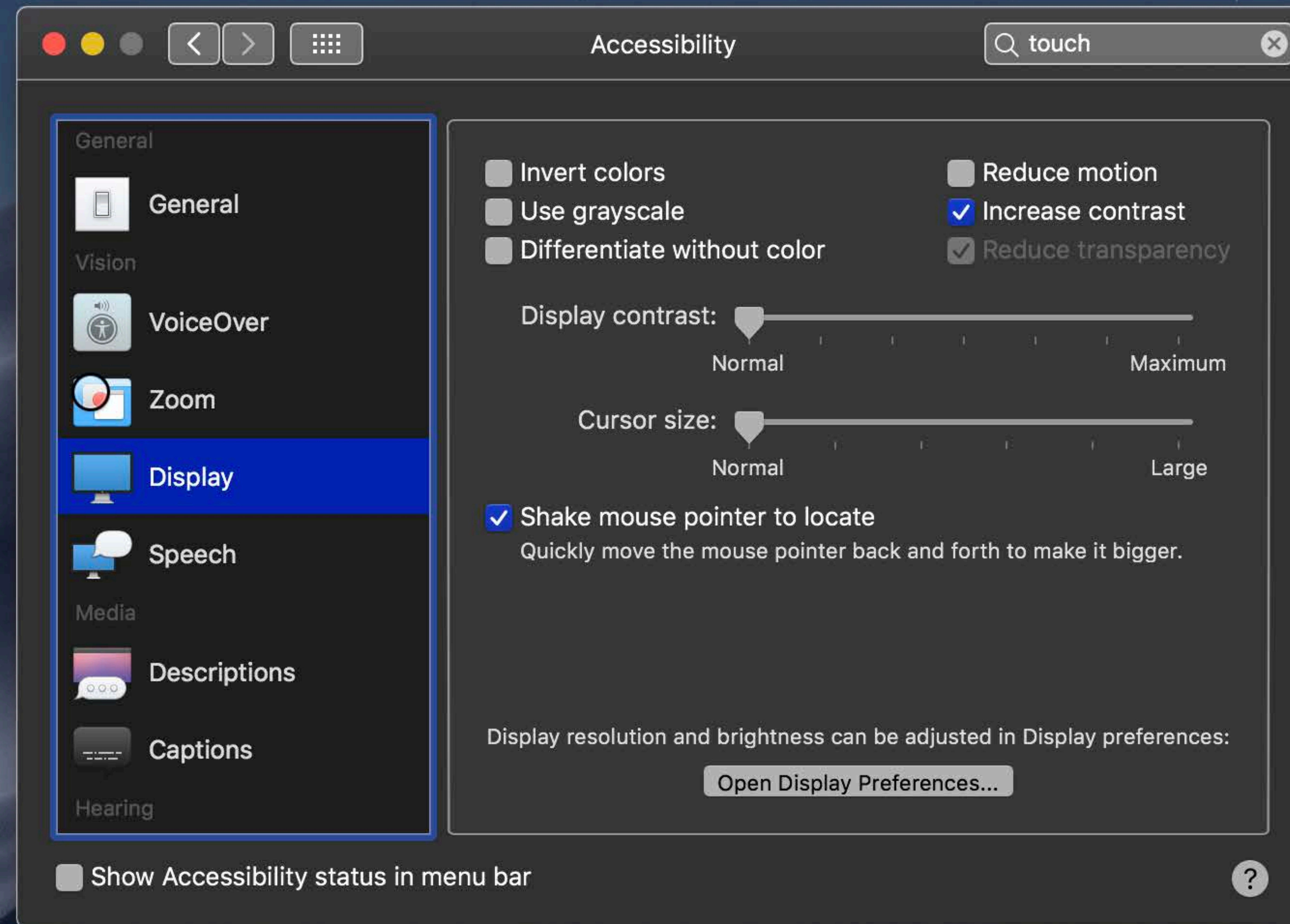
textColor  
textBackgroundColor  
selectedTextColor  
selectedTextBackgroundColor



# Accessibility

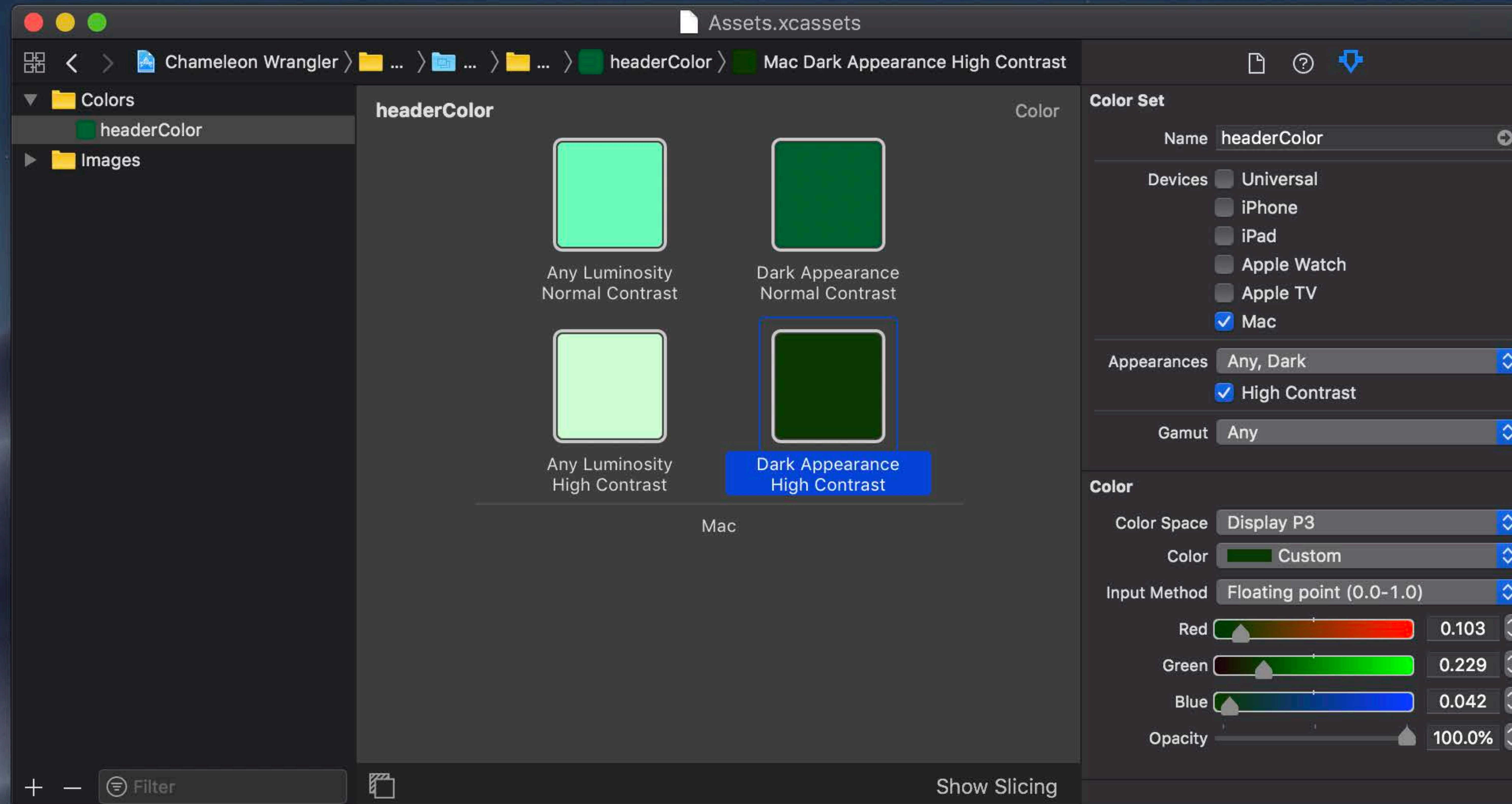


# Accessibility



# Asset Catalog Editor in Xcode

Assets.xcassets



# Asset Catalog Editor in Xcode

Assets.xcassets



Devices  Universal  
 iPhone  
 iPad  
 Apple Watch  
 Apple TV  
 Mac

Appearances  Any, Dark  
 High Contrast

Gamut  Any

**Color**

Color Space  Display P3

Color  Custom

Input Method  Floating point (0.0-1.0)

Red  0.103

# Asset Catalog Editor in Xcode

Assets.xcassets



Chameleons

- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

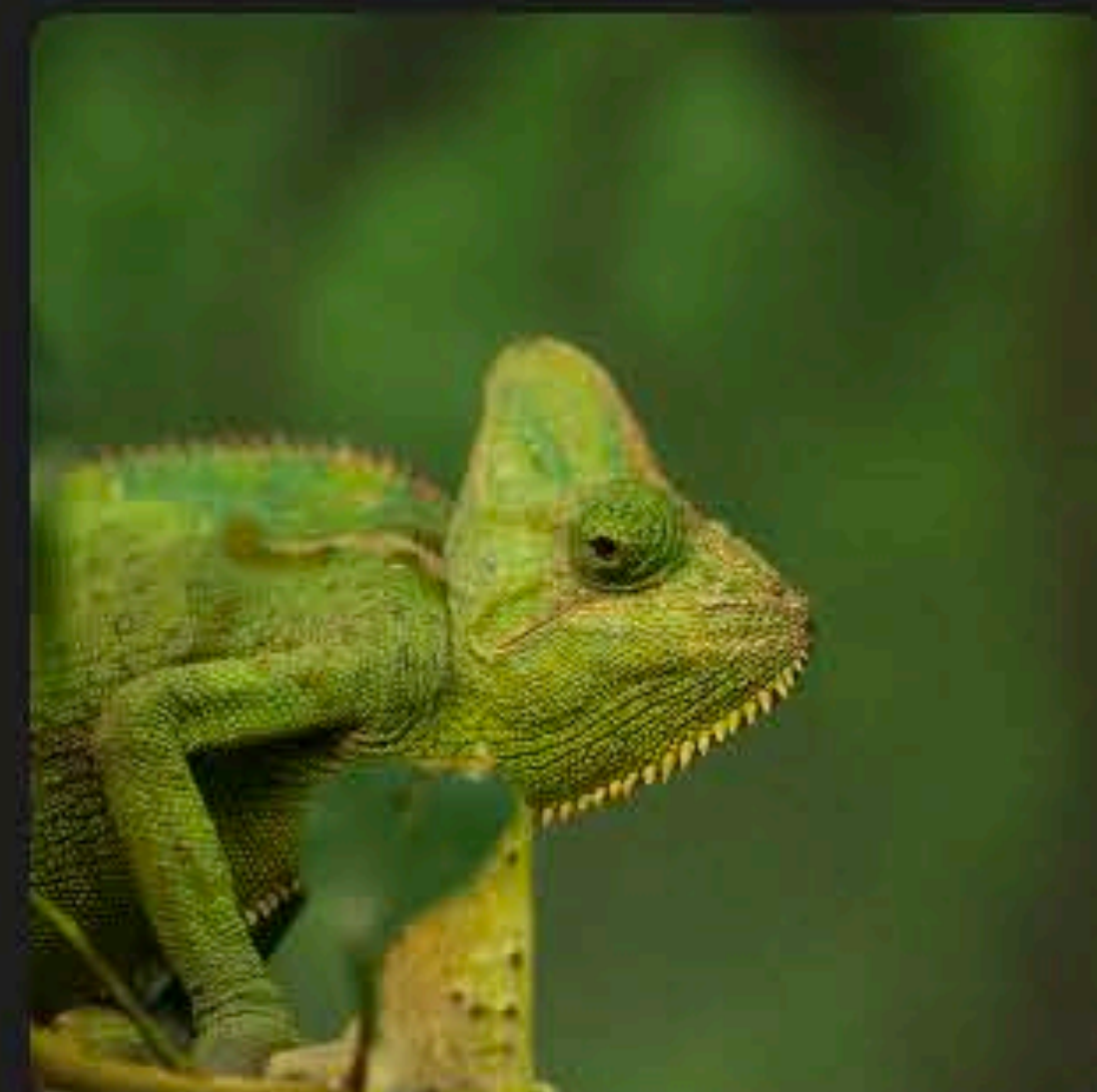
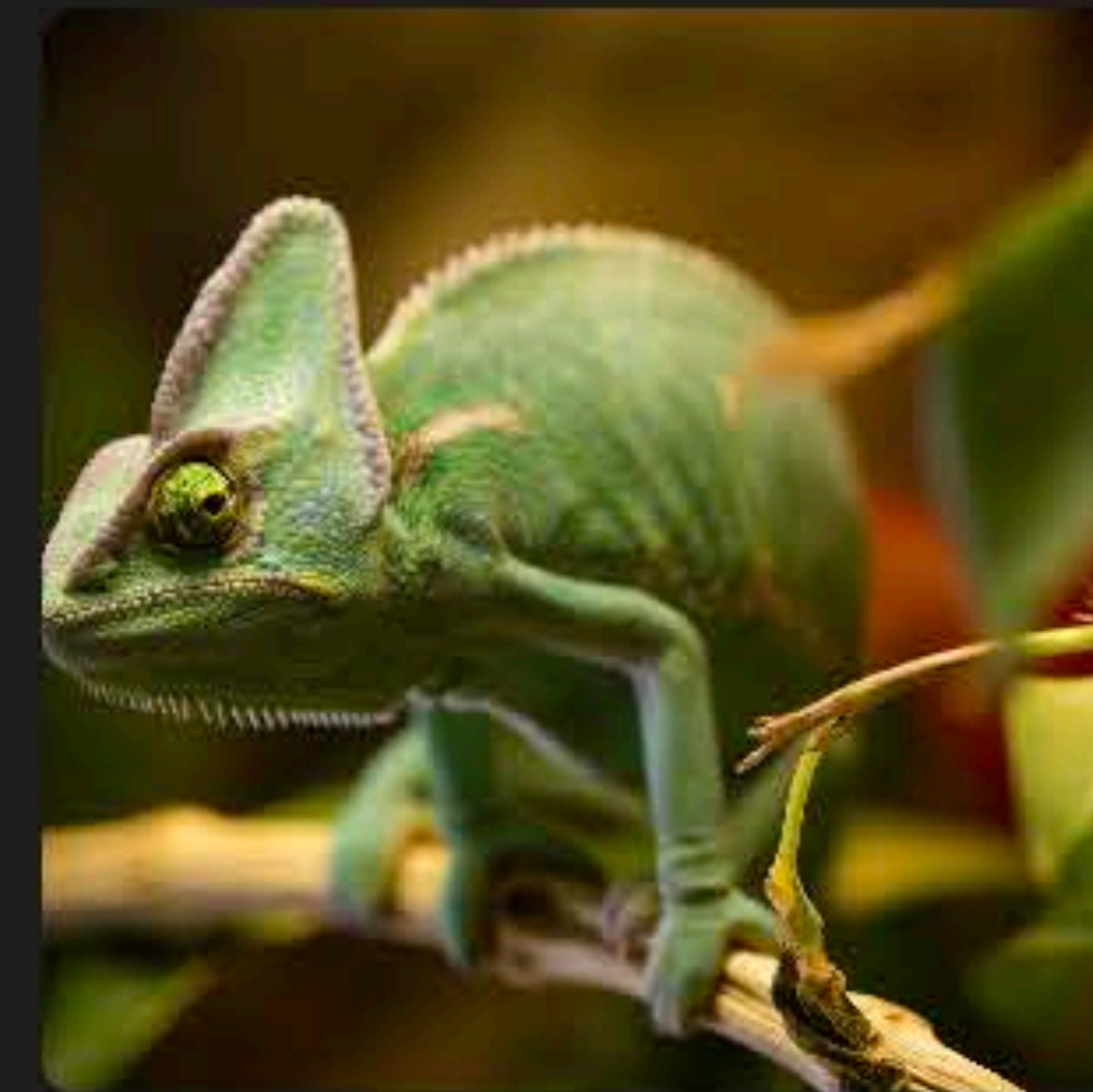
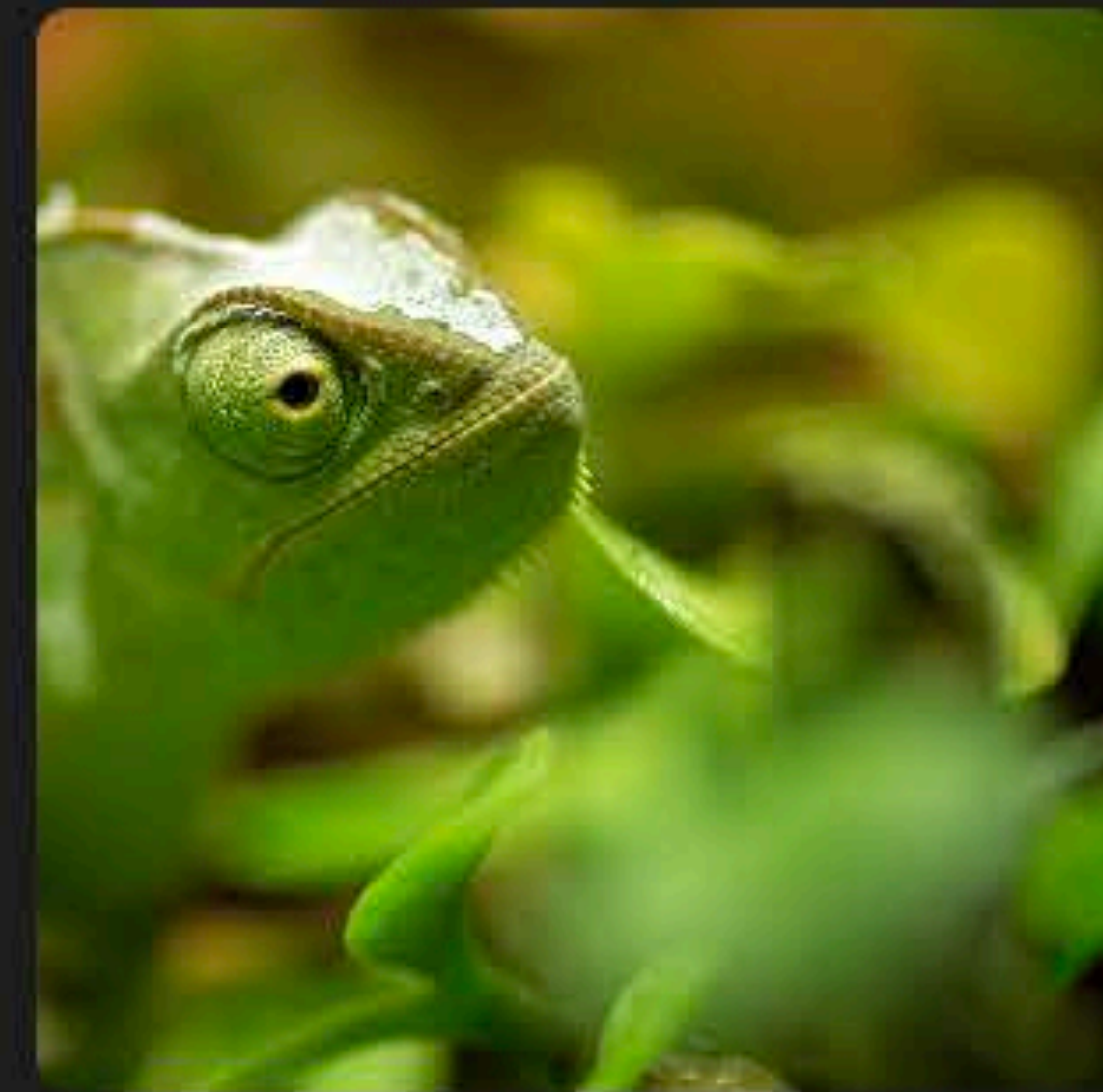
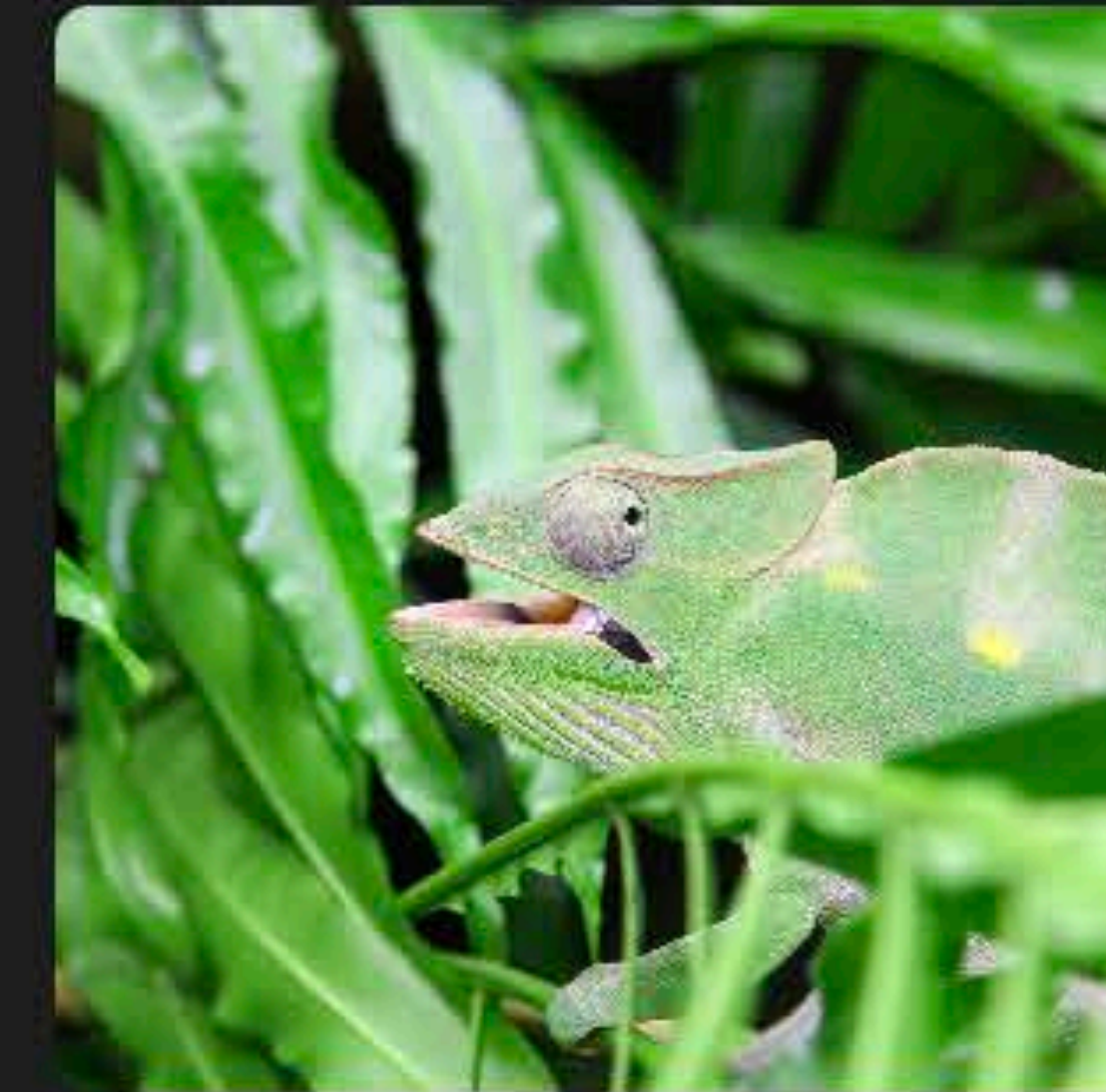
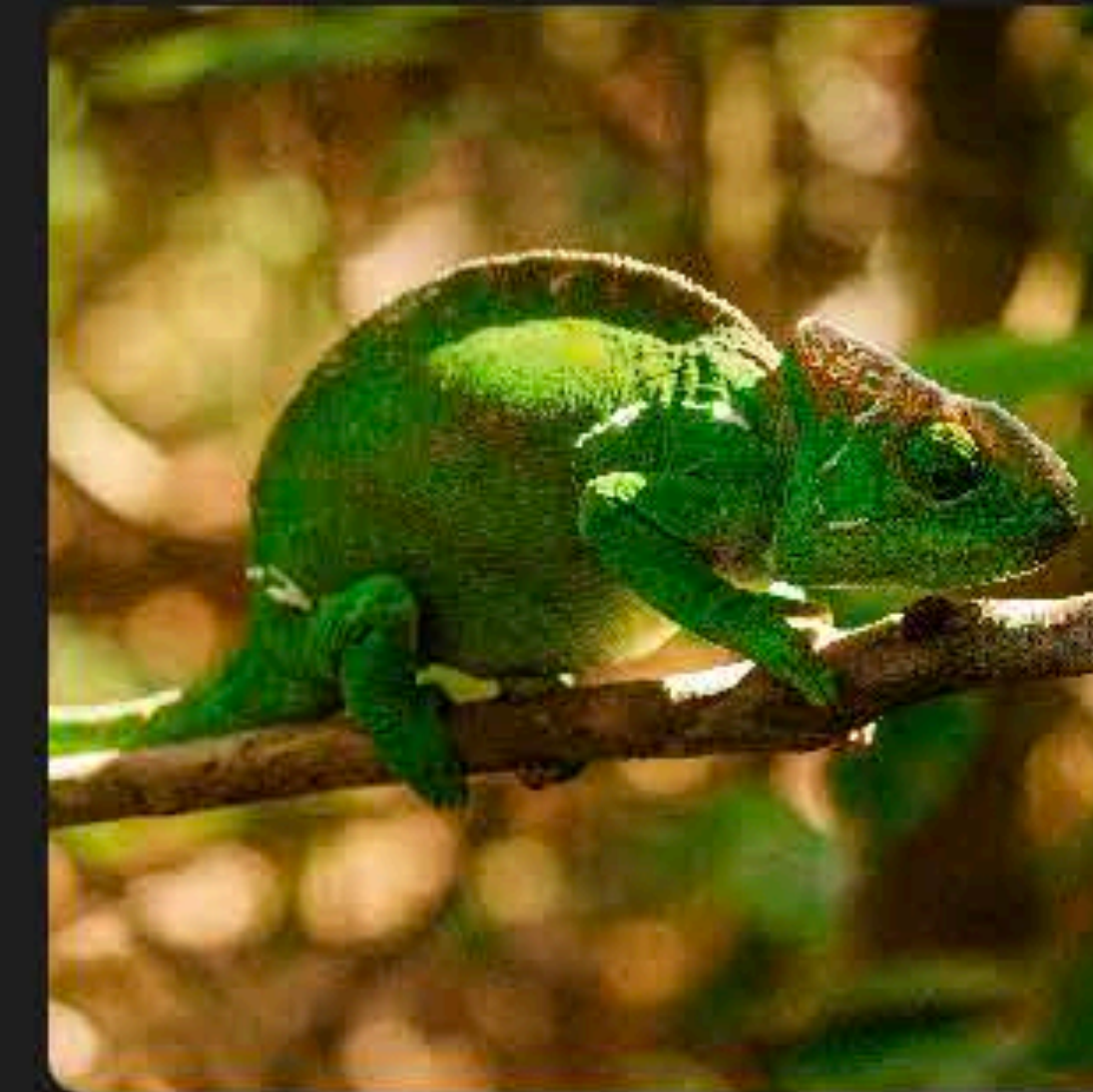


**Chloe**  
2 years old

Photos

Vitals

Notes



Chameleons

- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

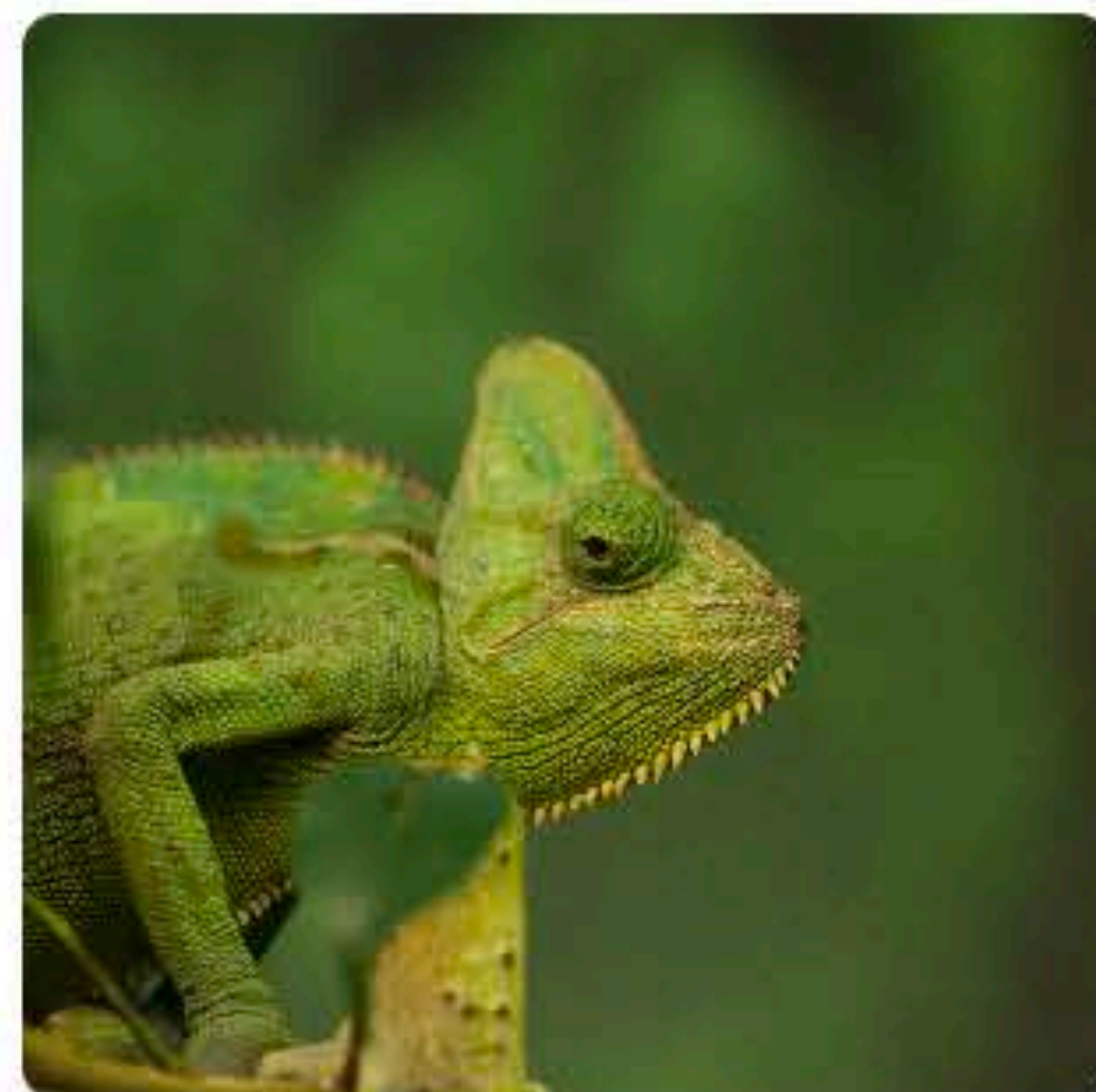
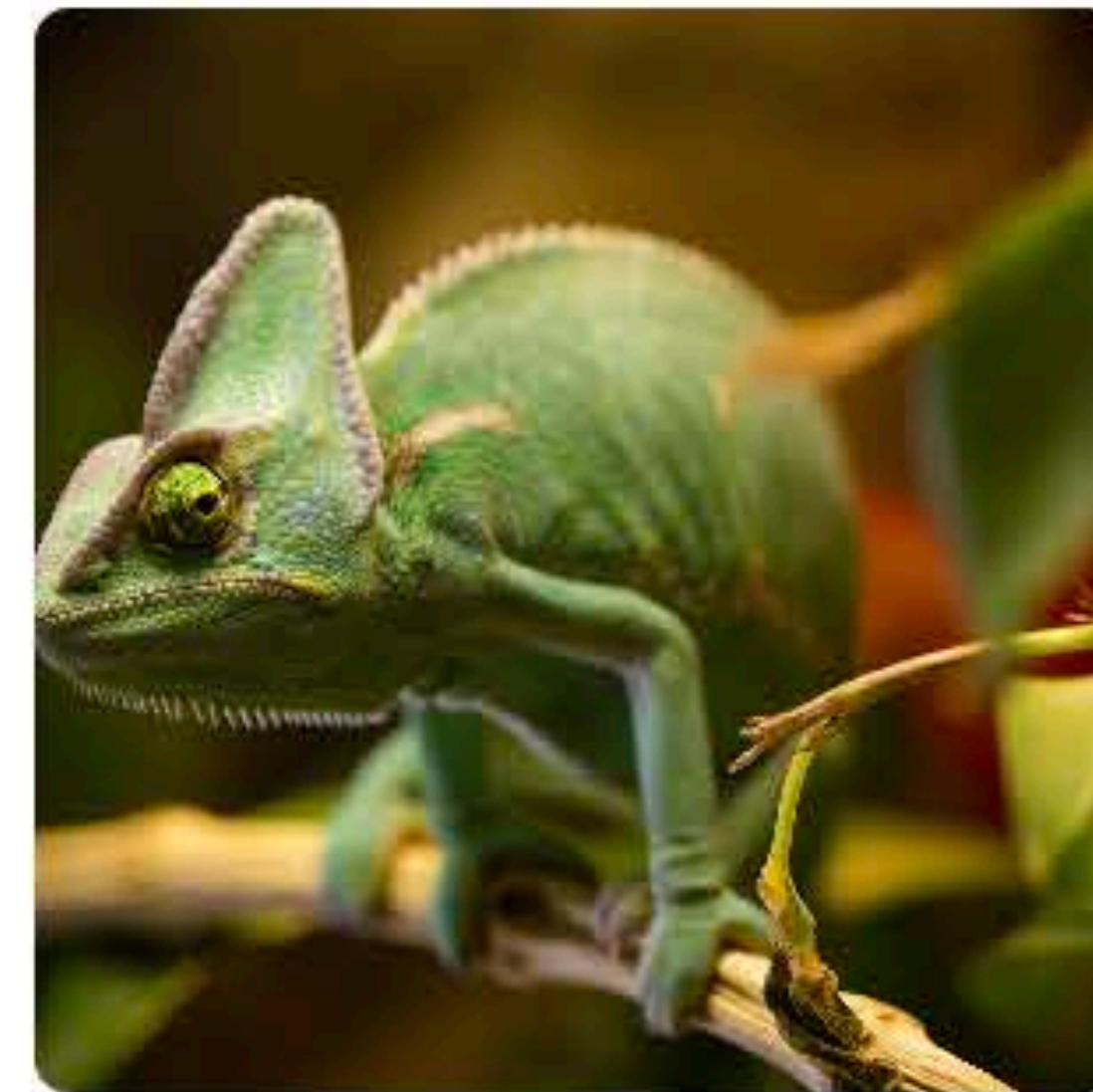
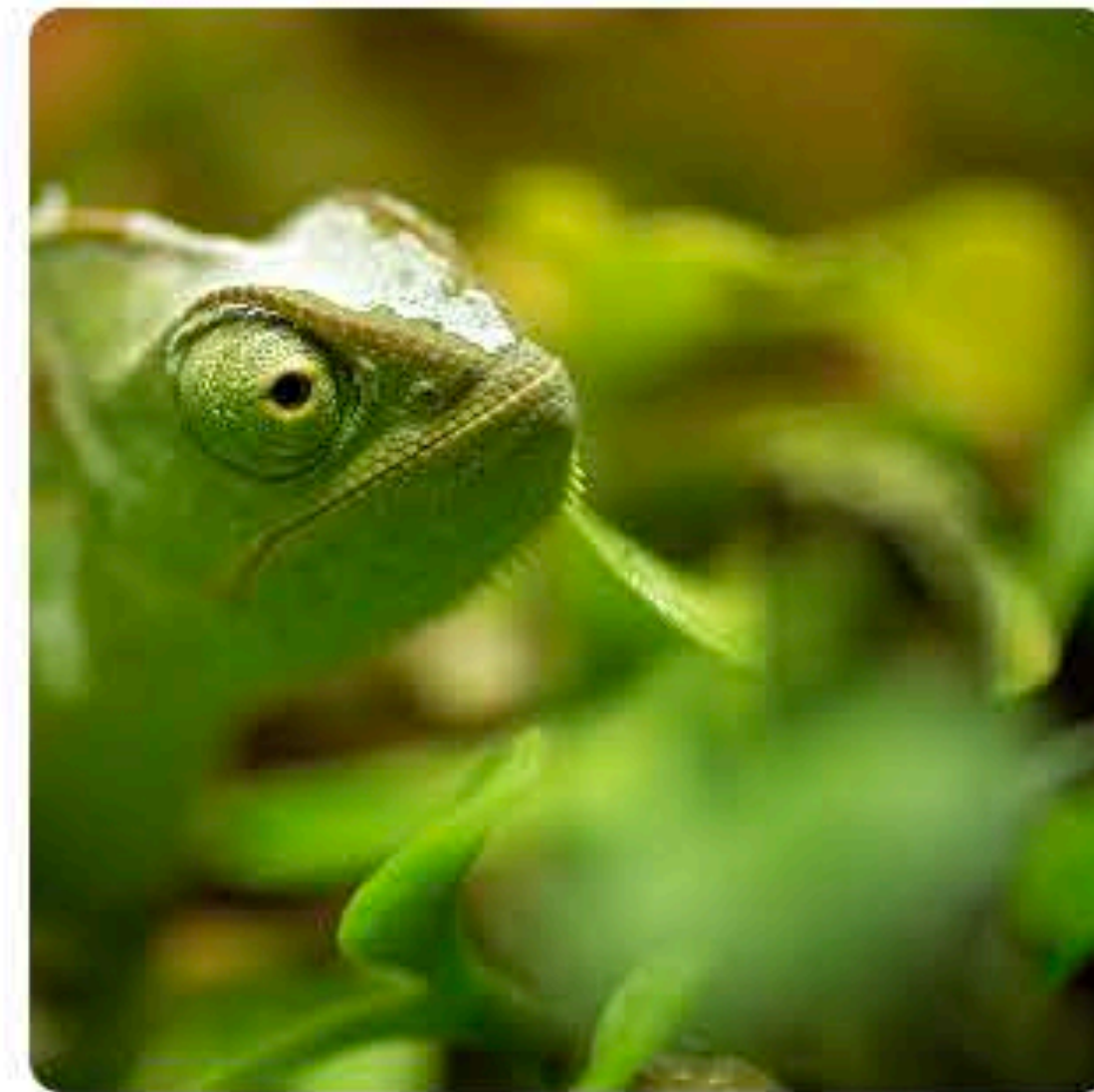
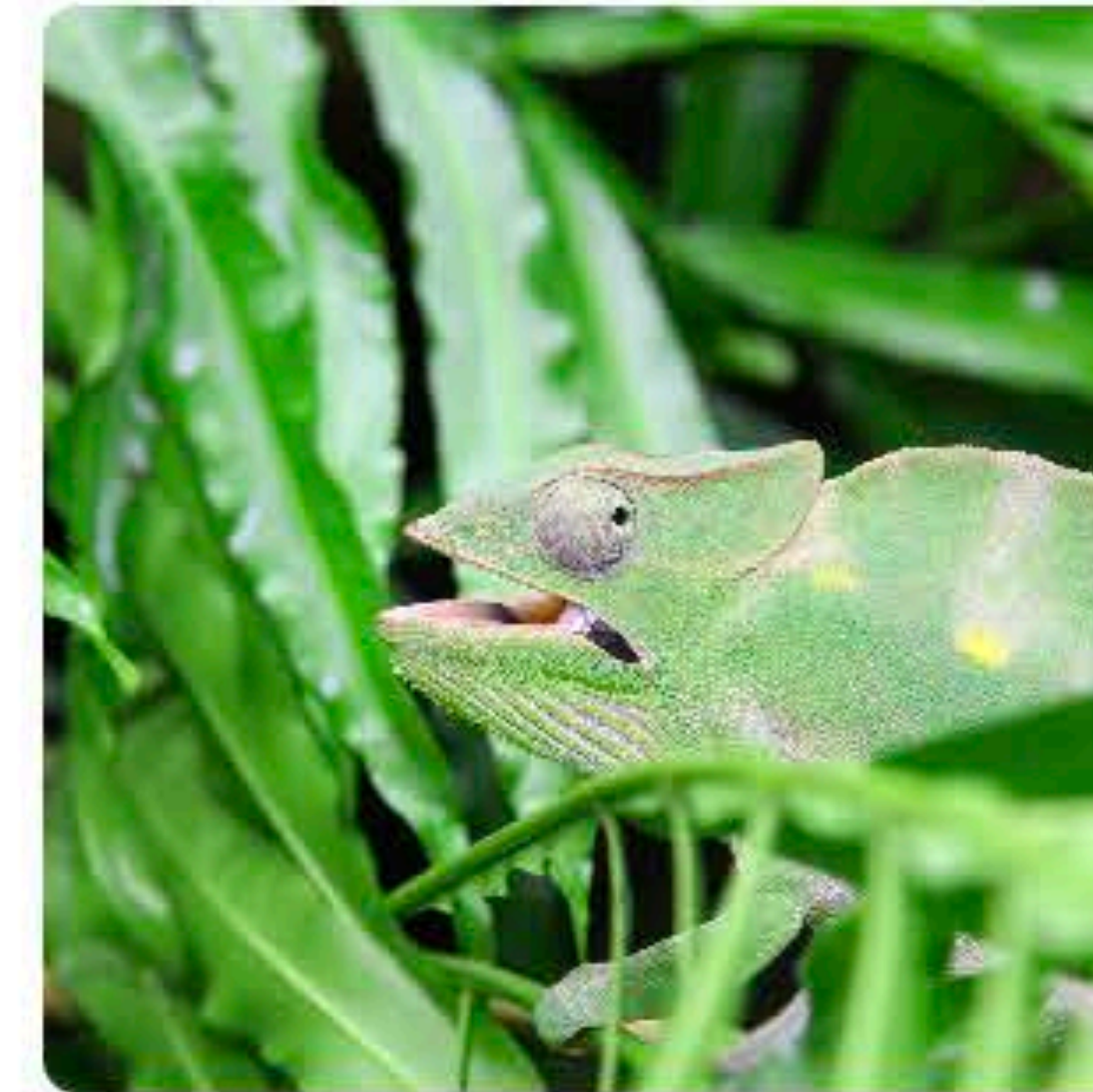
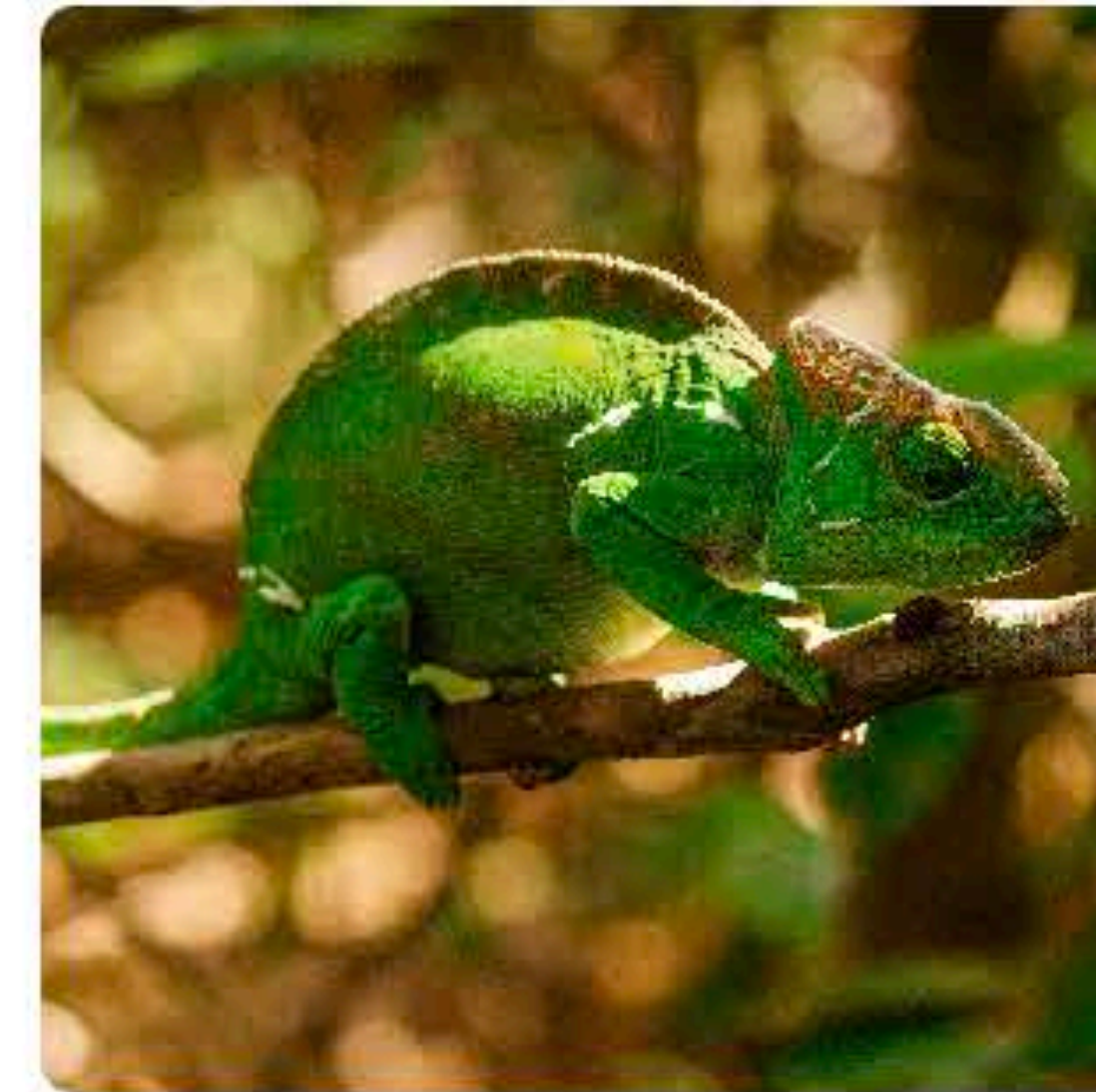


**Chloe**  
2 years old

Photos

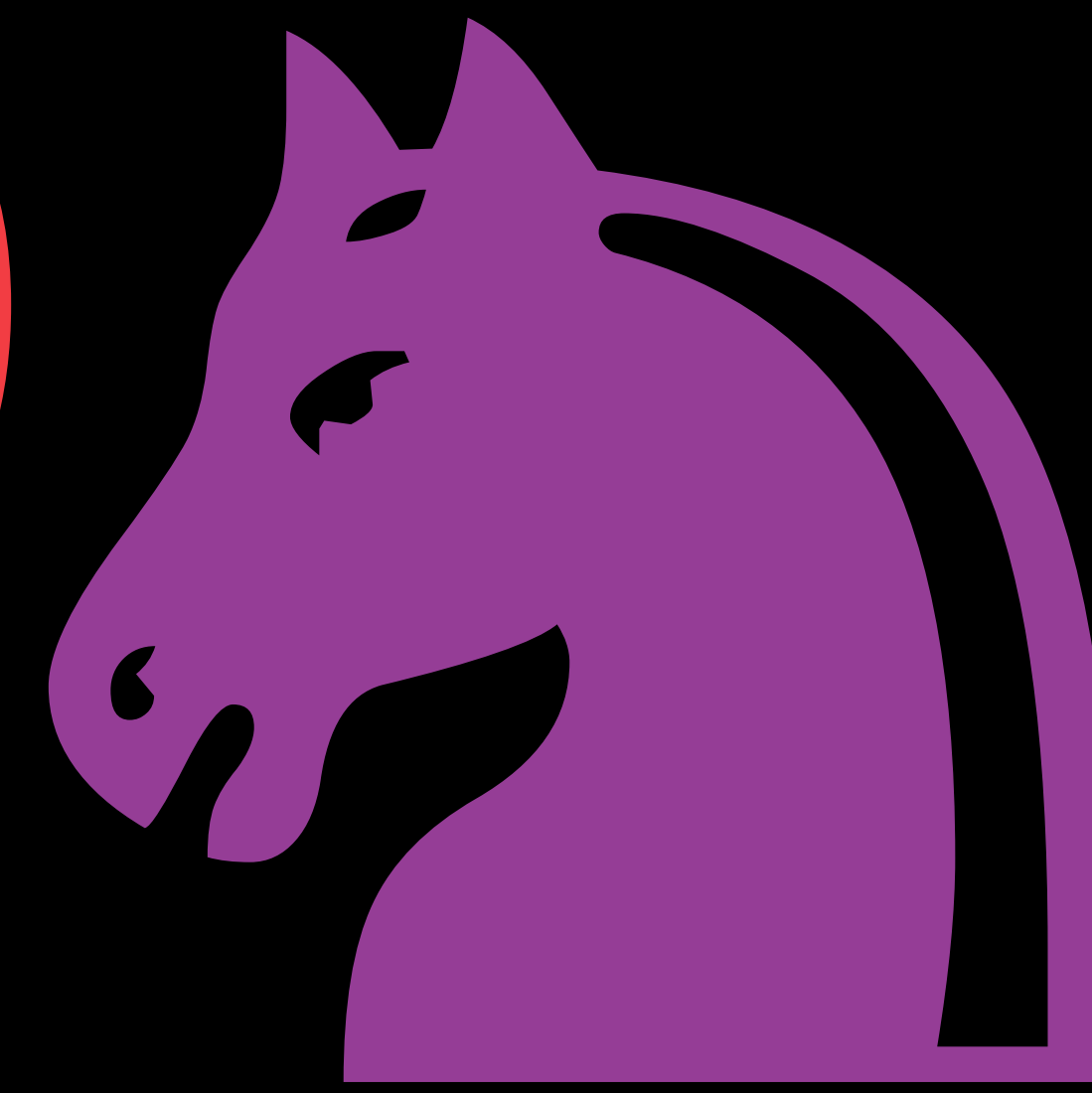
Vitals

Notes





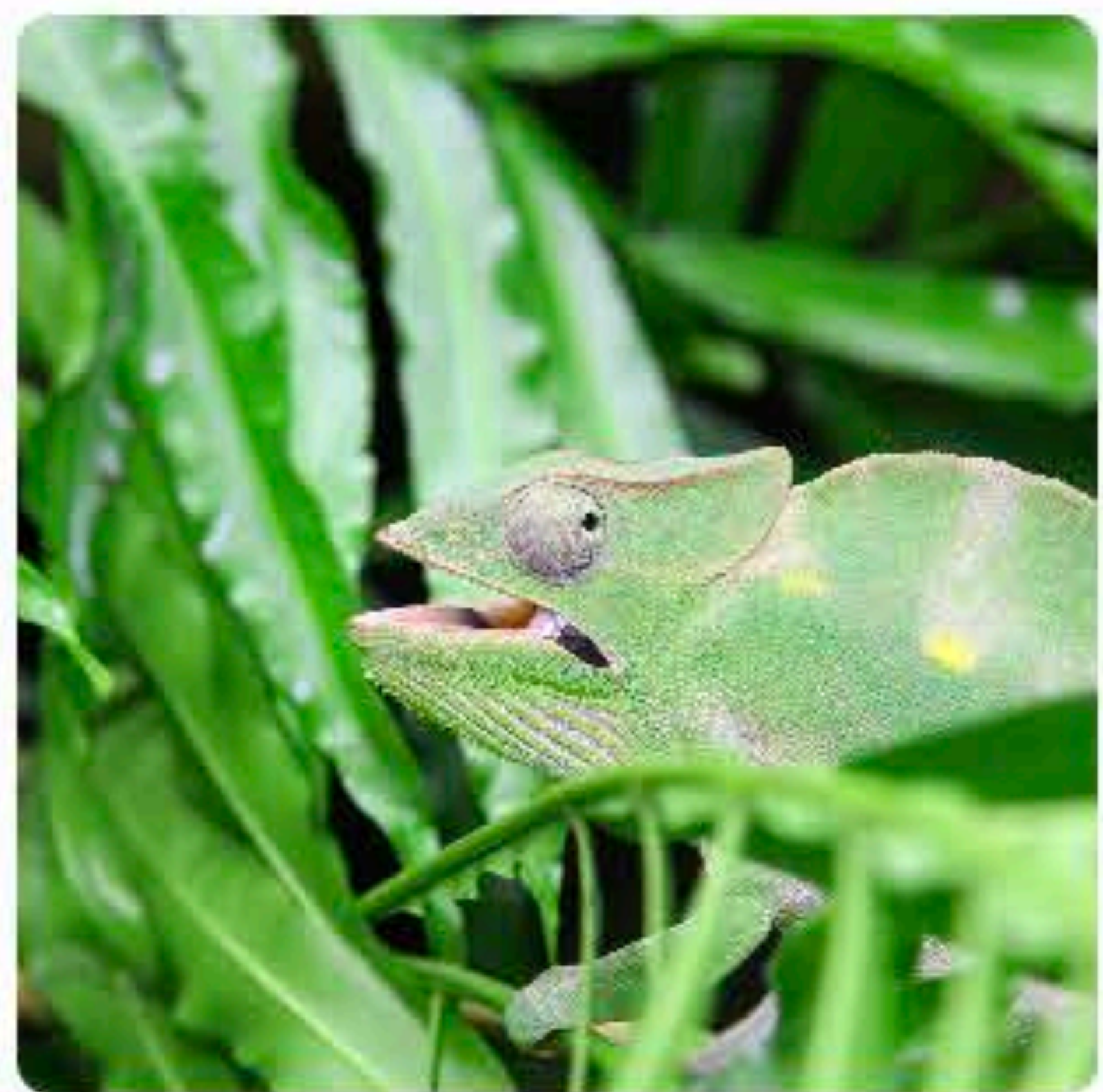
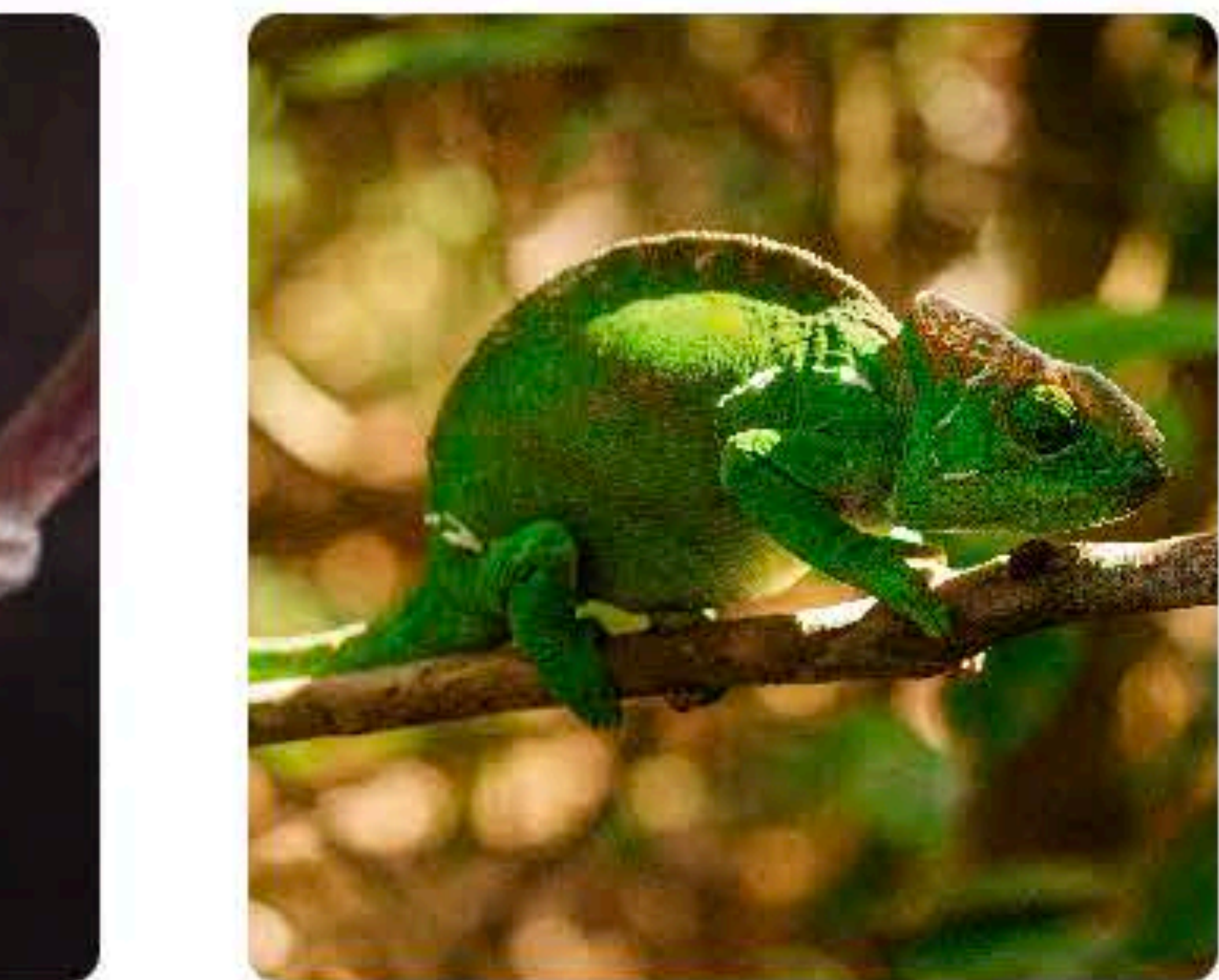
**Images**



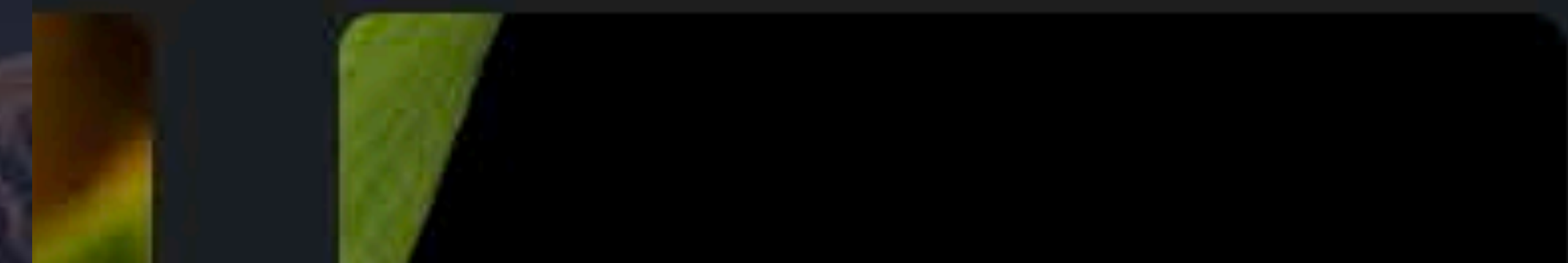
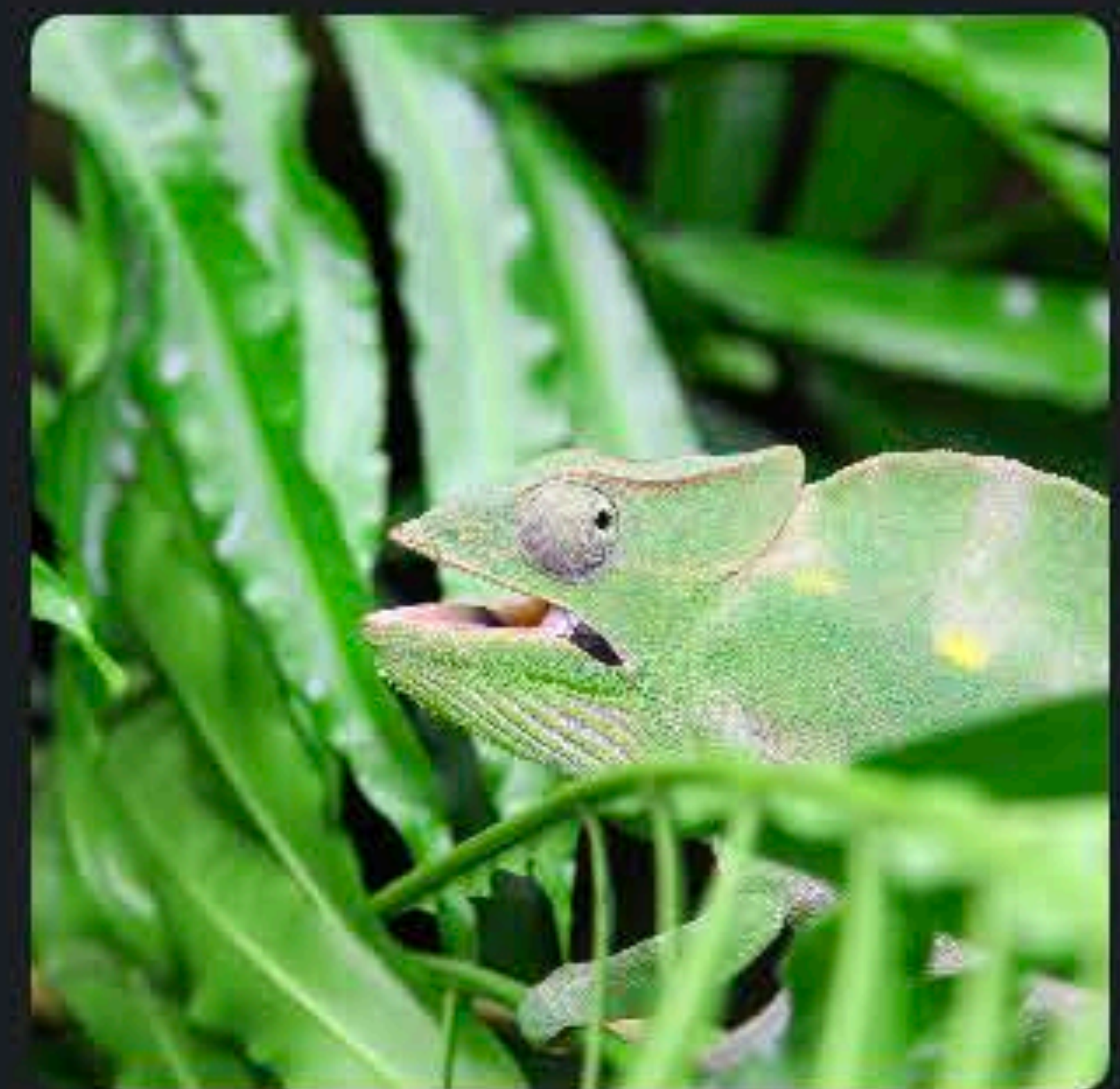
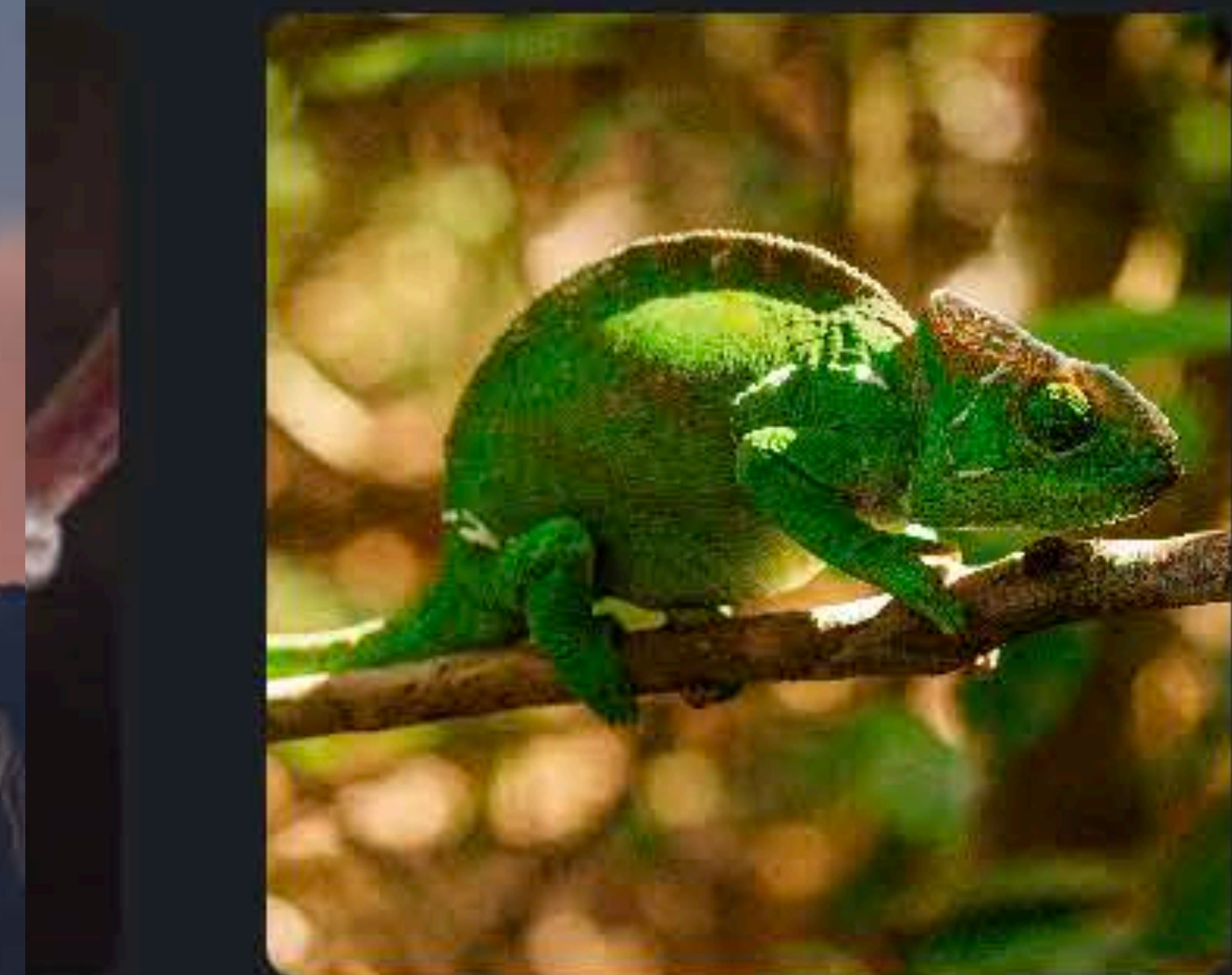
Light-themed interface with a light green header bar. The top right corner contains three icons: a colorful swirl, a smiley face, and a speech bubble. Below the header, two tabs labeled "Vitals" and "Notes" are visible. The main content area is white and contains a 2x3 grid of six square images of chameleons in various poses and colors.

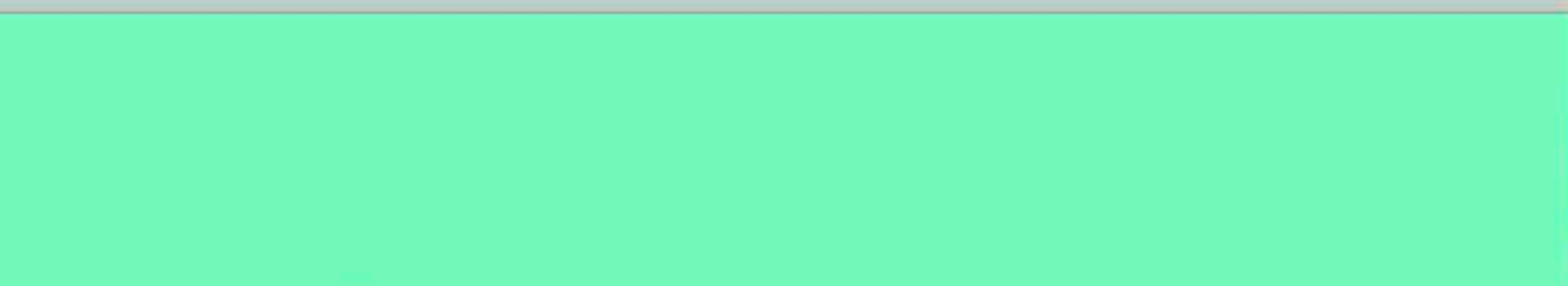
Dark-themed interface with a dark green header bar. The top right corner contains three icons: a colorful swirl, a smiley face, and a speech bubble. Below the header, two tabs labeled "Vitals" and "Notes" are visible. The main content area is dark gray and contains a 2x3 grid of six square images of chameleons, identical to the light-themed version.

Notes

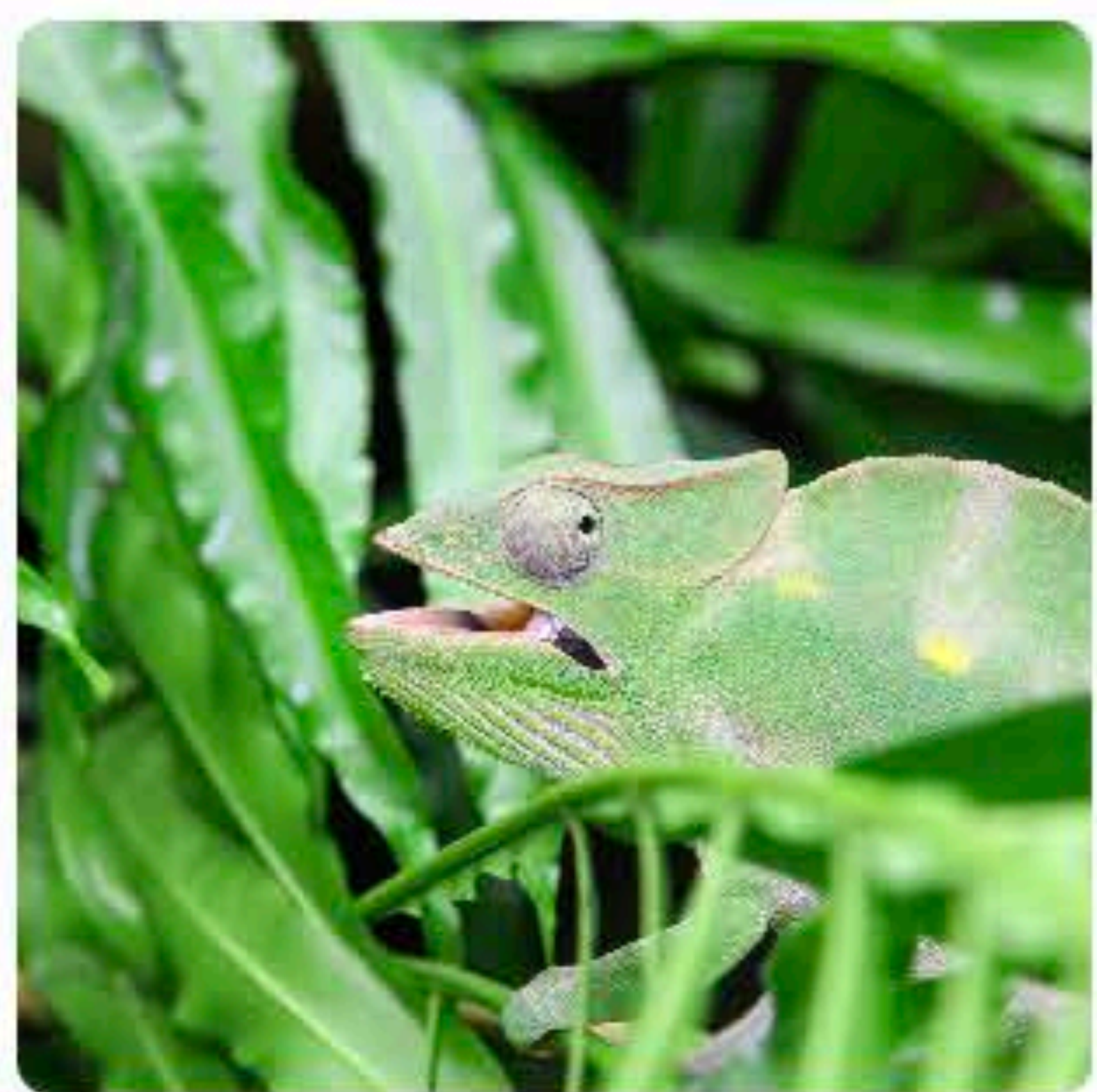


Notes

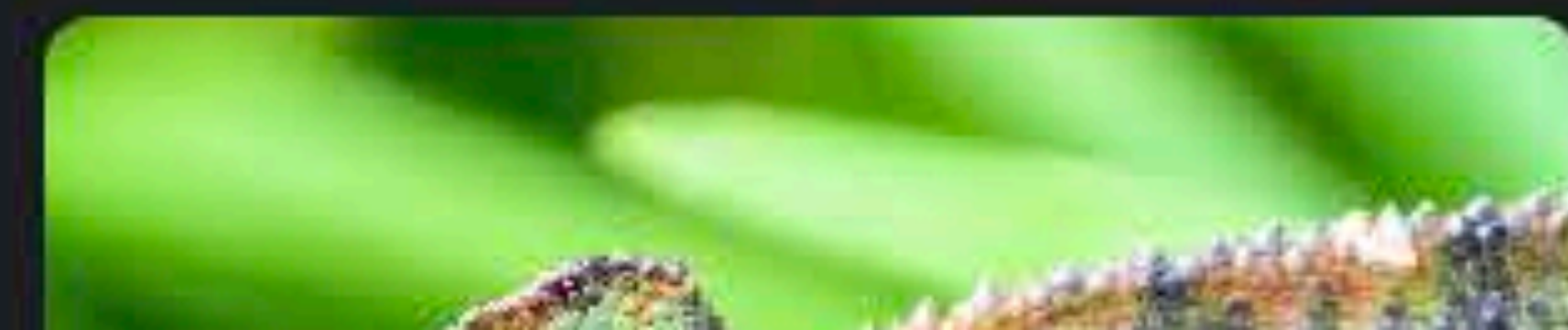
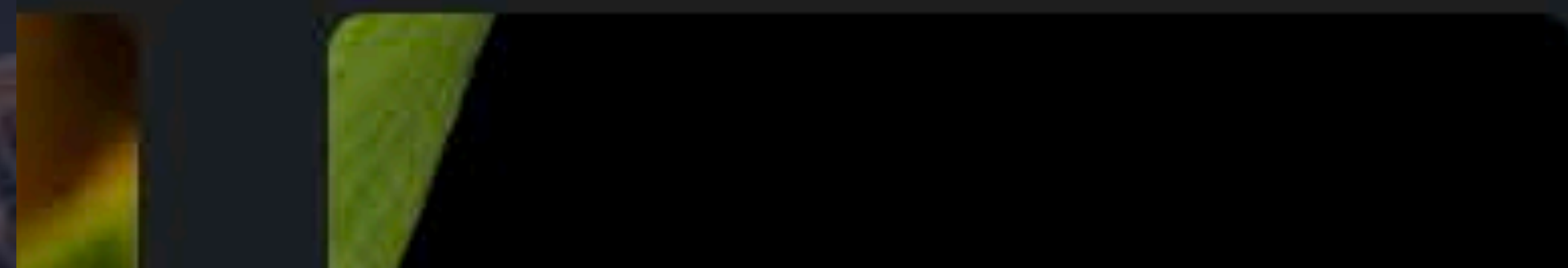
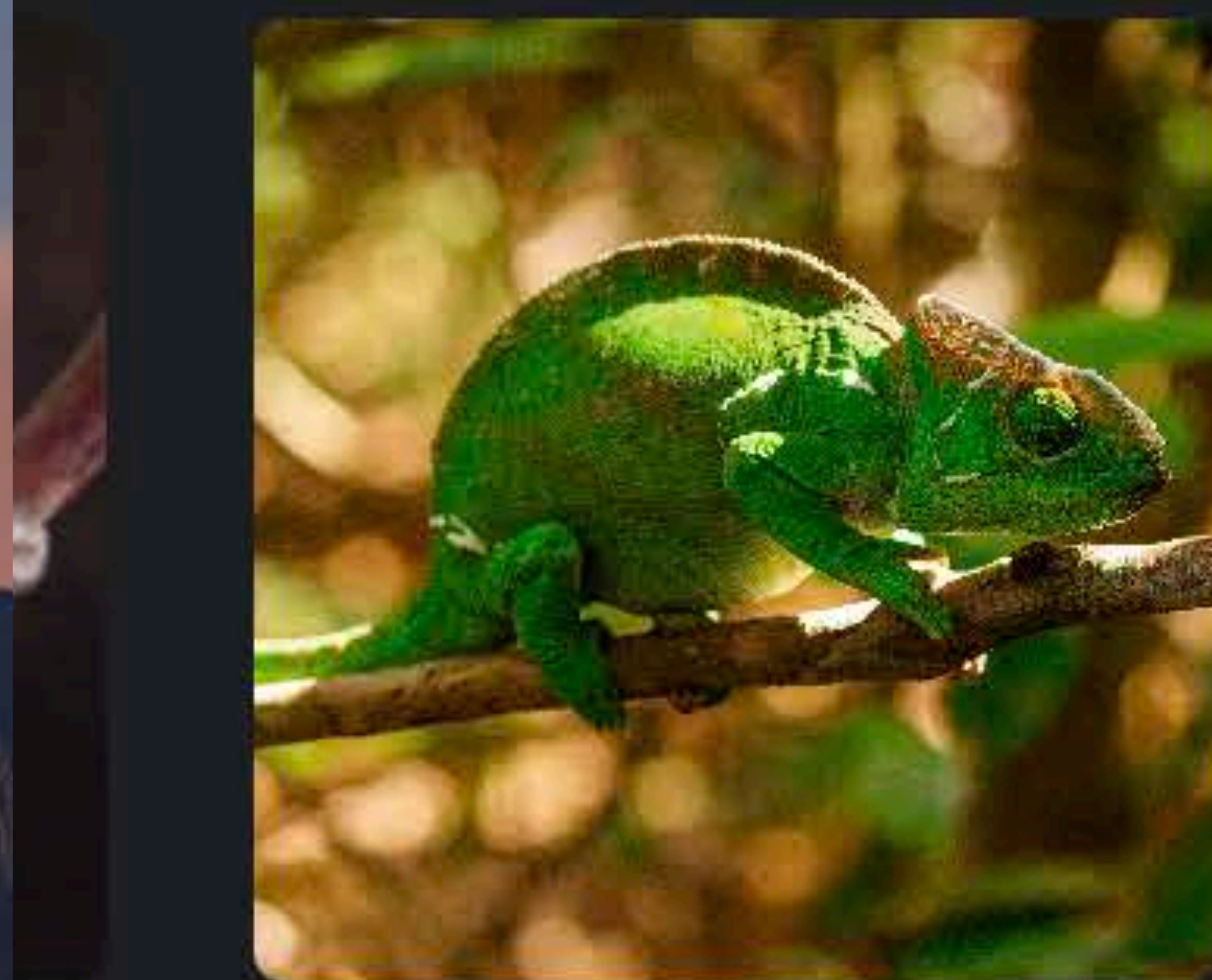




Notes



Notes



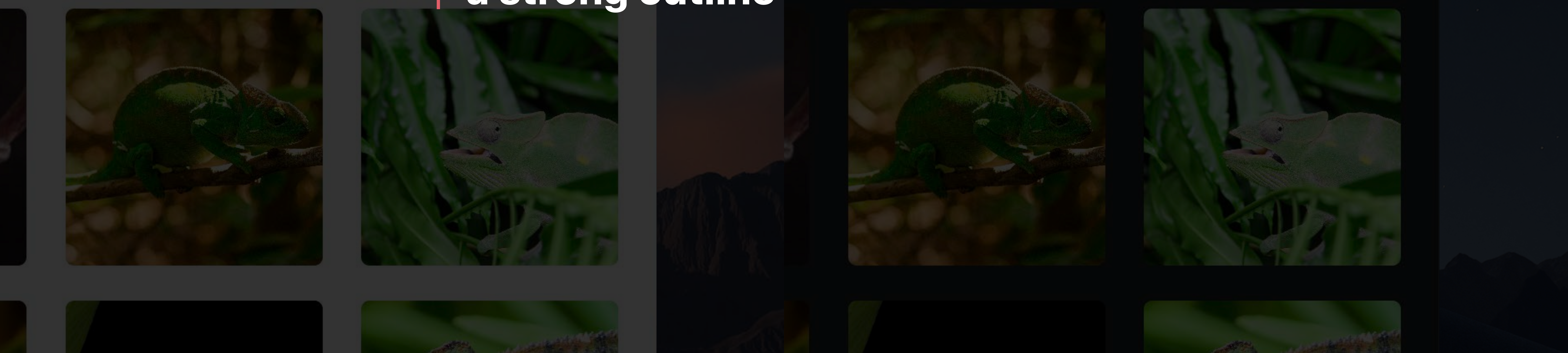


Notes

**Image border provides  
a strong outline**



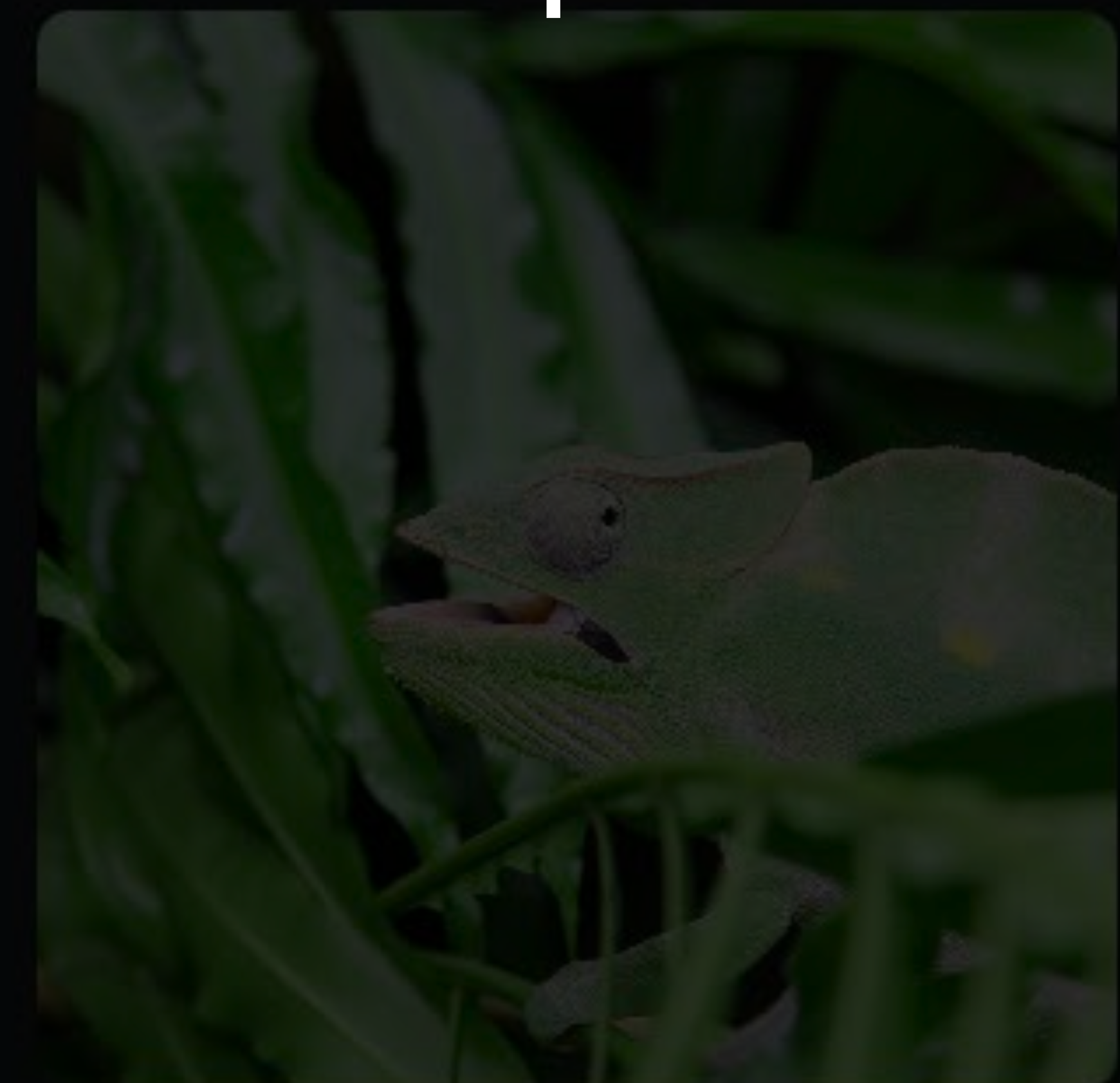
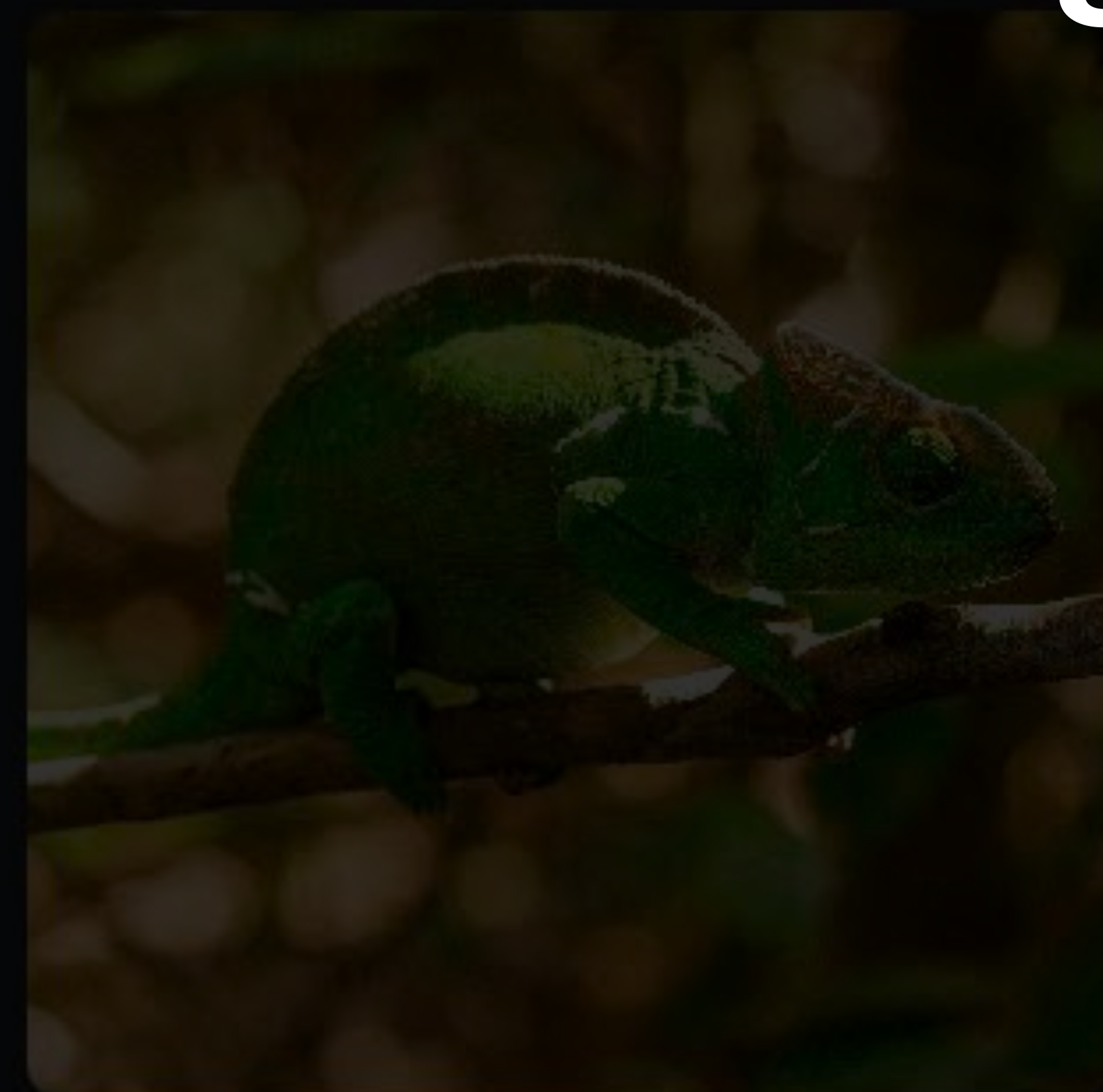
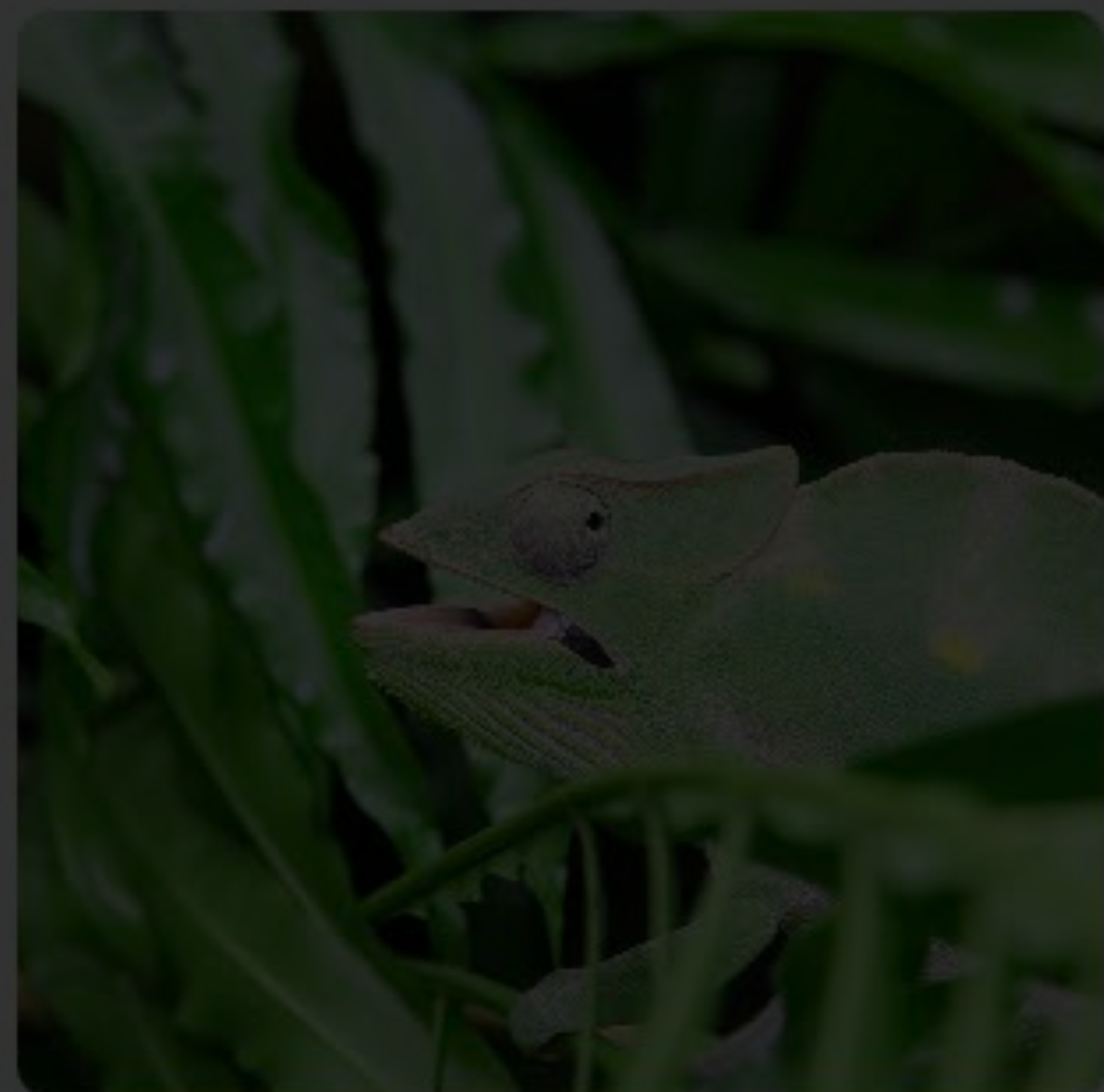
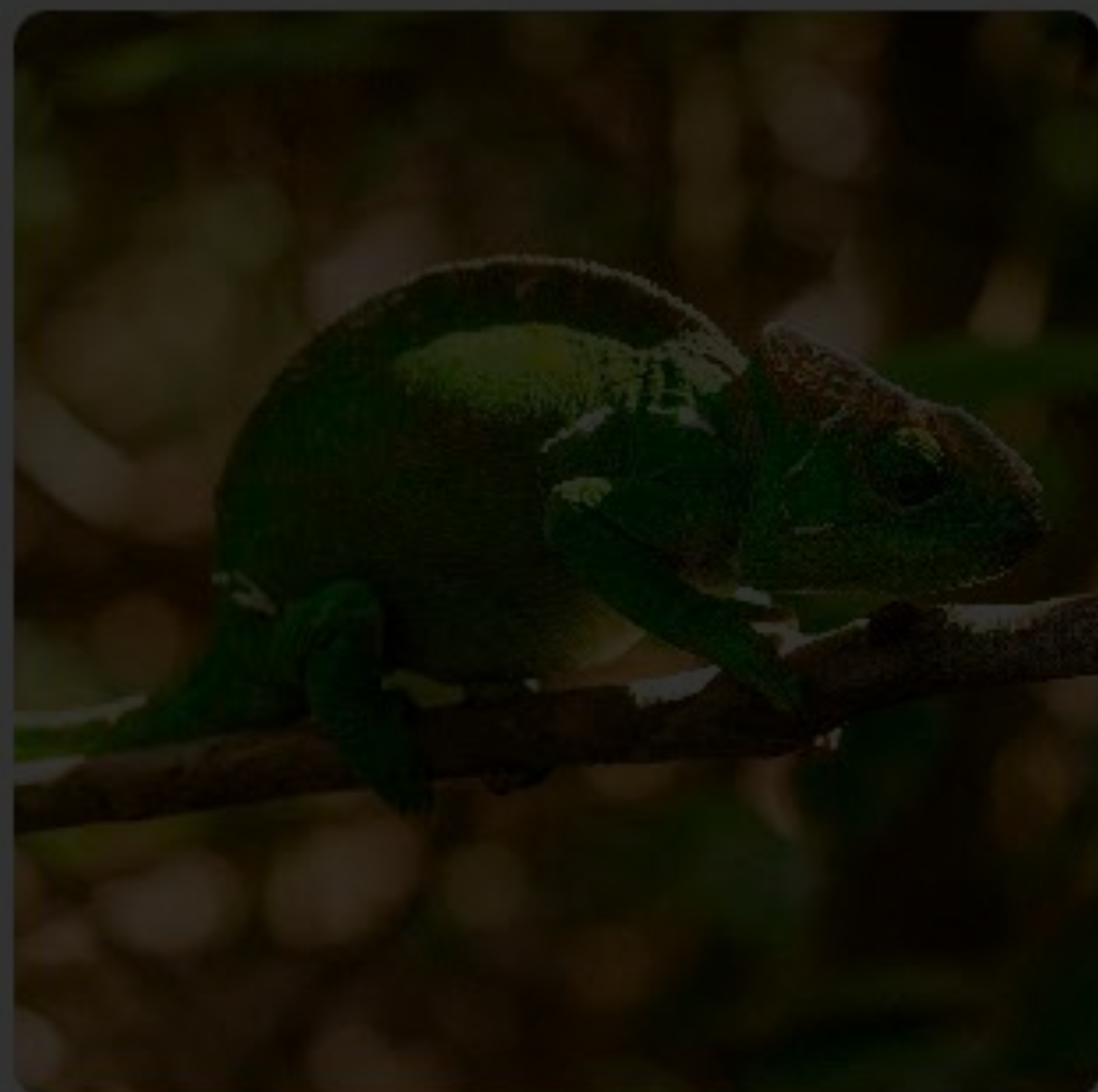
Notes





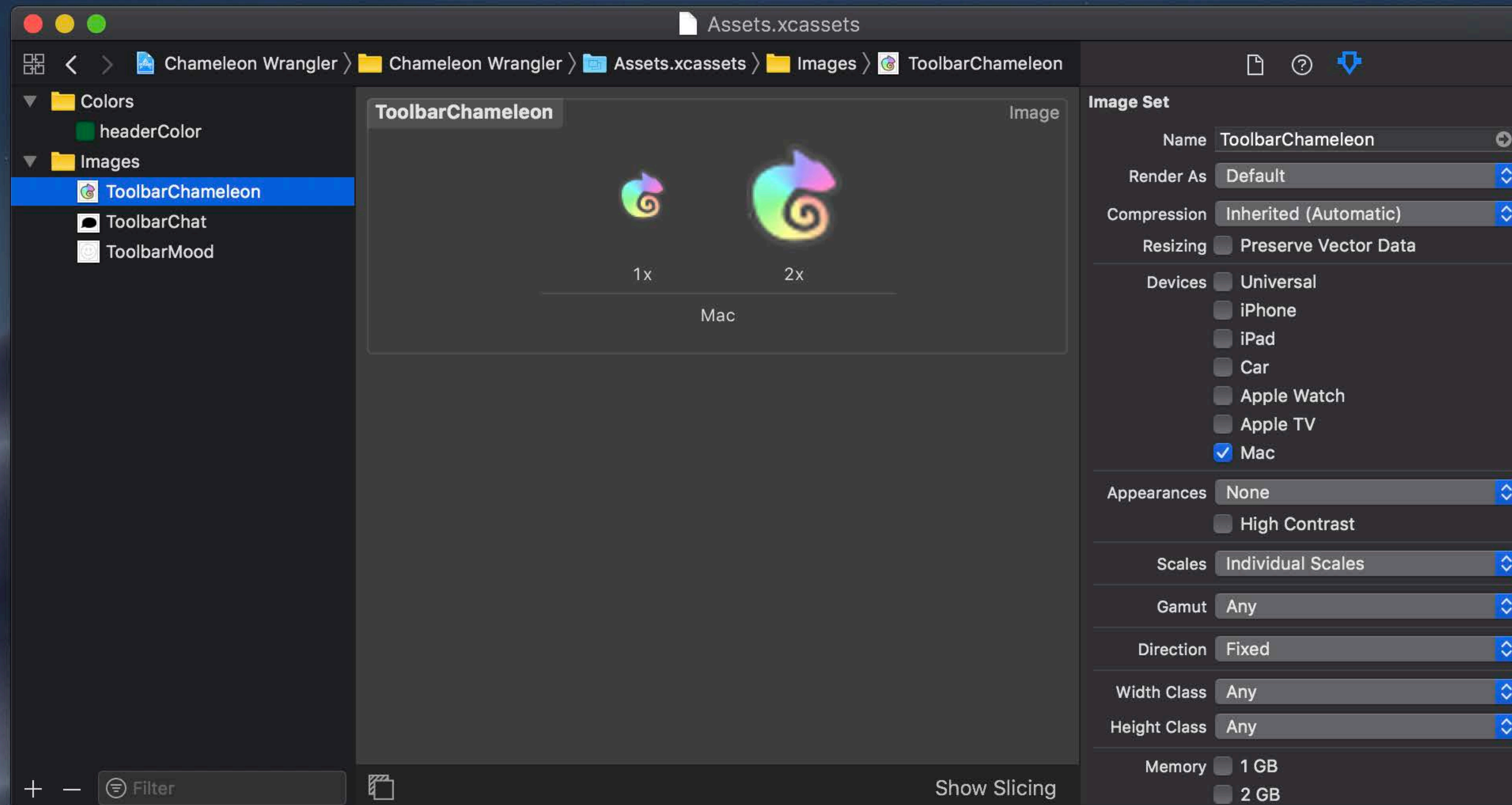
**Image border blends in  
with dark background**

Notes



# Asset Catalog Editor in Xcode

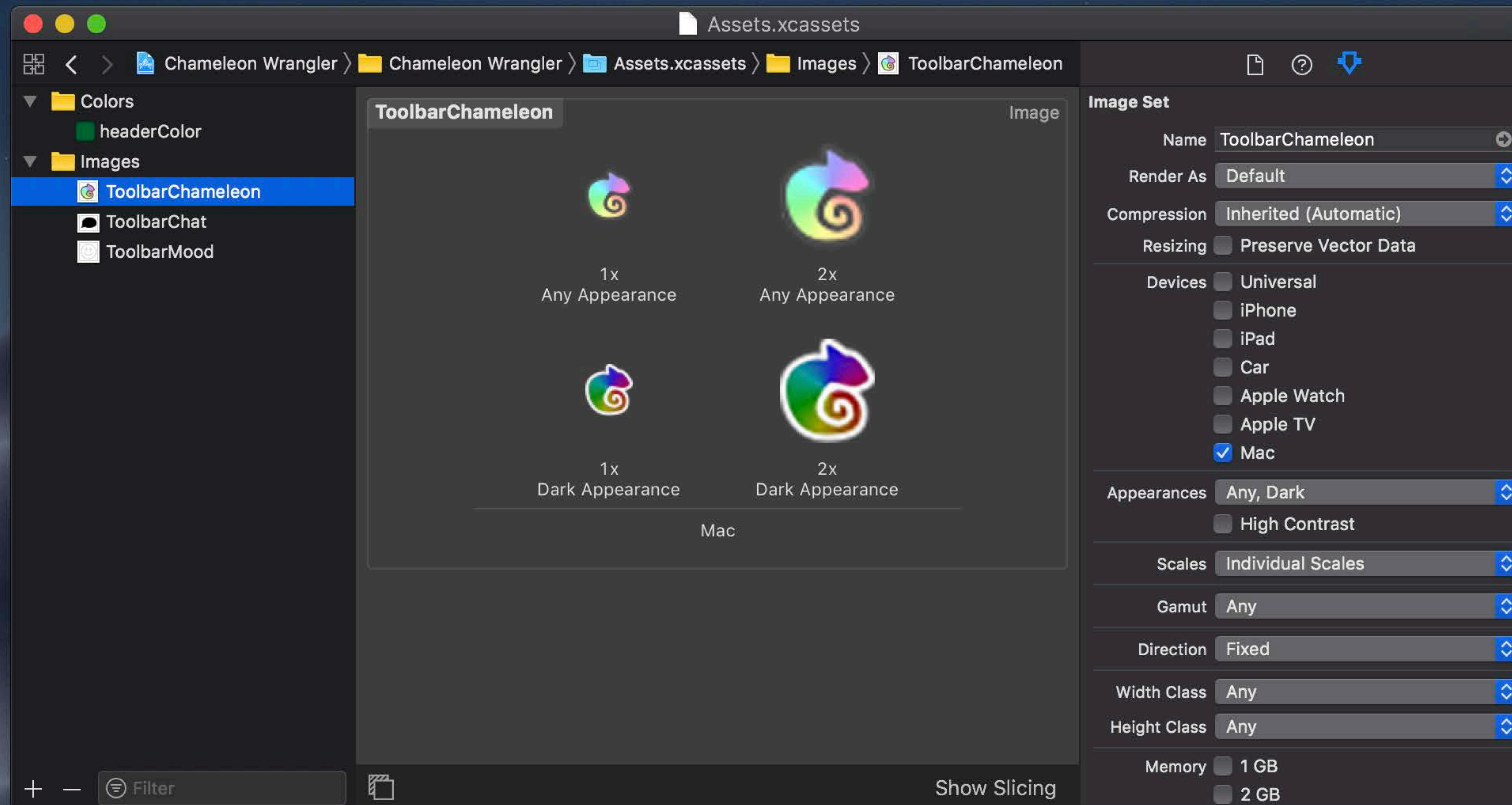
Assets.xcassets





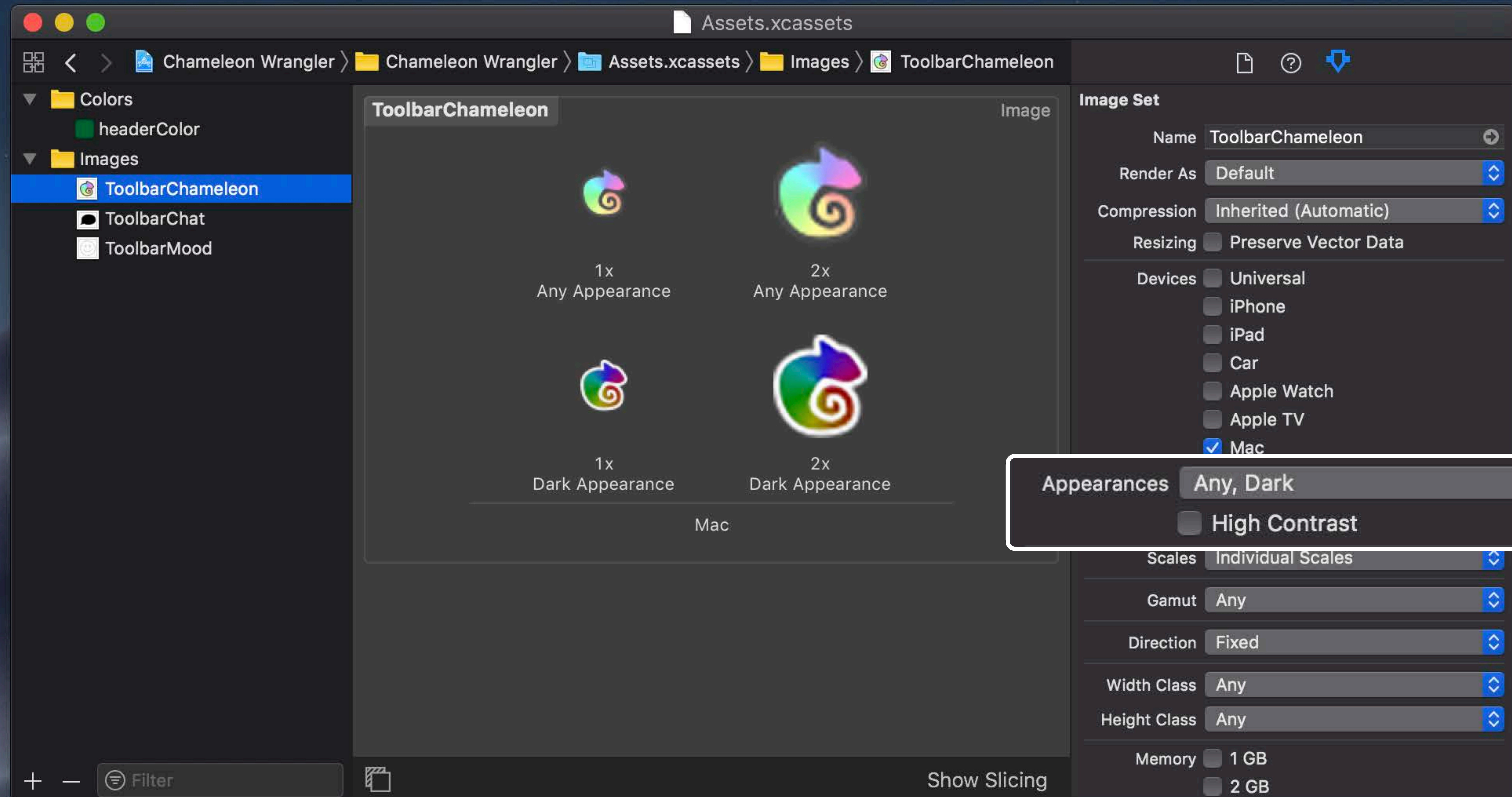
# Asset Catalog Editor in Xcode

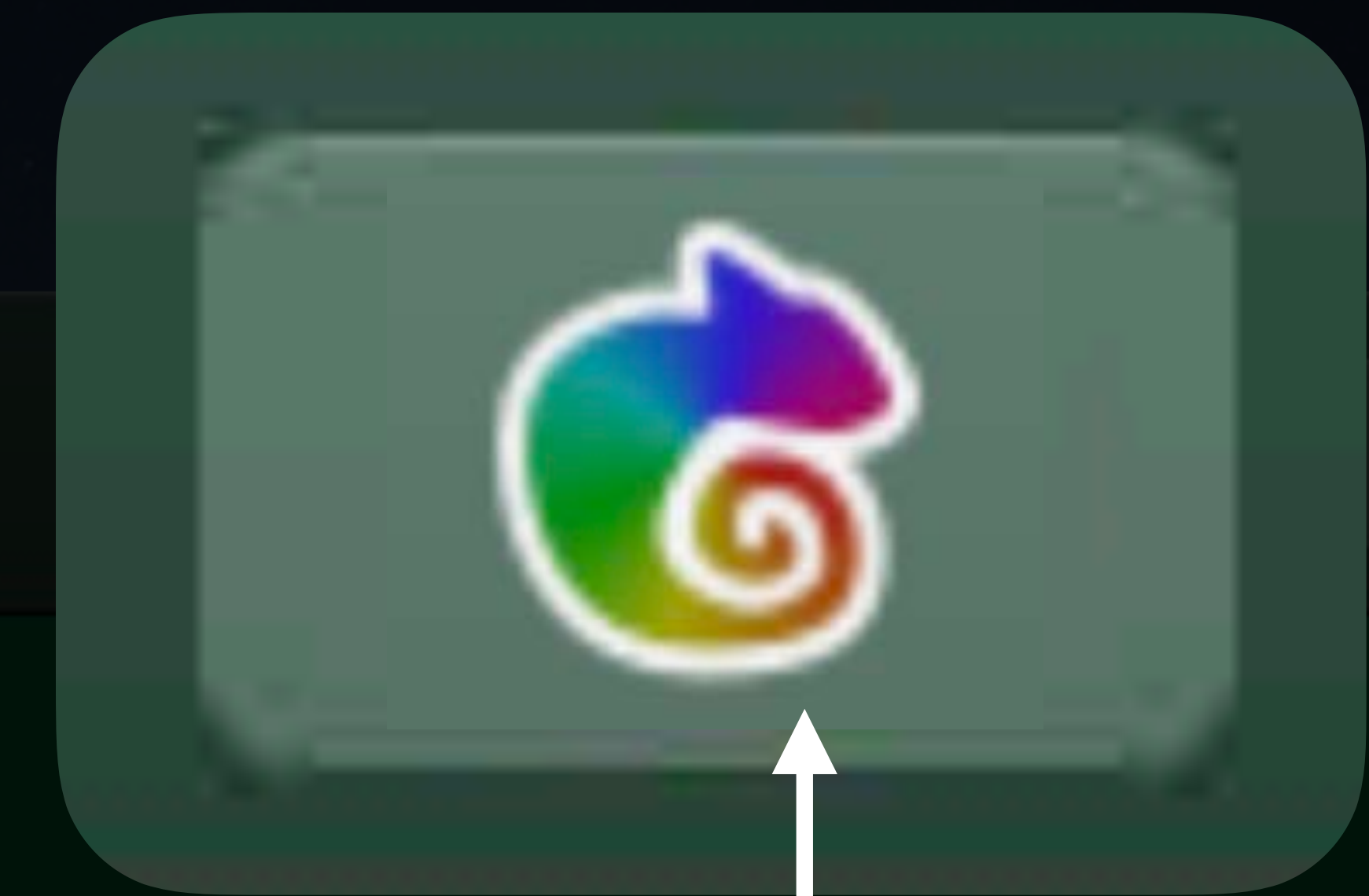
Assets.xcassets



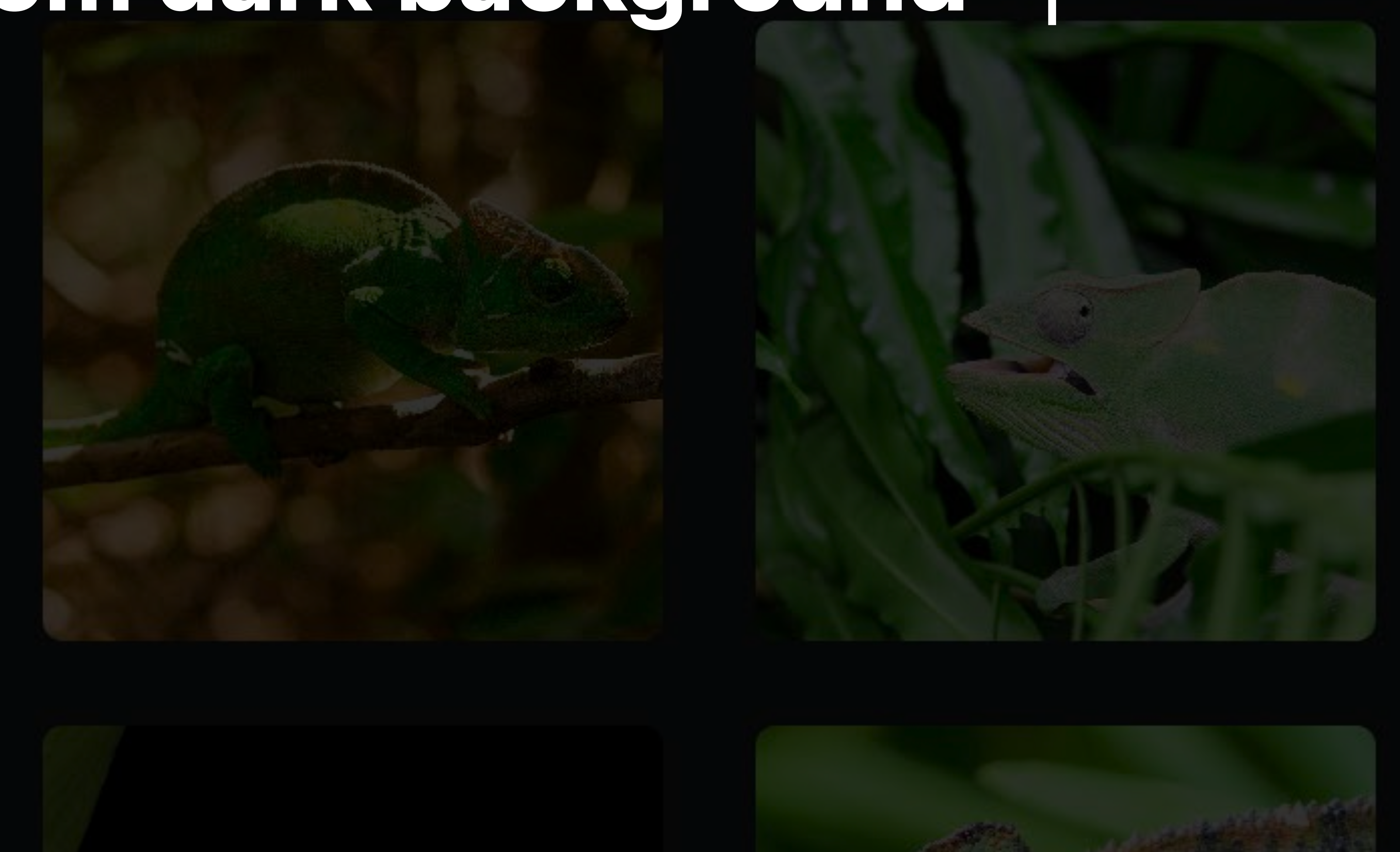
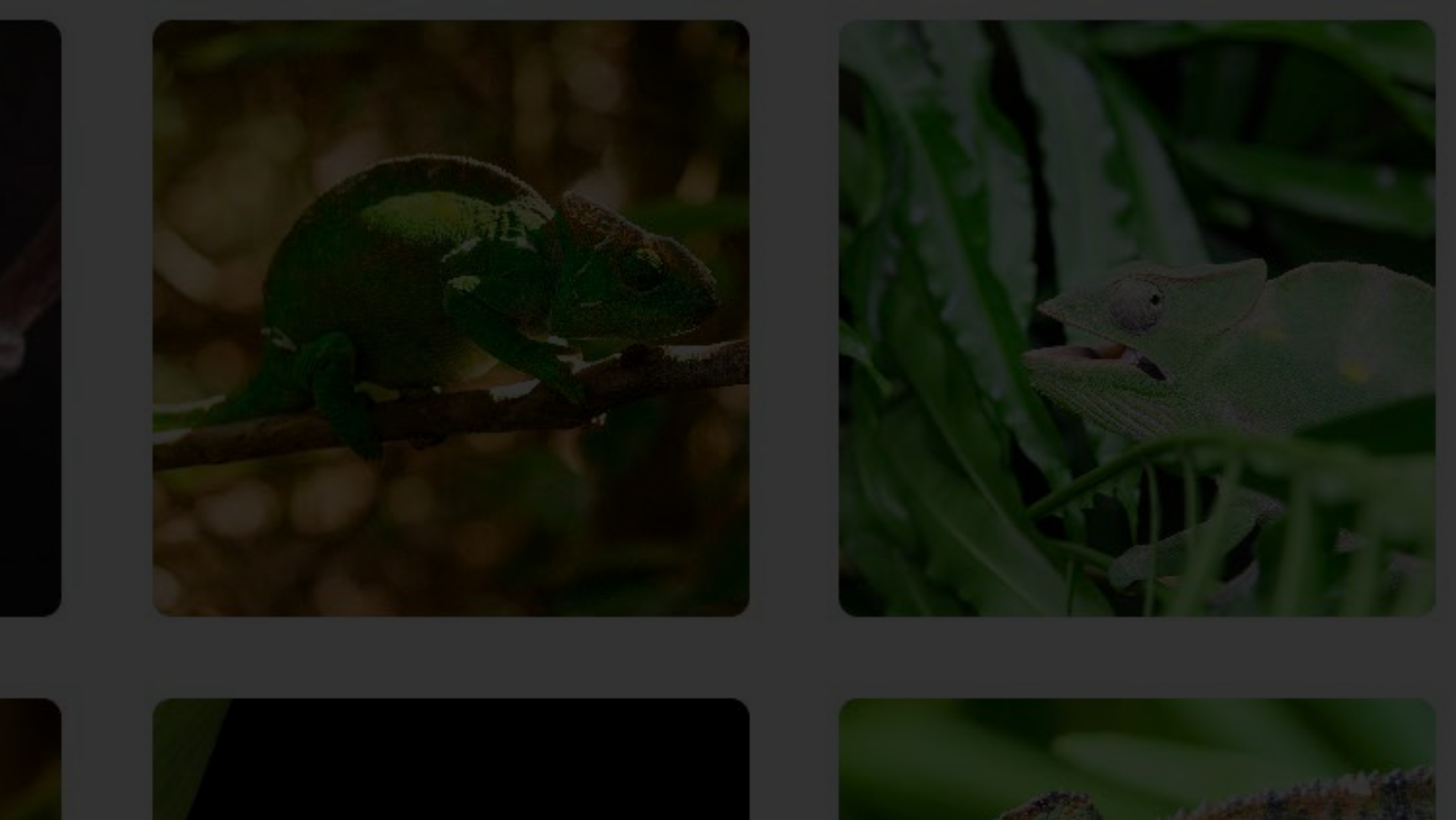
# Asset Catalog Editor in Xcode

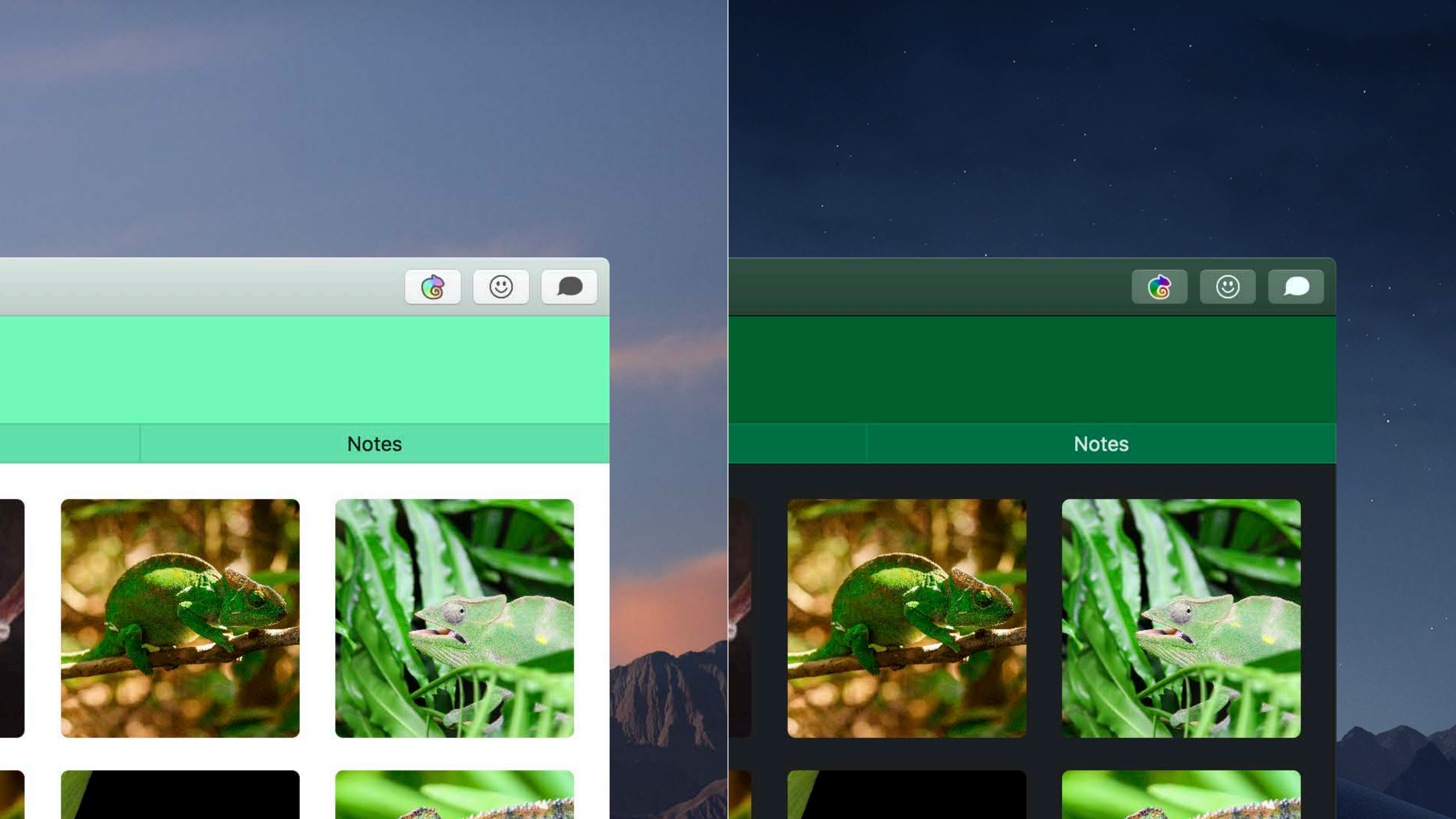
Assets.xcassets



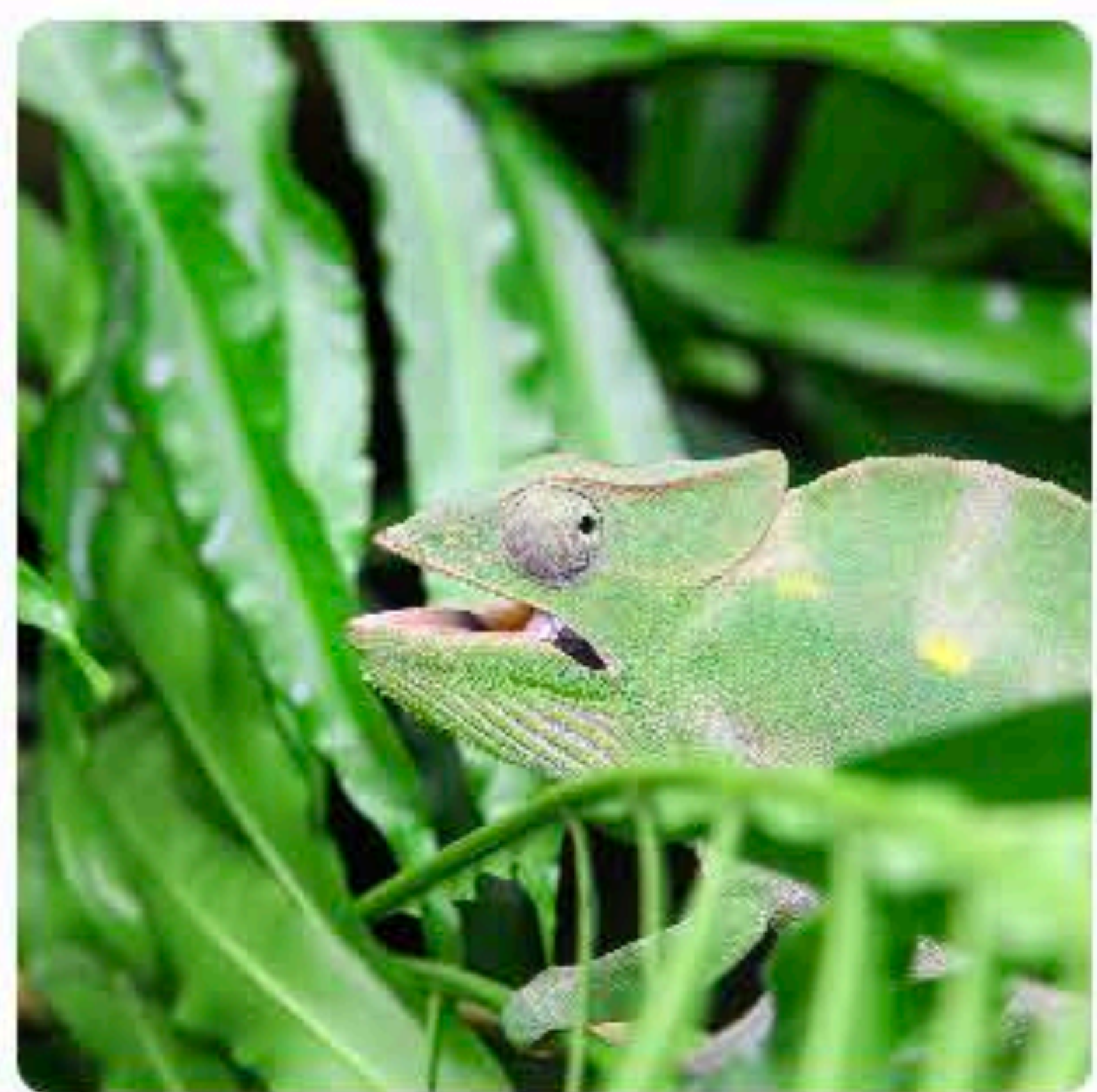
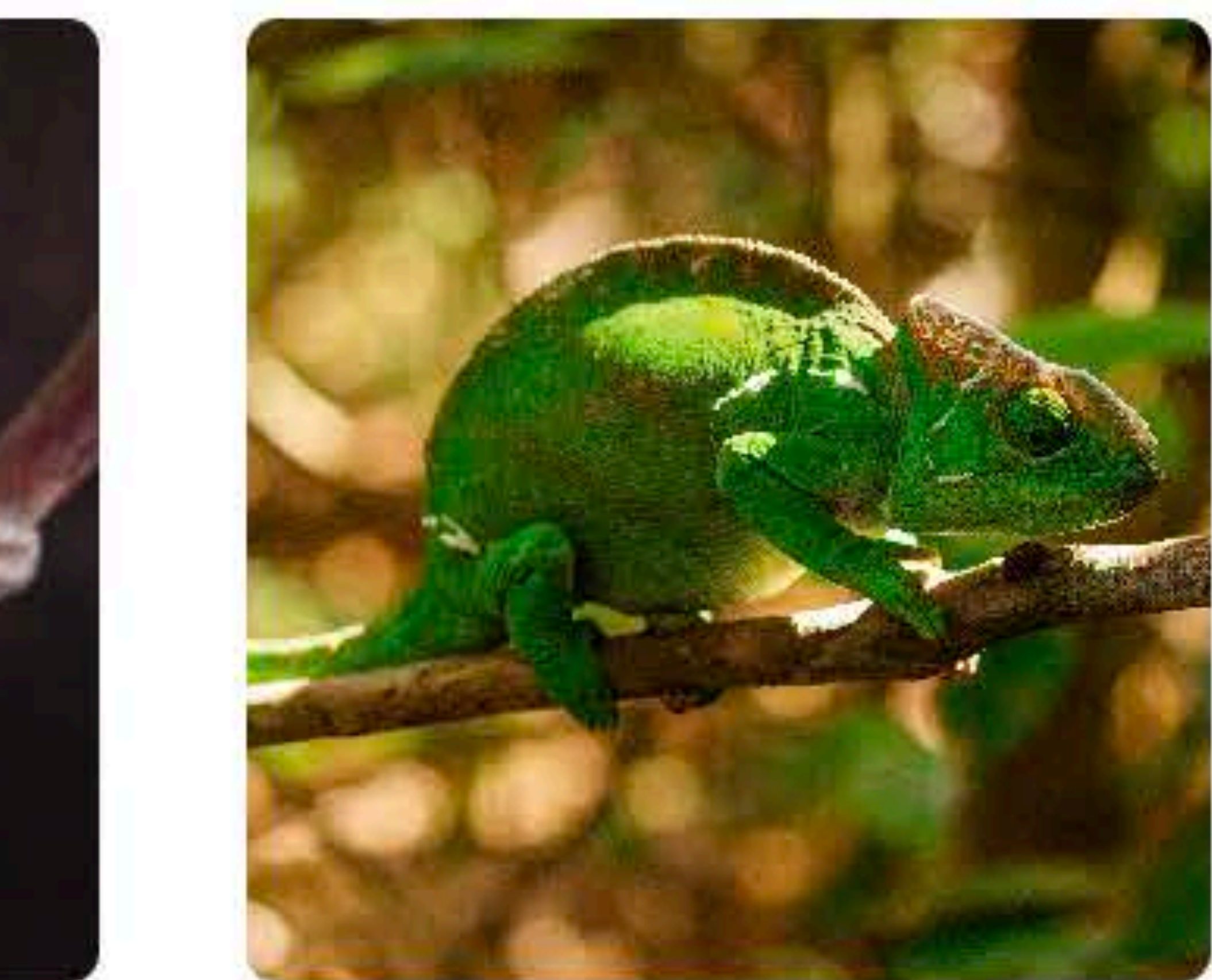


**Image border stands out from dark background**

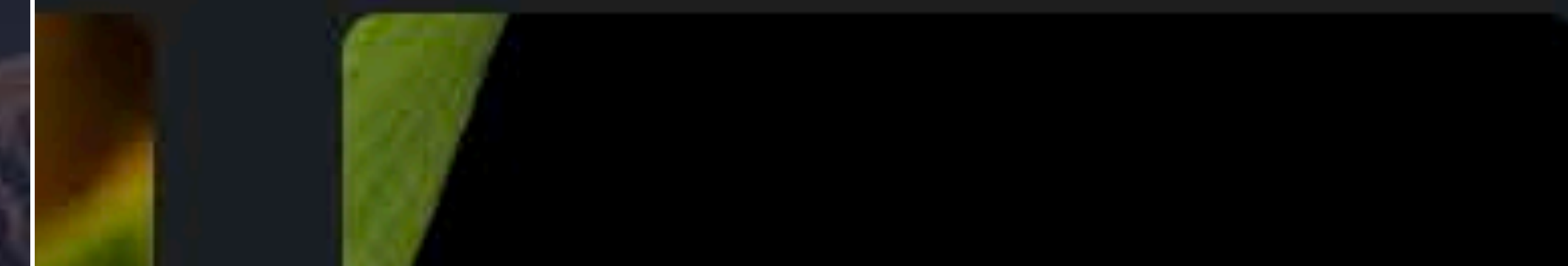
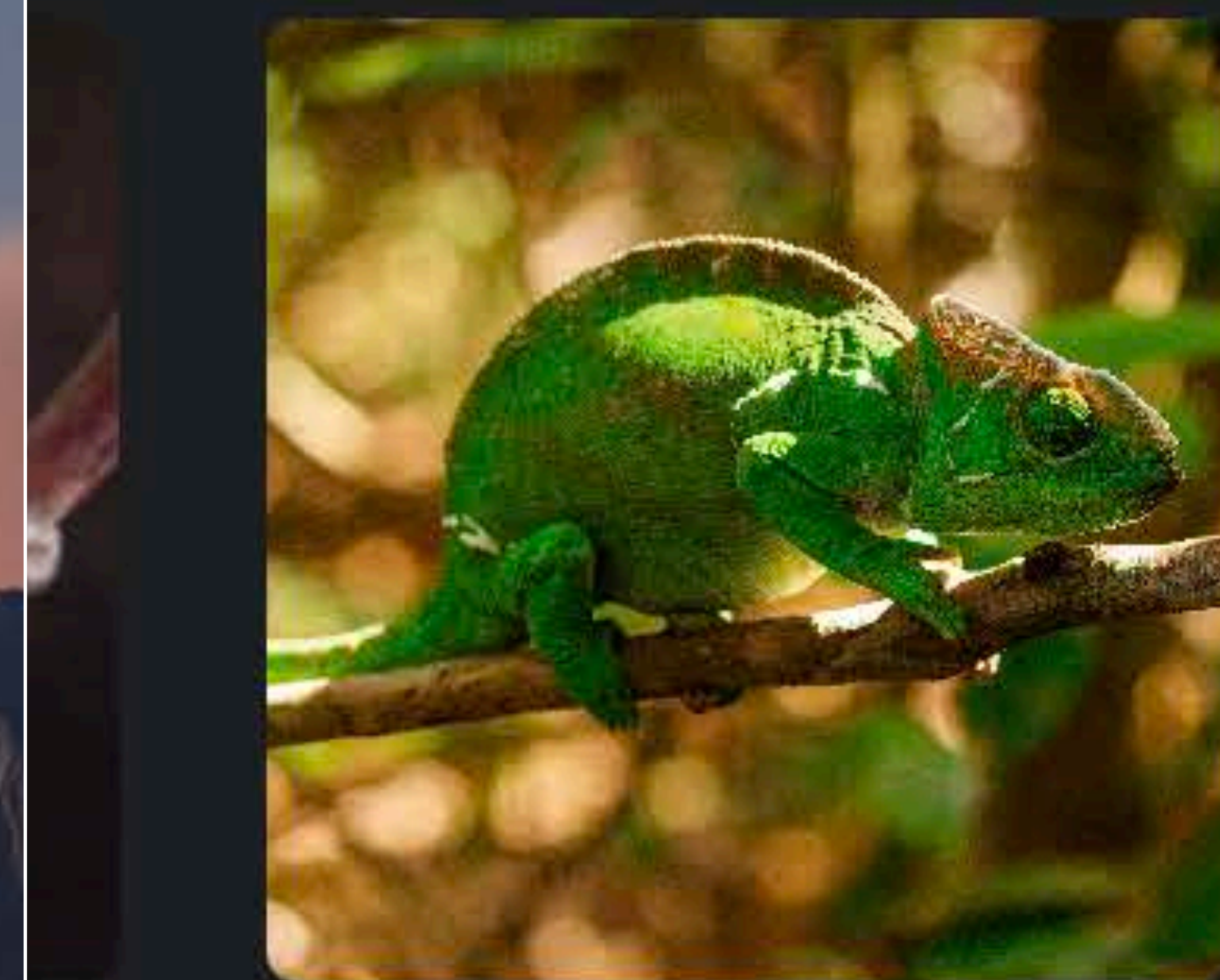


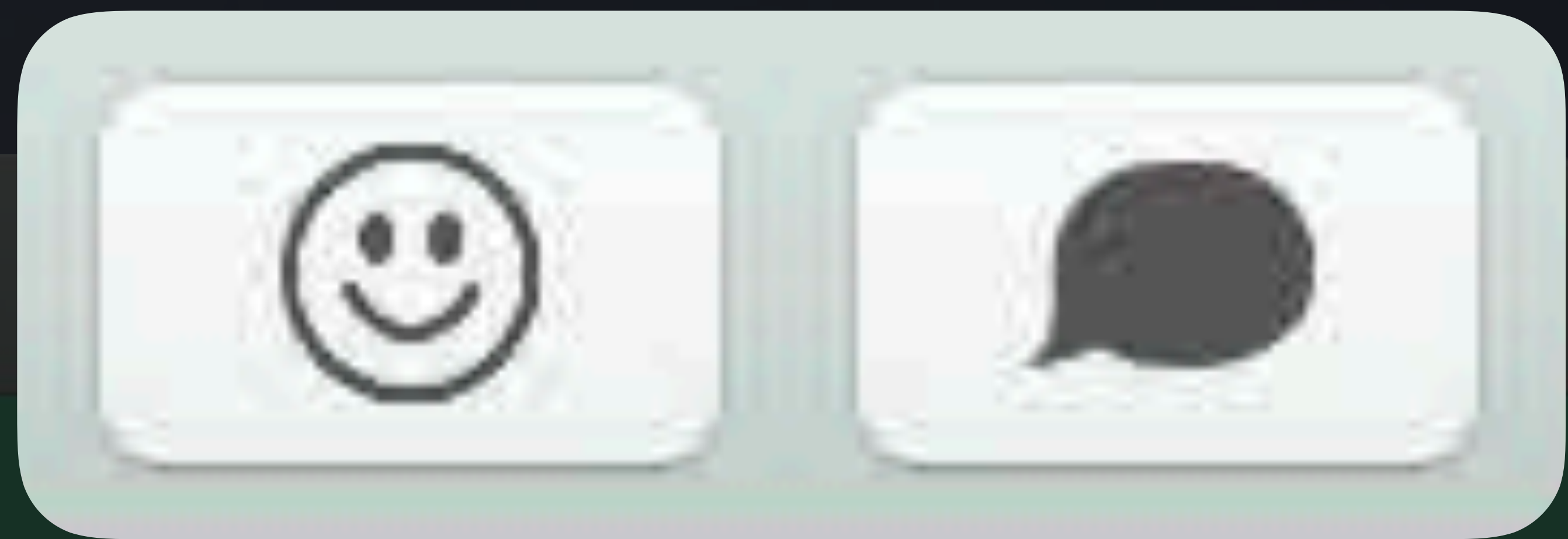


Notes

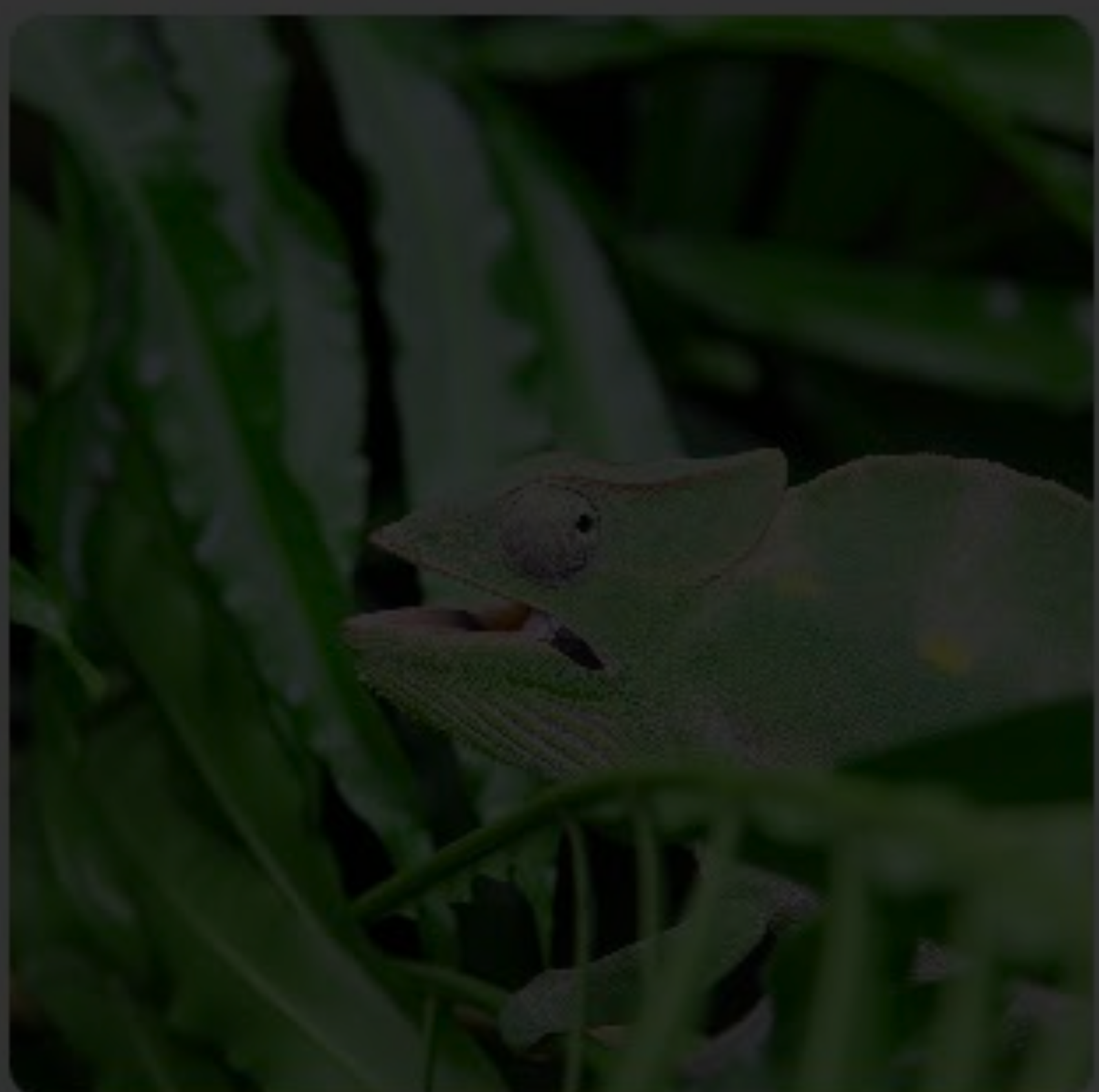
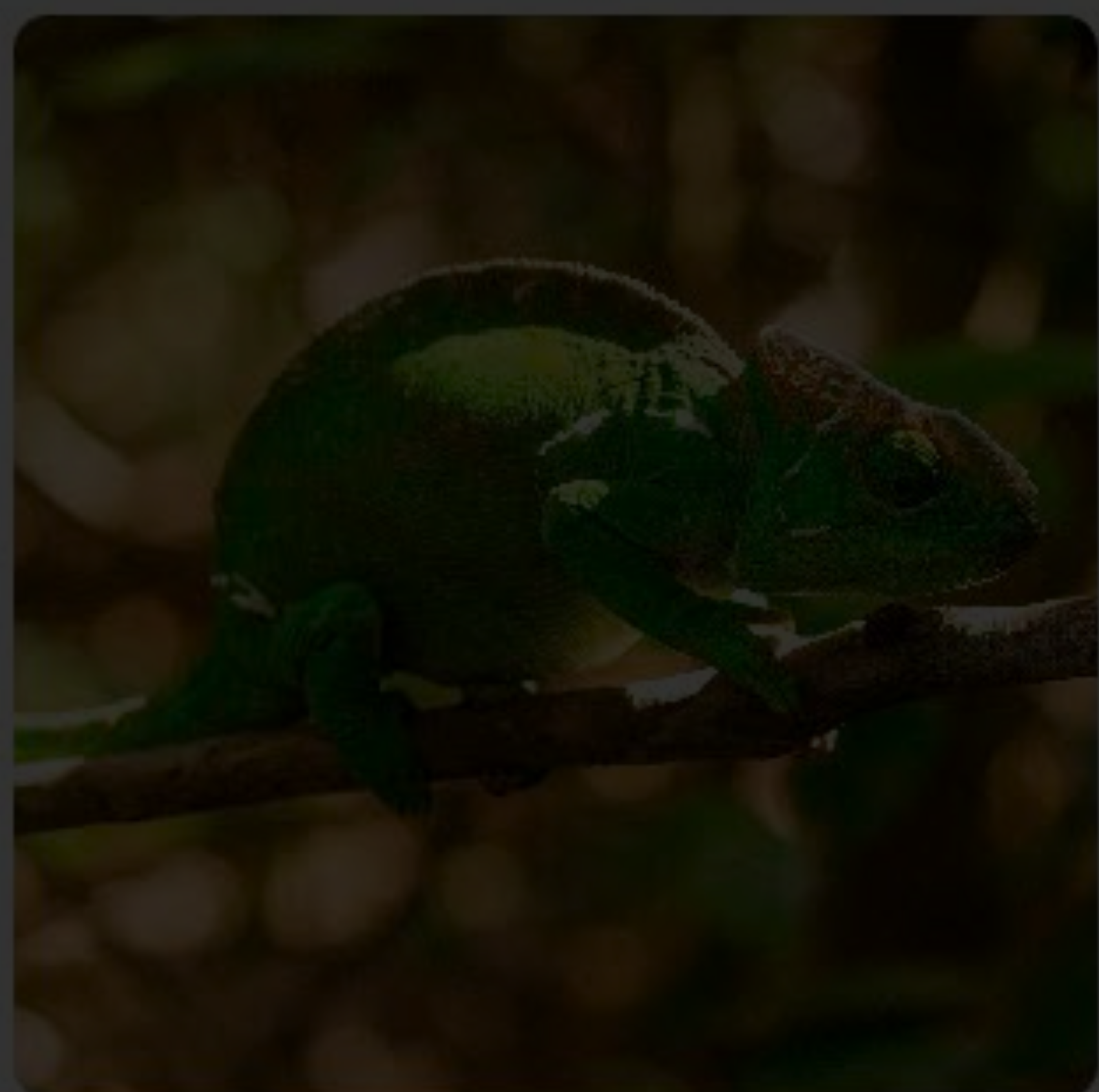


Notes

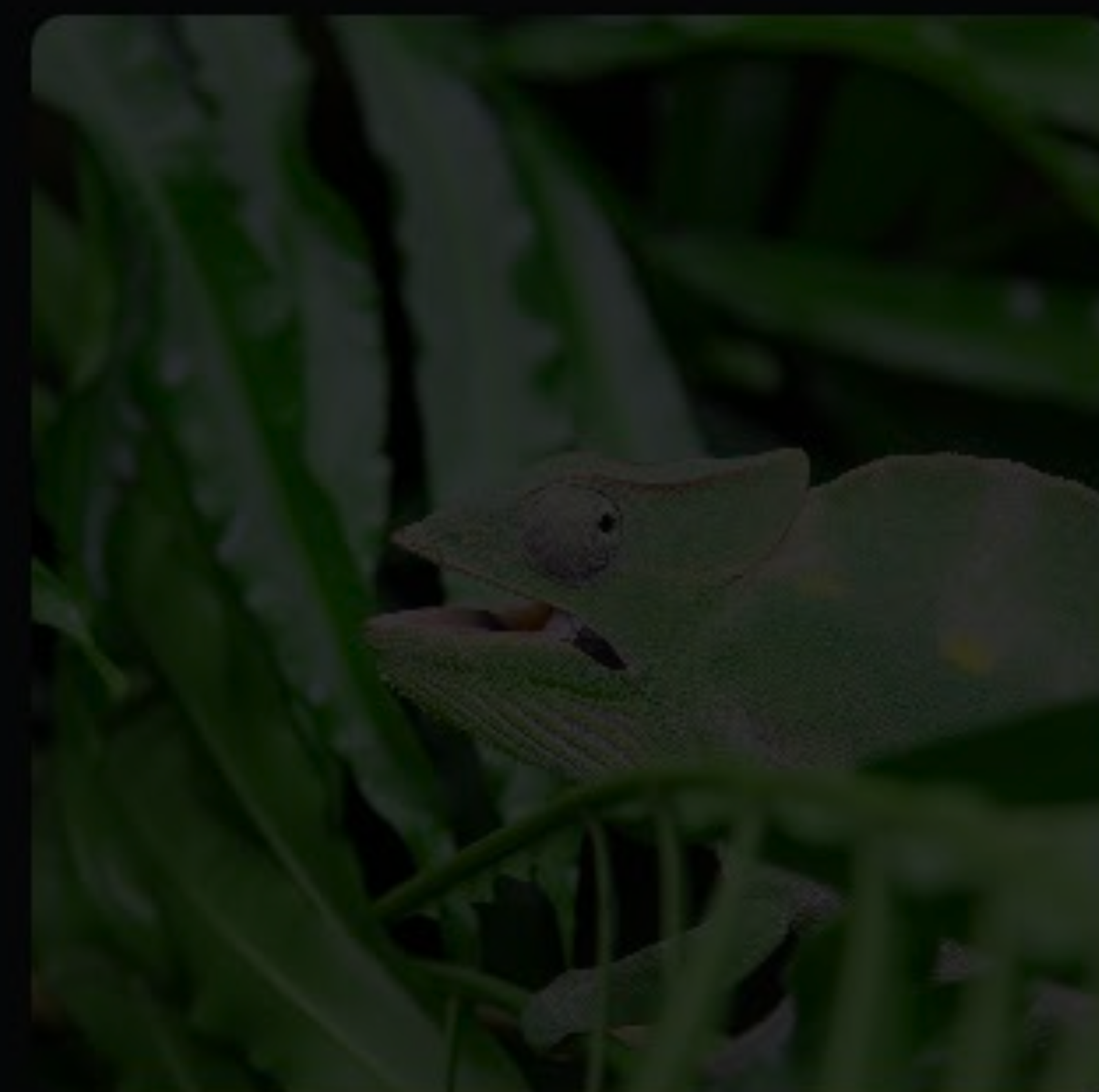
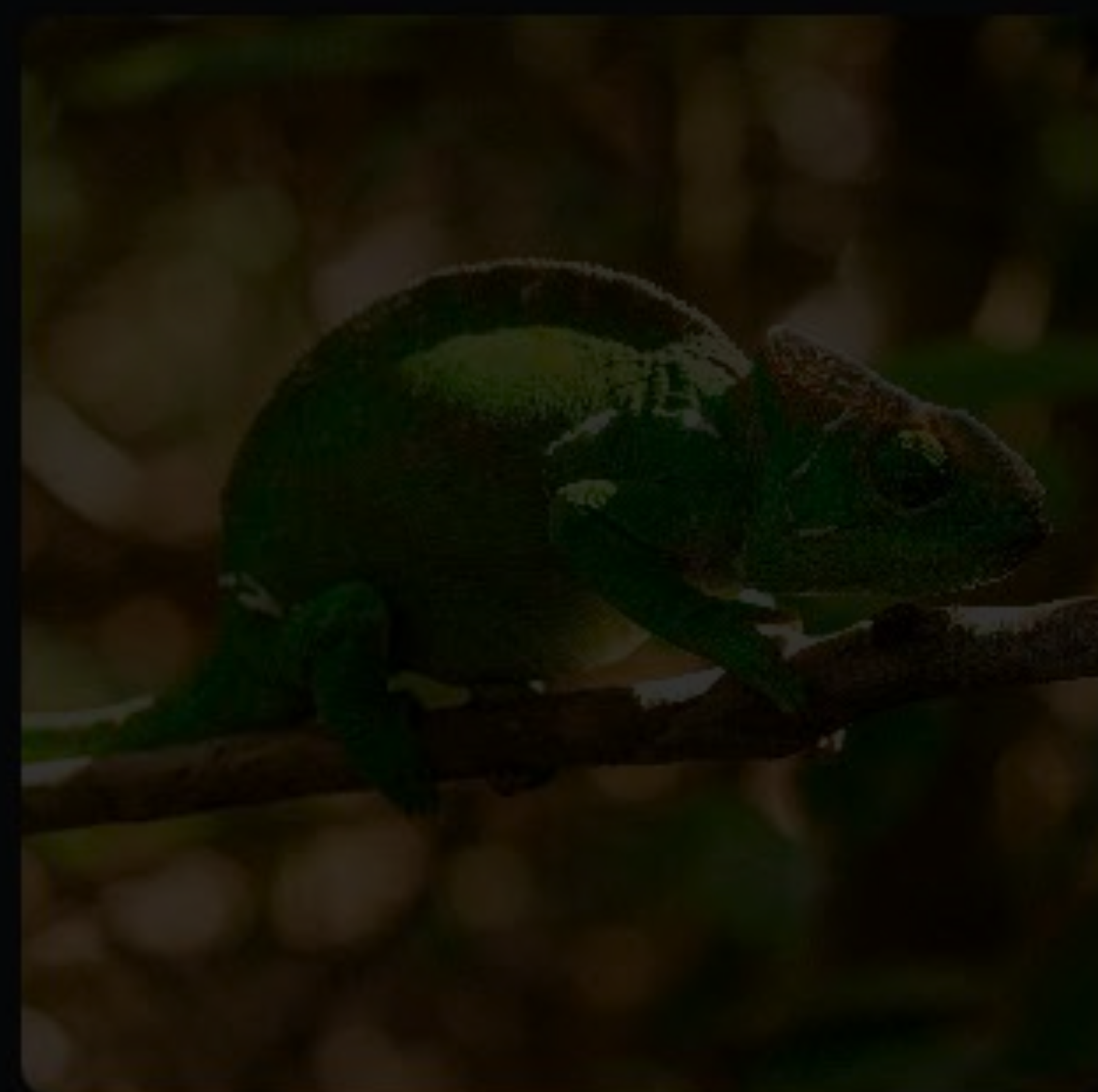




Notes

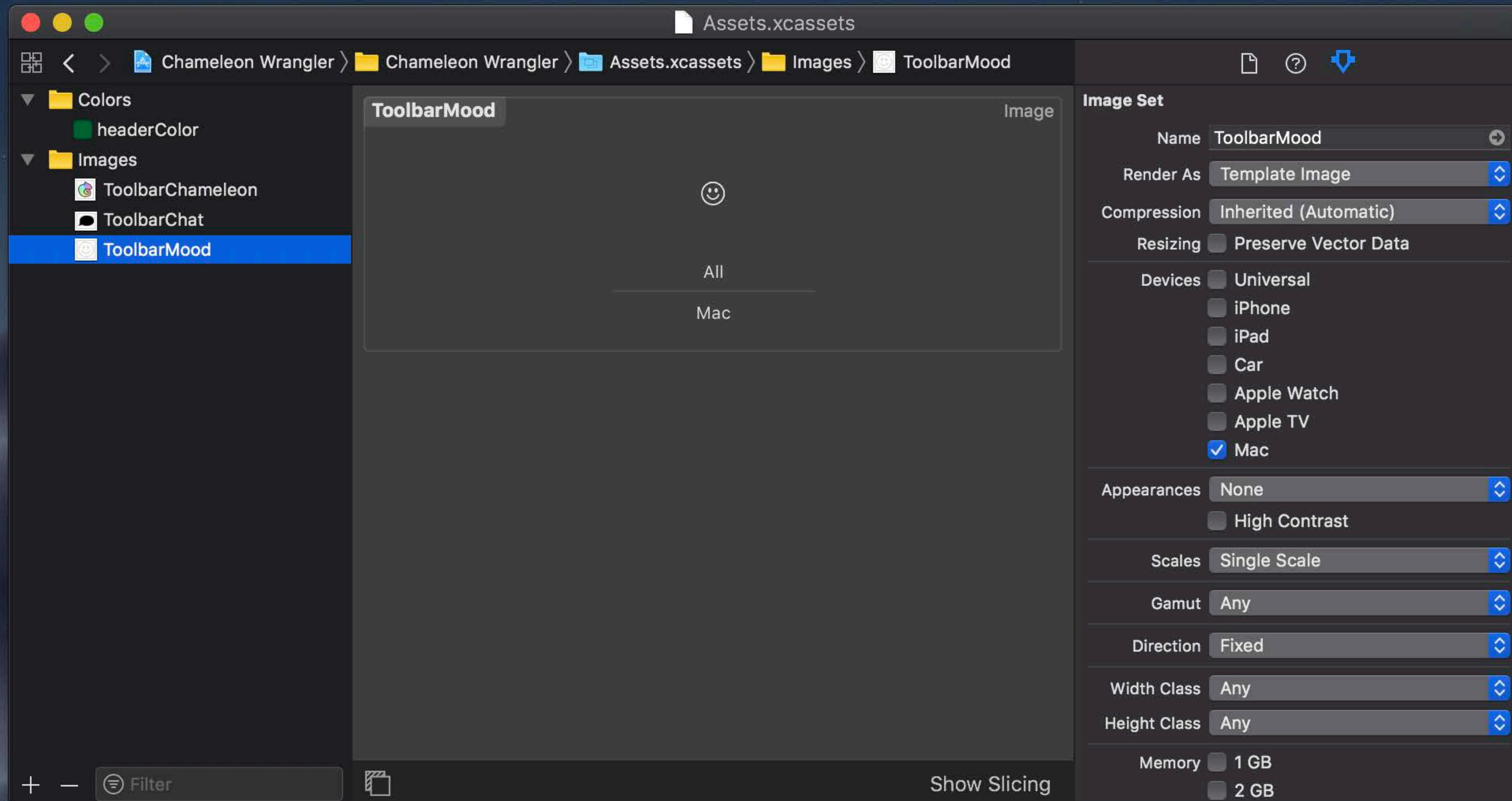


Notes



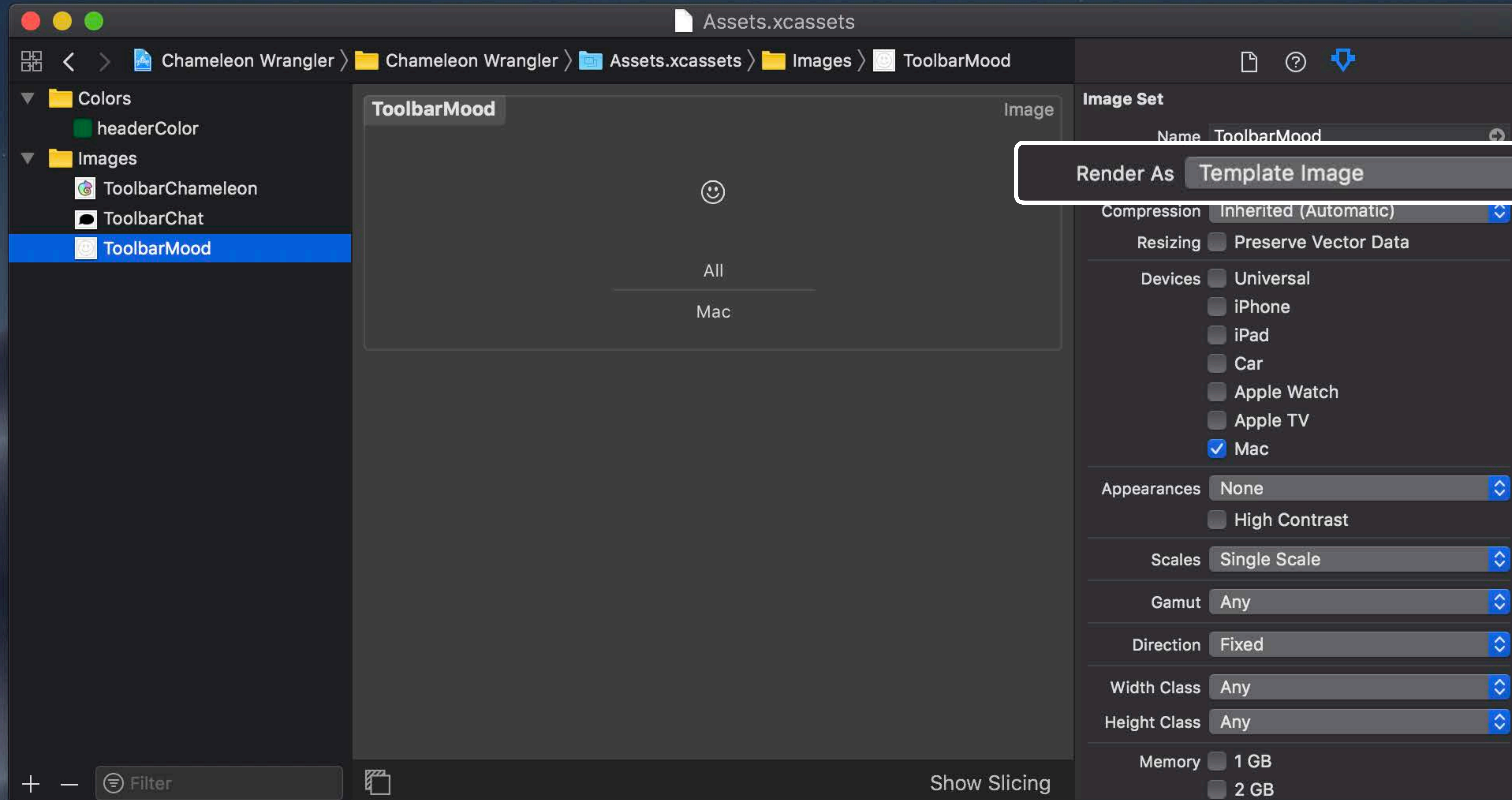
# Asset Catalog Editor in Xcode

Assets.xcassets



# Asset Catalog Editor in Xcode

Assets.xcassets



# Template Images

Transparency maintained



# Template Images

Transparency maintained

Color ignored

# Template Images

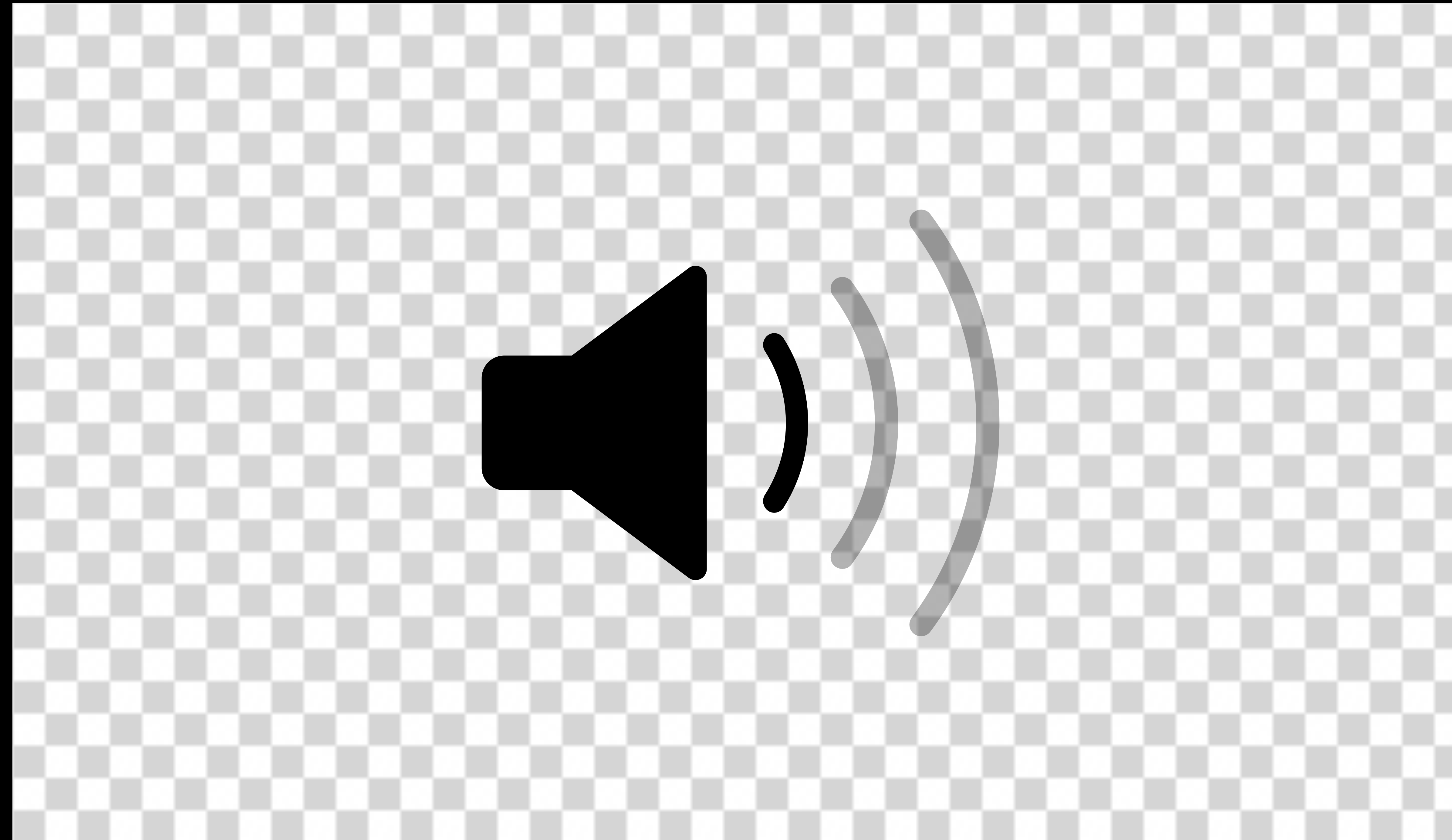
Transparency maintained

Color ignored

Bitmaps or PDFs

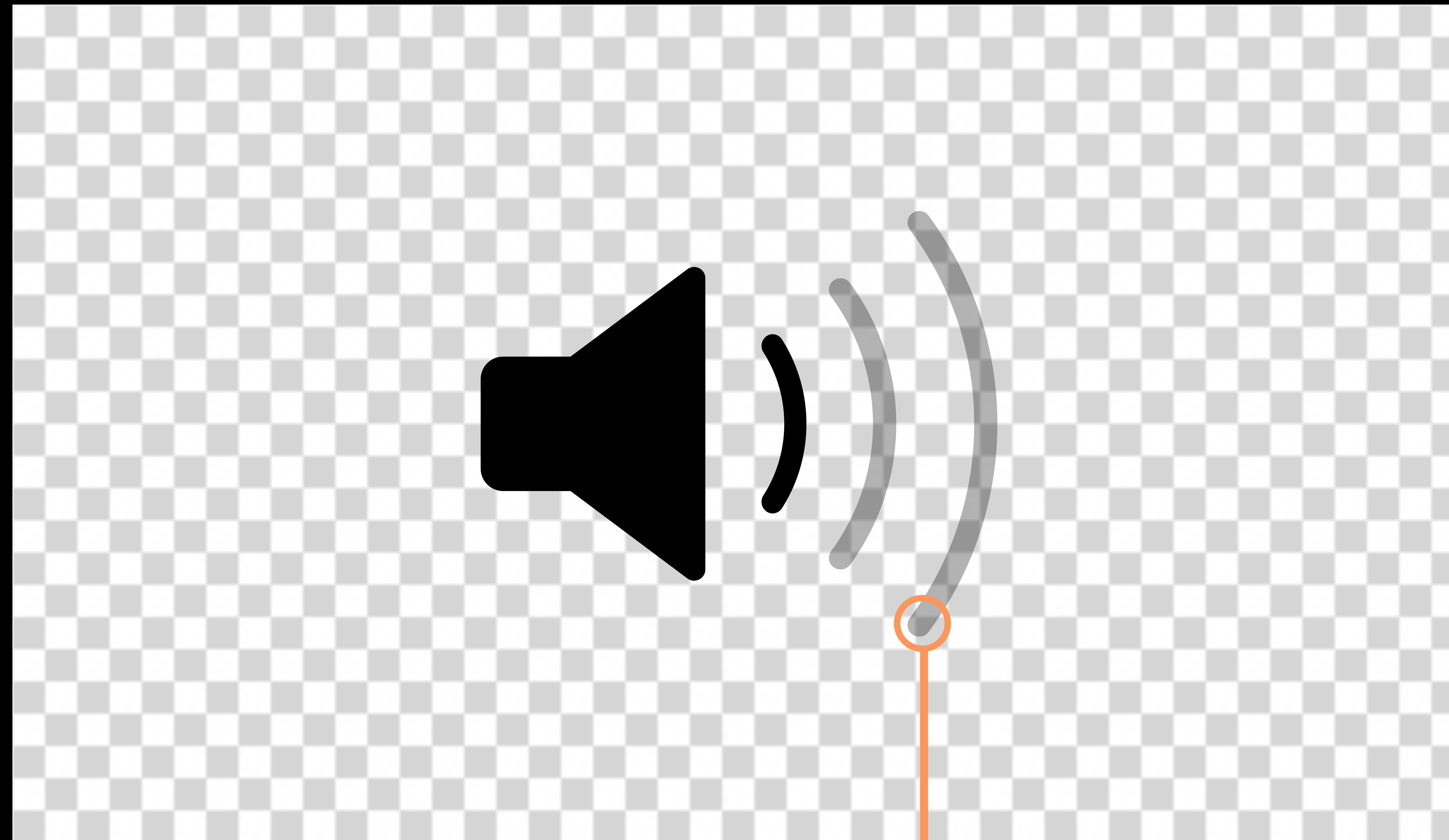
# Template Images

Original image on a checkerboard background



# Template Images

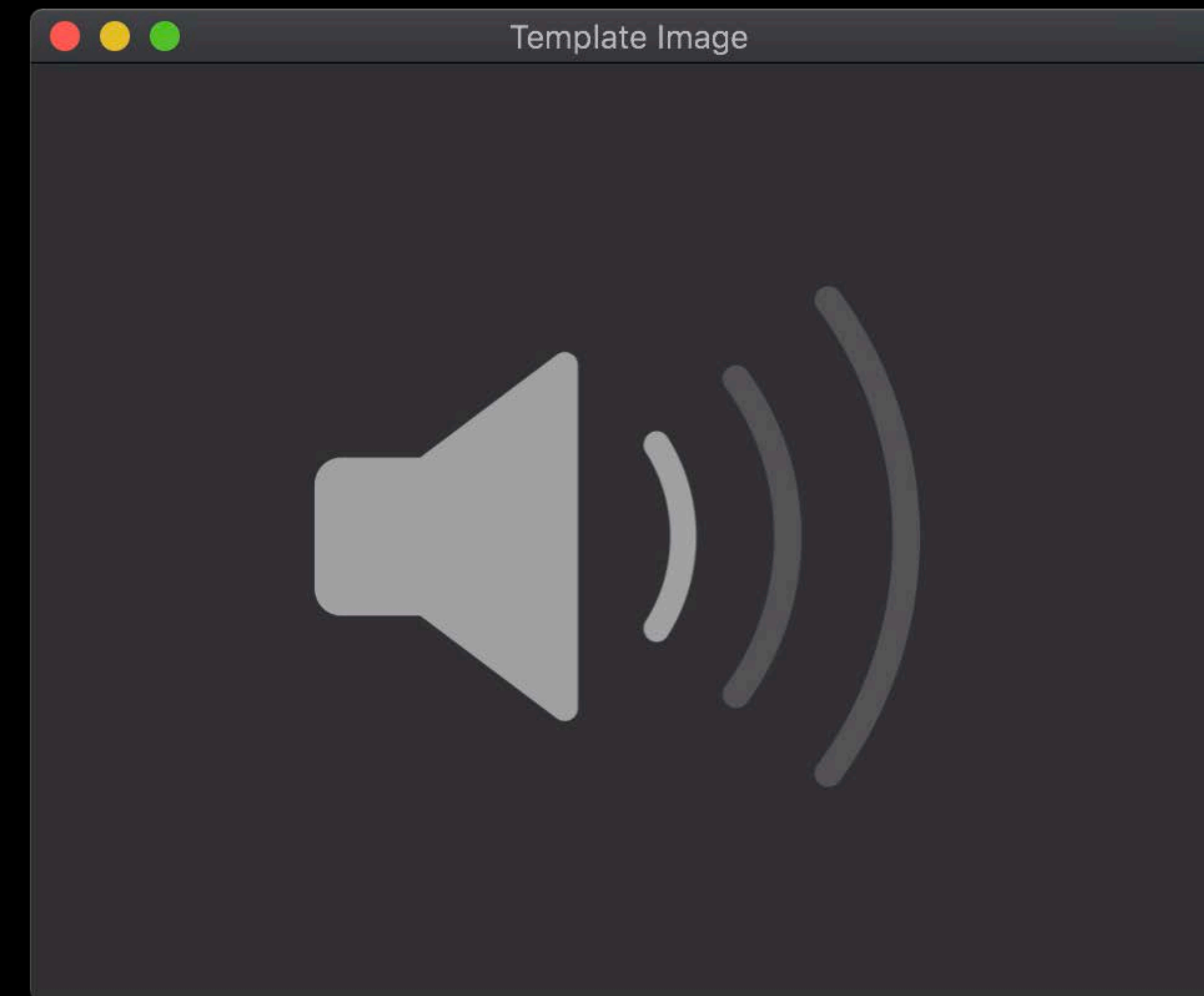
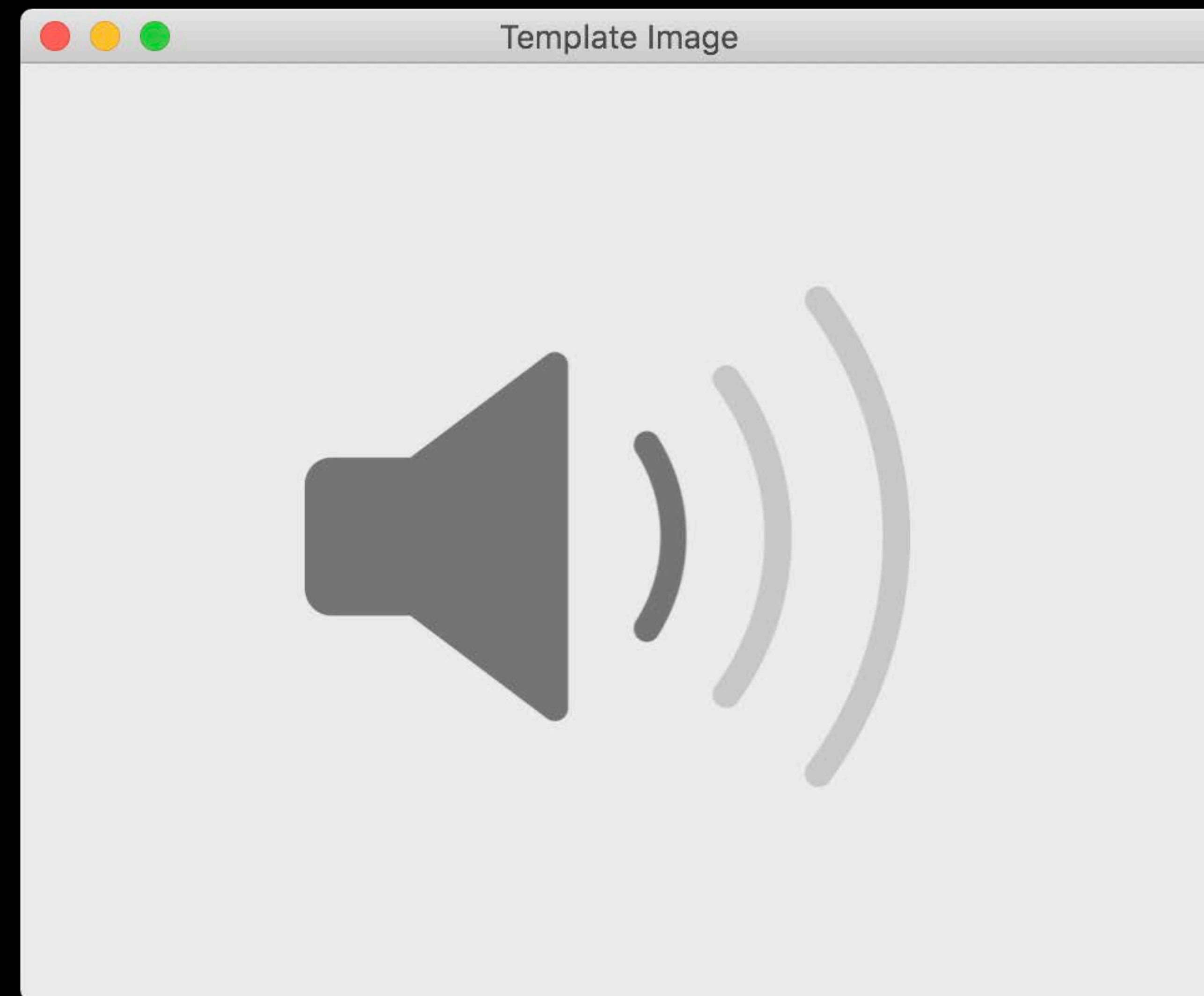
Original image on a checkerboard background



Partial transparency

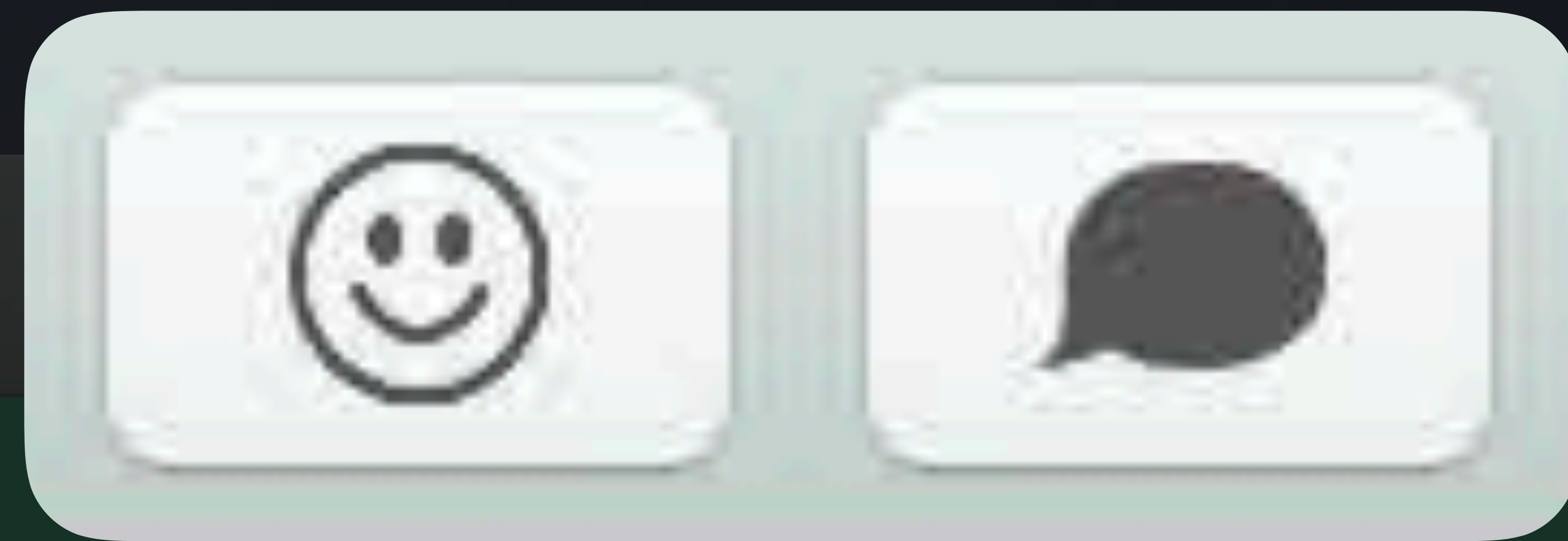
# Template Images

Secondary Label Color in a window

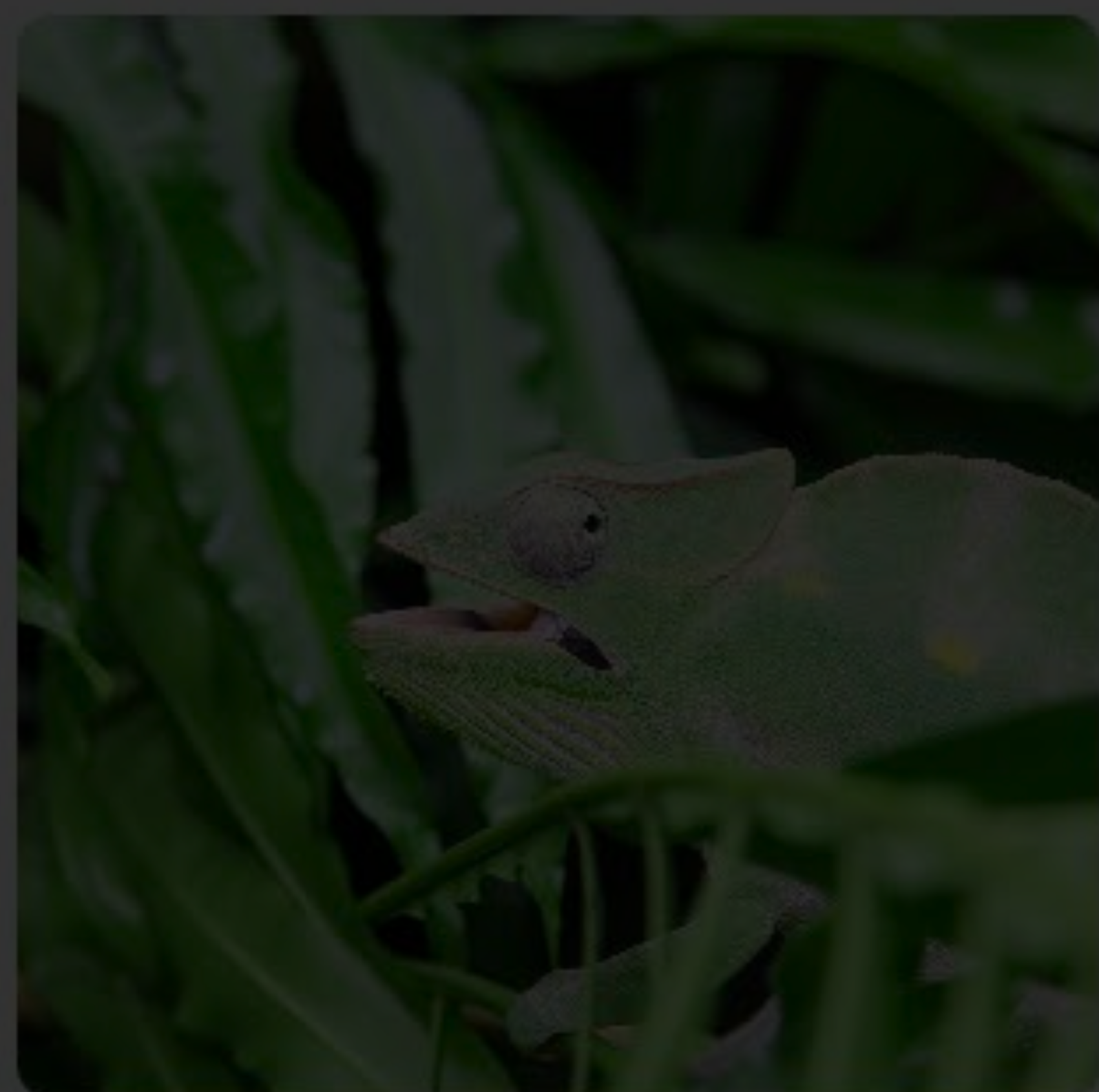
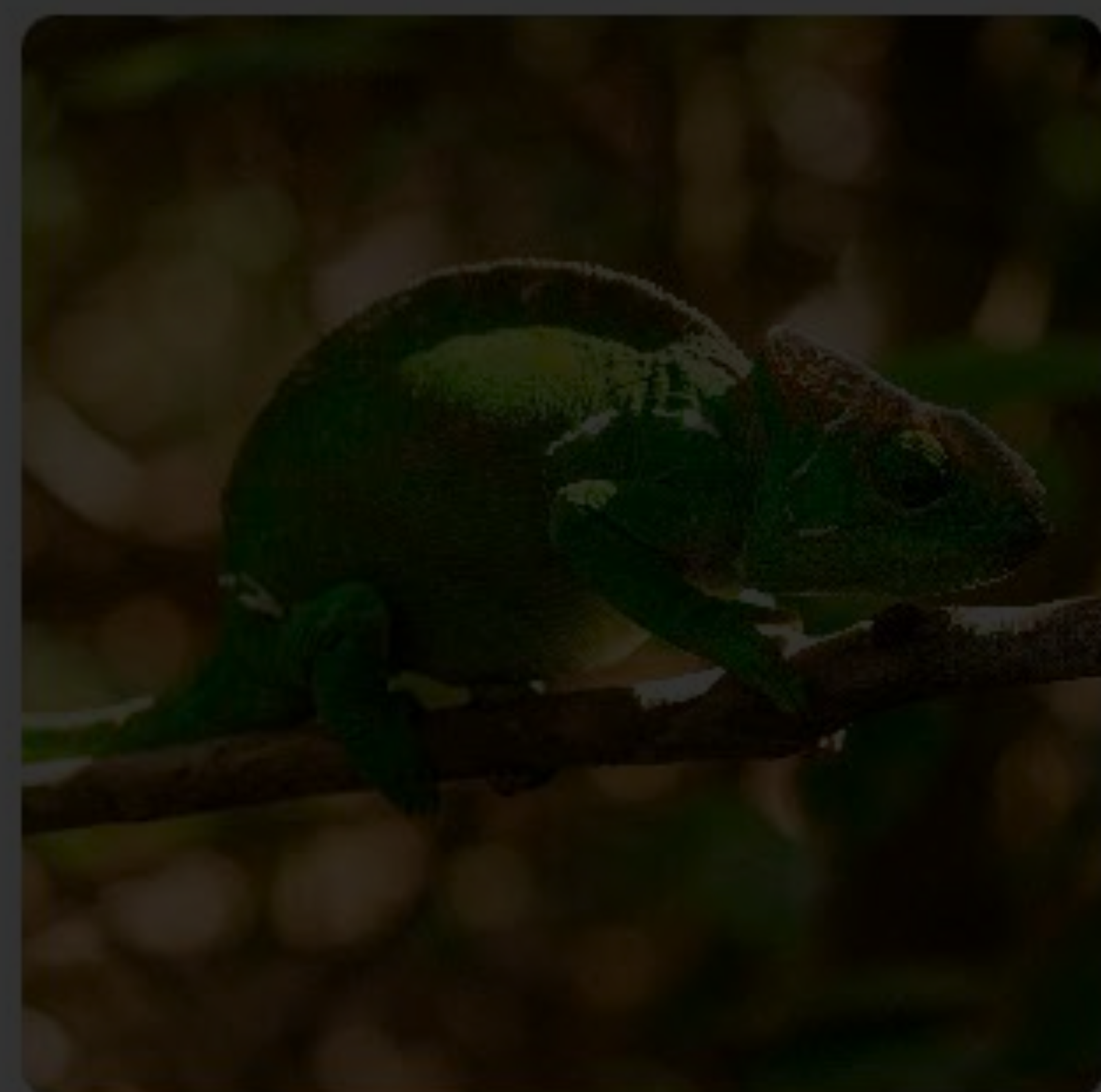


# Template Images

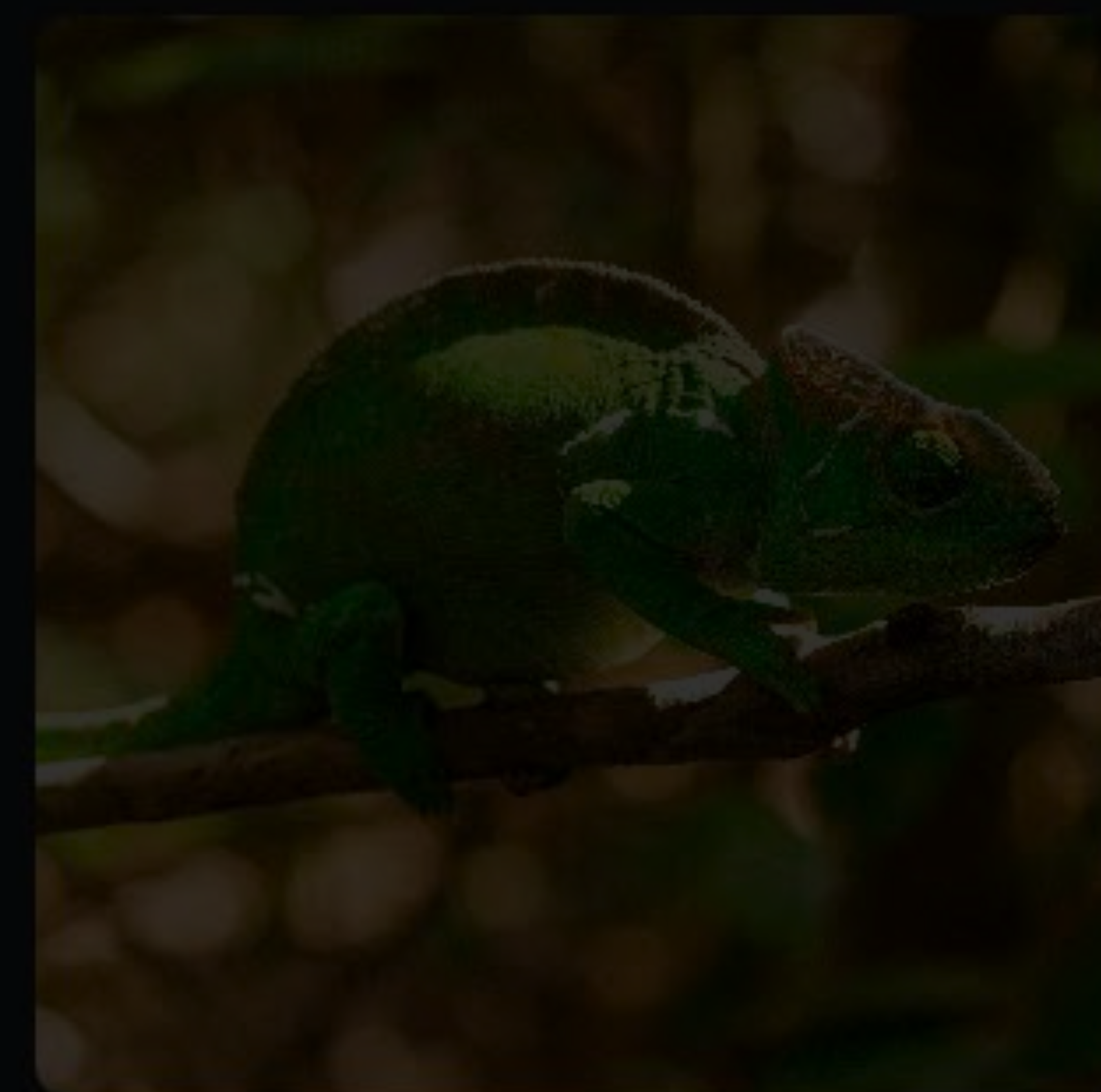
Button state can change color



Notes

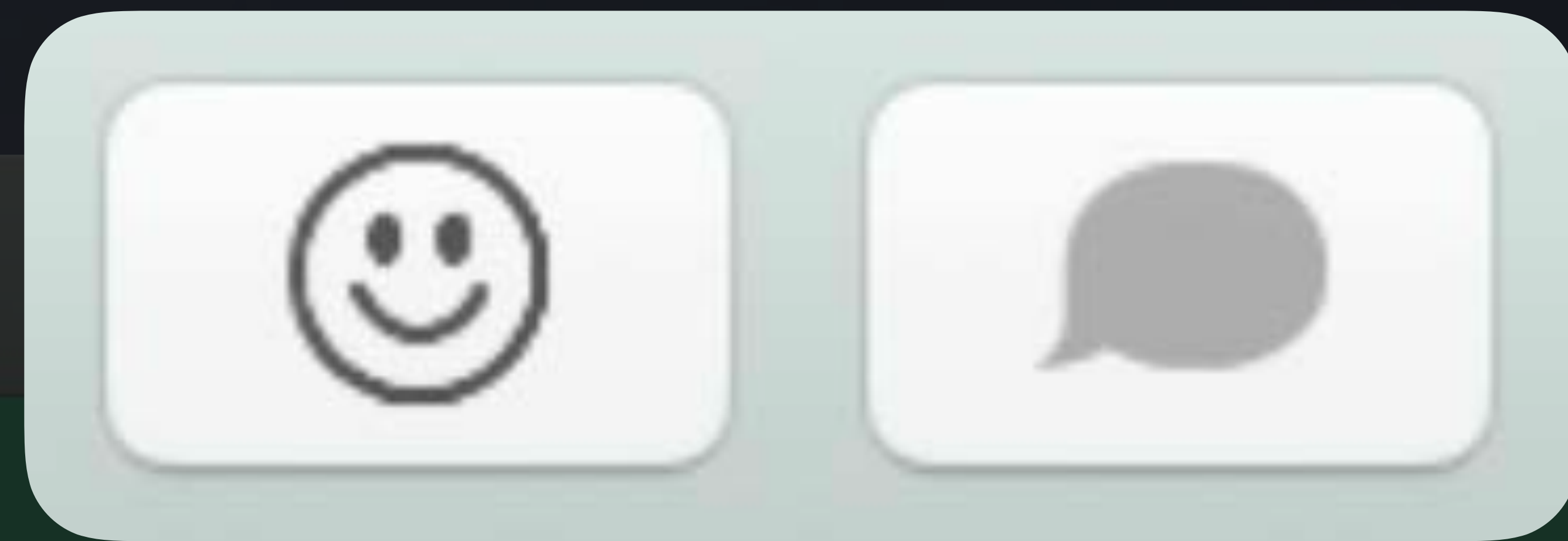


Notes

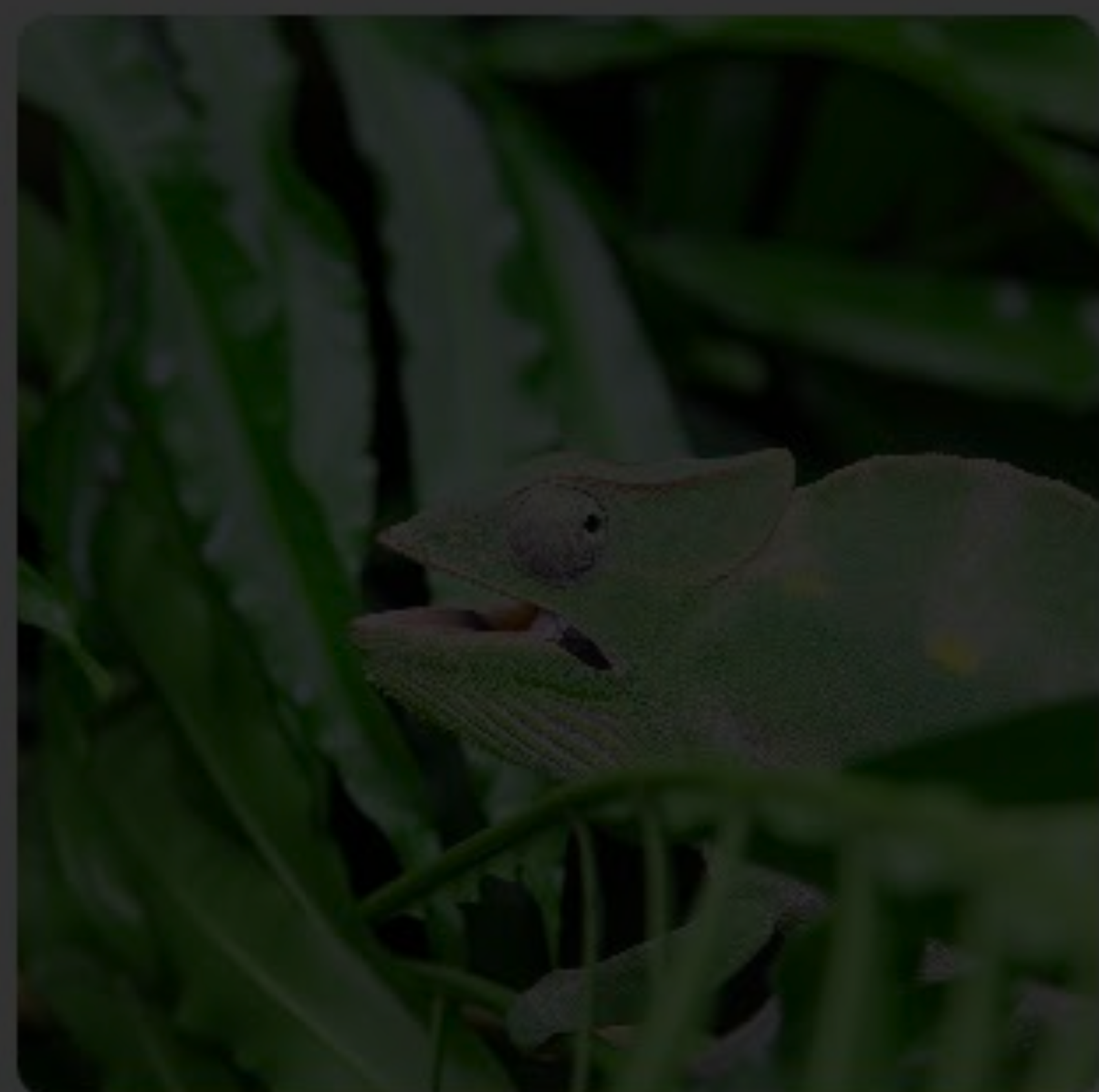
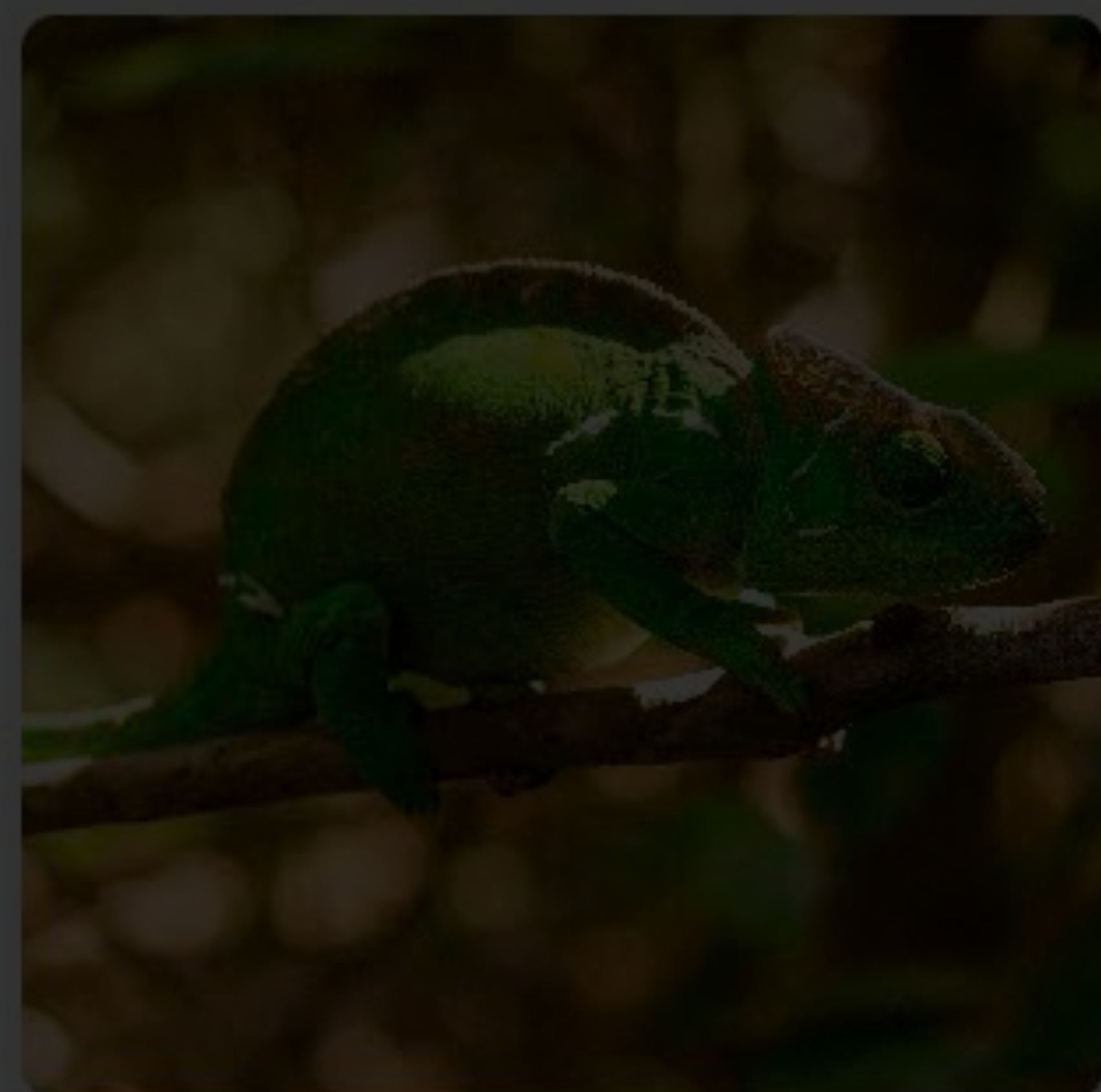


# Template Images

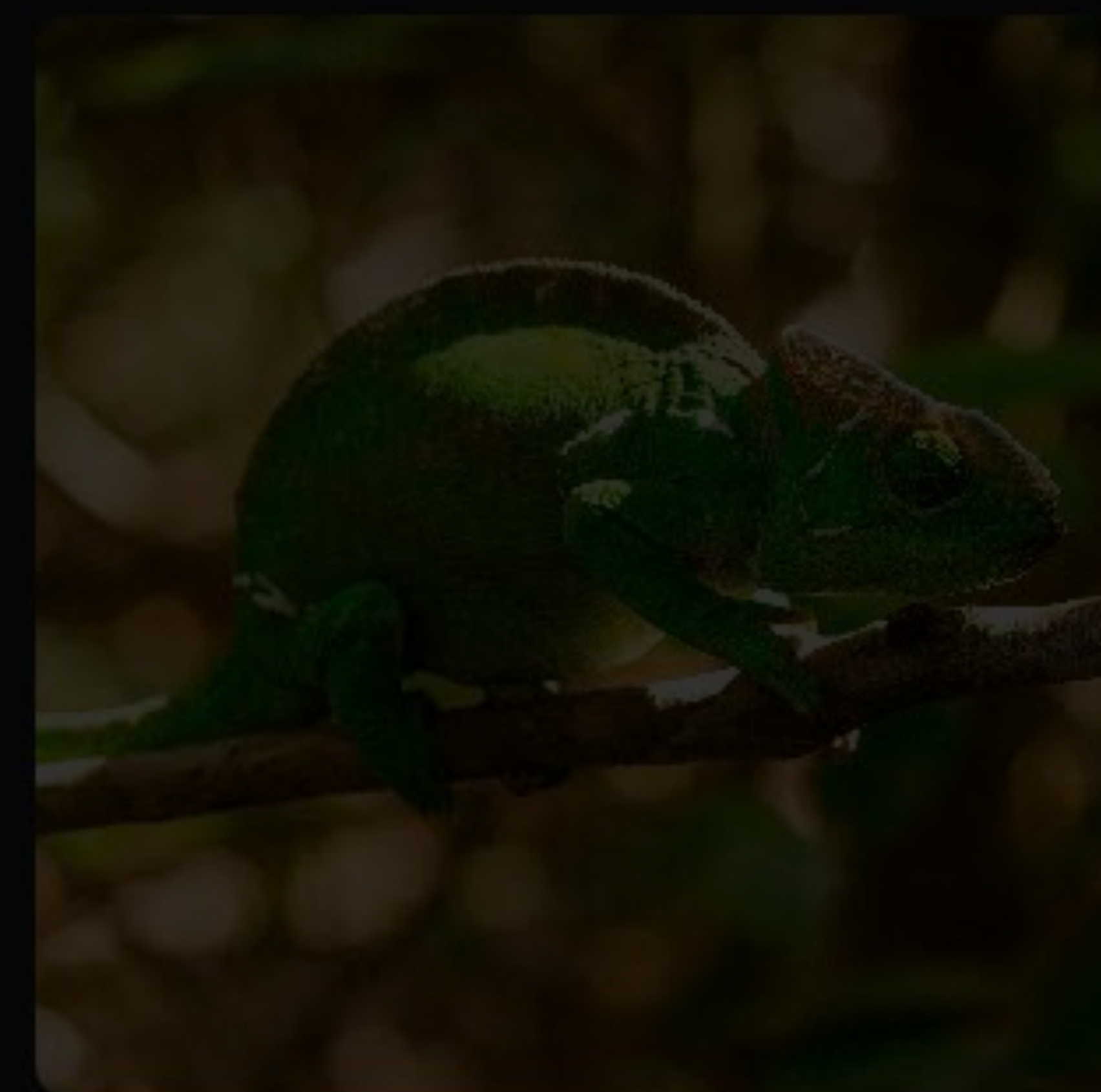
Button state can change color



Notes

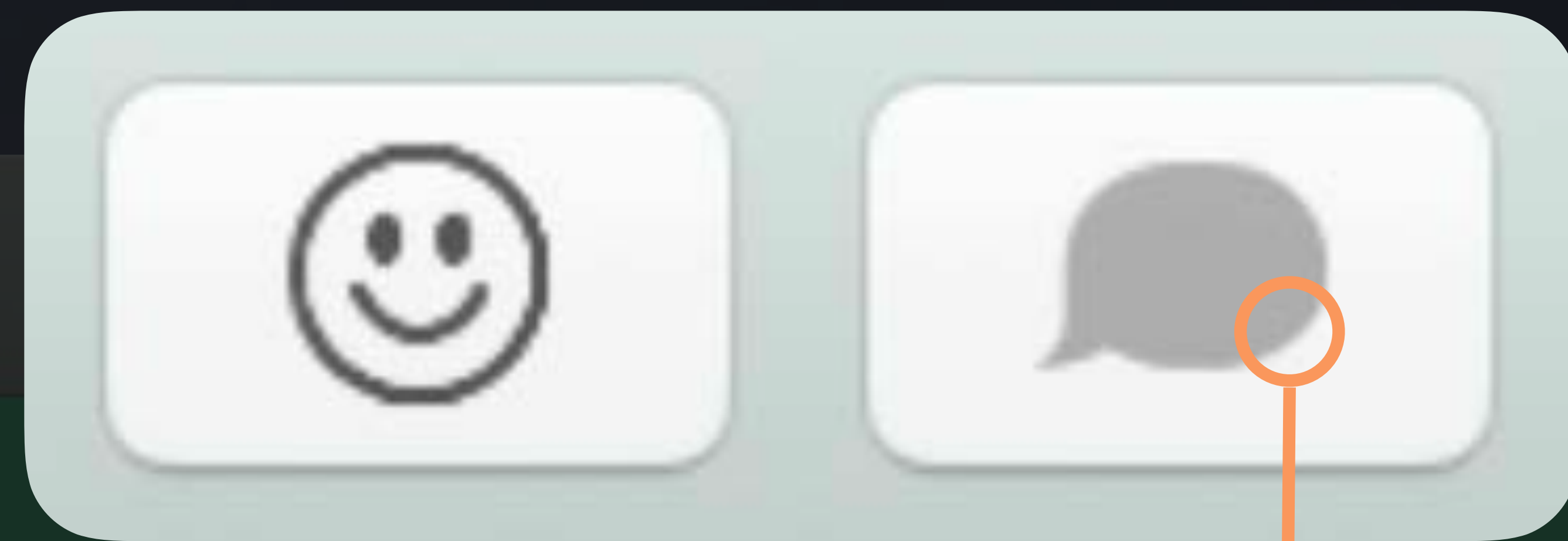


Notes



# Template Images

Button state can change color

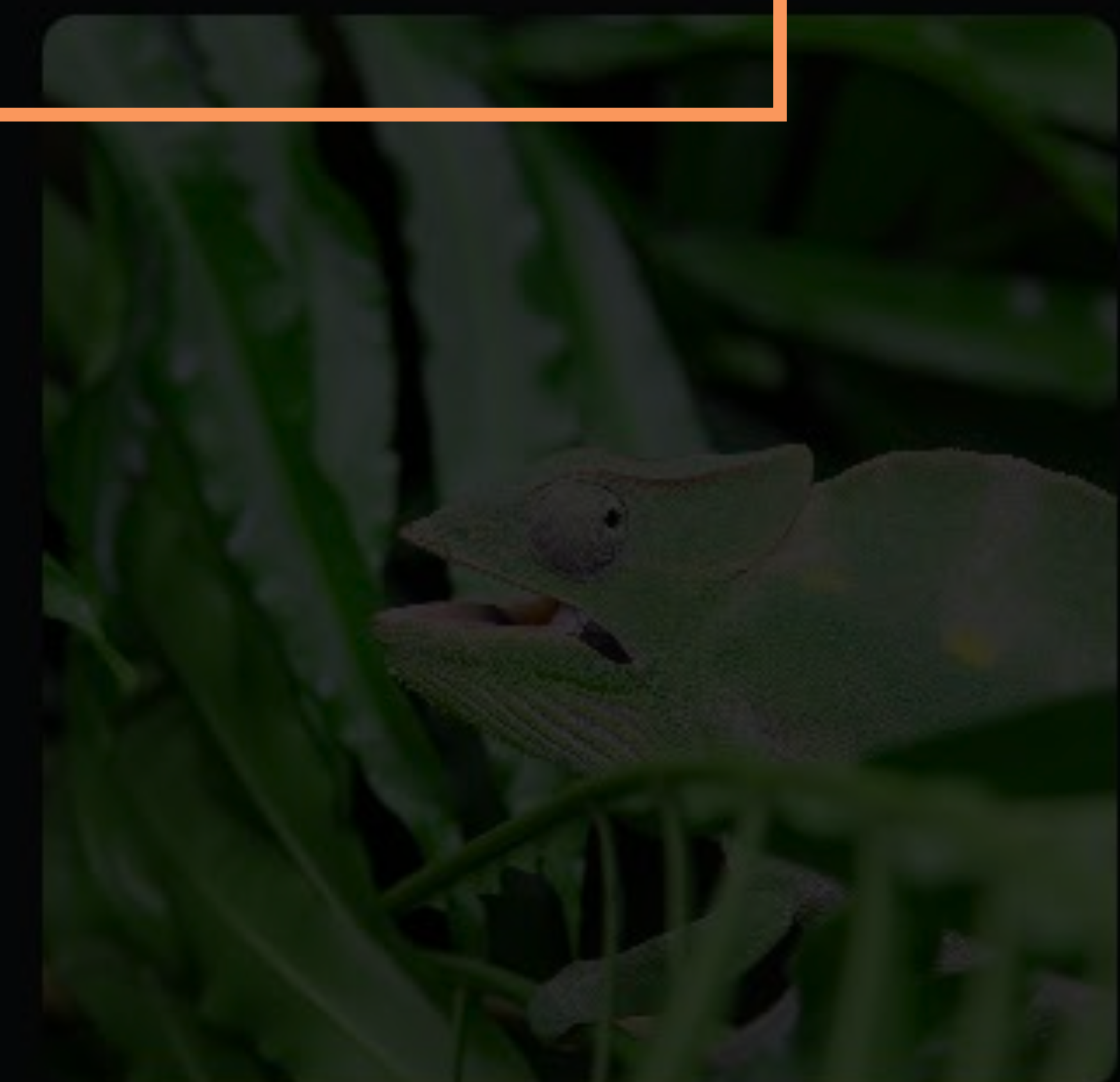
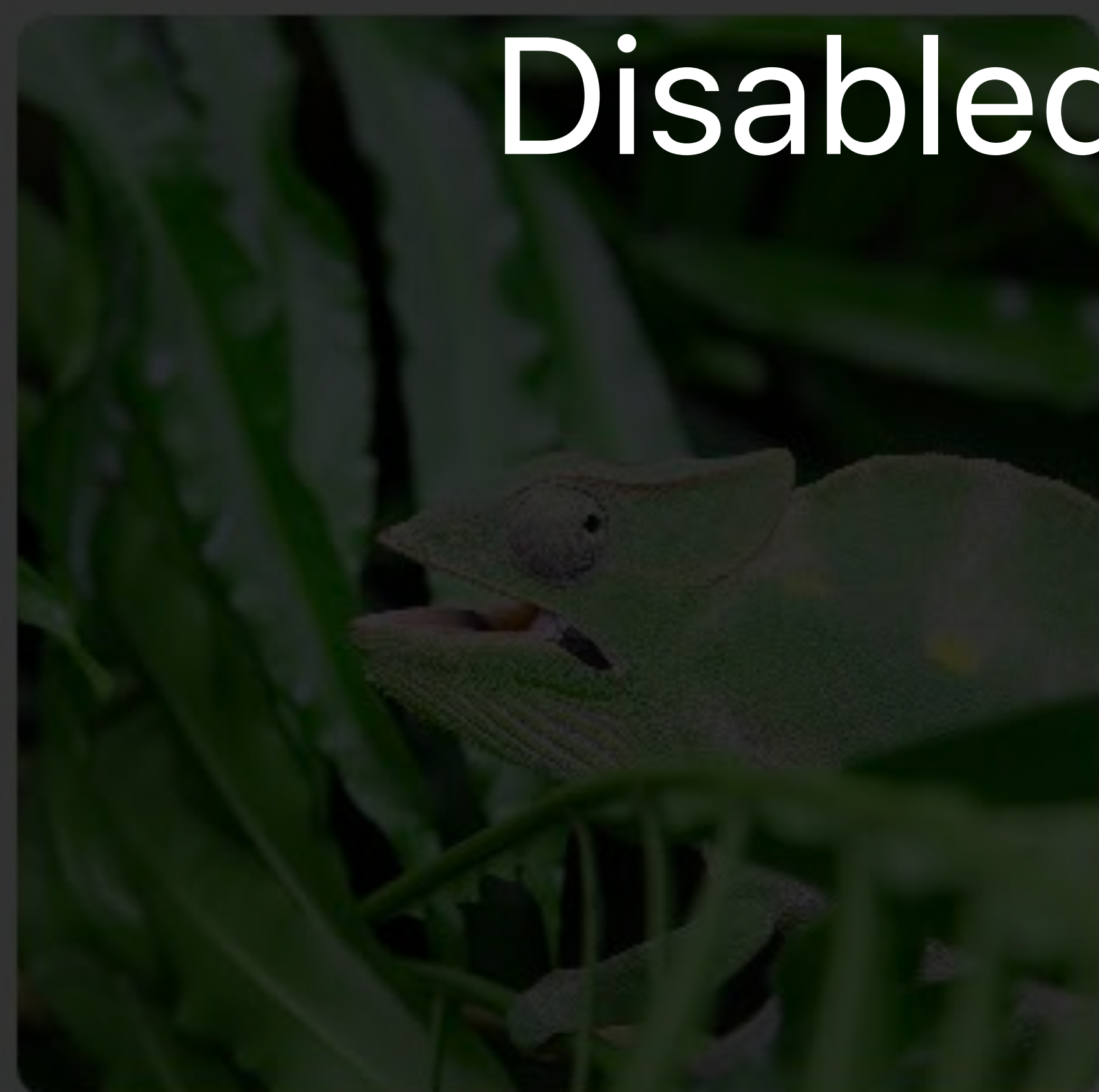
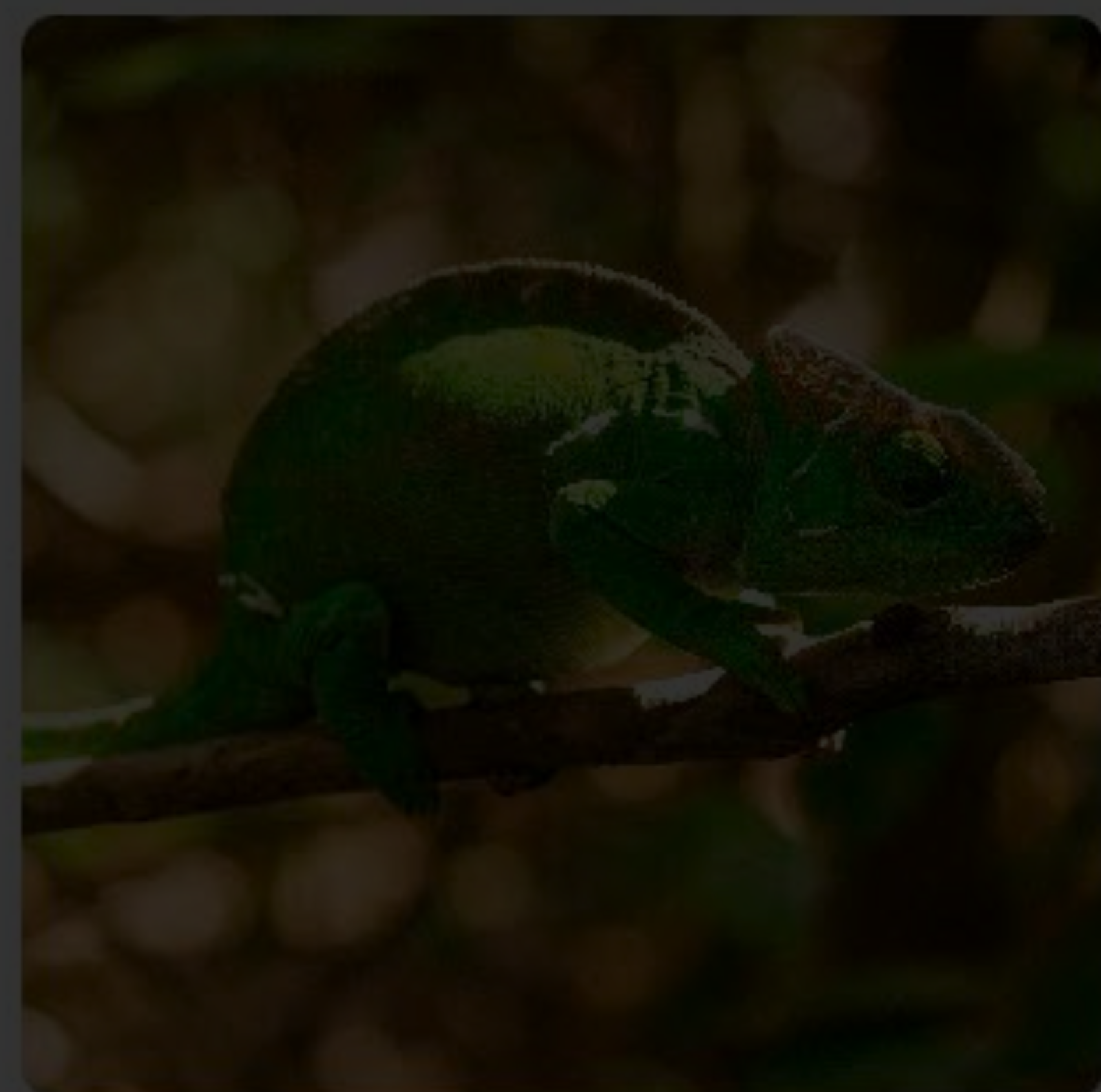


Notes



Notes

Disabled button images are dimmer





Chameleons

- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

**Chloe**  
2 years old

Photos Vitals Notes

Chameleons

- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

**Chloe**  
2 years old

Photos Vitals

Reaction overlay: Sad face, Neutral face, Happy face, Volume slider



Assets.xcassets — Edited

Chameleon Wrangler > Chameleon Wrangler > Assets.xcassets > Happy

Chameleons

- Happy
- Neutral
- Sad
- Chadwick
- Chloe
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

**Happy** Image

Any Appearance

Dark Appearance

Mac

**Neutral** Image

Any Appearance

Dark Appearance

Mac

**Sad** Image

Image Set

Name: Multiple Values

Render As: Default

Compression: Inherited (Automatic)

Resizing:  Preserve Vector Data

Devices:  Universal,  iPhone,  iPad,  Car,  Apple Watch,  Apple TV,  Mac

Appearances: Any, Dark, High Contrast

Scales: Single Scale

Gamut: Any

Direction: Fixed

Width Class: Any

Height Class: Any

Memory:  1 GB,  2 GB,  3 GB,  4 GB

Graphics:  Metal 1v2,  Metal 2v2,  Metal 3v1,  Metal 3v2,  Metal 4v1

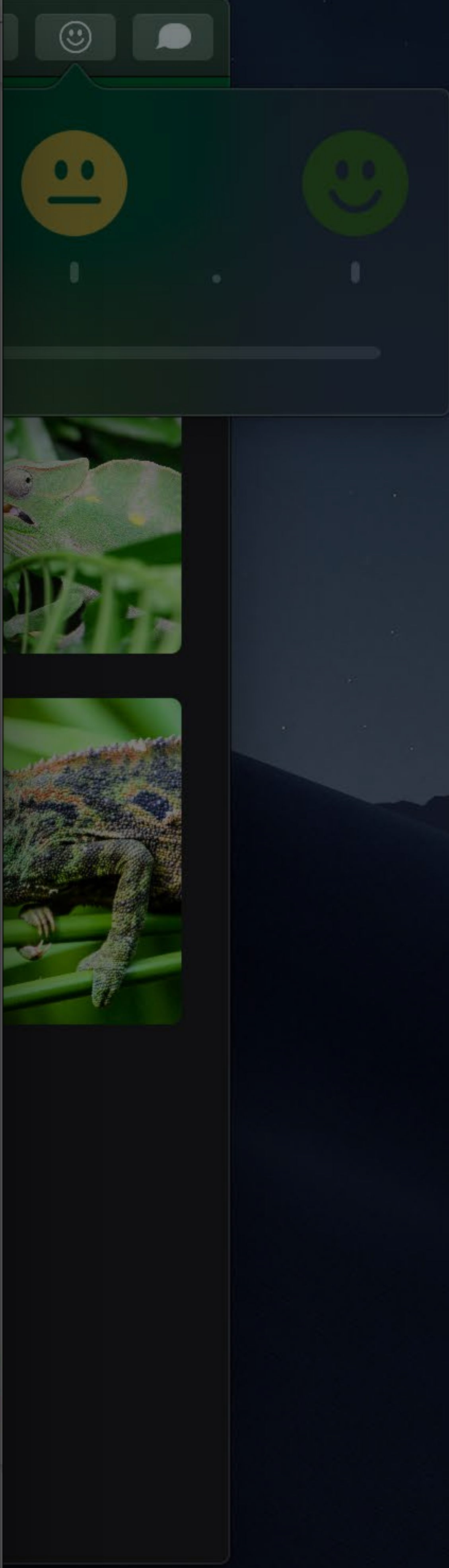
Screen Width: None

Auto Scaling: None

On Demand Resource Tags

Tags

+ - Filter Show Slicing





Assets.xcassets — Edited

Chameleon Wrangler > Chameleon Wrangler > Assets.xcassets > Happy

Chameleons

- Happy
- Neutral
- Sad
- Chadwick
- Chloe
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

**Happy** Image

Any Appearance

Dark Appearance

Mac

**Neutral** Image

Any Appearance

Dark Appearance

Mac

**Sad** Image

Image Set

Name: Multiple Values

Render As: Default

Compression: Inherited (Automatic)

Resizing:  Preserve Vector Data

Devices:  Universal,  iPhone,  iPad,  Car,  Apple Watch,  Apple TV,  Mac

Appearances: Any, Dark,  High Contrast

Scales: Single Scale

Gamut: Any

Direction: Fixed

Width Class: Any

Height Class: Any

Memory:  1 GB,  2 GB,  3 GB,  4 GB

Graphics:  Metal 1v2,  Metal 2v2,  Metal 3v1,  Metal 3v2,  Metal 4v1

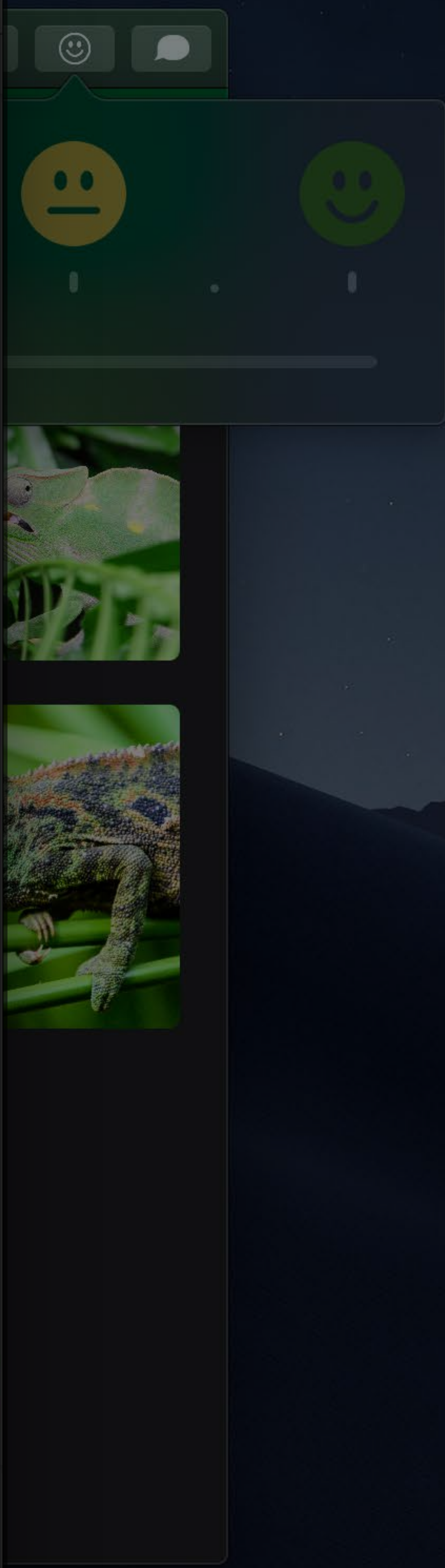
Screen Width: None

Auto Scaling: None

On Demand Resource Tags

Tags

Filter Show Slicing



# Content Tint Color

NEW

Custom template tint colors

UIImageView: Image

UIButton: Image and title


```
@available(OSX 10.14, *)  
open var contentTintColor: NSColor?
```

### Assets.xcassets

Chameleon Wrangler > Chameleon Wrangler > Assets.xcassets > Happy


- Chameleons
  - Happy
  - Neutral
  - Sad
- Chadwick
- Chloe
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

#### Happy




All  
Mac

#### Neutral



All  
Mac

#### Sad



All  
Mac

#### Image Set

Name: Multiple Values

Render As: Default

Compression: Inherited (Automatic)

Resizing:  Preserve Vector Data

Devices:  Universal,  iPhone,  iPad,  Car,  Apple Watch,  Apple TV,  Mac

Appearances: None,  High Contrast

Scales: Single Scale

Gamut: Any

Direction: Fixed

Width Class: Any

Height Class: Any

Memory:  1 GB,  2 GB,  3 GB,  4 GB

Graphics:  Metal 1v2,  Metal 2v2,  Metal 3v1,  Metal 3v2,  Metal 4v1

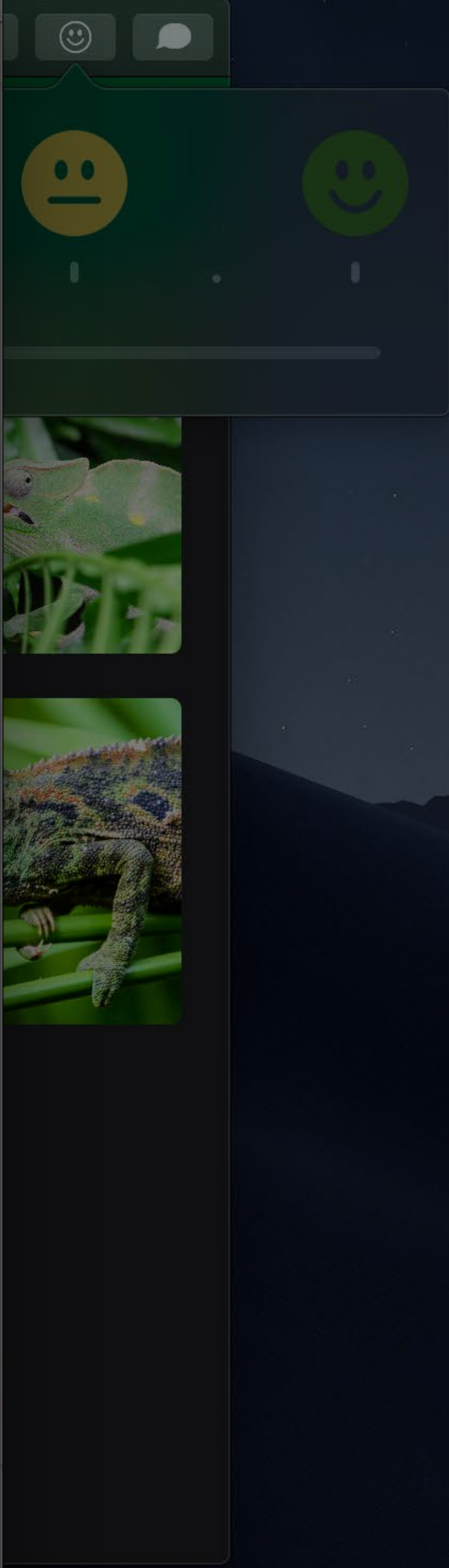
Screen Width: None

Auto Scaling: None

#### On Demand Resource Tags

Tags

+ - Filter Show Slicing



Assets.xcassets

Chameleon Wrangler > Chameleon Wrangler > Assets.xcassets > Happy

- Chameleons
  - Happy
  - Neutral
  - Sad
- Chadwick
- Chloe
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

**Happy** Image

All  
Mac

**Neutral** Image

All  
Mac

**Sad** Image

All  
Mac

Image Set

Name Multiple Values

Render As Default

Compression Inherited (Automatic)

Resizing  Preserve Vector Data

Devices  Universal  
 iPhone  
 iPad  
 Car  
 Apple Watch  
 Apple TV  
 Mac

Appearances None  High Contrast

Scales Single Scale

Gamut Any

Direction Fixed

Width Class Any

Height Class Any

Memory  1 GB  
 2 GB  
 3 GB  
 4 GB

Graphics  Metal 1v2  
 Metal 2v2  
 Metal 3v1  
 Metal 3v2  
 Metal 4v1

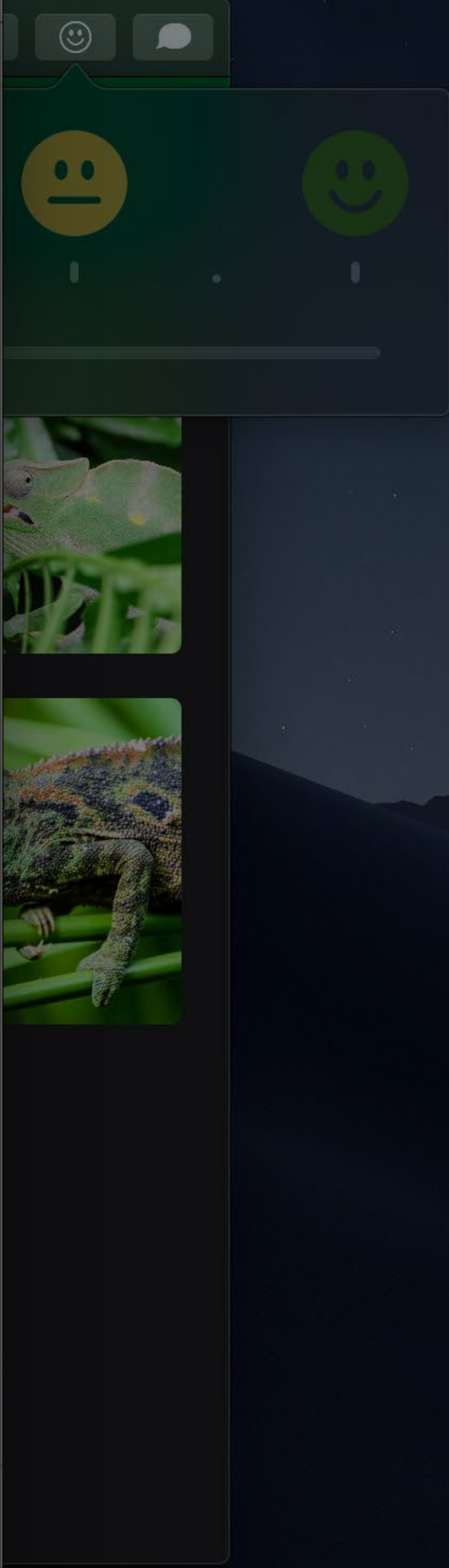
Screen Width None

Auto Scaling None

On Demand Resource Tags

Tags

+ - Filter Show Slicing







Assets.xcassets

Chameleon Wrangler > Chameleon Wrangler > Assets.xcassets > Happy

Chameleons

- Happy
- Neutral
- Sad
- Chadwick
- Chloe
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

**Happy** Image Set

Render As **Template Image**

Resizing  Preserve Vector Data

Devices  Universal

- iPhone
- iPad
- Car
- Apple Watch
- Apple TV
- Mac

Appearances **None**

- High Contrast

Scales **Single Scale**

Gamut **Any**

Direction **Fixed**

Width Class **Any**

Height Class **Any**

Memory  1 GB

- 2 GB
- 3 GB
- 4 GB

Graphics  Metal 1v2

- Metal 2v2
- Metal 3v1
- Metal 3v2
- Metal 4v1

Screen Width **None**

Auto Scaling **None**

**On Demand Resource Tags**

Tags

Happy

Neutral

Sad

All

Mac

Filter

Show Slicing



Chameleons

- Chadwick
- Chloe
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

**Chloe**  
2 years old

Photos Vitals

Chloe's photo gallery features 15 individual images of the chameleon. The photos show her in various poses, including perched on branches, eating, and resting. Her colors range from bright green to more complex patterns of green and brown.

Emotion slider control:

- Sad face icon
- Neutral face icon
- Happy face icon

Volume indicator:

- Speaker icon
- Volume slider

Assets.xcassets

Chameleon Wrangler > Chameleon Wrangler > Assets.xcassets > SadTint

Chameleons

- Happy
- HappyTint**
- Neutral
- NeutralTint**
- Sad
- SadTint**

Chadwick

Chloe

Chuy

Chelsey

Chevy

Chiwetel


Chester

Chubs

Cleopatra


Charlotte

HappyTint Color




Mac

NeutralTint Color



Mac

SadTint Color



Mac

Color Set

Name Multiple Values

Devices

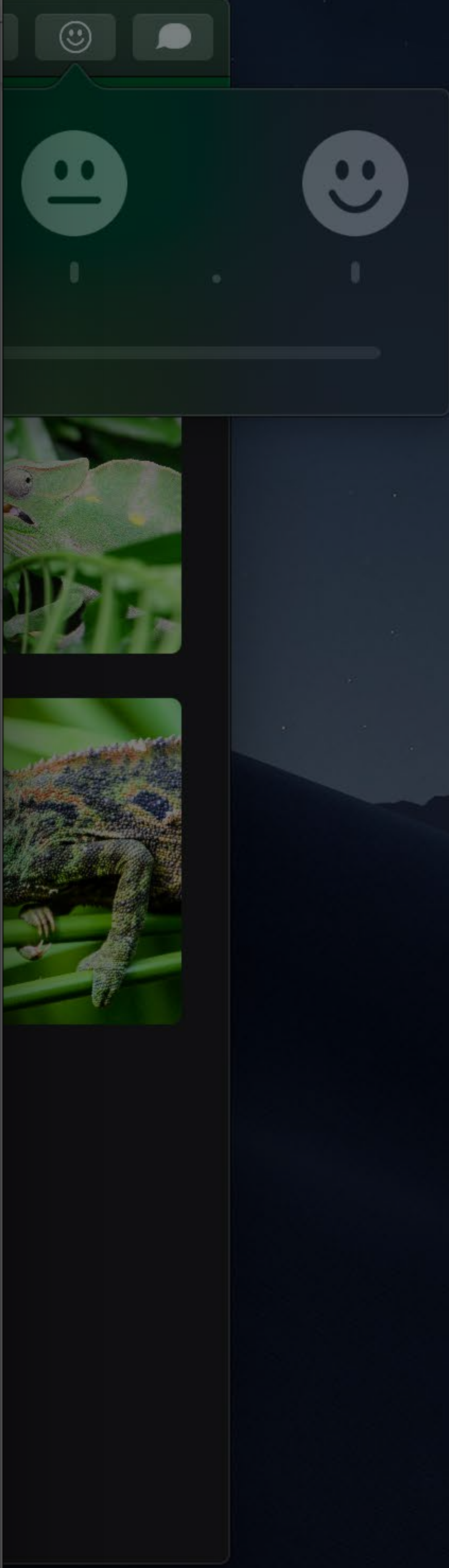
- Universal
- iPhone
- iPad
- Apple Watch
- Apple TV
- Mac

Appearances None

- High Contrast

Gamut Any

+ - Filter Show Slicing



Assets.xcassets

Chameleon Wrangler > Chameleon Wrangler > Assets.xcassets > SadTint

Chameleons

- Happy
- HappyTint**
- Neutral
- NeutralTint**
- Sad
- SadTint**

Chadwick

Chloe

Chuy

Chelsey

Chevy

Chiwetel

Chester

Chubs

Cleopatra

Charlotte

**HappyTint** Color

Any Appearance Dark Appearance

Mac

**NeutralTint** Color

Any Appearance Dark Appearance

Mac

**SadTint** Color

Any Appearance Dark Appearance

Mac

Color Set

Name Multiple Values

Devices

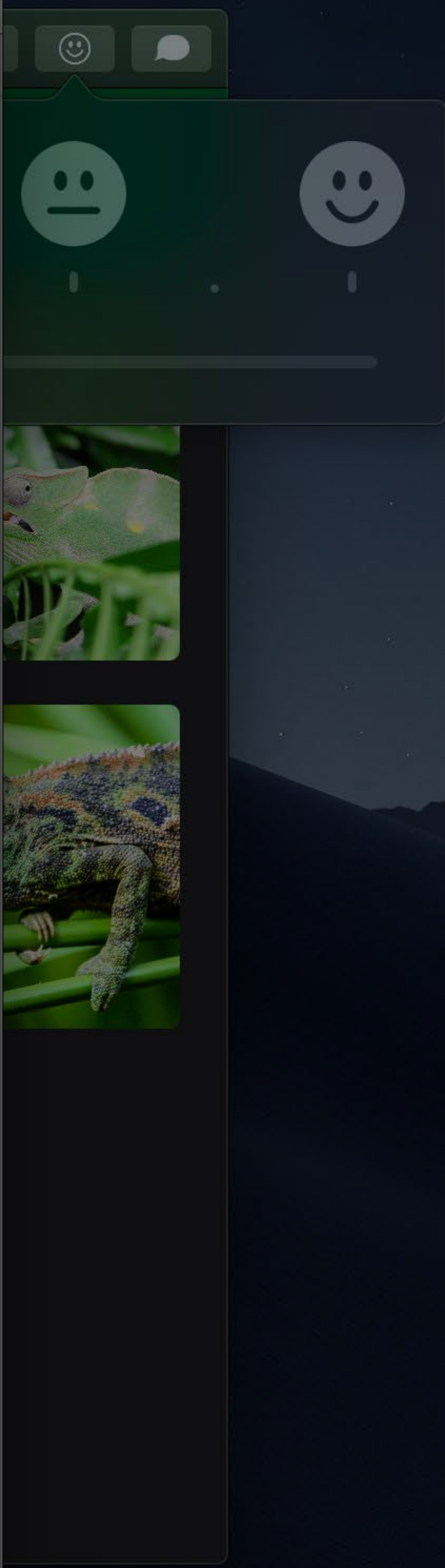
- Universal
- iPhone
- iPad
- Apple Watch
- Apple TV
- Mac

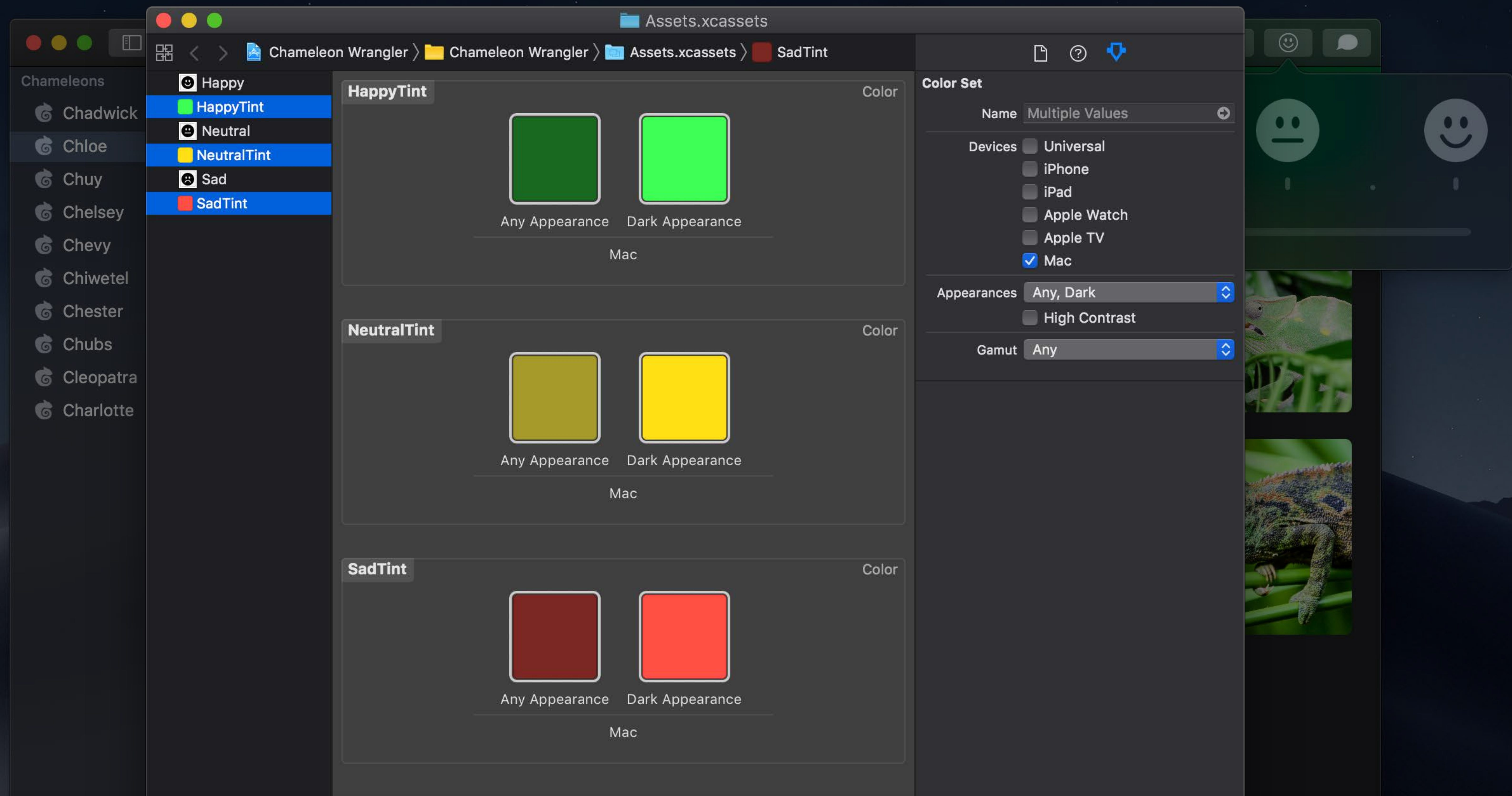
Appearances

- Any, Dark
- High Contrast

Gamut Any

+ - Filter Show Slicing



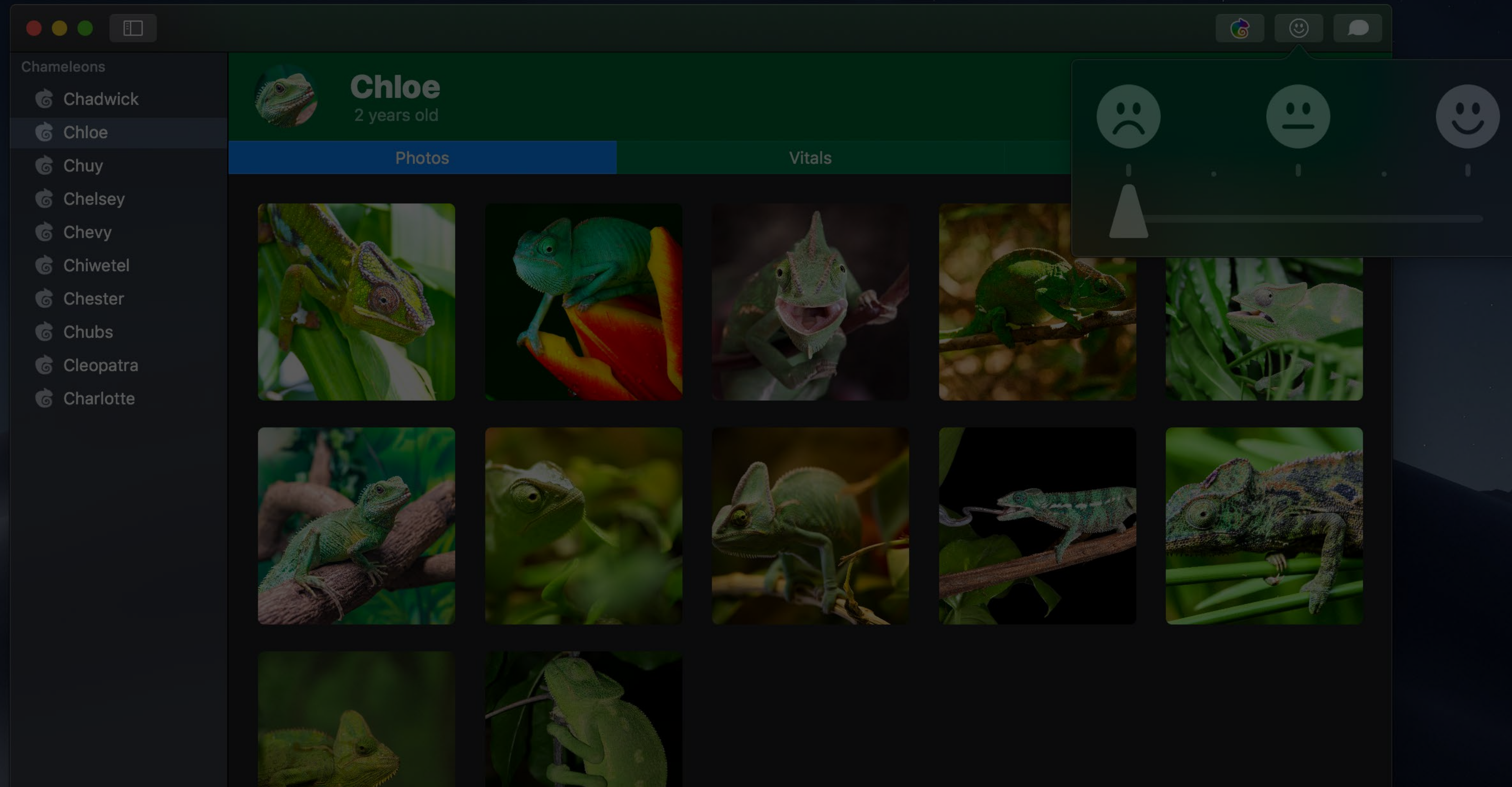


```
sadButton.contentTintColor = NSColor(named: "SadTint")
neutralButton.contentTintColor = NSColor(named: "NeutralTint")
happyButton.contentTintColor = NSColor(named: "HappyTint")
```



The screenshot shows the Xcode interface for editing an Assets.xcassets file. On the left, a list of 'Chameleons' includes Chadwick, Chloe, Chuy, Chelsey, Chevy, Chiwetel, Chester, Chubs, Cleopatra, and Charlotte. The main area displays three color tint sets: 'HappyTint' (green), 'NeutralTint' (yellow), and 'SadTint' (red). Each set has two color swatches labeled 'Any Appearance' and 'Dark Appearance'. A 'Color Set' panel on the right shows settings for 'Mac' (checked) and 'Appearances' set to 'Any, Dark'. A preview of a button with a sad face is visible on the right side of the interface.

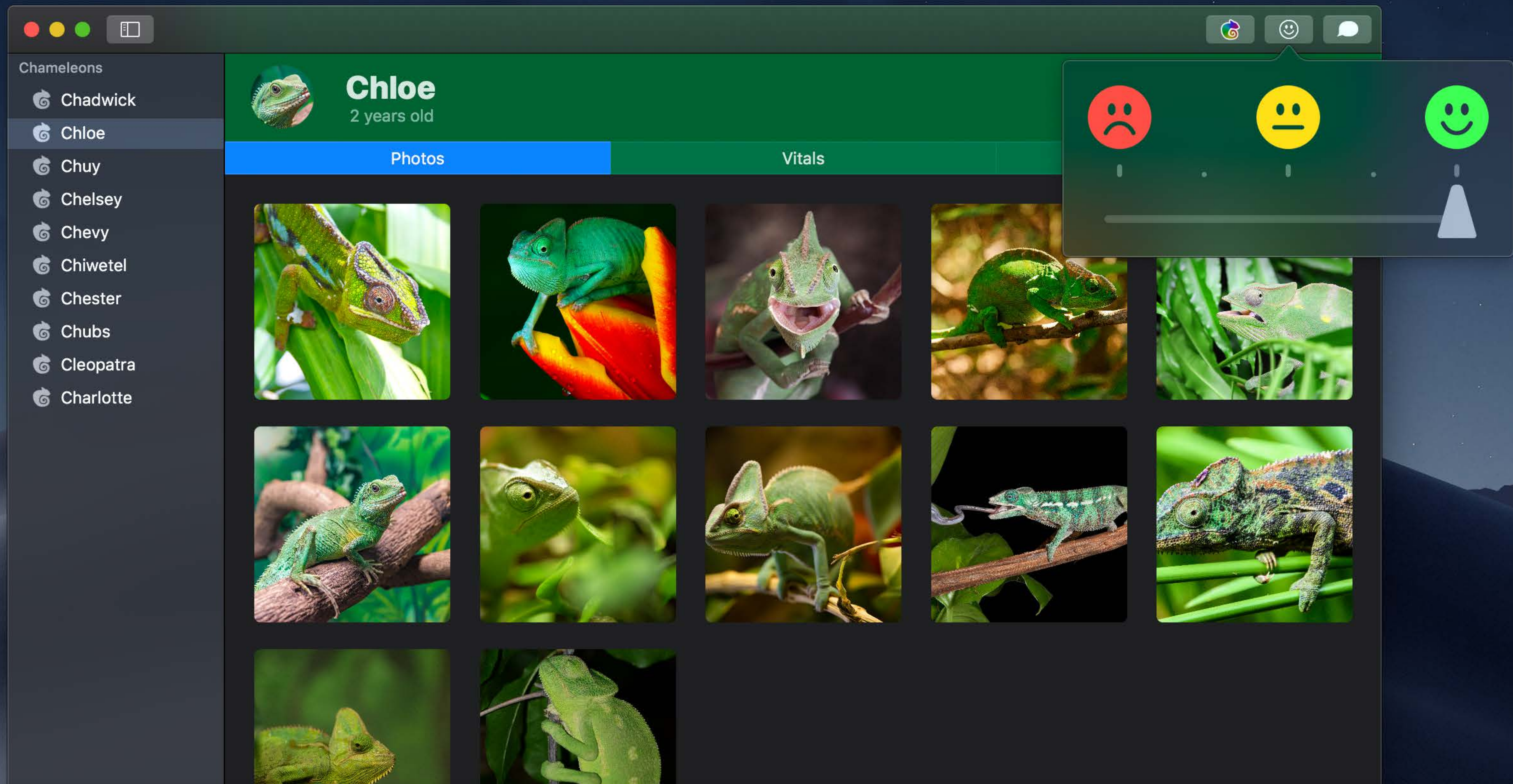
```
sadButton.contentTintColor = NSColor(named: "SadTint")
neutralButton.contentTintColor = NSColor(named: "NeutralTint")
happyButton.contentTintColor = NSColor(named: "HappyTint")
```



```
sadButton.contentTintColor = .systemRed  
neutralButton.contentTintColor = .systemYellow  
happyButton.contentTintColor = .systemGreen
```







```
sadButton.contentTintColor = .systemRed
neutralButton.contentTintColor = .systemYellow
happyButton.contentTintColor = .systemGreen
```





**Normal**



**Pressed**



**Disabled**



**Normal**



**Pressed**



**Disabled**



Chameleons

- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

**Chloe**  
2 years old

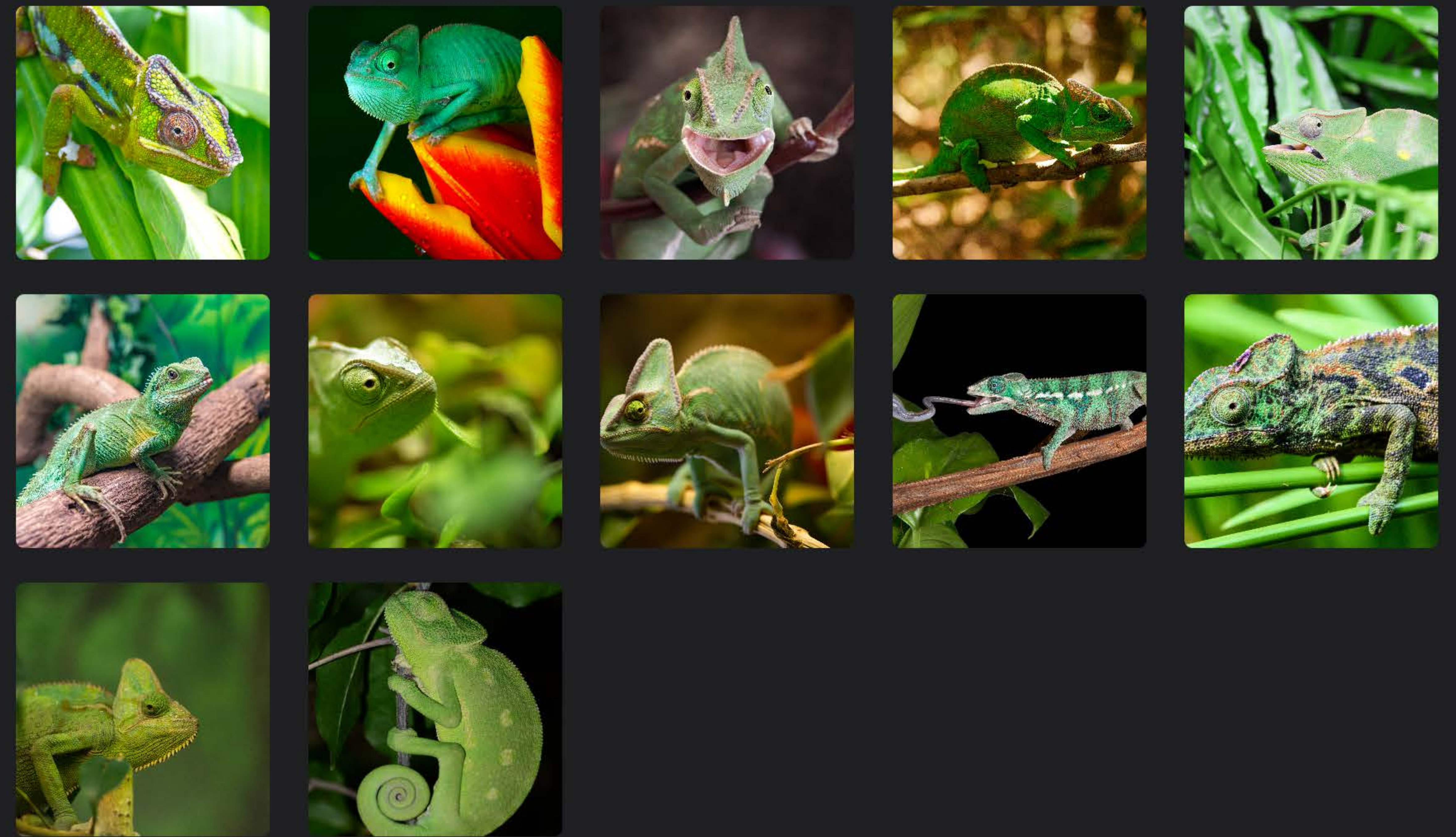
Photos Vitals

Chameleons

- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte


**Chloe**  
2 years old

Photos Vitals Notes



Chameleons

- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte



## Chloe

2 years old

Photos | **Vitals** | Notes

Birth name:

Birth date:

Species:

Length:

Weight:

Tongue velocity:  4.2 m/s

Omnivorous

Cricket intake:

Favorite berry:

Water intake:

Preferred temperature:

Excitement level:  Low  Medium  WWDC



Courtship behavior:  Head Roll  Chin Rub



Chameleons

- Chadwick
- Chloe
- Chuy
- Chelsey
- Chevvy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

### General

Appearance:  

Accent color: ● ● ● ● ● ● ● ● ● ●

Highlight color: Blue ▾

Sidebar icon size: Medium ▾

Automatically hide and show the menu bar

---

Show scroll bars:  Automatically based on mouse or trackpad  
 When scrolling  
 Always

Click in the scroll bar to:  Jump to the next page  
 Jump to the spot that's clicked

---

Default web browser: Safari ▾

---

Ask to keep changes when closing documents  
 Close windows when quitting an app  
When selected, open documents and windows will not be restored when you re-open an app.

Recent items: 10 ▾ Documents, Apps, and Servers

Allow Handoff between this Mac and your iCloud devices

---

Use LCD font smoothing when available ?







Chameleons

- Chadwick
- Chloe
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

General

Appearance:  

Accent color: ● ● ● ● ● ● ● ● ●

Highlight color: Yellow

Sidebar icon size: Medium

Automatically hide and show the menu bar

---

Show scroll bars:  Automatically based on mouse or trackpad  
 When scrolling  
 Always

Click in the scroll bar to:  Jump to the next page  
 Jump to the spot that's clicked

---

Default web browser: Safari

---

Ask to keep changes when closing documents  
 Close windows when quitting an app  
 When selected, open documents and windows will not be restored when you re-open an app.

Recent items: 10 Documents, Apps, and Servers


Allow Handoff between this Mac and your iCloud devices

---

Use LCD font smoothing when available

?




Chloe  
2 years old

Photos
Vitals
Notes

Chameleons

- Chadwick
- Chloe
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

Birth name:

Birth date:

Species:

Length:

Weight:

Tongue velocity:  4.2 m/s

Omnivorous

Cricket intake:

Favorite berry:

Water intake:

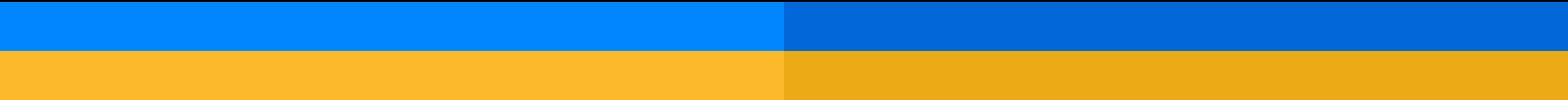
Preferred temperature:

Excitement level: Low Medium WWDC

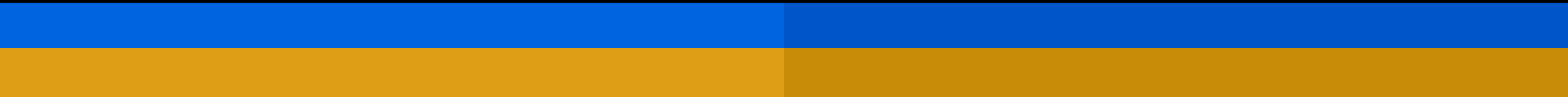
Courtship behavior:  Head Roll  Chin Rub

# Accent and Highlight Colors

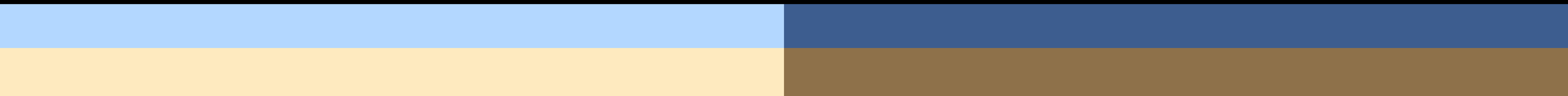
`controlAccentColor` — custom control accents



`selectedContentBackgroundColor` — background of table rows, etc

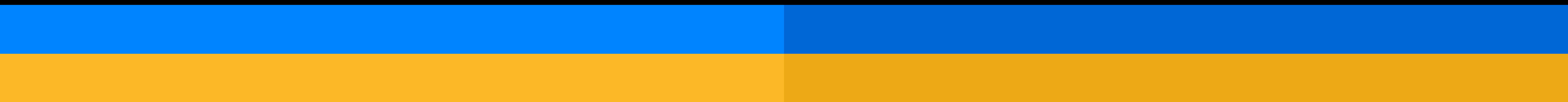


`selectedTextBackgroundColor` — background of selected text

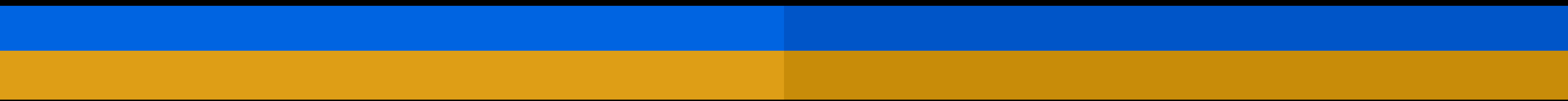


# Accent and Highlight Colors

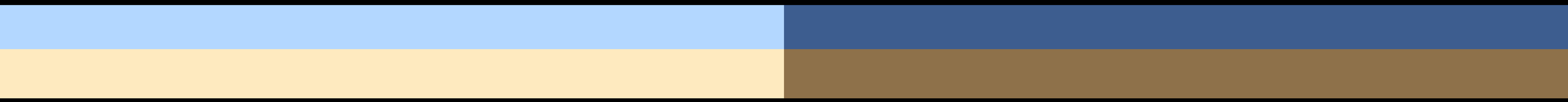
`controlAccentColor` — custom control accents NEW



`selectedContentBackgroundColor` — background of table rows, etc



`selectedTextBackgroundColor` — background of selected text



Chameleons

- Chadwick
- Chloe**
- Chuy
- Chelsey
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- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

### Chloe

2 years old

Photos Vitals Notes

Birth name:

Birth date:

Species:

Length:

Weight:

Tongue velocity:

Omnivorous

Cricket intake:

Favorite berry:

Water intake:

Preferred temperature:

Excitement level:  Low  Medium  WWDC

Courtship behavior:  Head Roll  Chin Rub

```
let selectedBackgroundColor = NSColor.systemBlueColor
```



Chameleons

- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

### Chloe

2 years old

Photos Vitals Notes

Birth name:

Birth date:

Species:

Length:

Weight:

Tongue velocity:

Omnivorous

Cricket intake:

Favorite berry:


Water intake:

Preferred temperature:

Excitement level:  Low  Medium  WWDC

Courtship behavior:  Head Roll  Chin Rub

```
let selectedBackgroundColor = NSColor.controlAccentColor
```





**Chloe**  
2 years old

Photos

Vitals

Notes

Birth name:

Birth date:

Species:

Length:

Weight:

Tongue velocity:

Omnivorous

Cricket intake:

Preferred temperature:

Excitement level:  Low  Medium  WWDC

Courtsip behavior:  Head Roll

```
let selectedBackgroundColor = NSColor.controlAccentColor
```





**Chloe**  
2 years old

Photos

Vitals

Notes

Birth name:

Birth date:

Species:

Length:

Weight:

Tongue velocity:  4.2 m/s

Omnivorous

Cricket intake:

Preferred temperature:

Excitement level:  Low  Medium  WWDC

Courtsip behavior:  Head Roll

```
let selectedBackgroundColor = NSColor.controlAccentColor
```







**Chloe**  
2 years old

Photos | **Vitals** | Notes

Birth name:

Birth date:

Species:

Length:

Weight:

Tongue velocity:  4.2 m/s

Omnivorous

Cricket intake:

Preferred temperature:

Excitement level:  Low  Medium  WWDC

```
let selectedBackgroundColor = NSColor.controlAccentColor
```



**Chloe**  
2 years old

Photos

Vitals

Notes

Birth name:

Birth date:

Species:

Length:

Weight:

Tongue velocity:  4.2 m/s

Omnivorous

Cricket intake:

Preferred temperature:

Excitement level:  Low  Medium  WWDC

Courtsip behavior:  Head Roll

```
let selectedBackgroundColor = NSColor.controlAccentColor
let pressedBackgroundColor = selectedBackgroundColor.shadowWithLevel(0.3)
```





**Chloe**  
2 years old

Photos | **Vitals** | Notes

Birth name:

Birth date:

Species:

Length:

Weight:

Tongue velocity:  4.2 m/s

Omnivorous

Cricket intake:

Preferred temperature:

Excitement level:  Low  Medium  WWDC

```
let selectedBackgroundColor = NSColor.controlAccentColor
let pressedBackgroundColor = selectedBackgroundColor.withSystemEffect(.pressed)
```





**Chloe**  
2 years old

Photos

Vitals

Notes

Birth name:

Birth date:

Species:

Length:

Weight:

Tongue velocity:  4.2 m/s

Omnivorous

Cricket intake:

Preferred temperature:

Excitement level:  Low  Medium  WWDC

```
let selectedBackgroundColor = NSColor.controlAccentColor
let pressedBackgroundColor = selectedBackgroundColor.withSystemEffect(.pressed)
```



Chameleons

## Chloe

2 years old

Photos

Vitals

Notes

Birth name:

Birth date:

Species:

Length:

Weight:

Tongue velocity:  4.2 m/s

---

Omnivorous

Cricket intake:

Favorite berry:

Water intake:

---

Preferred temperature:

Excitement level:  Low  Medium  WWDC

Courtship behavior:  Head Roll  Chin Rub

- Chadwick
- Chloe
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte



Chameleons

- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

**Chloe**  
2 years old

Photos Vitals Notes

`NSColor.selectedContentBackgroundColor`

🌈 😊 💬

Chameleons

- 🌀 Chadwick
- 🌀 Chloe
- 🌀 Chuy
- 🌀 Chelsey
- 🌀 Chevy
- 🌀 Chiwetel
- 🌀 Chester
- 🌀 Chubs
- 🌀 Cleopatra
- 🌀 Charlotte

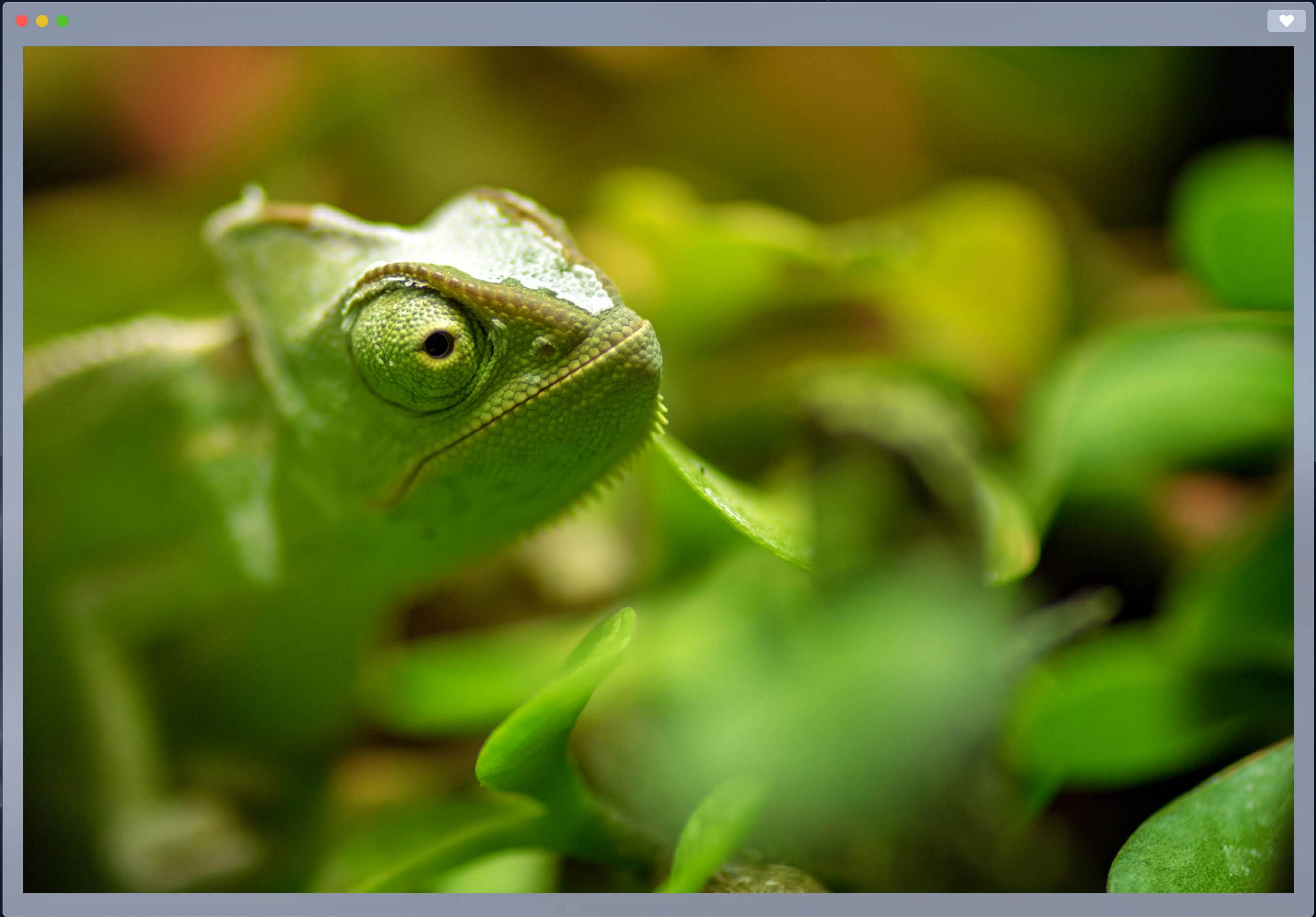
Chloe  
2 years old

Photos
Vitals
Notes

NSColor.selectedContentBackgroundColor





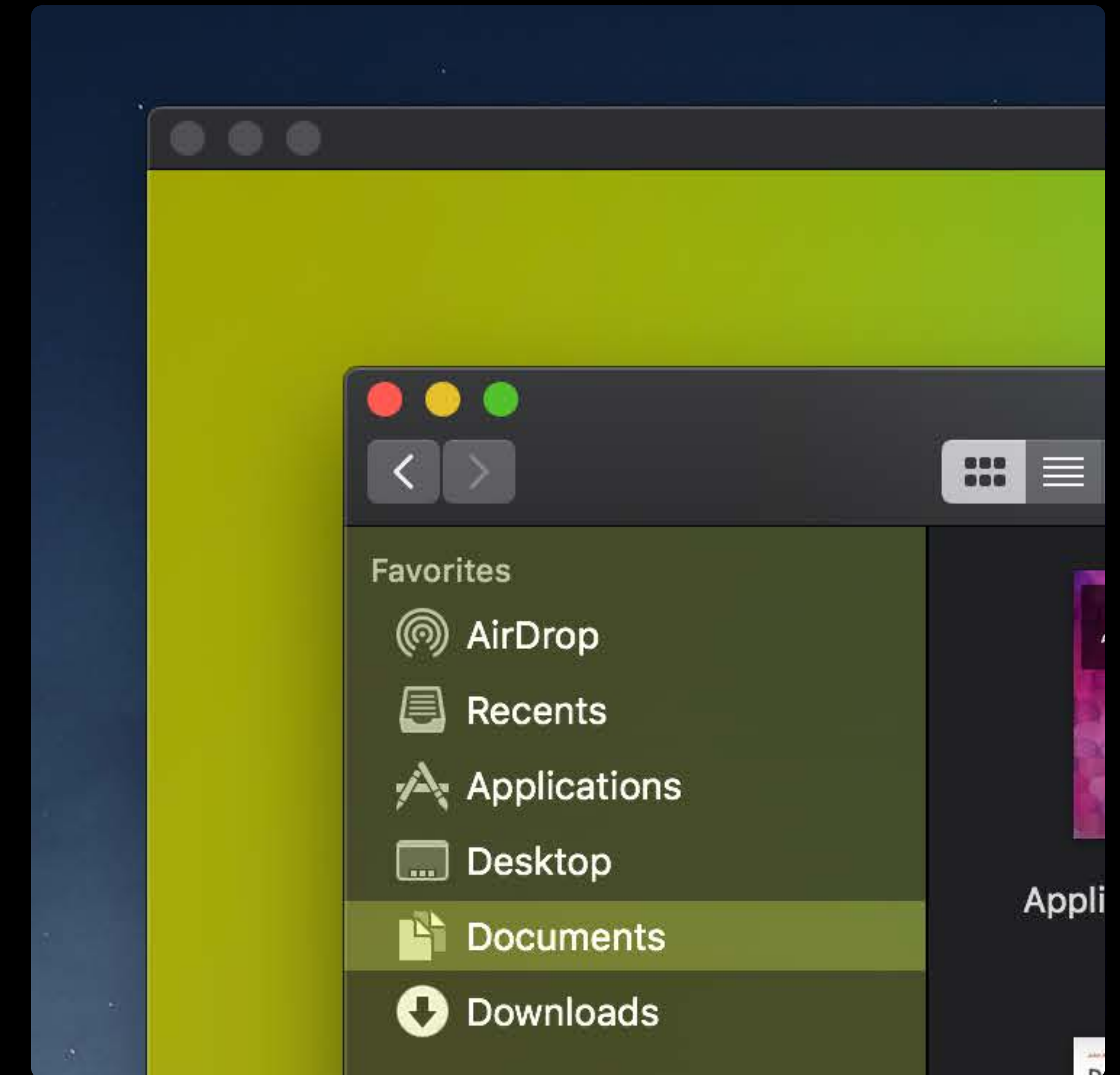


# NSVisualEffectView

Translucent blur materials

- Onto desktop and other windows
- Onto content in the window

Enables vibrant foreground blending

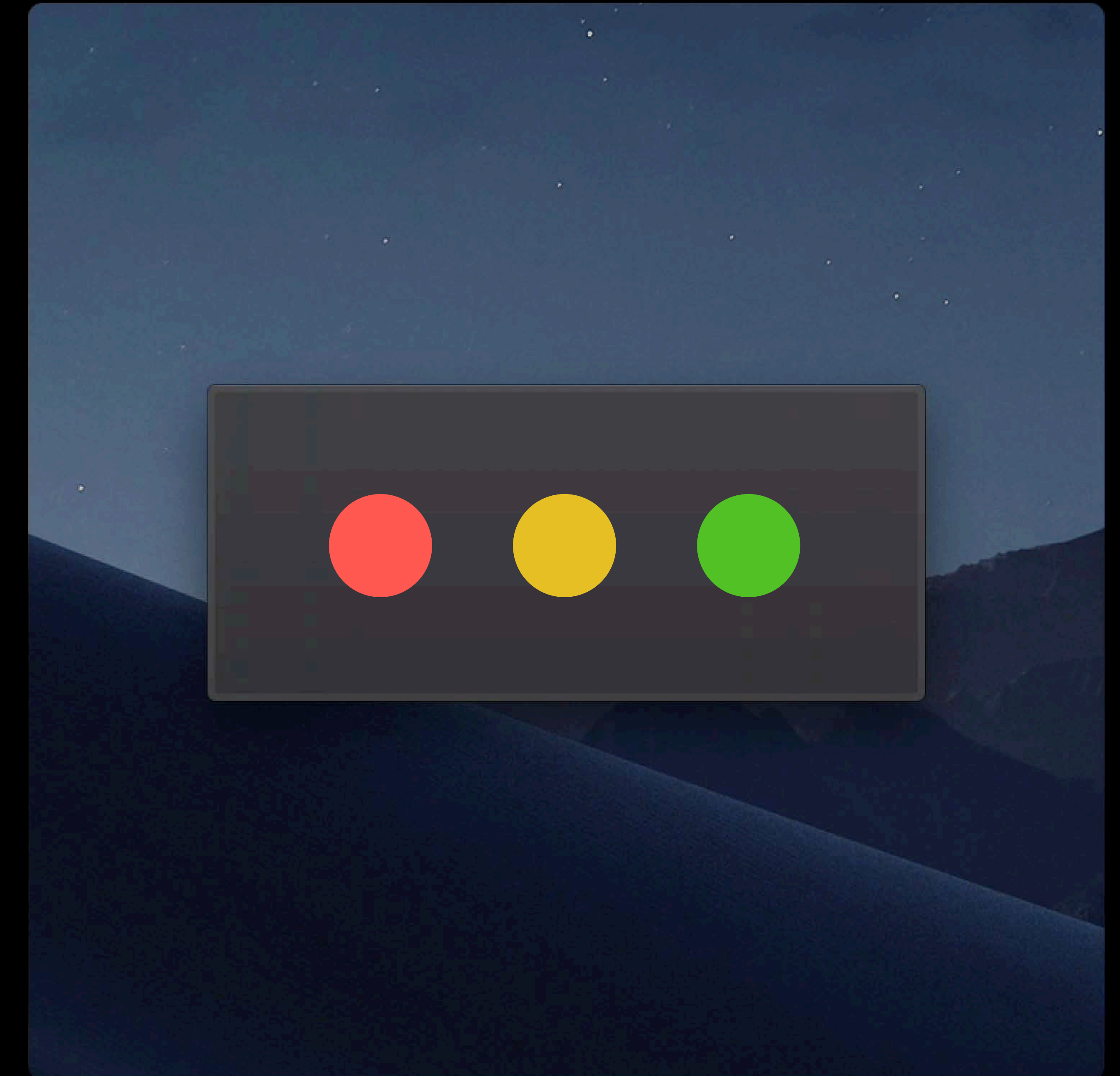


# NSVisualEffectView

Translucent blur materials

- Onto desktop and other windows
- Onto content in the window

Enables vibrant foreground blending





Chameleons

- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

**Chloe**  
2 years old

Photos Vitals Notes

Grid of 14 chameleon photos:

- Row 1: 5 photos showing various chameleon poses and colors.
- Row 2: 5 photos showing chameleons on branches and in close-up.
- Row 3: 2 photos showing a chameleon in profile and another curled up.

NSWindow  
Titlebar material

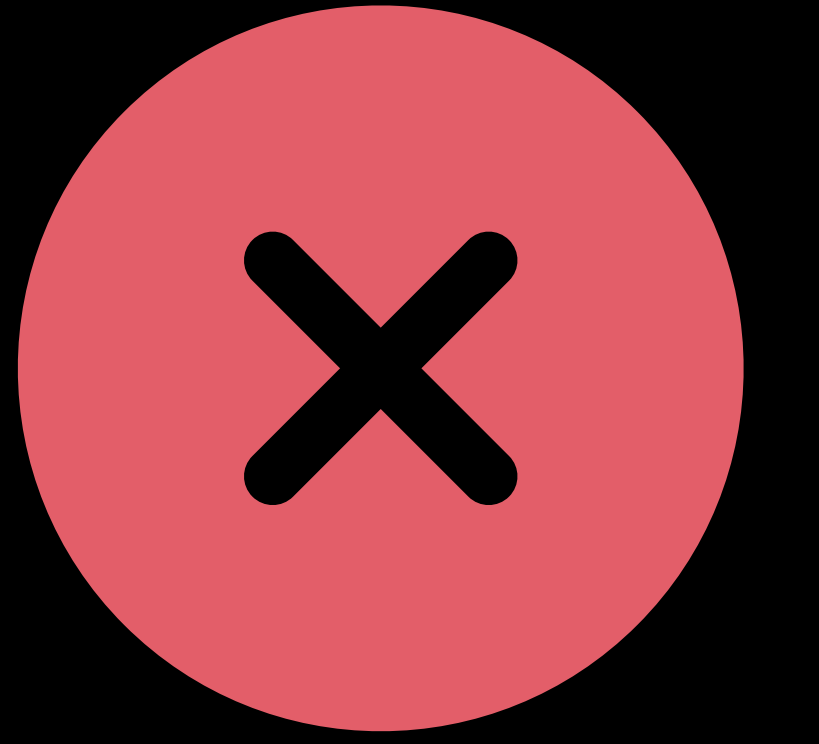
The screenshot shows a macOS application window with a title bar containing standard window controls (red, yellow, green buttons and a maximize button) and system status icons (a colorful swirl, a smiley face, and a speech bubble). The application's interface is divided into two main sections:

- Sidebar:** A dark sidebar on the left contains a list of chameleons under the heading "Chameleons". The list items are: Chadwick, Chloe (highlighted), Chuy, Chelsey, Chevy, Chiwetel, Chester, Chubs, Cleopatra, and Charlotte.
- Main Content Area:** The main area features a header for "Chloe" (2 years old) with a small profile picture. Below the header are three tabs: "Photos" (active), "Vitals", and "Notes". The "Photos" tab displays a grid of 14 chameleon images arranged in three rows: the first row has 5 images, the second row has 5 images, and the third row has 4 images.

NSWindow  
Titlebar material

Source list table and sidebar  
Sidebar material

# Nonsemantic Materials



Light

Dark

Medium Light

Ultra Dark

# Semantic Materials

Popover

Menu

Sidebar

Selection

Titlebar



# Semantic Materials

NEW

Popover

Sheet

Tool Tip

Menu

HUD Window

Content Background

Sidebar

Header View

Window Background

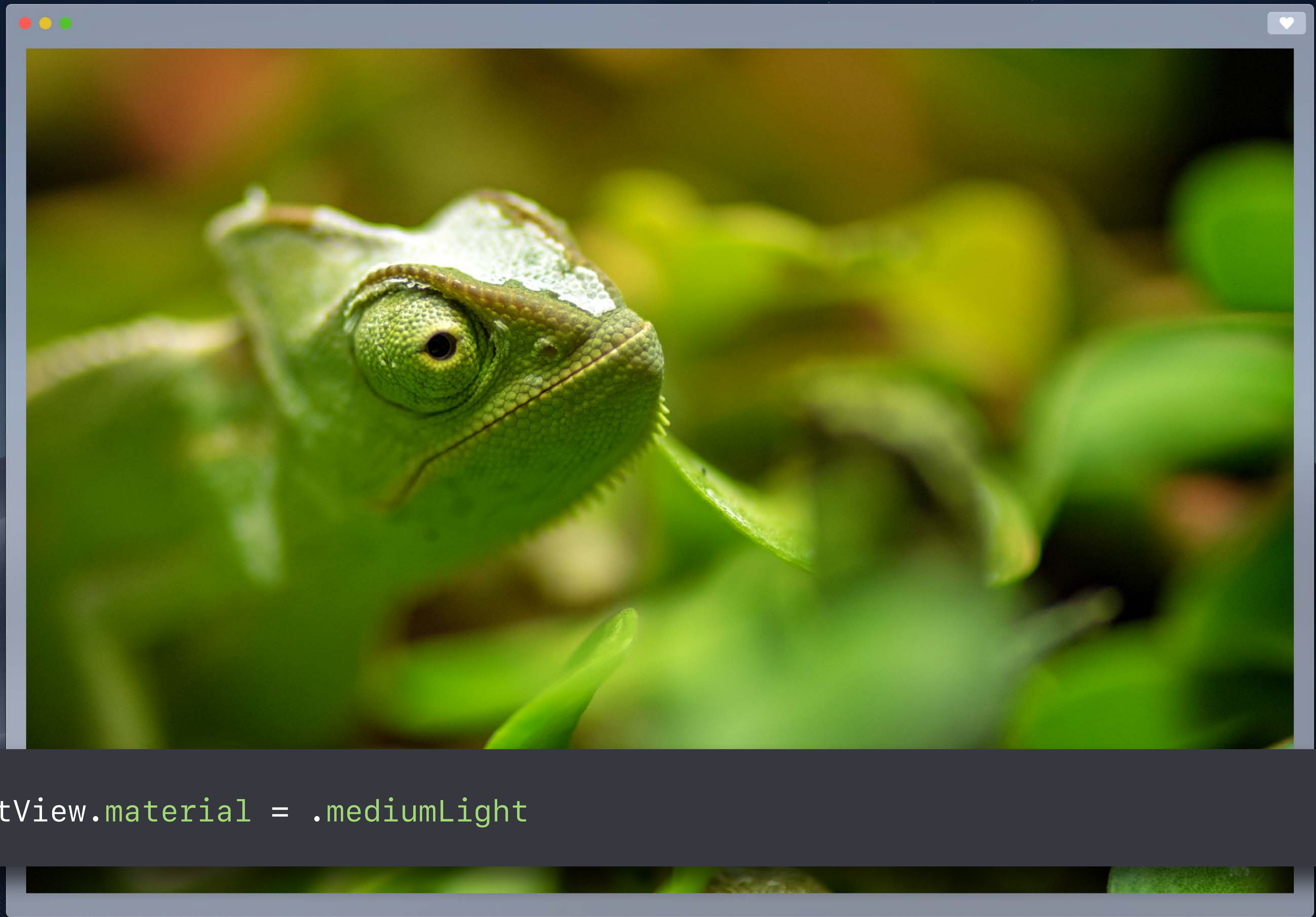
Selection

Under Window Background

Under Page Background

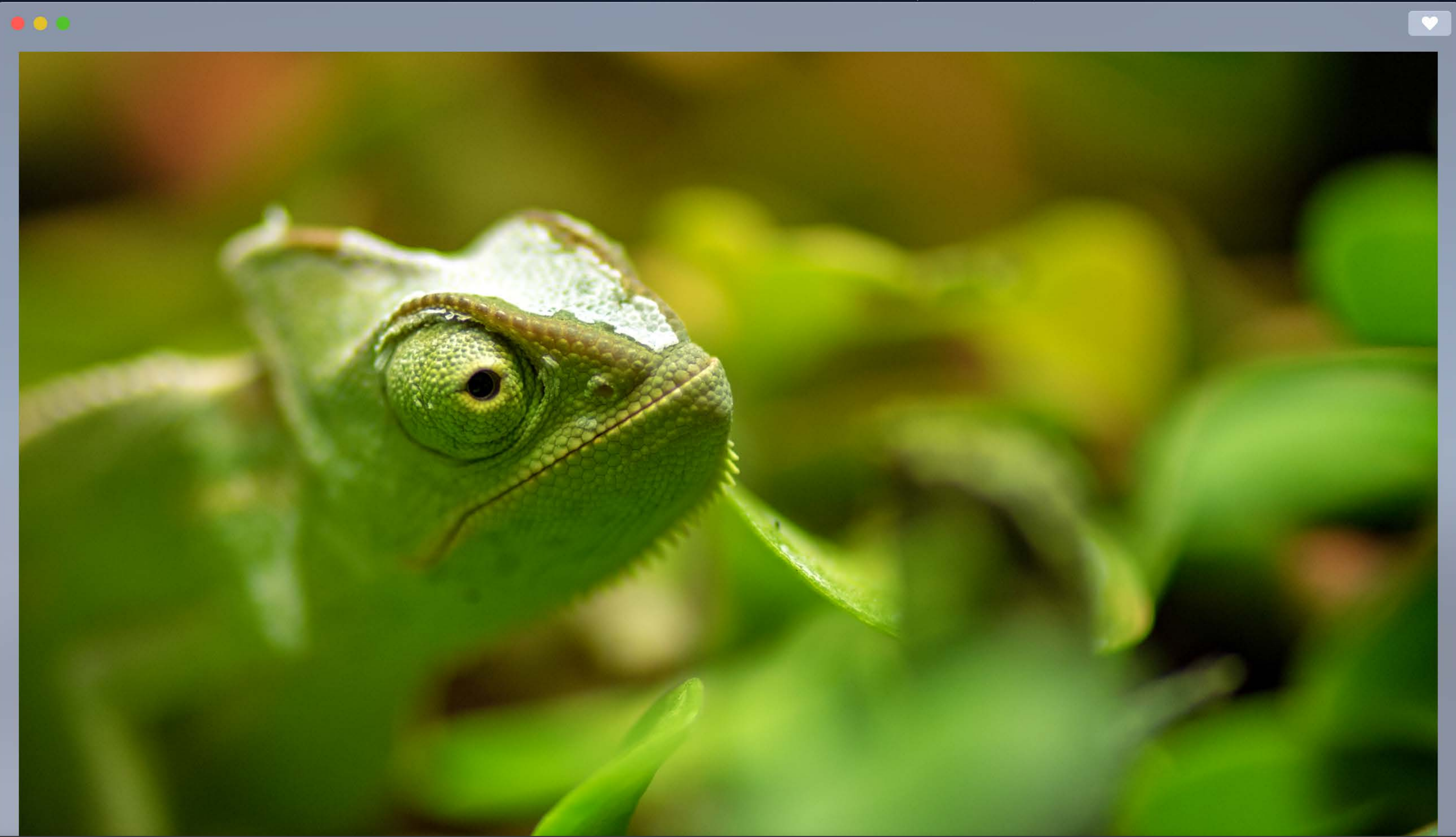
Titlebar

Full-Screen UI



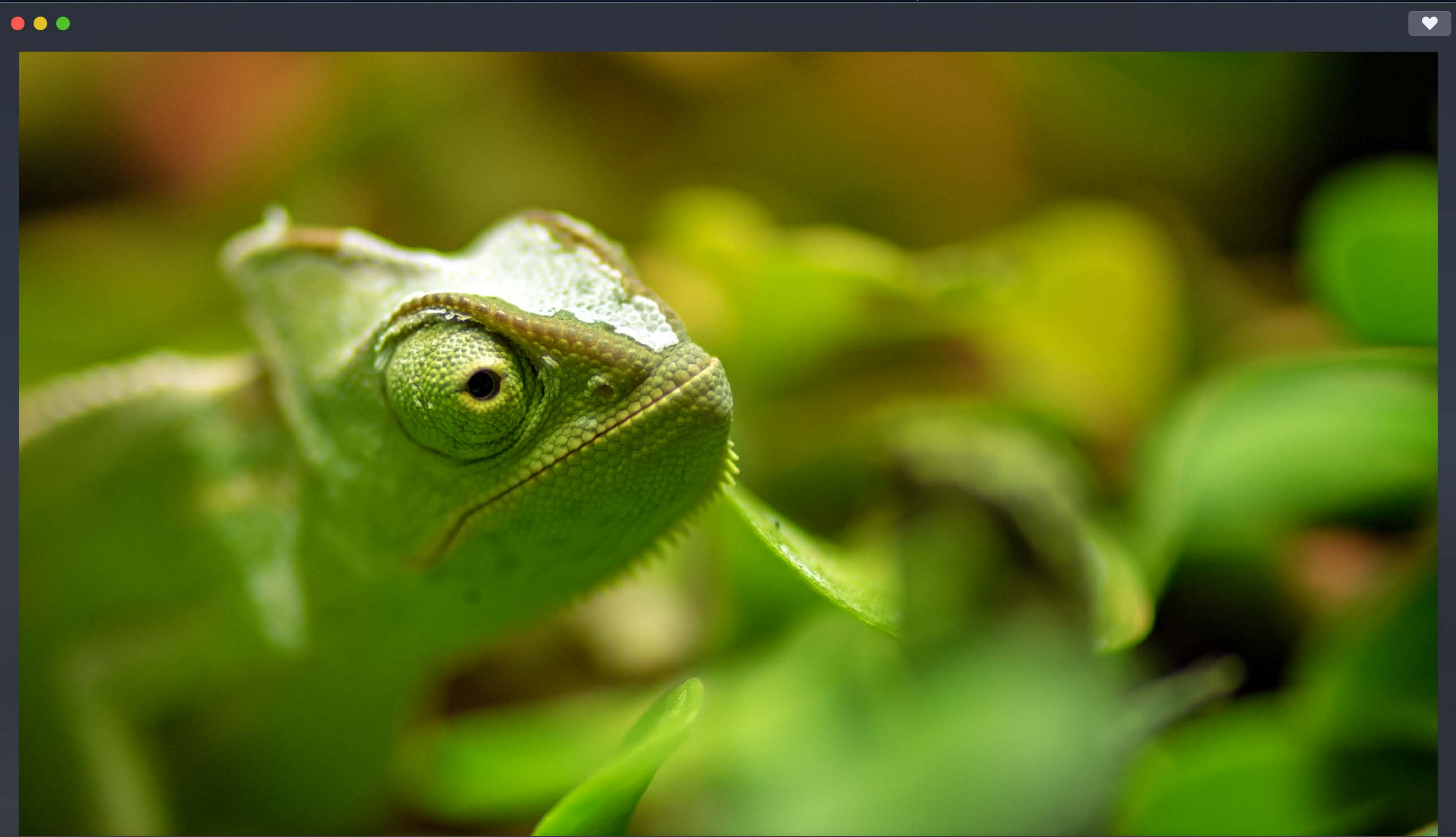
```
visualEffectView.material = .mediumLight
```





```
visualEffectView.material = .mediumLight
```





```
visualEffectView.material = .popover
```

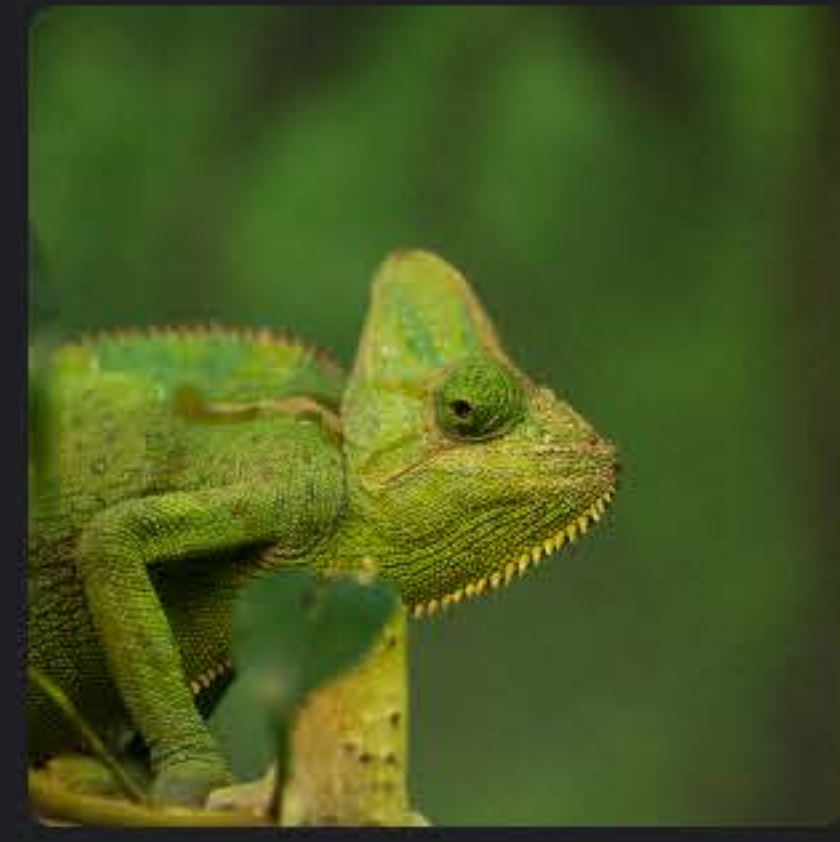


- Chameleons
- Chadwick
  - Chloe**
  - Chuy
  - Chelsey
  - Chevy
  - Chiwetel
  - Chester
  - Chubs
  - Cleopatra
  - Charlotte



**Chloe**  
2 years old

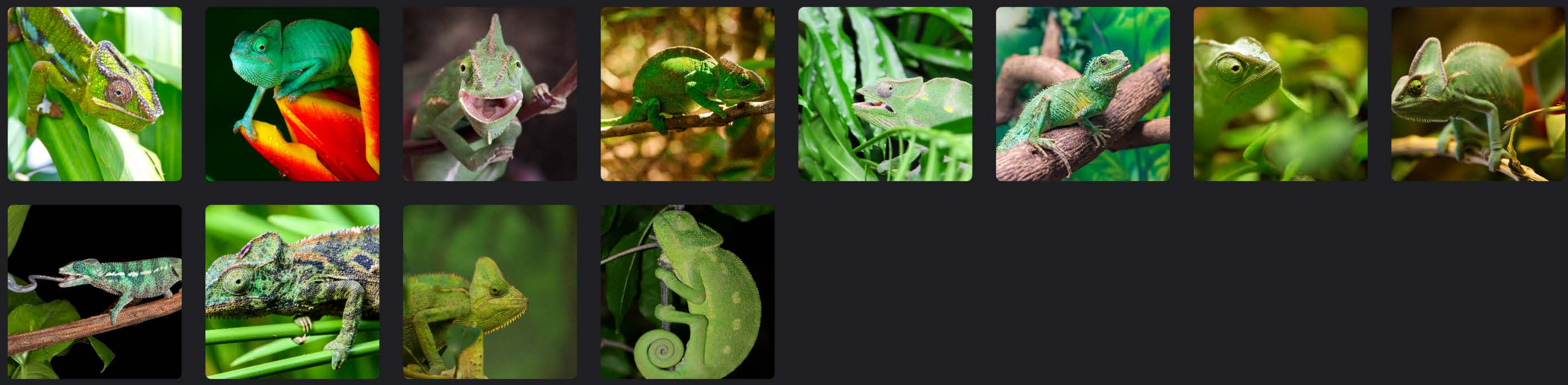
Photos Vitals Notes



- Chameleons
- Chadwick
  - Chloe**
  - Chuy
  - Chelsey
  - Chevy
  - Chiwetel
  - Chester
  - Chubs
  - Cleopatra
  - Charlotte

 **Chloe**  
2 years old

Photos Vitals Notes

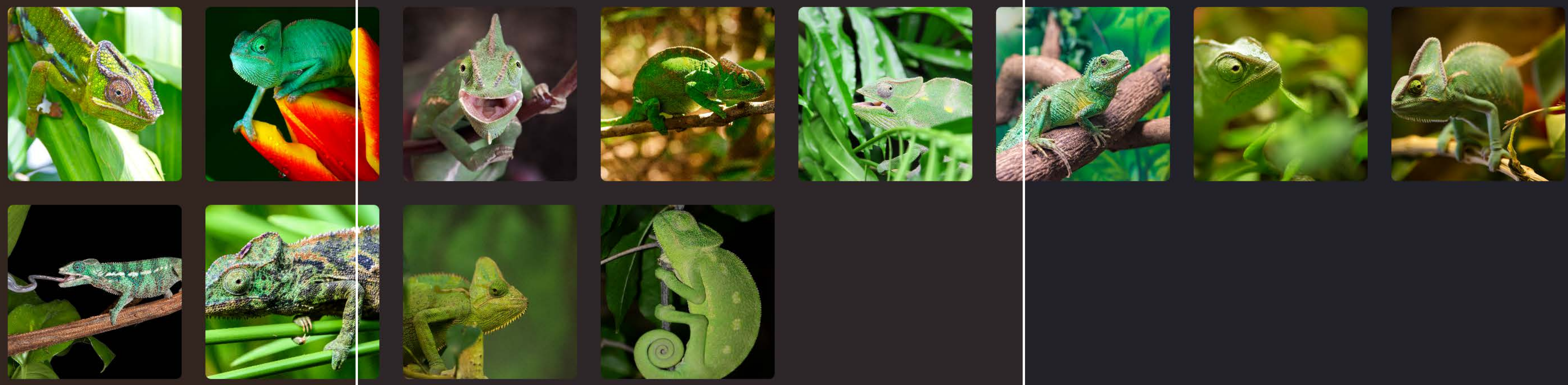


Chameleons

- Chadwick
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- Chester
- Chubs
- Cleopatra
- Charlotte

 **Chloe**  
2 years old

Photos Vitals Notes



# Desktop-Tinted Backgrounds

**Window Background**  
Light Appearance

**Under Page Background**  
Light Appearance

**Content Background**  
Light Appearance

**Window Background**  
Dark Appearance

**Under Page Background**  
Dark Appearance

**Content Background**  
Dark Appearance



# Desktop-Tinted Backgrounds

**Window Background**  
Light Appearance

**Under Page Background**  
Light Appearance

**Content Background**  
Light Appearance

**Window Background**  
Dark Appearance

**Under Page Background**  
Dark Appearance

**Content Background**  
Dark Appearance

General

General Accounts Junk Mail Fonts & Colors Viewing Composing Signatures Rules

Default email reader: Mail

Check for new messages: Automatically

New messages sound: New Messages Sound

Play sounds for other mail actions

Dock unread count: Inbox Only

New message notifications: Inbox Only

Downloads folder: Downloads

Remove unedited downloads: After Message is Deleted

Add invitations to Calendar automatically

Automatically try sending later if outgoing server is unavailable

Prefer opening messages in split view when in full screen

When searching all mailboxes, include results from:

Trash

Junk

Encrypted Messages

General

Appearance:

Accent color:

Highlight color: Blue

Sidebar icon size: Medium

Automatically hide and show the menu bar

Show scroll bars:  Automatically based on mouse or trackpad

When scrolling

Always

Click in the scroll bar to:  Jump to the next page

Jump to the spot that's clicked

Default web browser: Safari

Ask to keep changes when closing documents

Close windows when quitting an app

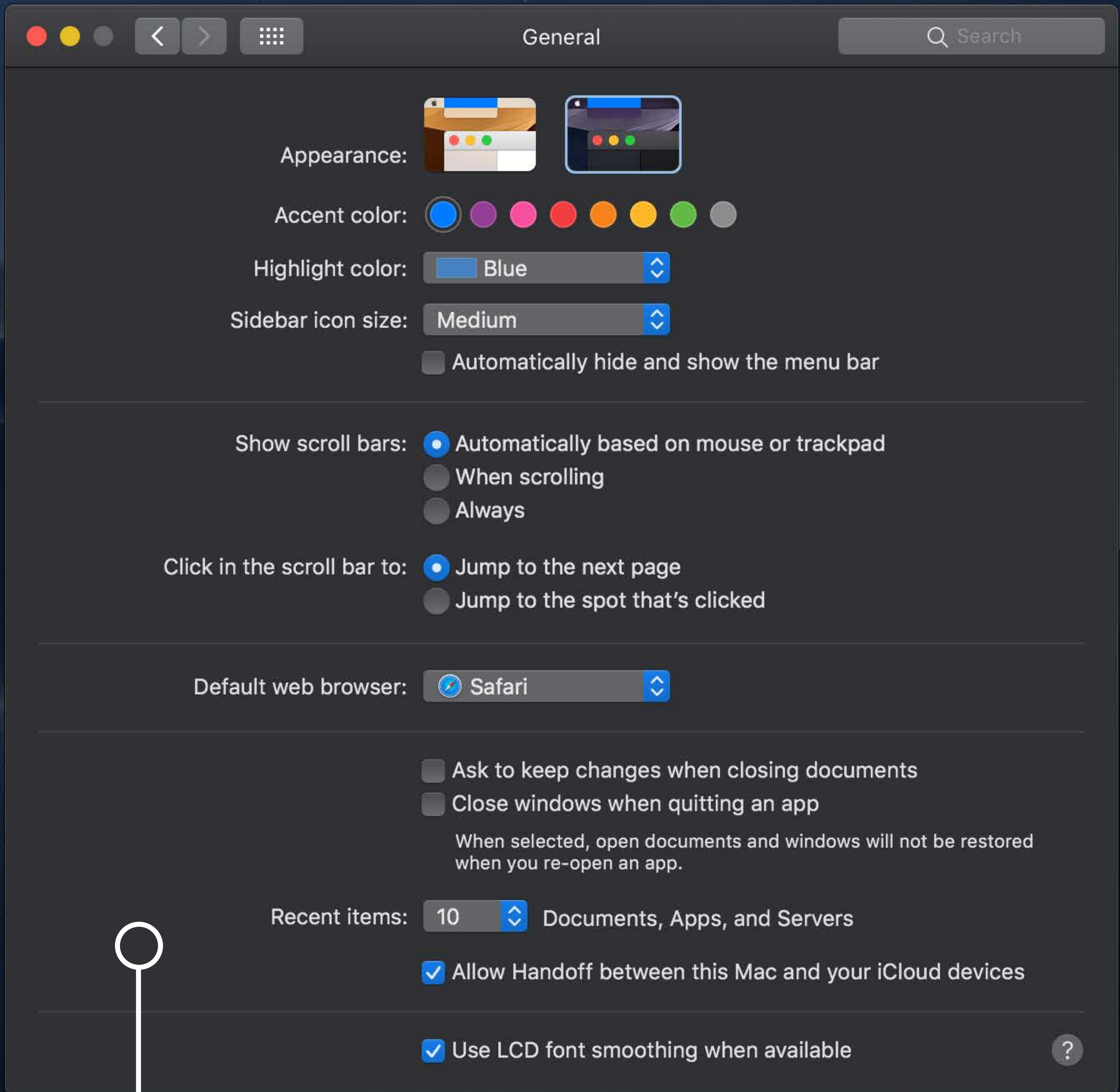
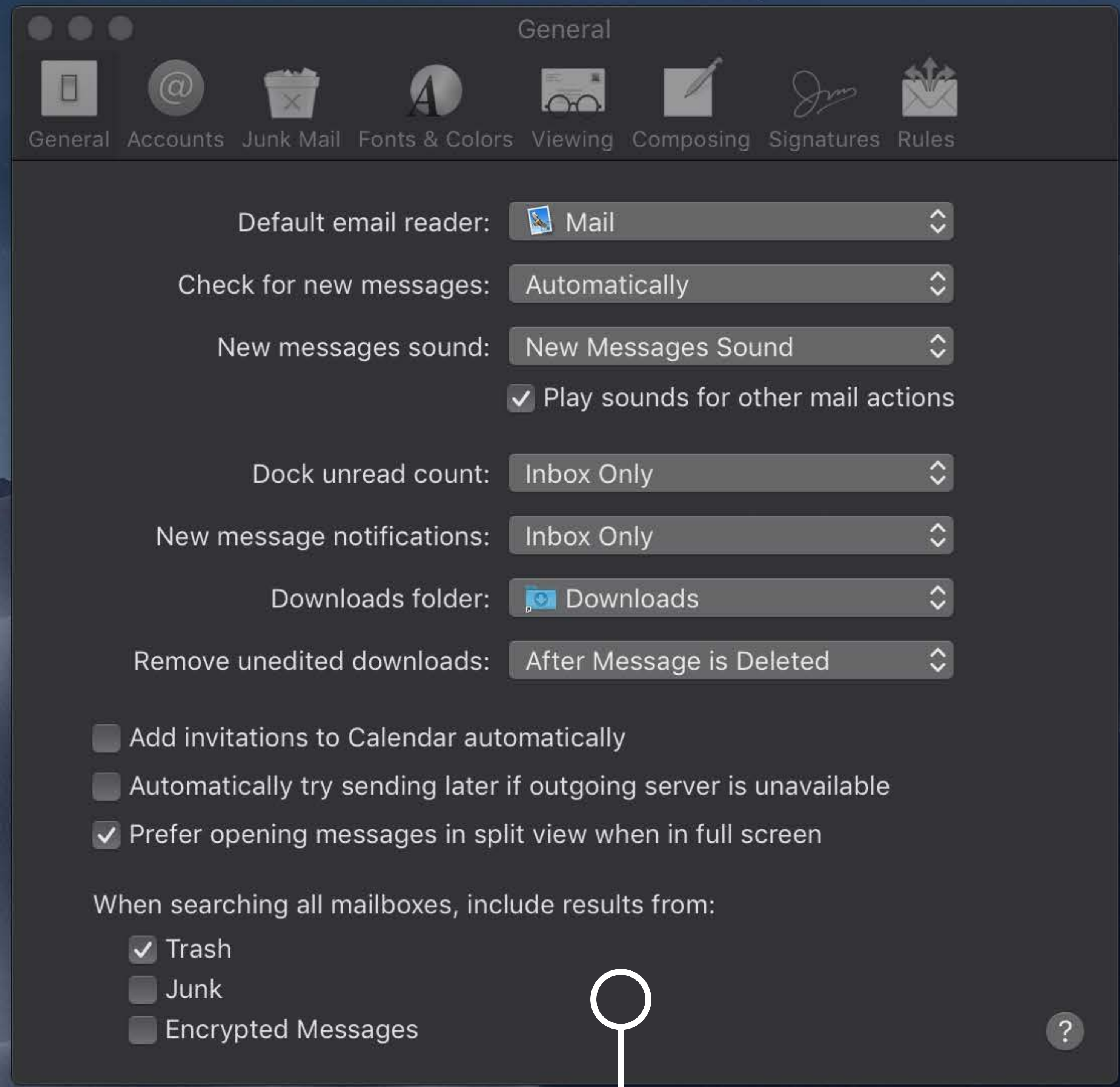
When selected, open documents and windows will not be restored when you re-open an app.

Recent items: 10 Documents, Apps, and Servers

Allow Handoff between this Mac and your iCloud devices

Use LCD font smoothing when available





NSWindow  
Window background



Inbox (16 messages, 6 unread)

Sort by Date

- Jane Daniels** 9:21 AM  
More photos from our trip!!  
Sorry, I couldn't help myself! I had to share a couple more photos from the trip, haha! I'll try save the rest for whenever...
- Raymond Sepulveda** 9:02 AM  
Vietnam Trip  
Hi John! We just got back from our trip to Vietnam and I wanted to share some of our photos with you. We backpacked through the country for two weeks and had an experience we'll never forget. The people were all incredibly friendly and we made a lot of new friends as we traveled around the country. You should join us next time!  
Let's schedule a lunch date soon so that
- Katie Abeles** 8:47 AM  
Trip to San Francisco  
John, Visiting you in San Francisco was so much fun. We definitely need to head back soon. Here are some pictures...
- Taylor Kelly** 8:16 AM  
Pick up from airport?  
Hi John! Hope all is well with you. I am coming home from London and was wondering if you might be able to pick me up...
- Rachel Goldeen** Yesterday  
Dinner  
Hi Everyone, I'm so excited to see everyone at dinner tonight. Parking can be tough around the restaurant so I w...
- Mary Ellen Mason** Yesterday  
Troy's Birthday  
Hey Everyone, Thanks for joining us for Troy's birthday. We all had an amazing time celebrating together. The kids...
- Jeff Nadeau** Yesterday  
Backpacking Thailand  
Hey Everyone, We just got back from our trip to Thailand. We backpacked the country for two weeks and had an exp...
- Ivy Calhoun** Yesterday  
Coming to the Bay Area!  
John, Looking forward to seeing you this year! Quick favor. I'm planning on doing some hiking while I'm there. D...
- Matt Jacobson** Yesterday  
Breakfast Reservations  
Hi John, I was thinking we could take the kids out for brunch one of these days. It'd be nice to get everyone tog...
- Ethan Izzarelli** Yesterday  
Surfing Trip  
Hey John, Our surfing trip to Hawaii was incredible. We stayed on the north shore of Oahu and spent most of our t...
- Ailish Kimber** Yesterday  
Baby Jessica  
Hello Everyone, We wanted to say thank you for all your

☆ **Raymond Sepulveda** 4:09 PM  
Vietnam Trip  
To: John Appleseed

Hi John!

We just got back from our trip to Vietnam and I wanted to share some of our photos with you. We backpacked through the country for two weeks and had an experience we'll never forget. The people were all incredibly friendly and we made a lot of new friends as we traveled around the country. You should join us next time!

Let's schedule a lunch date soon so that



Documents — Local

Search

Favorites

- AirDrop
- Recents
- Applications
- Desktop
- Documents
- Downloads

iCloud

- iCloud Drive

Tags

- Red
- Orange
- Yellow
- Green
- Blue
- Purple
- Gray
- All Tags...

Applied Chemistry

Bangkok Street Food

Cell Biology

Chinese Opera

Contemporary Folk Jewelry

Desert Dunes

District Market

Easy Rides Custom Bikes

History of Skateboards

Introduction to Plants

John Appleseed Resume

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Pisa Report

Roommate Budget

Scenic Pacific Trails

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Baby Jessica  
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UICollectionView  
Content background

Documents — Local

Search

Favorites

- AirDrop
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iCloud

- iCloud Drive

Tags

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- Orange
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 Dinner  
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 Hey Everyone, Thanks for joining us for Troy's birthday. We all had an amazing time celebrating together. The kids were so happy...

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 Hey Everyone, We just got back from our trip to Thailand. We backpacked the country for two weeks and had an experience we'll never forget...

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 John, Looking forward to seeing you this year! Quick favor. I'm planning on doing some hiking while I'm there. Do you have any recommendations?

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 Breakfast Reservations  
 Hi John, I was thinking we could take the kids out for brunch one of these days. It'd be nice to get everyone together...

★ **Ethan Izzarelli** Surfing Trip  
 Surfing Trip  
 Hey John, Our surfing trip to Hawaii was incredible. We stayed on the north shore of Oahu and spent most of our time there...

★ **Ailish Kimber** Baby Jessica  
 Baby Jessica  
 Hello Everyone, We wanted to say thank you for all your support and love for Baby Jessica. She is doing great and we are all so happy...

**NSTableView**  
 Content background

**NSCollectionView**  
 Content background

Documents — Local

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# Desktop-Tinted Backgrounds

Background NSColor

Window Background	<code>.windowBackgroundColor</code>
Content Background	<code>.controlBackgroundColor</code>
Content Background	<code>.textBackgroundColor</code>
Under Page Background	<code>.underPageBackgroundColor</code>

**Note:** RGB values do not include desktop tint

Chameleons

- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

**Chloe**  
2 years old

Photos Vitals Notes




Chameleons

- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

**Chloe**  
2 years old

Photos Vitals Notes

NSCollectionView  
Content background

Chameleons

## Chloe

2 years old

Photos

Vitals

Notes

Birth name:

Birth date:

Species:

Length:

Weight:

Tongue velocity:  4.2 m/s

---

Omnivorous

Cricket intake:

Favorite berry:

Water intake:

---

Preferred temperature:


Excitement level:  Low  Medium  WWDC

Courtship behavior:  Head Roll  Chin Rub

- Chadwick
- Chloe
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

Chameleons

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- Charlotte



**Chloe**  
2 years old

Photos | **Vitals** | Notes

Birth name:

Birth date:

Species:

Length:

Weight:

Tongue velocity:  4.2 m/s

Omnivorous

Cricket intake:

Favorite berry:

Water intake:

Preferred temperature:

Excitement level:  Low  Medium  WWDC

Courtship behavior:  Head Roll  Chin Rub

NSWindow  
Window background



Chameleons

## Chloe

2 years old

Photos
Vitals
Notes

**June 4, 2018**  
Chloe was very good today. She watched me practice my presentation and only fell asleep *twice!* Either I'm getting better or she's being more patient.

**June 1, 2018**  
Today Chloe was feeling a little green. I think she must have a bug or something. The doctor said it was nothing to worry about, and to just make sure she gets plenty of water. 🚰

**May 25, 2018**  
Tuesday! Took Chloe and Chester to the chameleon park today. Chloe got along great with all the chameleons in the neighborhood. It was very colorful!!

**May 18, 2018**  
Chloe's second birthday 🎂🎁🎉  
We got her a dozen crickets.

**May 14, 2018**  
Looked around for Chloe for three hours. Turns out she was just blending into my **shirt** the whole time 😊

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🛁

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Chameleons

- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

**Chloe**  
2 years old

Photos Vitals Notes

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✘ Custom gray background

Main.storyboard — Edited

Chameleon Wrangler > C...ler > M...ard > M...se > N...ne > N...ller > View > Box

Chameleons

- Chadw
- Chloe
- Chuy
- Chelse
- Chevy
- Chiwet
- Chest
- Chubs
- Cleopa
- Charlo

**Box**

Title

Title Font System Small

Title Position At Top

Display  Transparent

Box Type Custom

Border Type None

Border Metrics Width 0 Radius 0

Border Color Custom

Fill Color Custom

**View**

Tag -1

Focus Ring Default

Drawing  Hidden

Can Draw Concurrently

Autosizing  Autosizes Subviews

Appearance Inherited (System, Dark A...)

View as: Dark Appearance



Main.storyboard — Edited

Chameleon Wrangler > C...ler > M...ard > M...se > N...ne > N...ller > View > Box

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Fill Color Custom



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Chameleon Wrangler > C...ler > M...ard > M...se > N...ne > N...ller > View > Box

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Box

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Title Font System Small

Title Position At Top

Display  Transparent

Box Type Custom

Border Type None

Border Metrics Width 0 Radius 0

Fill Color Under Page Backgr...

View

Tag -1

Focus Ring Default

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Chameleons

### Chloe

2 years old

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Chloe  
2 years old

Photos
Vitals
Notes



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Colors

RGB Sliders

Red: 56

Green: 87

Blue: 26

Hex Color # 38571A



Fonts

Collection	Family	Typeface	Size
All Fonts	Brush Script MT	Regular	18
English	Chalkboard	Bold	9
Favorites	Chalkboard SE		10
Recently Used	Chalkduster		11
Fixed Width	Charter		12
Fun	Cochin		13
Modern	Comic Sans MS		14
Nice collection	Copperplate		18
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Chameleons

## Chloe

2 years old

Photos
Vitals
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patient ×

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Colors

RGB Sliders

Red 56

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Blue 26

Hex Color # 38571A

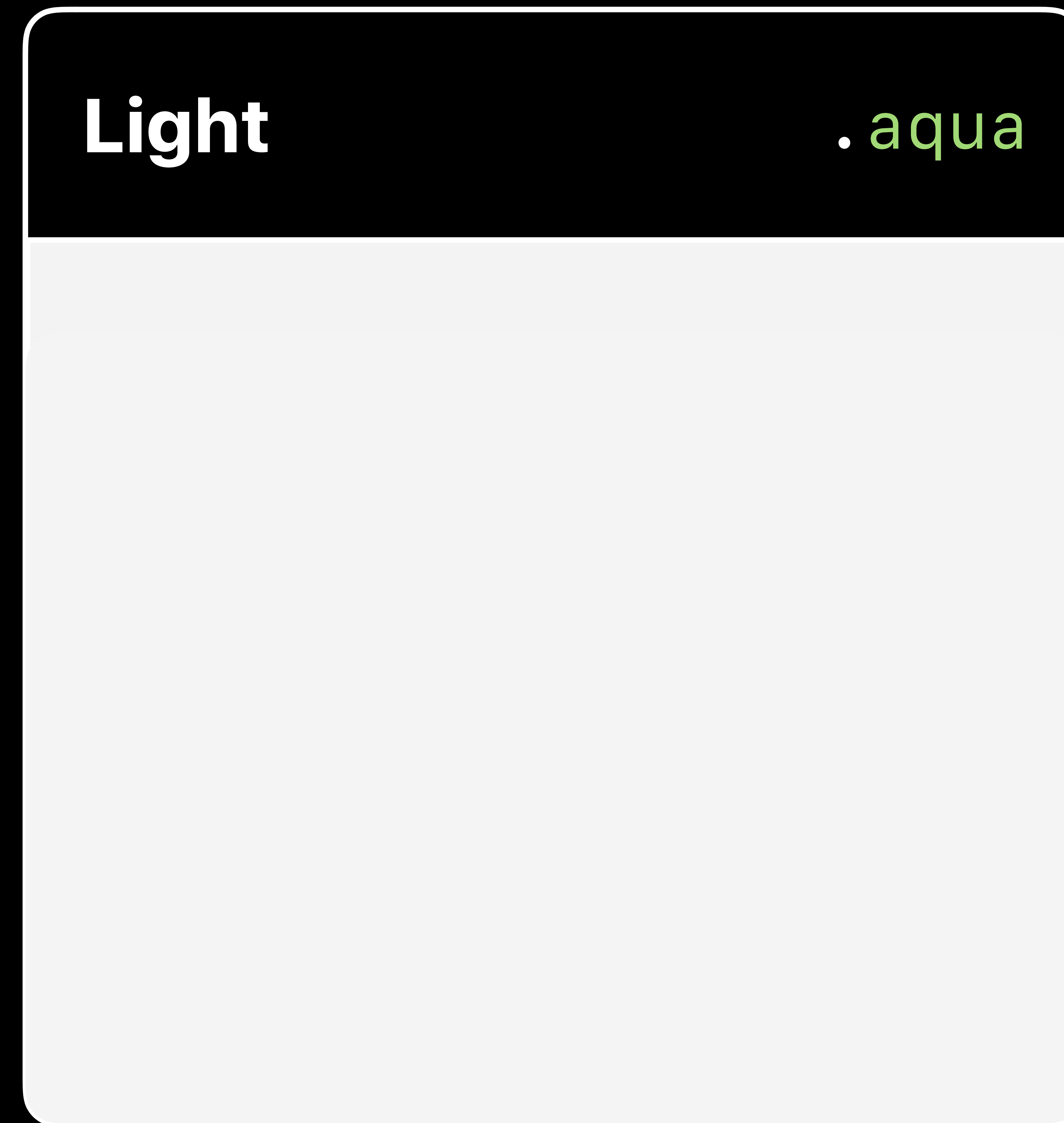
Fonts

Collection	Family	Typeface	Size
All Fonts	Brush Script MT	Regular	18
English	Chalkboard	Bold	9
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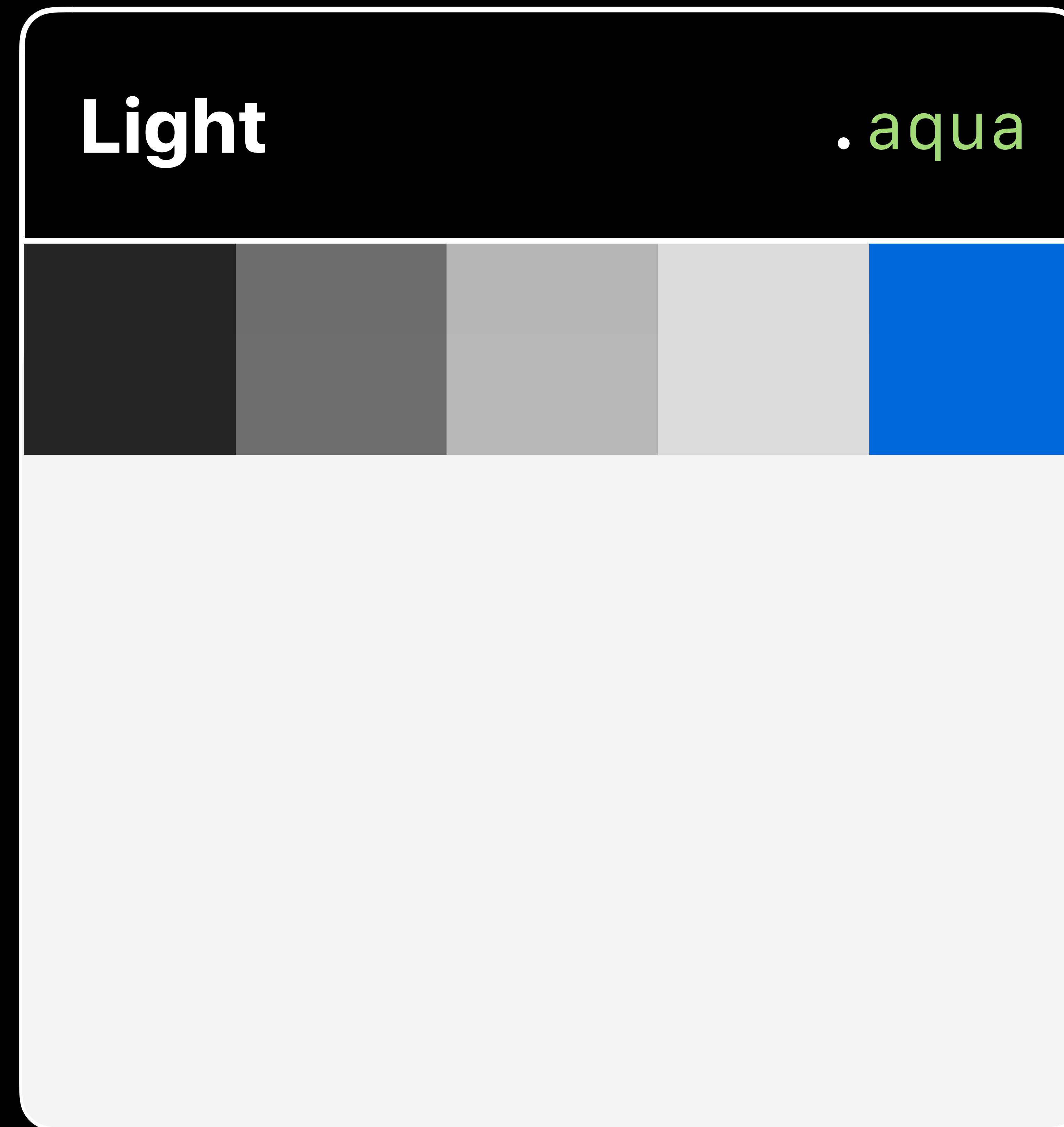


# NSAppearance

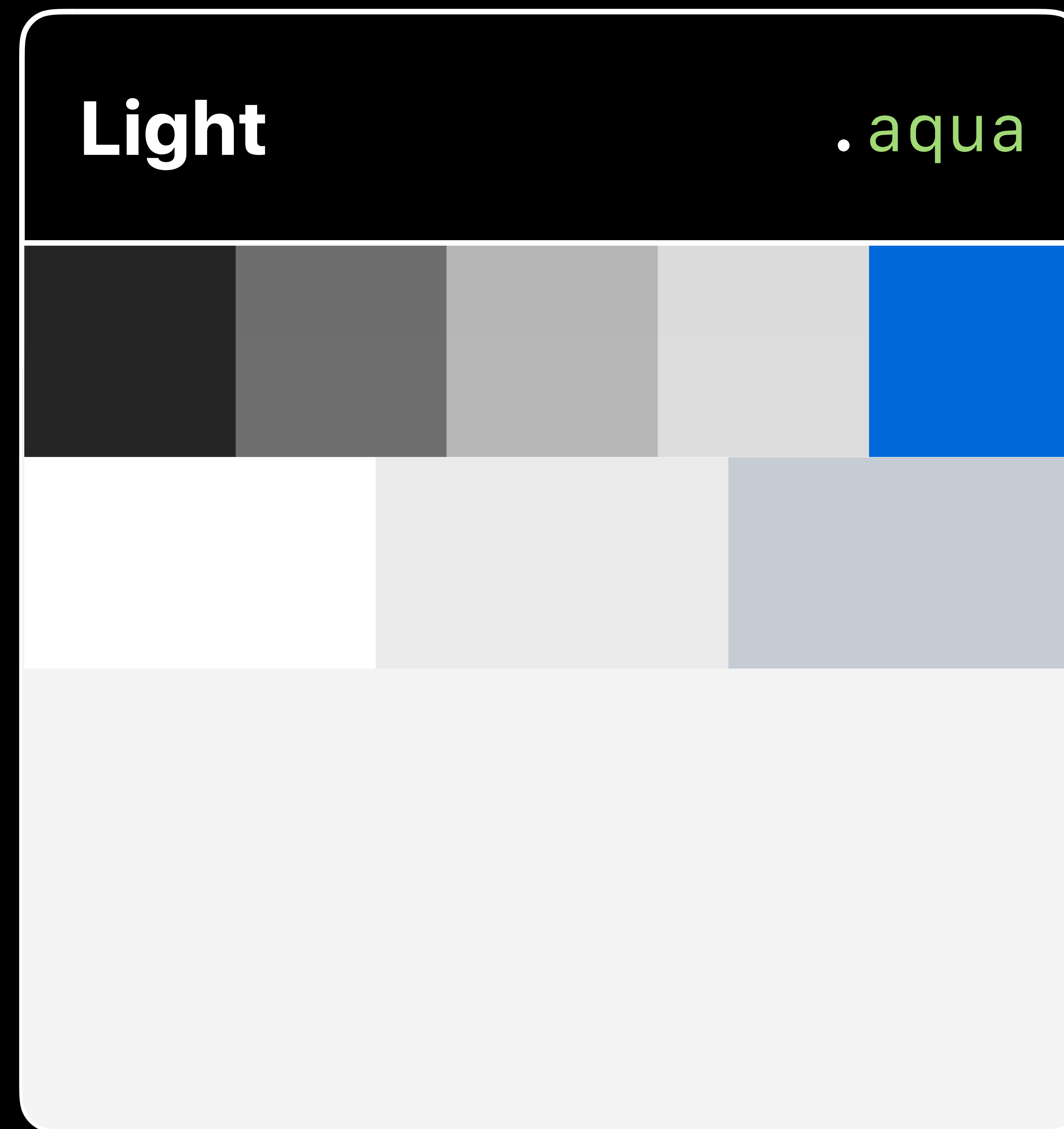
# NSAppearance



# NSAppearance



# NSAppearance

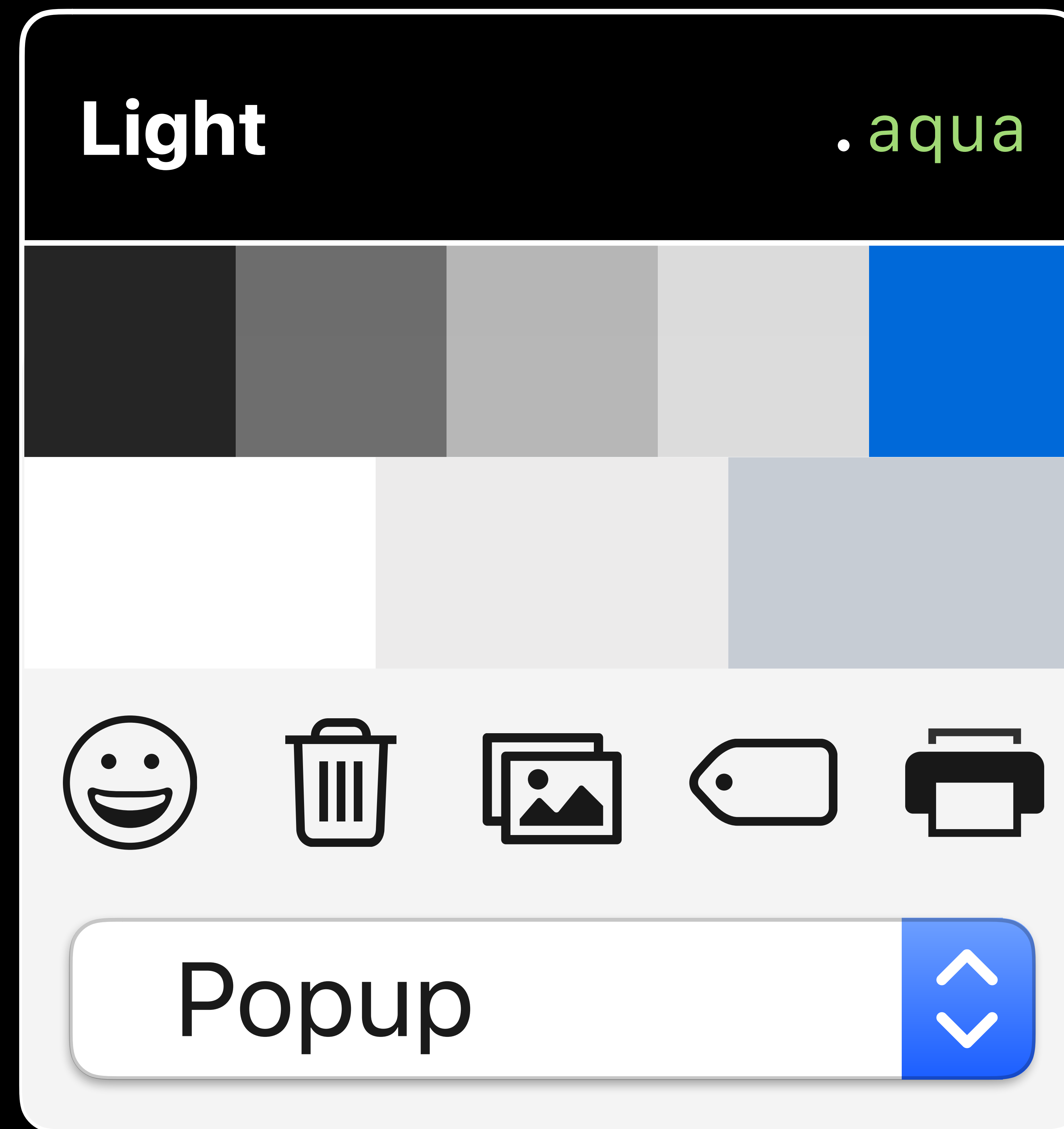




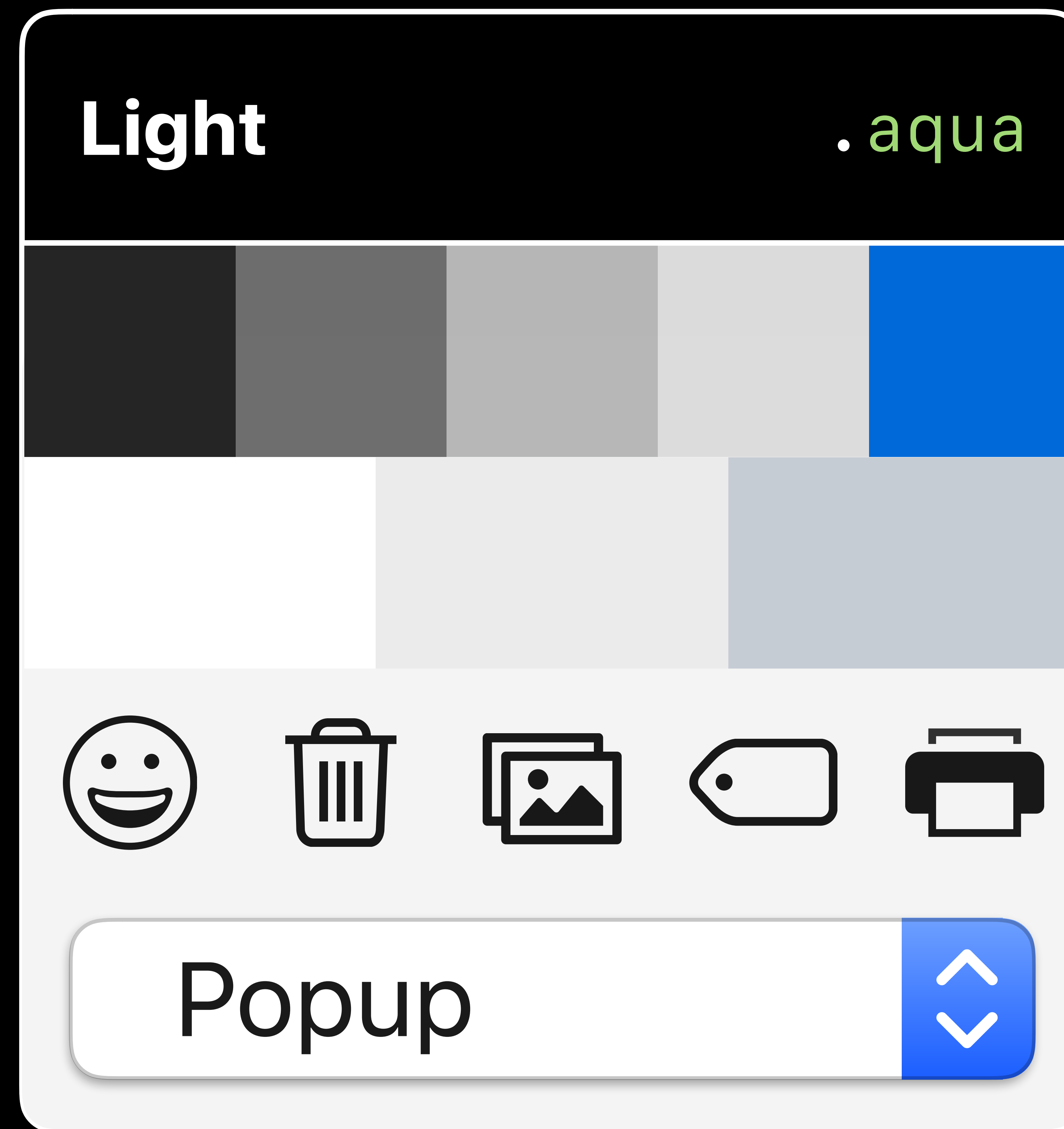
# NSAppearance



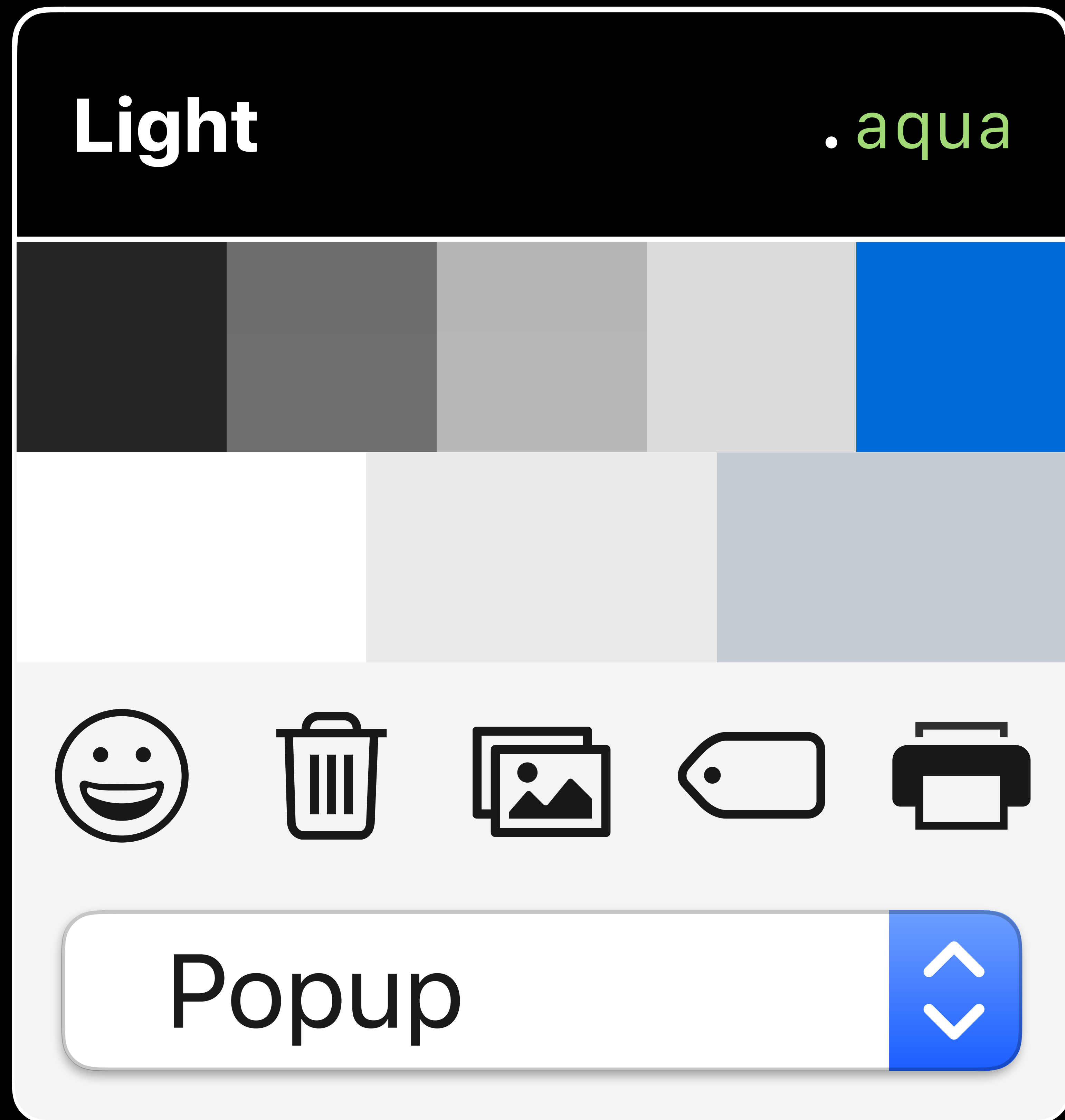
# NSAppearance



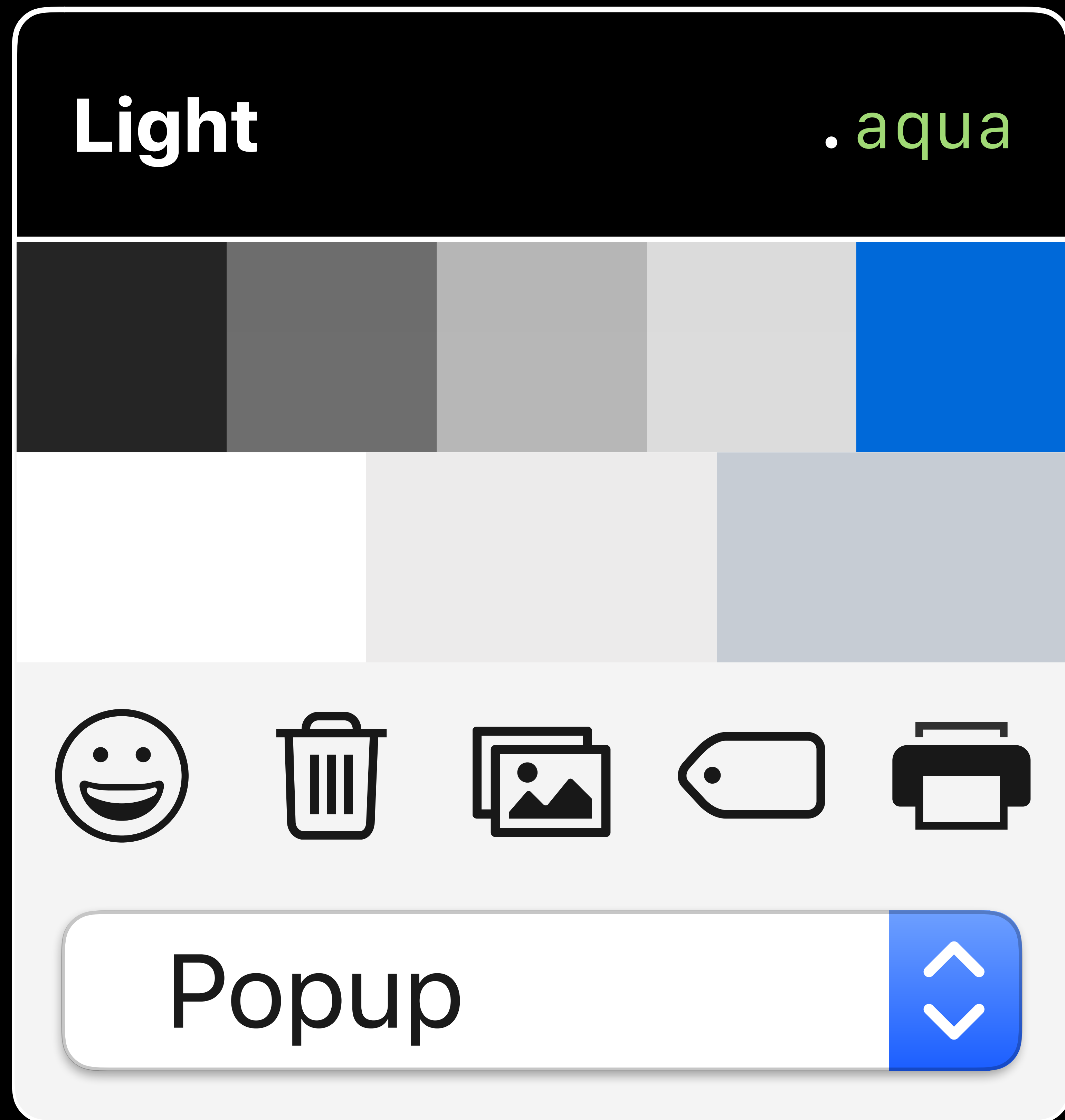
# NSAppearance



# NSAppearance

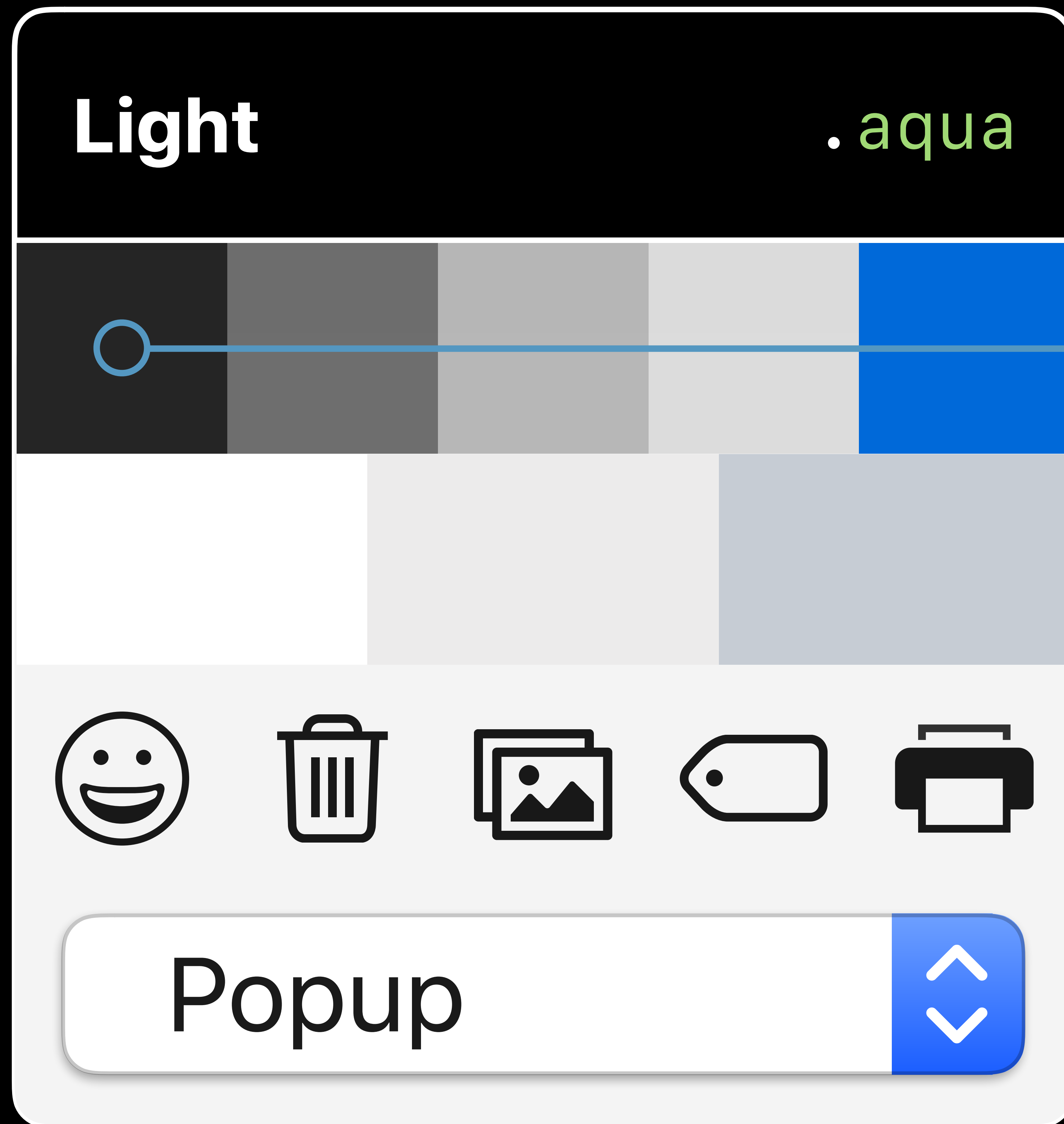


# NSAppearance



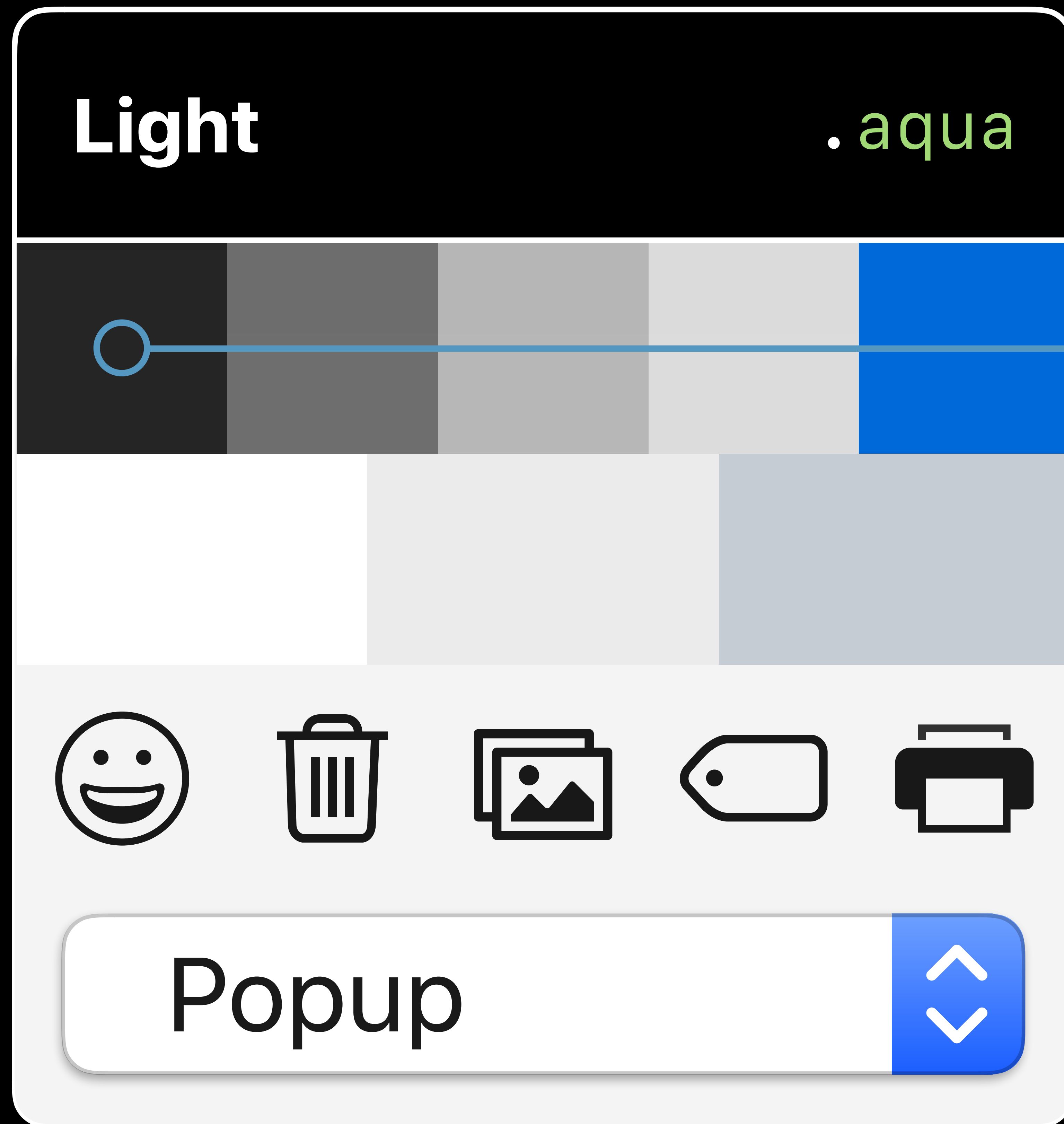
labelColor

# NSAppearance



labelColor

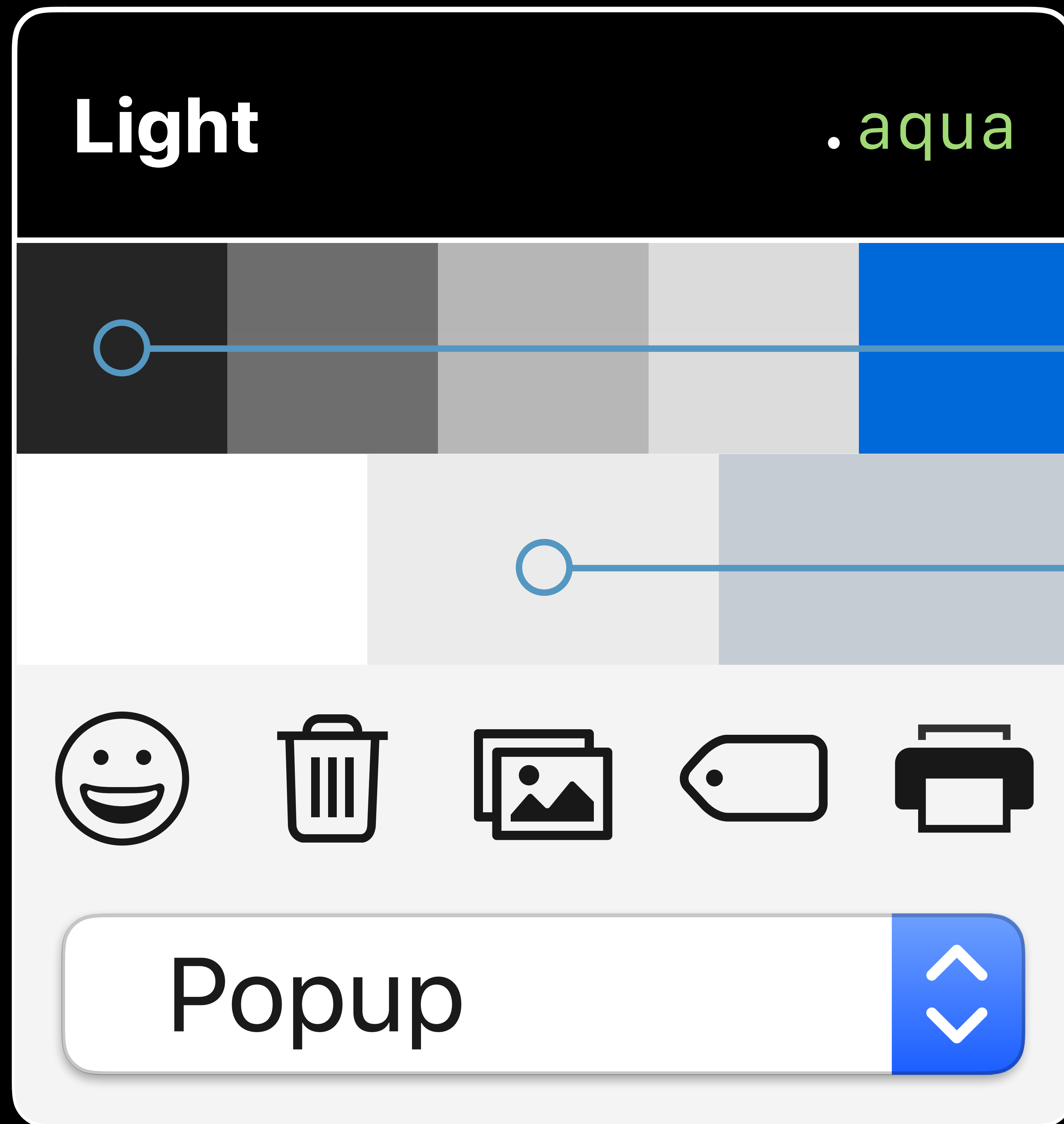
# NSAppearance



labelColor

windowBackground

# NSAppearance

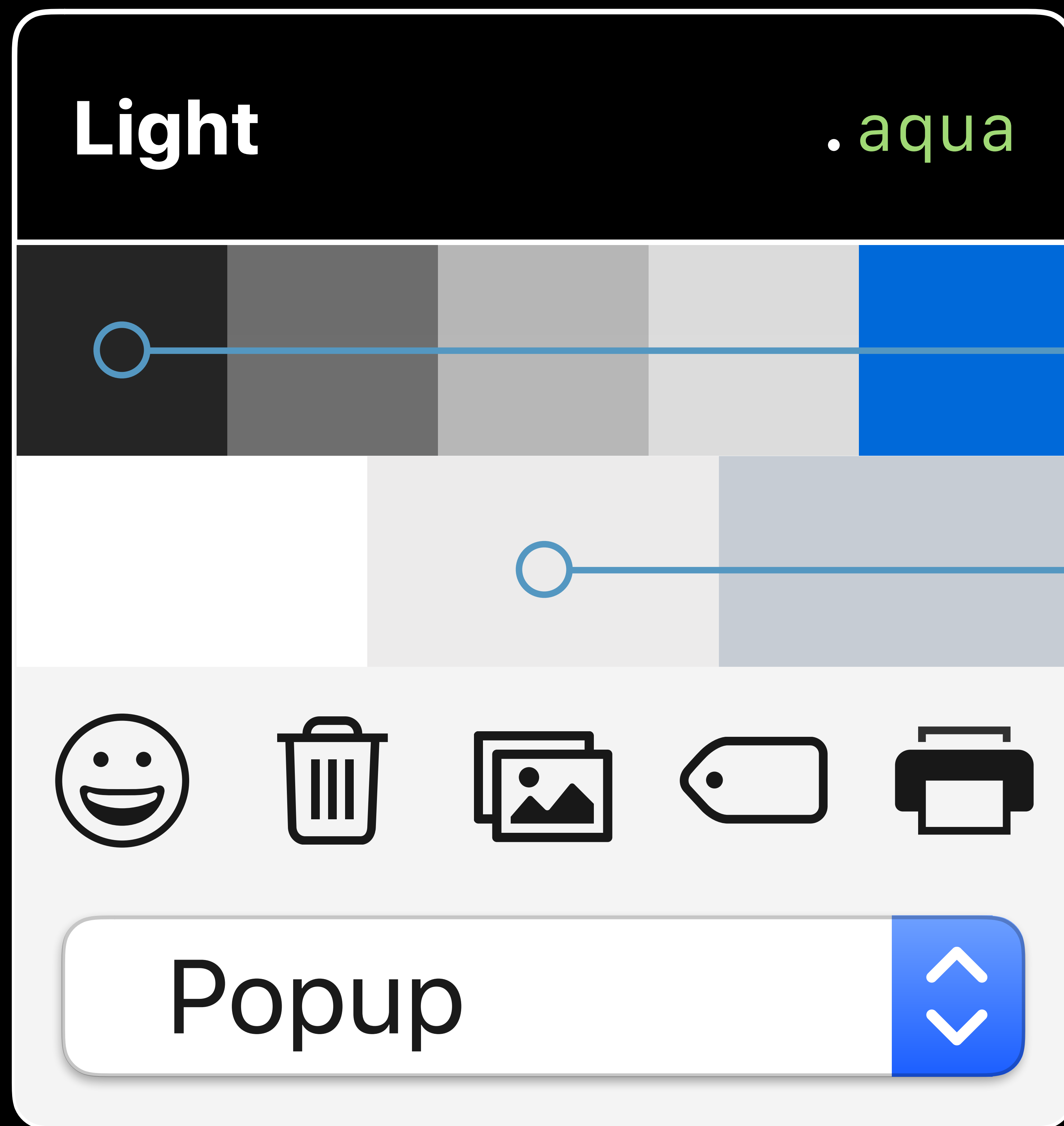


labelColor

windowBackground



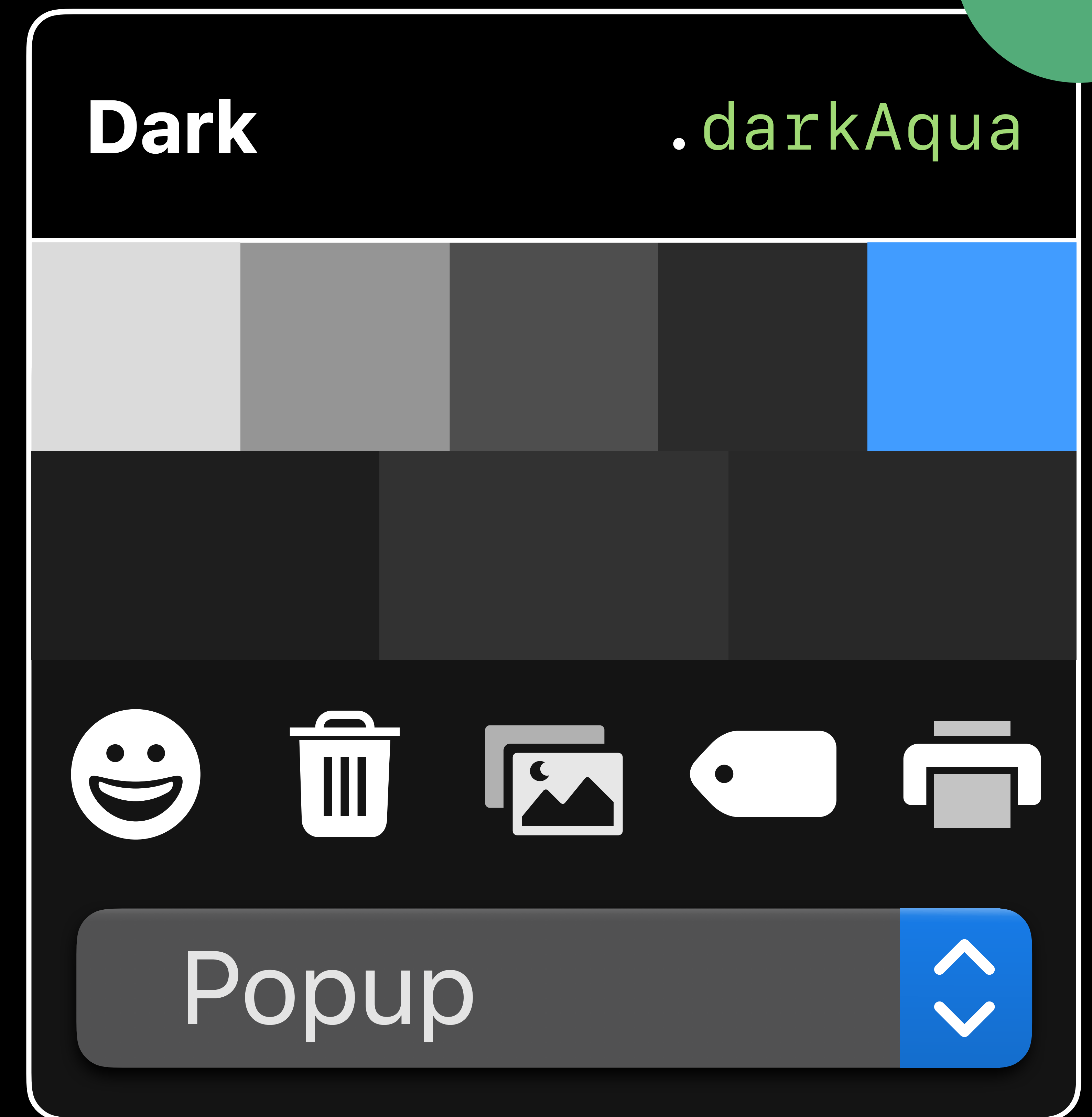
# NSAppearance



labelColor

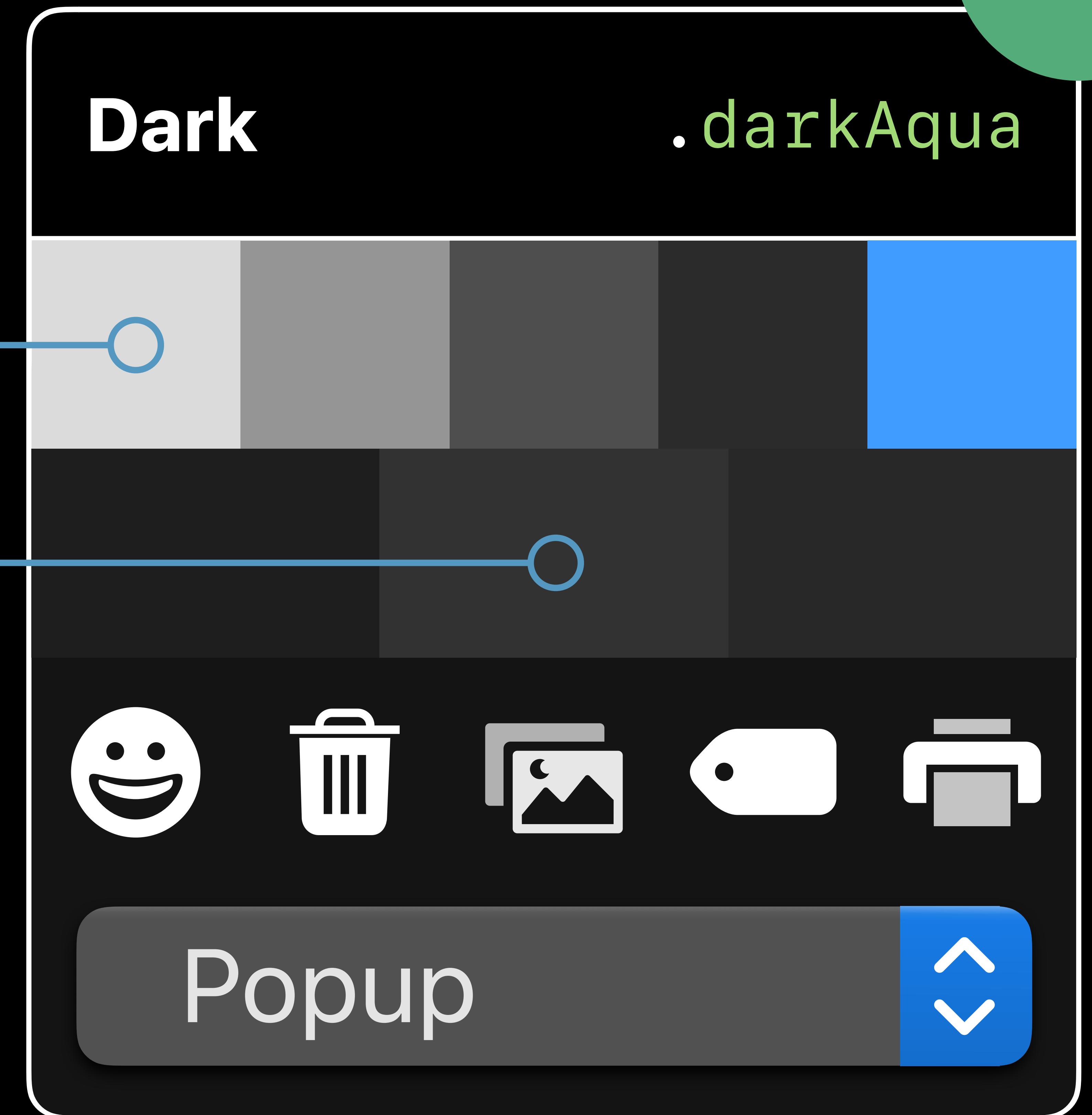
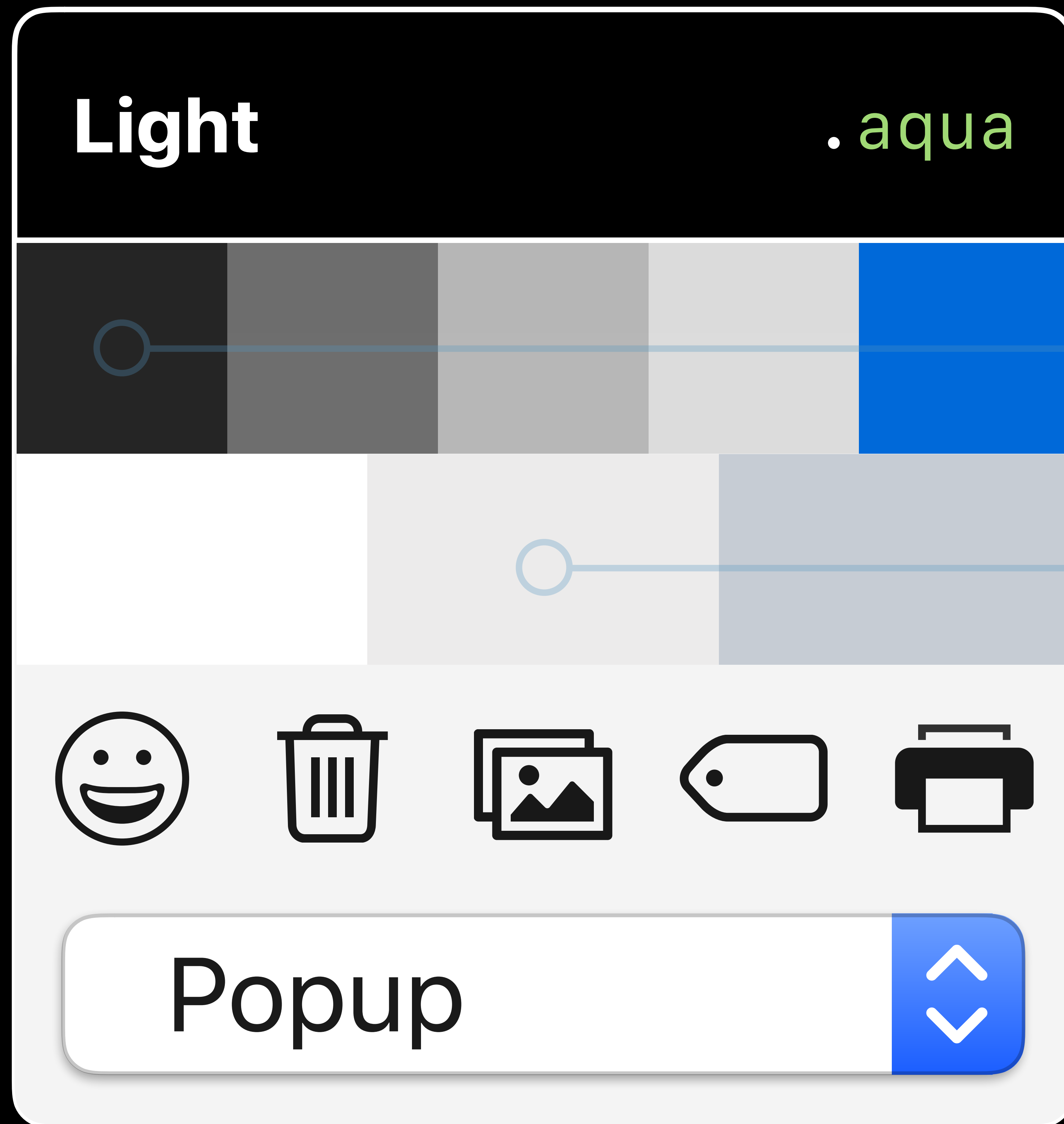
windowBackground

NEW



# NSAppearance

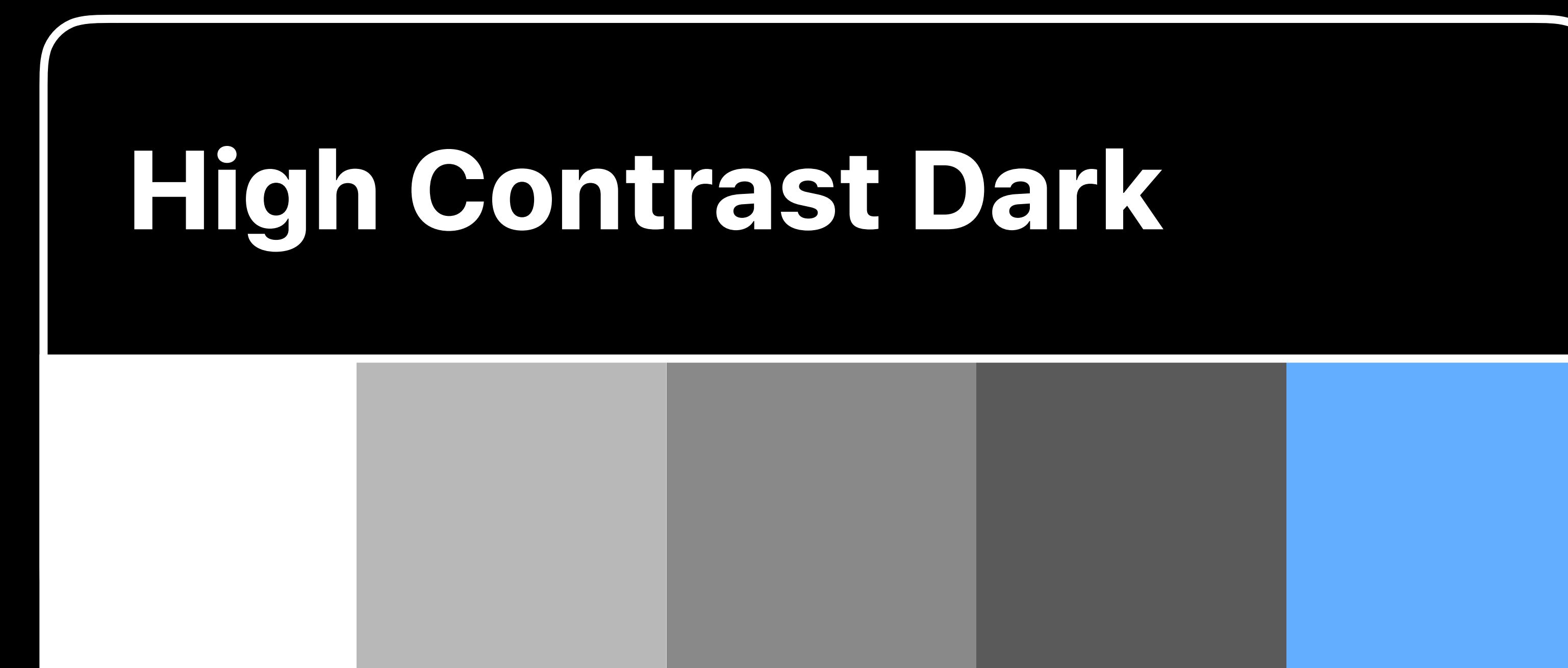
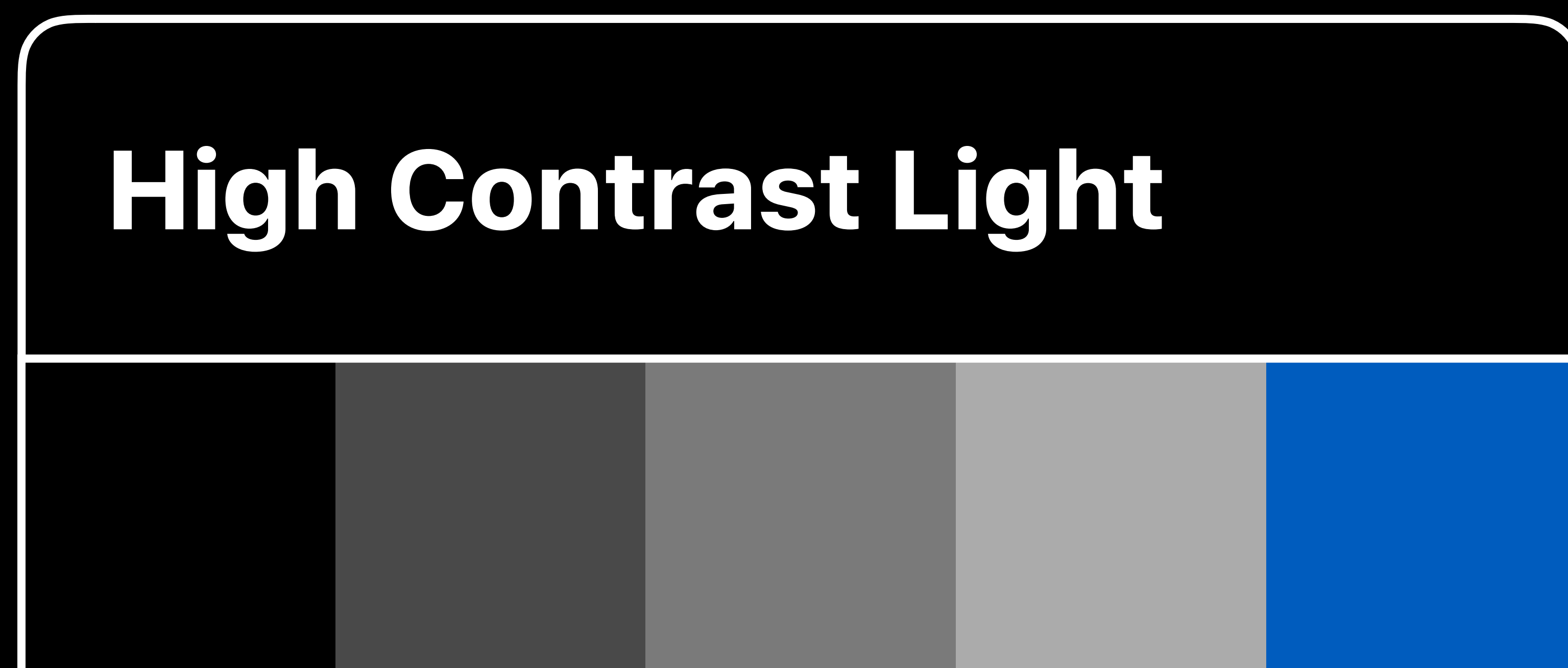
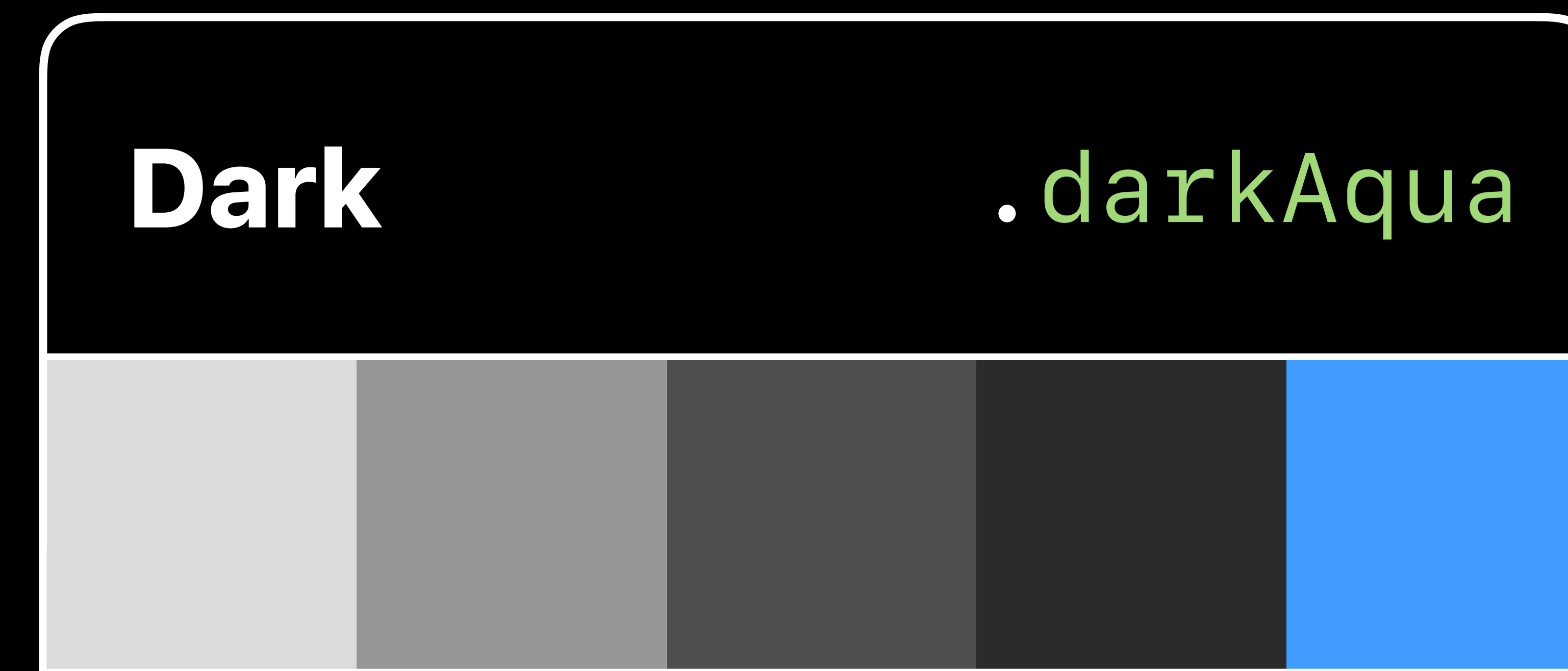
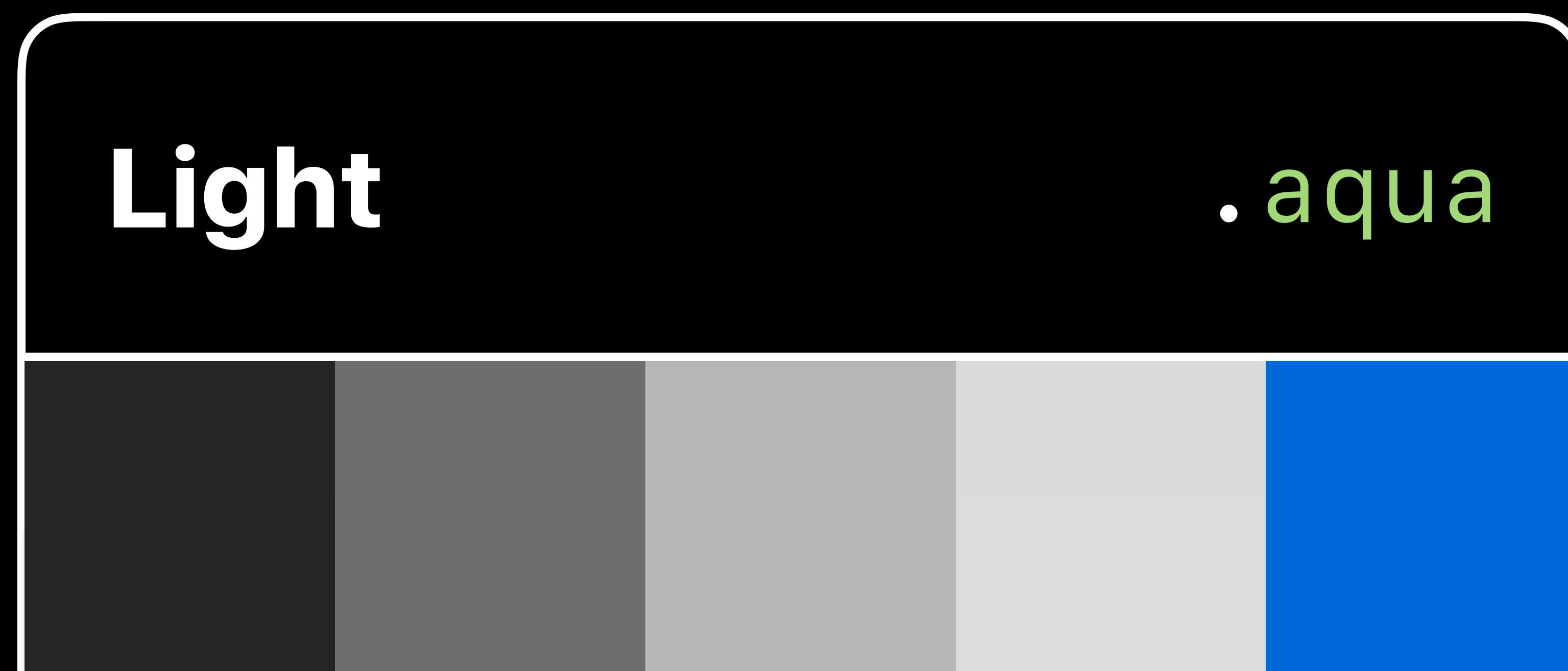
NEW



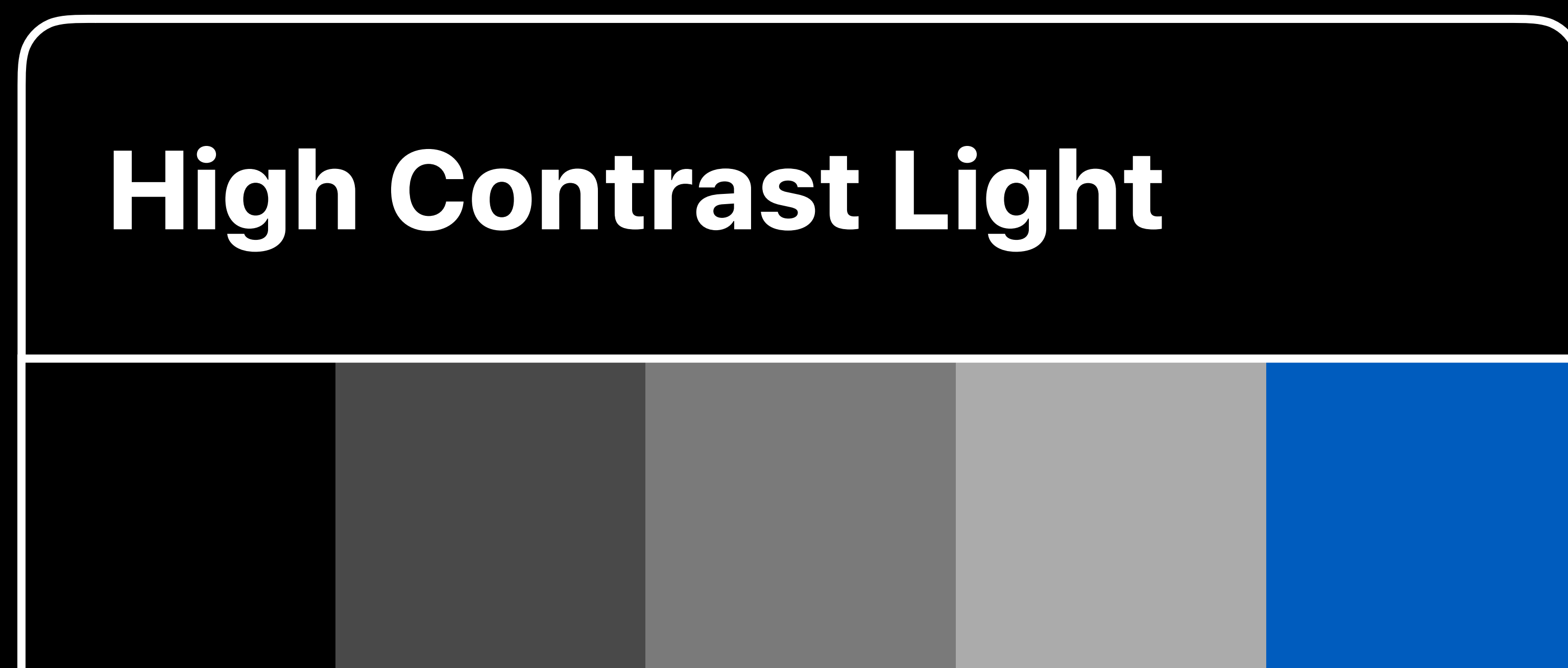
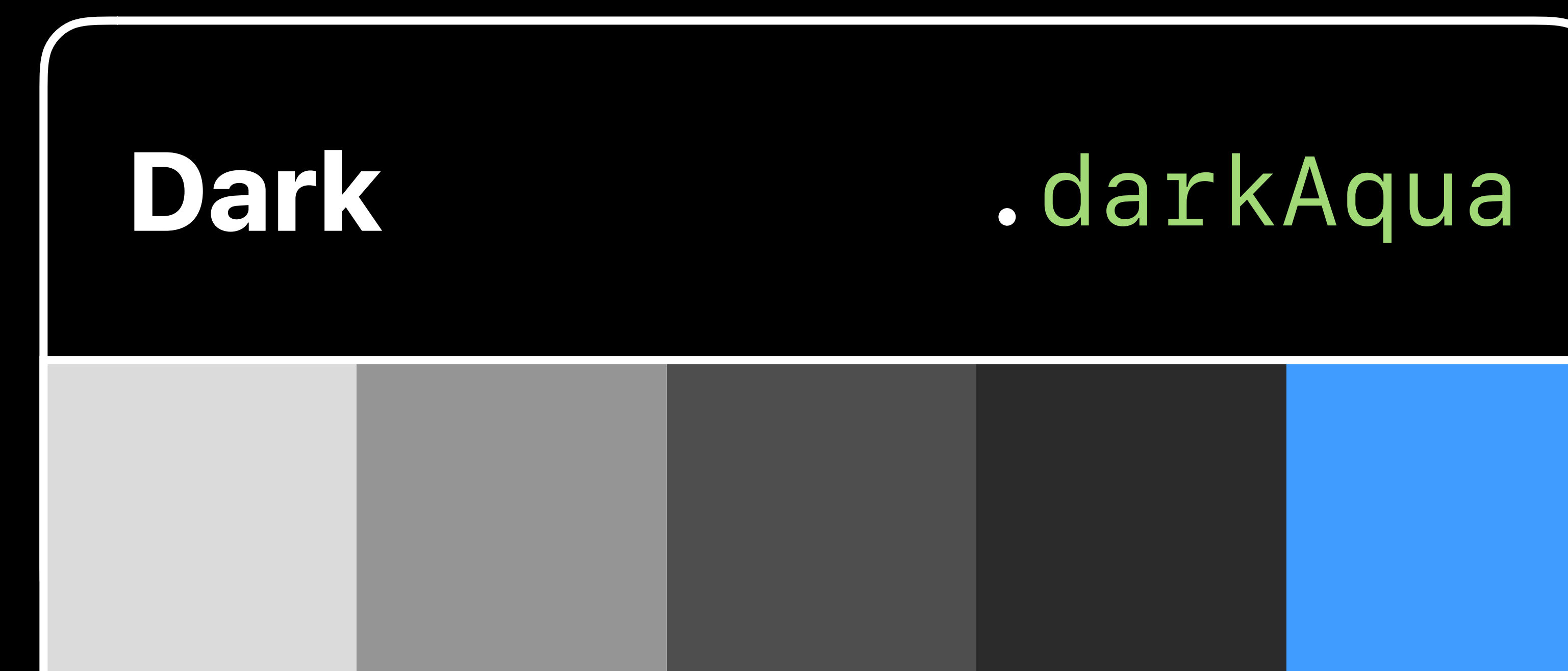
labelColor

windowBackground

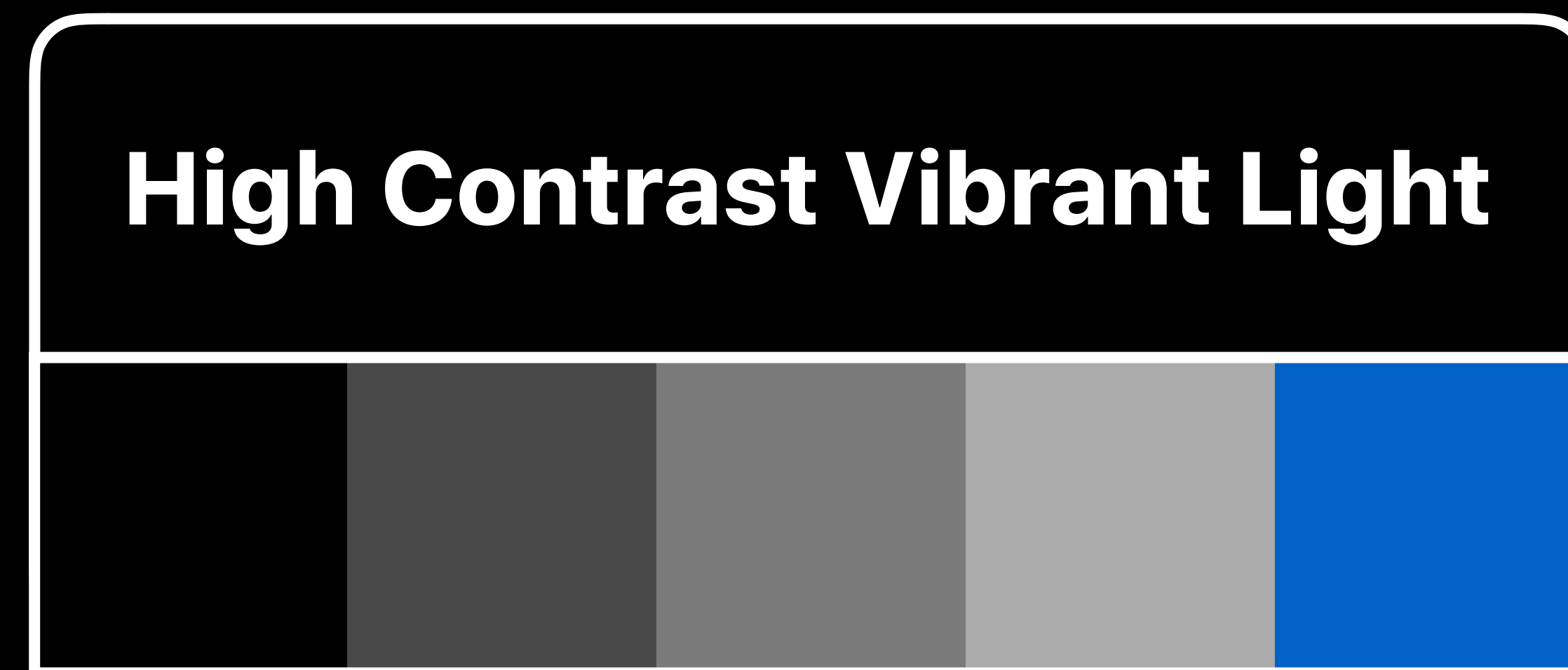
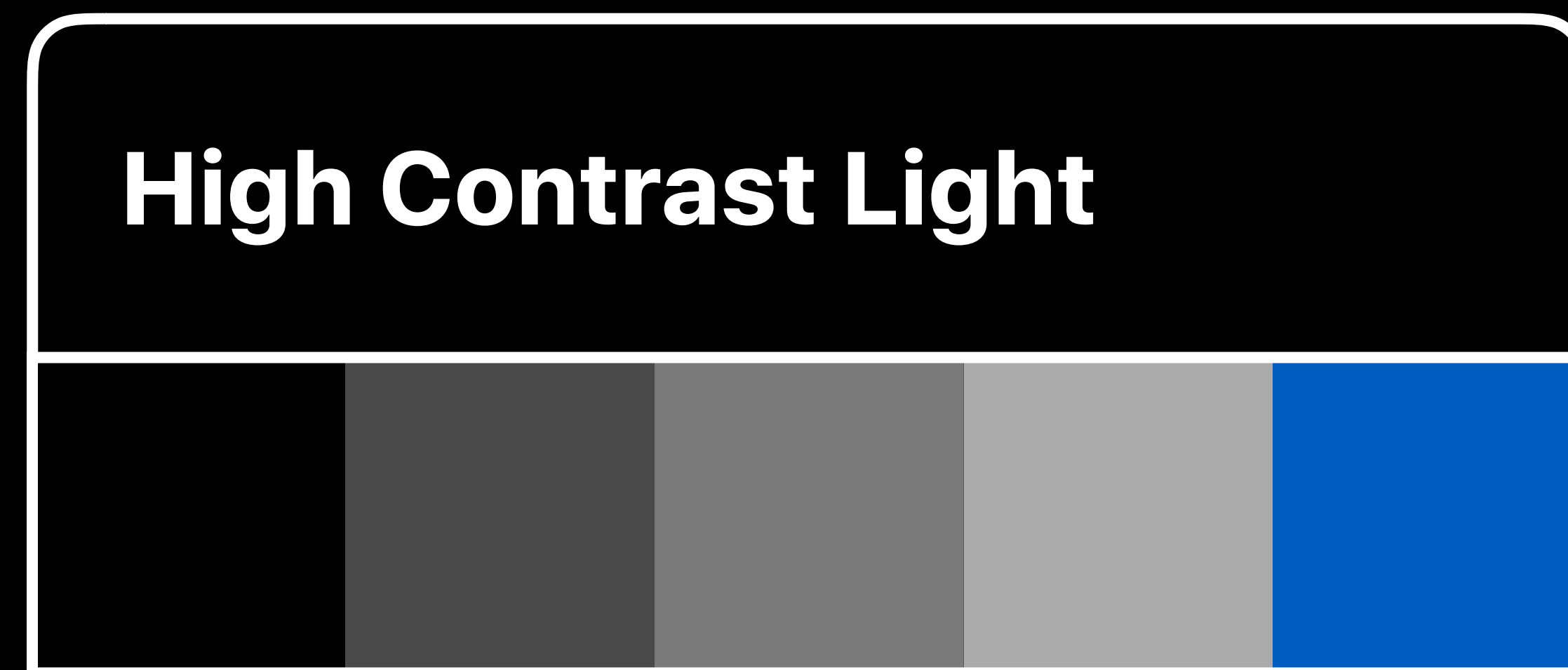
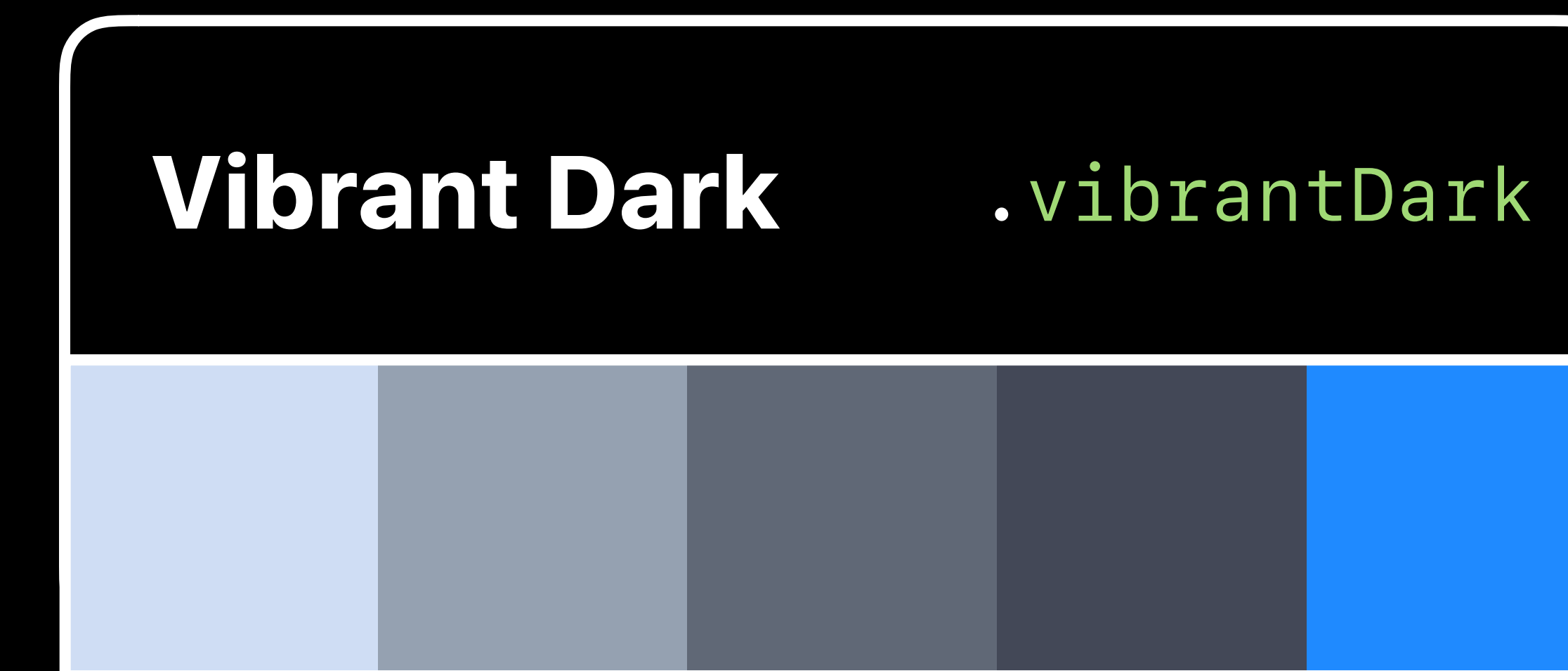
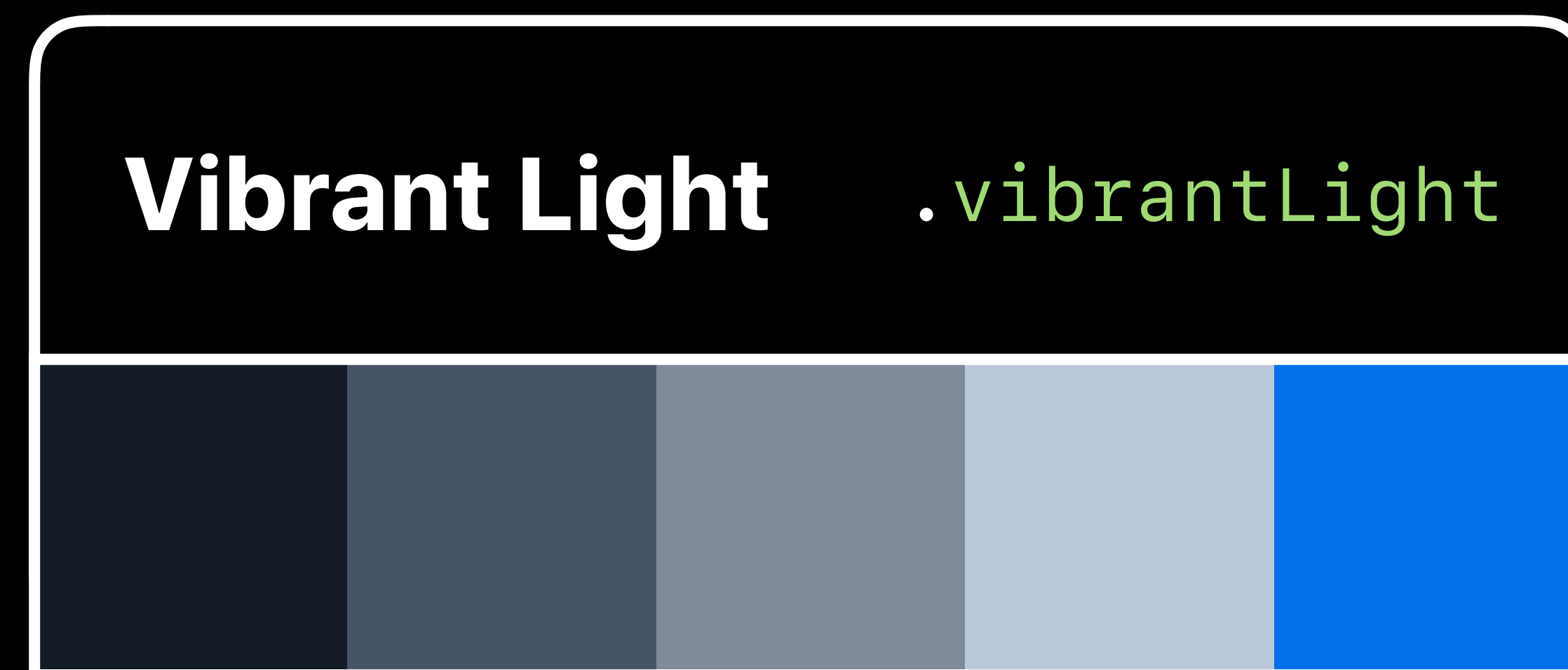
# NSAppearance



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# NSAppearance

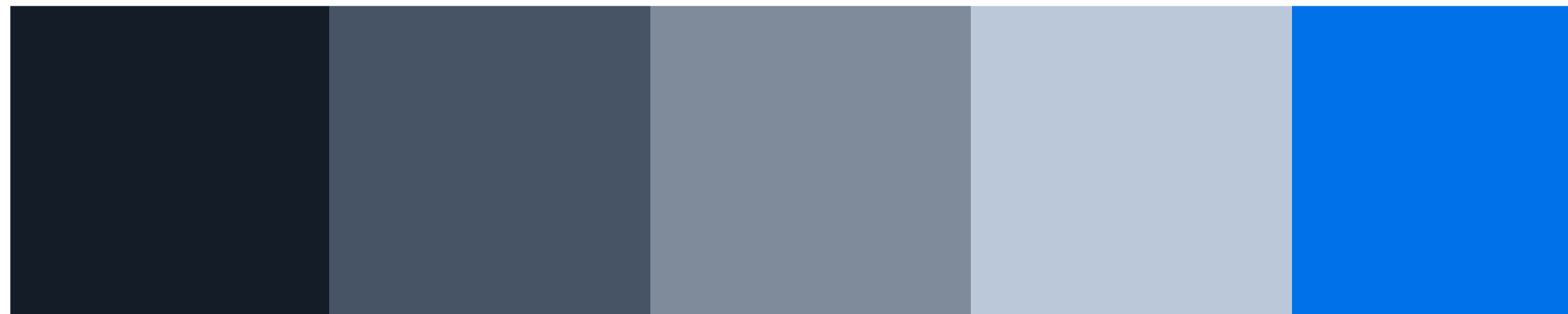


# NSAppearance


**Light** `.aqua`

A horizontal bar containing five color swatches: a dark gray, a medium gray, a light gray, a very light gray, and a vibrant blue.


**Vibrant Light** `.vibrantLight`

A horizontal bar containing five color swatches: a dark blue-gray, a medium blue-gray, a light blue-gray, a very light blue-gray, and a vibrant blue.


**Dark** `.darkAqua`

A horizontal bar containing five color swatches: a light gray, a medium gray, a dark gray, a very dark gray, and a vibrant blue.


**Vibrant Dark** `.vibrantDark`

A horizontal bar containing five color swatches: a light blue, a medium blue, a dark blue, a very dark blue, and a vibrant blue.

**High Contrast Light**

A horizontal bar containing five color swatches: a black, a dark gray, a medium gray, a light gray, and a vibrant blue.


**High Contrast Vibrant Light**

A horizontal bar containing five color swatches: a black, a dark blue-gray, a medium blue-gray, a light blue-gray, and a vibrant blue.

**High Contrast Dark**

A horizontal bar containing five color swatches: a white, a medium gray, a dark gray, a very dark gray, and a vibrant blue.

**High Contrast Vibrant Dark**

A horizontal bar containing five color swatches: a white, a medium blue, a dark blue, a very dark blue, and a vibrant blue.

# NSAppearance

NSApplication follows the system

Can be overridden by setting `appearance`

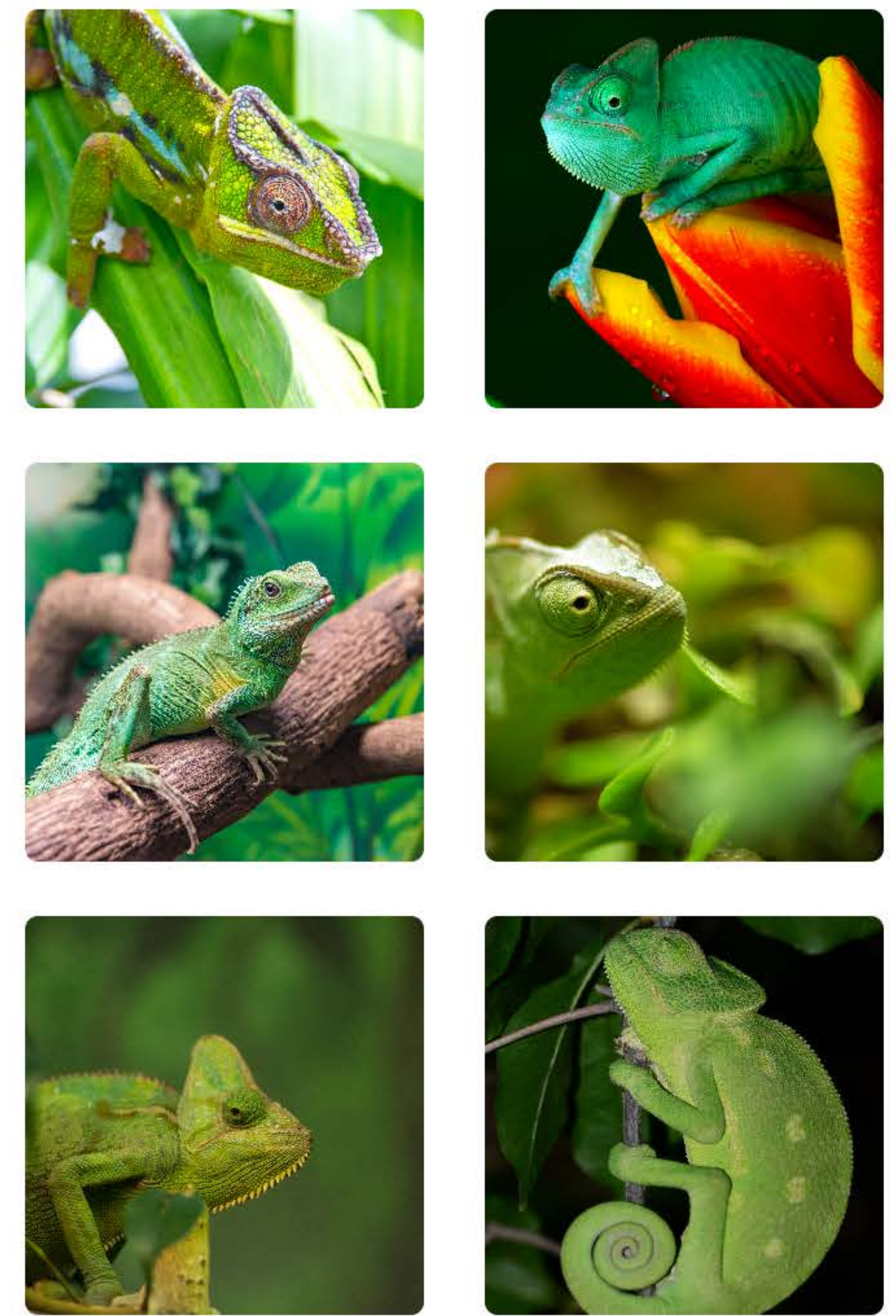
Chameleons

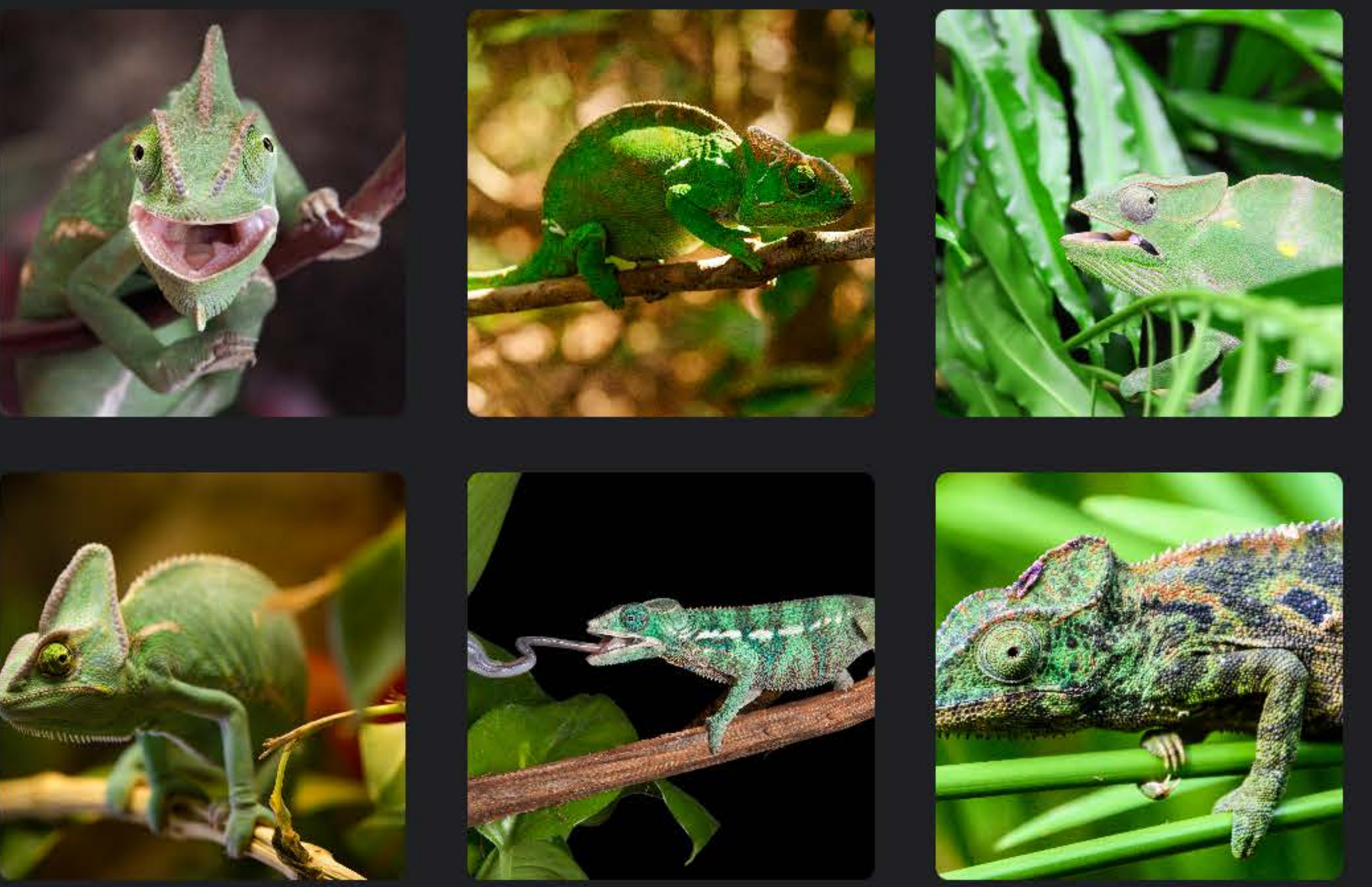
- Chadwick
- Chloe
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

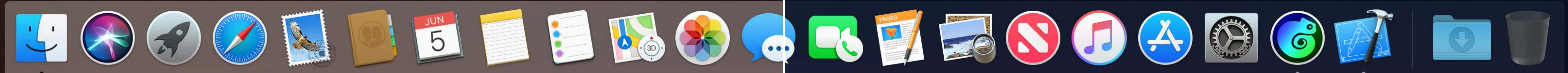
**Chloe**

2 years old

Photos
Vitals
Notes











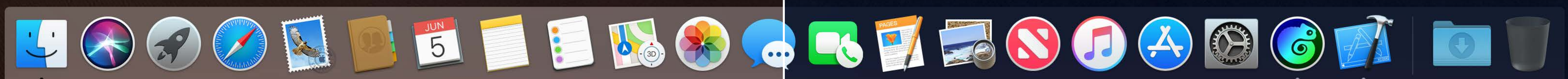
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**Chloe**  
2 years old

Photos Vitals Notes

```
NSApp.appearance = NSAppearance(named: .aqua)
```

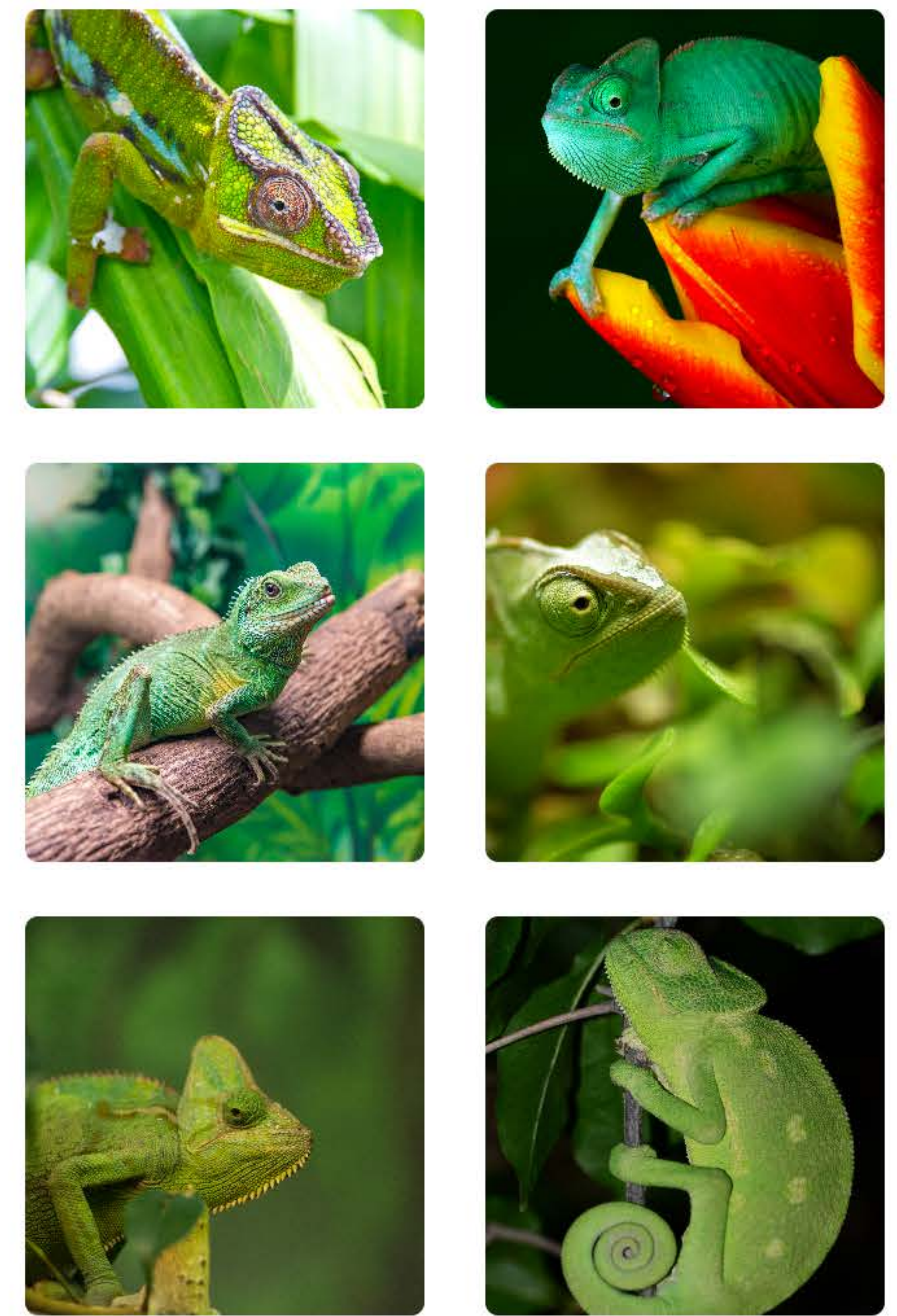


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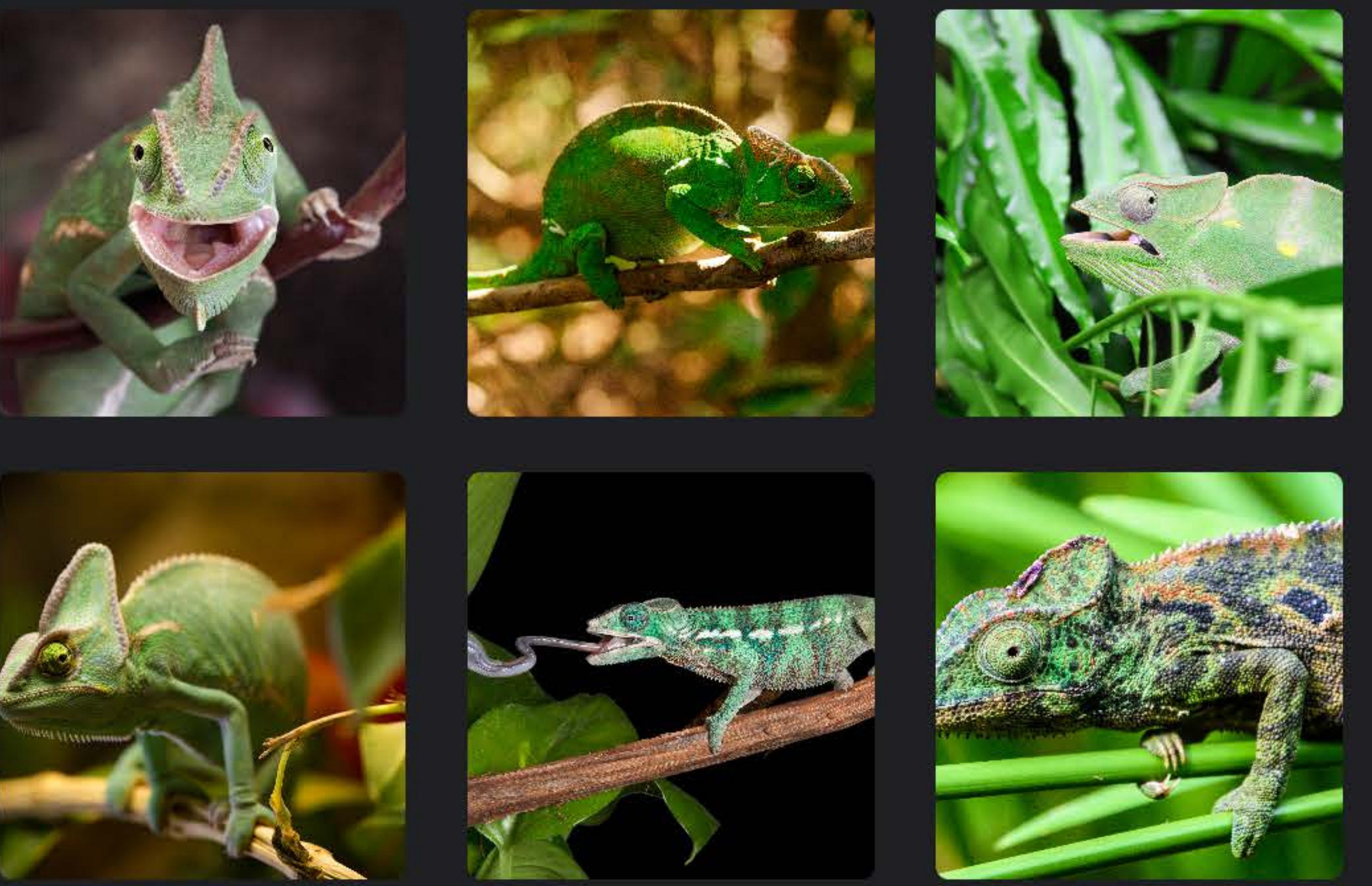
**Chloe**  
2 years old

Photos

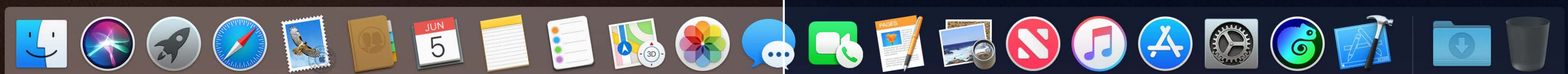


Vitals

Notes



```
NSApp.appearance = nil
```



# Always Dark Apps

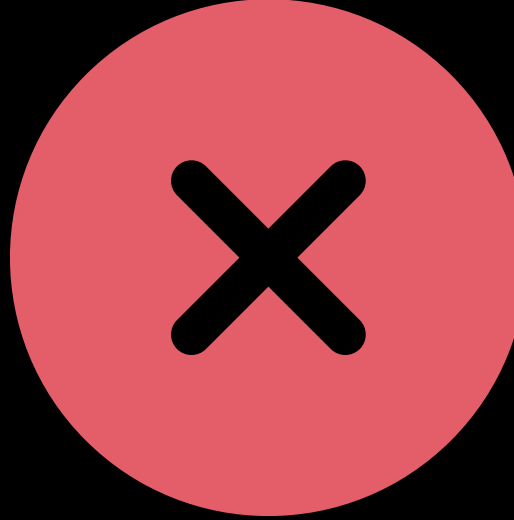

Media focused apps

Color sensitive workflows

Leave it as a choice

- System preference
- In app preference if needed

# Always Dark Apps

-  Do not set Vibrant Dark appearance on app or window
-  Use Dark Aqua instead

# NSAppearance

Set on an individual NSWindow, NSView

Inherited by contained views

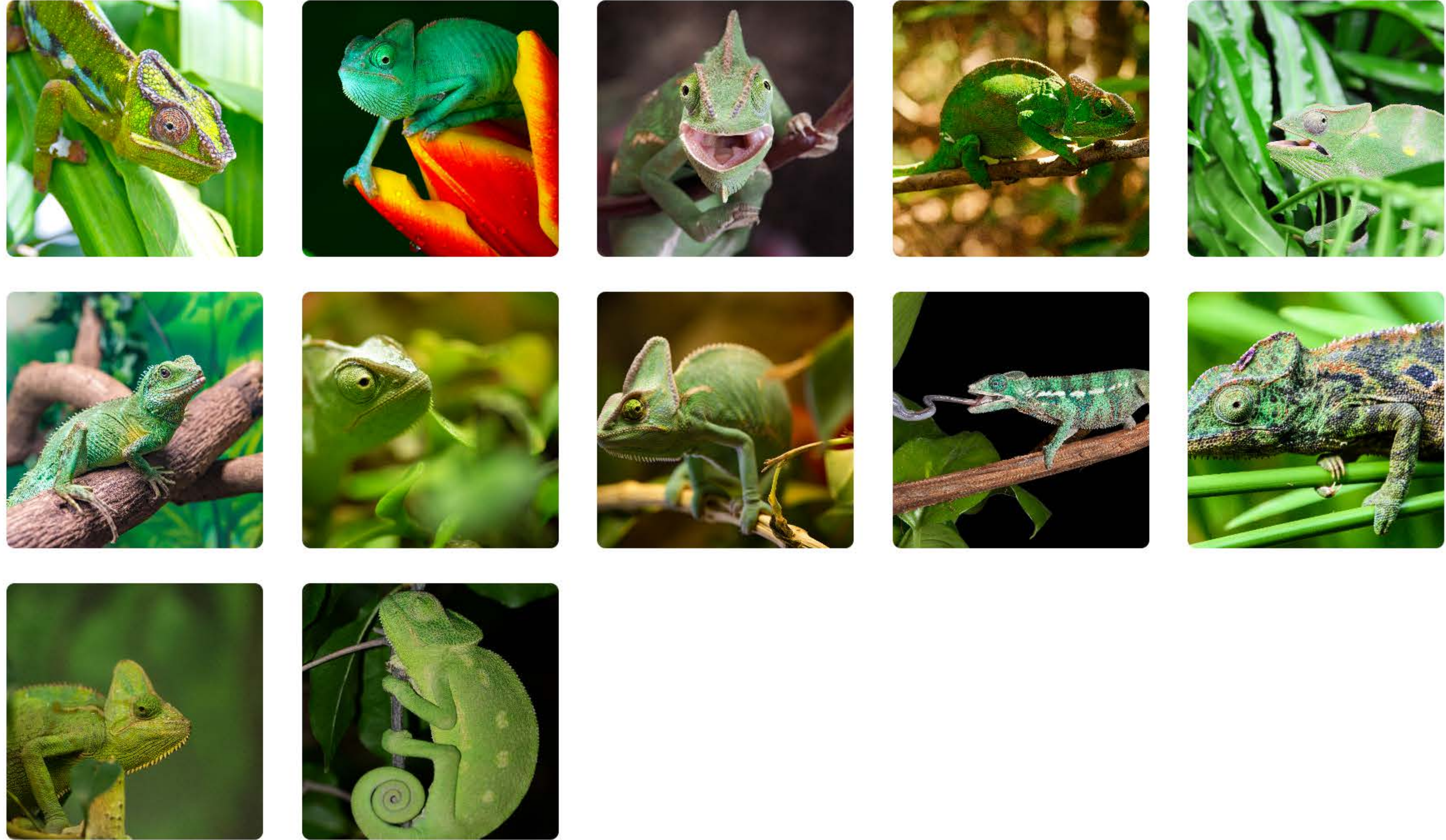
Drawing uses `view.effectiveAppearance`

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Photos Vitals Notes



```
sidebar.appearance = NSAppearance(named: .darkAqua)
```



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## Chloe

2 years old

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Green 87

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Hex Color # 38571A

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### Chloe

2 years old

Photos Vitals Notes

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We got her a dozen crickets.

**May 14, 2018**  
Looked around for Chloe for three hours. Turns out she was just blending into my shirt the whole time 😊

**May 9, 2018**  
Chloe got a bath today. 🛁

**May 8, 2018**

Colors

RGB Sliders

Red 56

Green 87

Blue 26

Hex Color # 38571A

Fonts

Collection	Family	Typeface	Size
All Fonts	Brush Script MT	Regular	18
English	Chalkboard	Bold	9
Favorites	Chalkboard SE		10
Recently Used	Chalkduster		11
Fixed Width	Charter		12
Fun	Cochin		13
Modern	Comic Sans MS		14
Nice collection	Copperplate		18
PDF	Courier		24

```
textView.appearance = NSAppearance(named: .aqua)
```

Chameleons

- Chadwick
- Chloe
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

### Chloe

2 years old

Photos Vitals Notes

June 4, 2018  
re patient presentation and only f  
patient x  
... watched my presentation and only f... Either I'm getting better or she's

May 25, 2018  
Tuesday! Took Chloe and Chester to the chameleon park today. Chloe got along great with all the chameleons in the neighborhood. It was very colorful!!

May 18, 2018  
Chloe's second birthday 🎂🎁🎉  
We got her a dozen crickets.

May 14, 2018  
Looked around for Chloe for three hours. Turns out she was just blending into my shirt the whole time 😊

May 9, 2018  
Chloe got a bath today. 🛁

May 8, 2018

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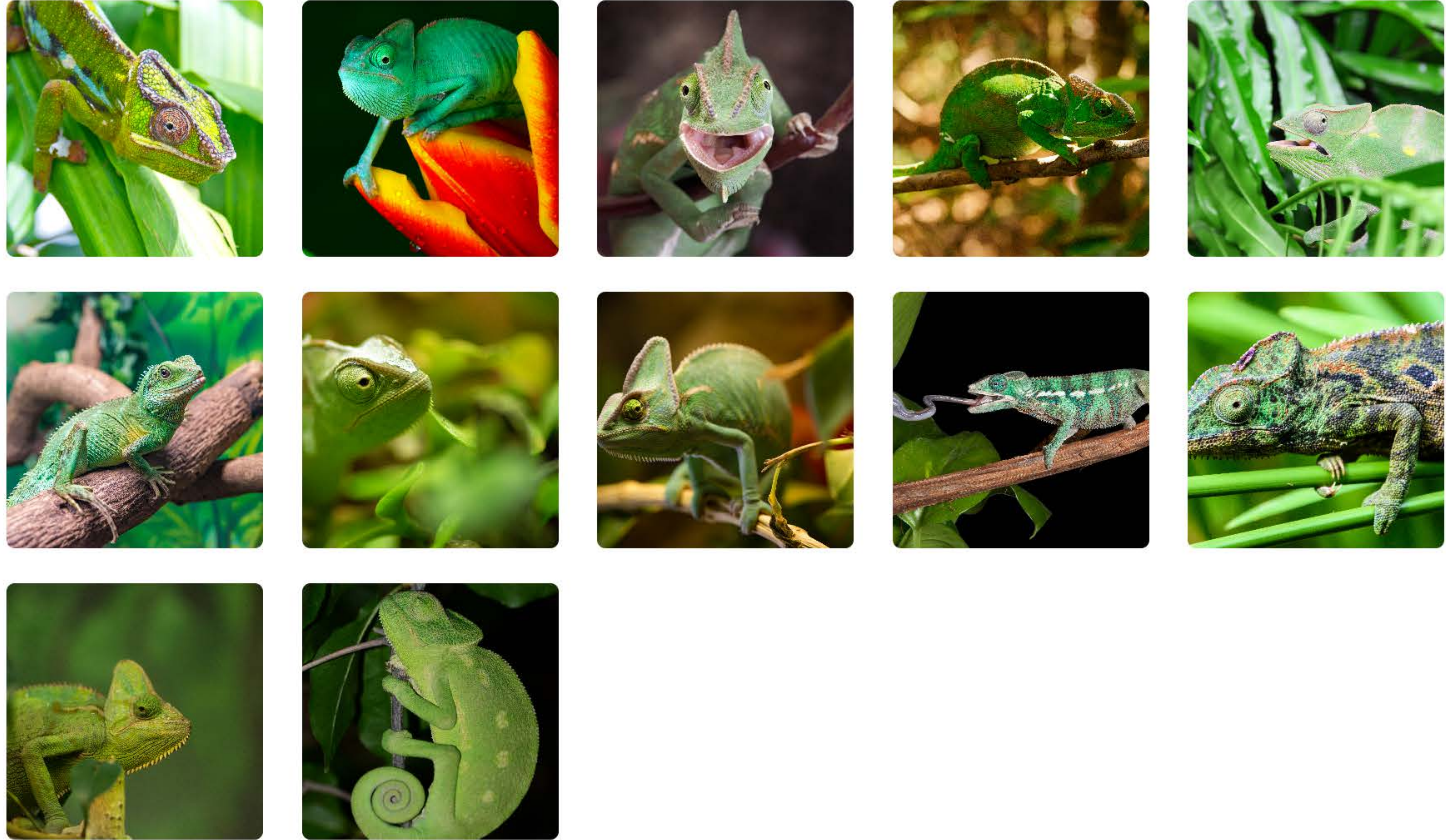
```
textView.appearance = NSAppearance(named: .aqua)
```

Chameleons

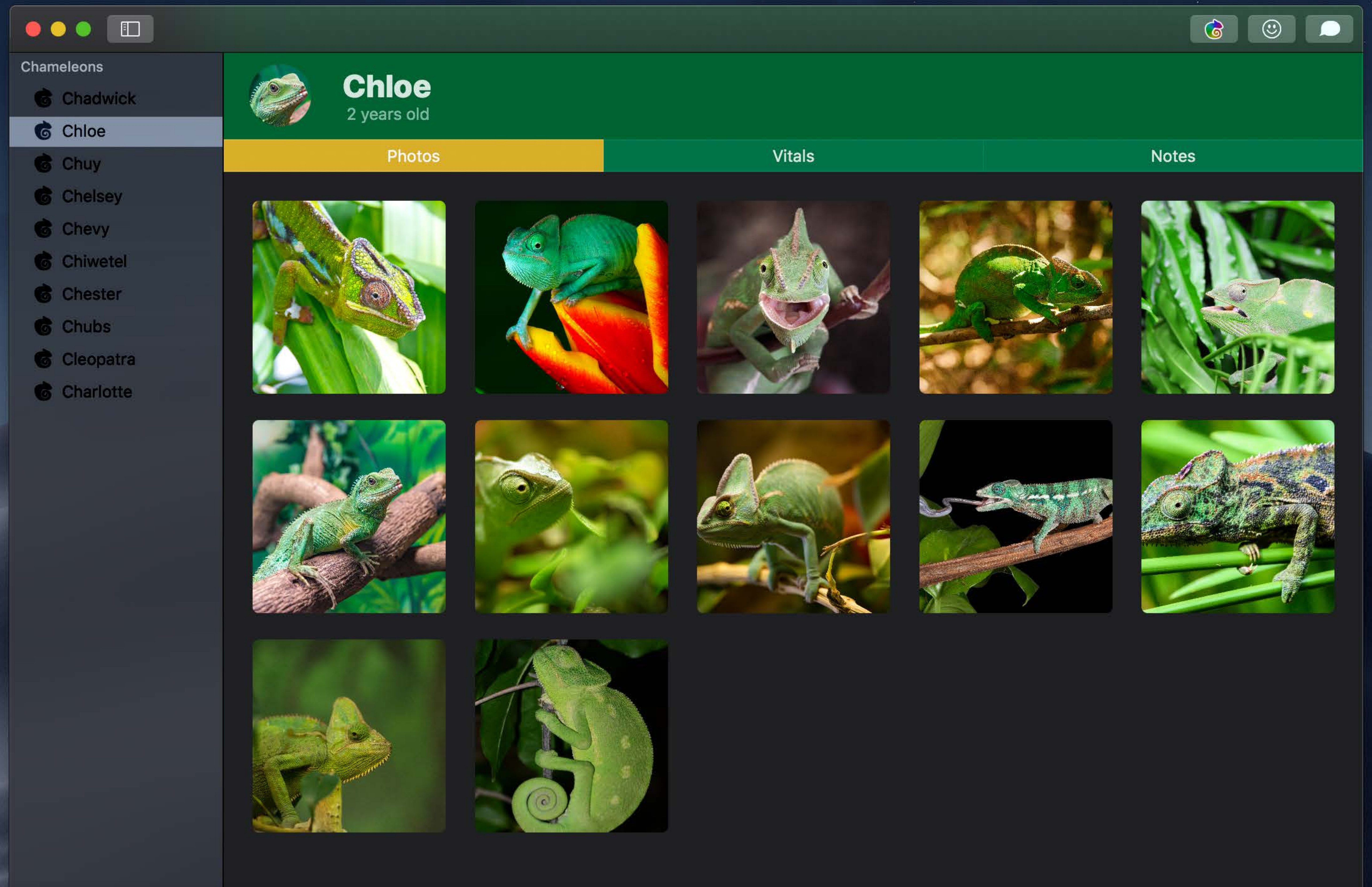
- Chadwick
- Chloe**
- Chuy
- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

**Chloe**  
2 years old

Photos Vitals Notes



```
tableView.appearance = NSAppearance(named: .vibrantLight)
```



```
tableView.appearance = NSAppearance(named: .vibrantLight)
```

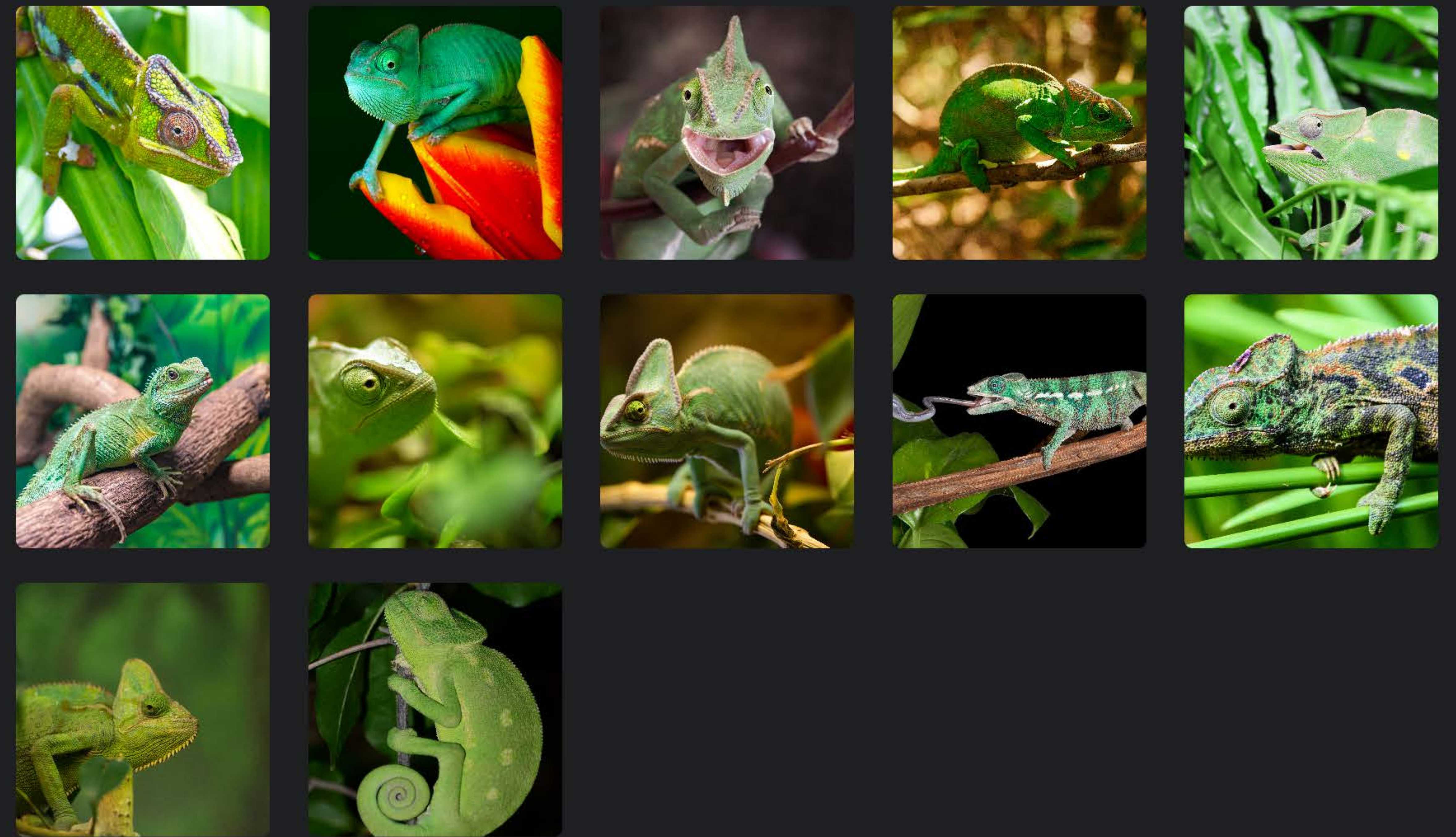


Chameleons

- Chadwick
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**Chloe**  
2 years old

Photos Vitals Notes



```
tableView.appearance = NSAppearance(named: .vibrantLight)
```











Main.storyboard — Edited

Chameleons

- Chadwick
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- Chelsey
- Chevy
- Chiwetel
- Chester
- Chubs
- Cleopatra
- Charlotte

Outline View

Outline Column: Column 0

Autosizes:

Indentation: 16

Indentation Follows Cells:

Autosave:  Autosave Expanded Items:

Table View

Content Mode: View Based

Floats Group Rows:

Columns: 1

Headers:  Reordering:

Resizing:

Column Sizing: Last Column Only

Highlight: Source List

Alternating Rows:

Horizontal Grid: None

Vertical Grid: None

Grid Color: Grid Color (Default)

Background: [Color Picker]

Selection:  Multiple:   Column:  Type Select:

Autosave: Autosave Name: [Text Field]  Column Information:

Window Control: Show

View

Tag: 0

Focus Ring: Default

Drawing:  Hidden:  Can Draw Concurrently:

View as: Dark Appearance

Appearance: Inherited (System, Dark A... [Dropdown Arrow]







**Chloe**  
2 years old

Photos Vitals Notes


A grid of 14 photographs of a green chameleon named Chloe. The photos show her in various poses: perched on a branch, eating a red and orange insect, with its mouth open, on a leaf, on a branch, and in profile. The background is dark, making the green chameleon stand out.

- Chameleons
- Chadwick
  - Chloe
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  - Cleopatra
  - Charlotte











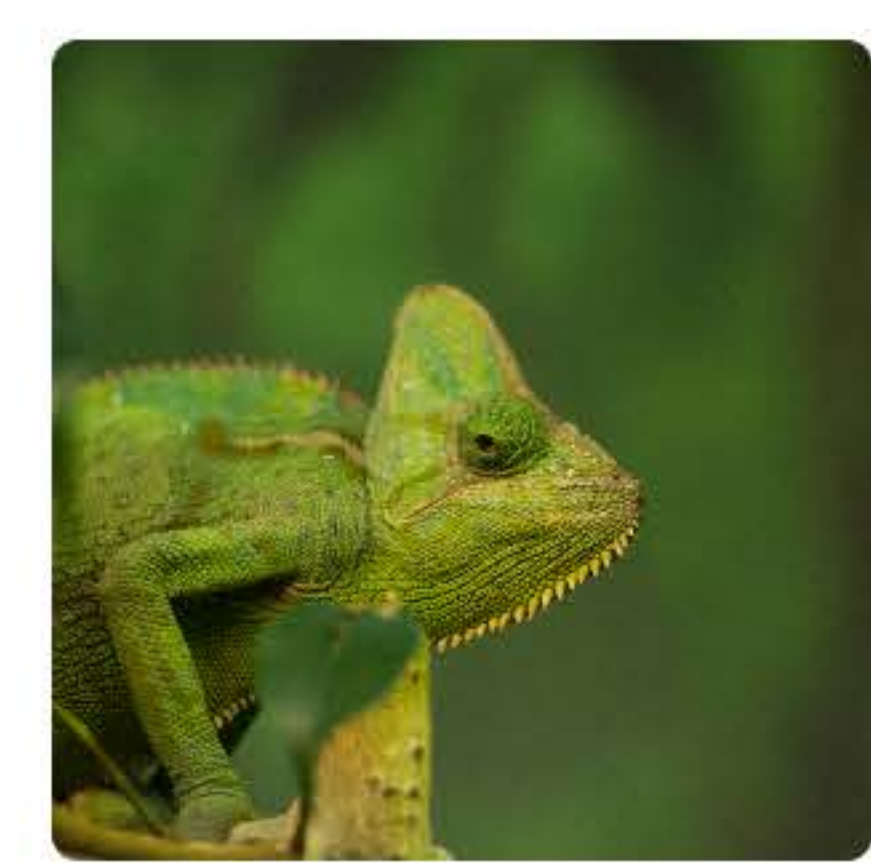



Chameleons

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- Chuy
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**Chloe**  
2 years old

Photos	Vitals	Notes
 		 
 		 
 		

# Steps to Look Great in Dark Mode

Run your app from Xcode 10 on 10.14



# Steps to Look Great in Dark Mode

Run your app from Xcode 10 on 10.14

Replace static colors, images, materials

- System Colors
- Asset Catalog Colors

Remove accidental NSAppearance overrides

# Advanced Dark Mode

Advanced NSAppearance

NSVisualEffectView and vibrant blending

Custom view drawing

View Debugger and Interface Builder

Back deployment strategies

# More Information

<https://developer.apple.com/wwdc18/210>

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Cocoa Lab

Technology Lab 9

Wednesday 9:00AM

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Cocoa and Dark Mode Lab

Technology Lab 9

Wednesday 2:00PM

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Cocoa Lab

Technology Lab 7

Friday 11:00AM

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 **WWDC18**